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July 25th 2024

State of Colorado
Division of Reclamation, Mining & Safety
1313 Sherman St., Room 215
Denver, CO 80203

Attn: Clayton Wein, Environmental Protection Specialist

Re: GCC Energy, LLC, King II Mine
CDRMS Permit # C-1981-035
Water Monitoring Analysis; King I & King II
2nd Quarter 2024

Mr. Wein:

Please find enclosed a copy of quarterly water analysis reports for the 2nd quarter of 2024 for the following water monitoring locations:

Wiltse Well
#1 Up-gradient Monitoring Well & Blind Duplicate MW-98
#2 Down-gradient Monitoring Well
Hay Gulch Irrigation Ditch, Down-gradient & Resample
Hay Gulch Irrigation Ditch, Up-gradient
MW-1-A
MW-3-MI, MW-3-A, MW-3-C
MW-4-MI & Blind Duplicate MW-99, MW-4-A, MW-4-C
MW-5-MI
MW-HGA-4
MW-6-LM
MW-7-EAA
MW-8-EAA, MW-8-MI, MW-8-LM, MW-8-PL
Seep 1
Seep 3

Also enclosed are summary sheets for the above water monitoring locations which include field collection data.

Please contact me at 505.286.6081 or skretz@gcc.com if you have any questions or require any additional information.

Sincerely,

A handwritten signature in black ink that reads 'Samantha Kretz' in a cursive script.

Samantha Kretz
Environmental Manager, South Region
Energy, LLC

GCC Energy Hydrologic Monitoring Data

Well #2 Downgradient																												
Year		2018					2019				2020				2021				2022				2023				2024	
Quarter		Q1	Q2	Q3	Q4	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2				

GCC Energy Hydrologic Monitoring Data

MW-1-A																															
Year	2018									2019				2020				2021				2022				2023				2024	
Quarter	Q1			Q2		Q3			Q4	Q1	Q2	Q3	Q4																		

GCC Energy Hydrologic Monitoring Data

MW-1-MI																															
Year		2018								2019				2020				2021				2022				2023				2024	
Quarter		Q1		Q2		Q3		Q4		Q1	Q2	Q3	Q4	Q1																	

GCC Energy Hydrologic Monitoring Data

[illegible]

Notes & Definitions:

Historical data prior to 2018 can be found in earlier posted versions of this table

- | | | | |
|-------|-----------------------------|----|--|
| Y/N | yes or no | 1. | "<" values denote that the quantification of that analyte is below the reporting level for the analytical laboratory, acceptable by environmental water quality laboratory industry standards. |
| gpm | gallons per minute | | |
| deg C | degrees Celsius | | |
| SU | standard pH units | 2. | Total alkalinity is measured by titration with hydrochloric acid to a set pH point, reporting this value as an equivalent amount of calcium carbonate. This value is then partitioned into bicarbonate, carbonate and hydroxide depending on the initial pH of the sample solution, each components reported as equivalent CaCO ₃ . |
| µS/cm | microsiemens per centimeter | | |
| mV | millivolts | | |
| mg/L | milligram per liter | | |
| pCi/L | picocuries per liter | 3. | Industry standard Quality Assurance/Quality Control (QA/QC) protocol are followed for this hydrologic monitoring program by both GCC Energy and the contracted environmental water quality analytical laboratories. QA/QC results are not shown in this table. |
| NM | not measured (field) | | |
| NA | not analyzed (lab) | | |
| ng/L | nanogram per liter | | |

GCC Energy Hydrologic Monitoring Data

MW-2-MI																														
Year		2018						2019				2020				2021				2022				2023				2024		
Quarter		Q1			Q2		Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
Month		1	2	3	4	5	8	11	2	5	8	11	2	5	9	11	2	5	8	11	3	6	9	12	3	6	8	11	3	6
Sample Date		1/2	2/9	3/22	4/11	5/10	8/7	11/1	2/20	5/29	8/14	11/6	2/11	5/27	9/1	11/24	2/15	5/20	8/24	11/17	3/23	6/14	9/8	12/4	3/31	6/14	8/18	11/13	3/17	6/19
Lab Analysis (Y/N)		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Field Parameters:																														
Purge Flow Rate	gpm	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	
Total Purged	gal																													
Depth to Water	ft bgs																													
Temperature	deg C																													
pH	SU																													
Specific Conductance	µS/cm																													
Oxygen Reduction Potential	mV																													
Lab Analytical Results:																														
Hardness as CaCO3	mg/L																													
pH (Lab)	SU																													
Total Dissolved Solids (Lab)	mg/L																													
Calcium	mg/L																													
Magnesium	mg/L																													
Sodium	mg/L																													
Potassium	mg/L																													
Alkalinity, Total	mg/L																													
Alkalinity, Bicarbonate	mg/L																													
Alkalinity, Carbonate	mg/L																													
Alkalinity, Hydroxide	mg/L																													
Chloride	mg/L																													
Fluoride	mg/L																													
Sulfate as SO4	mg/L																													
Total Organic Carbon (TOC)	mg/L																													
Nitrate/Nitrite as N	mg/L																													
Aluminum	mg/L																													
Arsenic	mg/L																													
Cadmium	mg/L																													
Copper	mg/L																													
Iron	mg/L																													
Lead	mg/L																													
Manganese	mg/L																													
Mercury (dissolved)	mg/L																													
Mercury (dissolved low-level)	ng/L																													
Molybdenum	mg/L																													
Selenium	mg/L																													
Silica (SiO2)	mg/L																													
Silicon	mg/L																													
Uranium	mg/L																													
Zinc	mg/L																													

Notes & Definitions:

- Y/N

yes or no

gpm

gallons per minute

deg C

degrees Celsius

SU

standard pH units

µS/cm

microsiemens per centimeter

mV

millivolts

mg/L

milligram per liter

pCi/L

picocuries per liter

NM

not measured (field)

NA

not analyzed (lab)

ng/L

nanogram per liter
1.

"<" values denote that the quantification of that analyte is below the reporting level for the analytical laboratory, acceptable by environmental water quality laboratory industry standards.

2.

Total alkalinity is measured by titration with hydrochloric acid to a set pH point, reporting this value as an equivalent amount of calcium carbonate. This value is then partitioned into bicarbonate, carbonate and hydroxide depending on the initial pH of the sample solution, each components reported as equivalent CaCO3.

3.

Industry standard Quality Assurance/Quality Control (QA/QC) protocol are followed for this hydrologic monitoring program by both GCC Energy and the contracted environmental water quality analytical laboratories. QA/QC results are not shown in this table.

GCC Energy Hydrologic Monitoring Data

MW-2-C																														
Year		2018						2019				2020				2021				2022				2023				2024		
Quarter		Q1			Q2		Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
Month		1	2	3	4	5	8	11	2	5	8	11	2	5	9	11	2	5	8	11	3	6	9	12	3	6	8	11	3	6
Sample Date		1/2	2/9	3/22	4/11	5/10	8/7	11/1	2/20	5/29	8/14	11/6	2/11	5/27	9/1	11/24	2/15	5/20	8/24	11/17	3/23	6/14	9/8	12/4	3/31	6/14	8/18	11/13	3/17	6/19
Lab Analysis (Y/N)		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Field Parameters:																														
Purge Flow Rate	gpm	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	
Total Purged	gal																													
Depth to Water	ft bgs																													
Temperature	deg C																													
pH	SU																													
Specific Conductance	µS/cm																													
Oxygen Reduction Potential	mV																													
Lab Analytical Results:																														
Hardness as CaCO3	mg/L																													
pH (Lab)	SU																													
Total Dissolved Solids (Lab)	mg/L																													
Calcium	mg/L																													
Magnesium	mg/L																													
Sodium	mg/L																													
Potassium	mg/L																													
Alkalinity, Total	mg/L																													
Alkalinity, Bicarbonate	mg/L																													
Alkalinity, Carbonate	mg/L																													
Alkalinity, Hydroxide	mg/L																													
Chloride	mg/L																													
Fluoride	mg/L																													
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Total Organic Carbon (TOC)	mg/L																													
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Arsenic	mg/L																													
Cadmium	mg/L																													
Copper	mg/L																													
Iron	mg/L																													
Lead	mg/L																													
Manganese	mg/L																													
Mercury (dissolved)	mg/L																													
Mercury (dissolved low-level)	ng/L																													
Molybdenum	mg/L																													
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Zinc	mg/L																													

Notes & Definitions:

- Y/N

yes or no
- gpm

gallons per minute
- deg C

degrees Celsius
- SU

standard pH units
- µS/cm

microsiemens per centimeter
- mV

millivolts
- mg/L

milligram per liter
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picocuries per liter
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3.

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GCC Energy Hydrologic Monitoring Data

MW-3-MI																														
Year	2018							2019				2020				2021				2022				2023				2024		
Quarter	Q1			Q2		Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	
Month	1	2	3	4	5	8	11	2	5	8	11	2	5	8	12	2	5	8	11	2	5	9	11	3	6	8	11	2	6	
Sample Date	1/3	2/21	3/23	4/12	5/7	8/8	11/6	2/27	5/21	8/21	11/12	2/4	5/26	8/31	12/1	2/10	5/18	8/10	11/9	2/24	5/11	9/6	11/18	3/16	6/15	8/8	11/16	2/21	6/20	
Lab Analysis (Y/N)	N	Y	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
Field Parameters:																														
Purge Flow Rate	gpm	NM	0.10	NM	0.10	0.10	0.10	0.12	0.12	0.06	0.25	0.50	0.25	0.13	0.13	0.10	0.13	0.13	0.25	0.25	0.25	0.15	0.10	0.11	0.12	0.26	0.33	0.09	0.17	
Total Purged	gal	1.3	1.5	1.5	1.0	1.3	1.0	1.5	1.3	2.0	1.0	1.5	1.3	1.8	1.3	1.3	1.5	1.5	1.3	1.5	2.0	1.3	1.3	1.1	1.1	1.1	1.1	1.1	1.3	
Depth to Water	ft bgs	240.73	240.55	240.65	240.84	241.04	241.97	242.13	242.15	242.32	246.55	243.07	242.85	243.05	243.6	243.9	243.93	244.25	244.28	244.15	242.90	244.05	244.65	244.3	243.83	249.55	242.86	242.65	242.35	242.4
Temperature	deg C	11.9	11.3	11.9	11.8	12.6	13.0	12.4	11.6	11.3	13.2	12.3	11.6	12.6	12.8	11.7	11.5	12.8	13.0	11.9	11.4	13.2	13.7	11.6	11.7	12.5	13.1	12.3	11.7	13.1
pH	SU	8.84	8.83	8.84	8.51	8.48	8.49	8.46	8.51	8.55	8.71	8.75	8.71	8.92	9.01	9.09	9.03	9.06	9.13	9.11	9.07	9.04	9.03	8.81	9.06	9.03	9.00	8.89	8.97	8.80
Specific Conductance	µS/cm	1790	1810	1771	1772	1727	1709	1746	1753	1739	1691	1739	1758	1737	1560	1555	1519	1232	1647	1765	1705	1686	1720	1739	1609	1737	1702	1784	1788	1704
Oxygen Reduction Potential	mV	-136.0	-131.4	-160.7	-99.9	-103.9	-127.8	-176.5	-113.0	-84.5	43.9	-130.8	-104.3	-174.5	-111.0	-132.4	-94.6	-120.4	-142.9	-163.3	-207.2	-104.2	-184.3	-158.9	-186.8	-192.3	-213.0	-263.6	-279.2	-222.1
Lab Analytical Results:																														
Hardness as CaCO3	mg/L		9.92			8.65	8.63	8.88	7.63	6.84	7.98	6.64	6.50	7.25	6.39	5.94	6.63	5.06	5.39	5.21	5.28	5.13	<3.31	<3.31	<3.31	<3.31	< 3.31	5.20	4.21	5.20
pH (Lab)	SU		8.66			8.56	8.58	8.34	8.5	8.45	8.58	8.62	8.61	8.59	8.87	8.77	8.72	8.84	8.81	8.88	8.78	8.87	8.76	8.78	8.63	8.71	8.84	8.85	8.76	8.76
Total Dissolved Solids (Lab)	mg/L		1170			1210	1110	1120	1120	1170	1010	1130	1130	1130	1060	1160	1120	1110	1180	1130	1070	1140	1080	1070	1140	1100	1070	1050	1120	1060
Calcium	mg/L		2.22			1.91	1.95	2.03	1.87	1.7	2.04	1.73	1.63	1.76	1.62	1.42	1.66	1.28	1.34	1.25	1.30	1.32	1.14	1.15	1.24	1.11	1.10	1.34	1.14	1.26
Magnesium	mg/L		1.07			0.945	0.911	0.926	0.715	0.629	0.703	0.561	0.591	0.694	0.570	0.579	0.606	0.454	0.5	0.508	0.496	0.442	<0.500	<0.500	<0.500	<0.500	< 0.500	0.449	0.332	0.501
Sodium	mg/L		459			417	446	476	434	419	454	437	437	427	431	431	468	410	403	390	413	415	374	389	397	408	398	405	388	413
Potassium	mg/L		<2.00			1.63	<2.00	<2.00	1.39	1.65	<2.00	<5.00	<2.00	<5.00	<3.00	<4.00	<5.00	<2.00	<2.00	<2.00	1.27	<2.00	<5.00	<5.00	<5.00	<5.00	< 5.00	< 2.00	< 2.00	< 2.00
Alkalinity, Total	mg/L		700			680	730	720	685	755	720	690	705	680	625	770	690	690	705	705	740	740	780	760	680	700	660	630	670	730
Alkalinity, Bicarbonate	mg/L		600			500	630	610	485	605	590	610	645	550	465	690	450	550	555	565	580	580	480	540	620	572	590	510	590	630
Alkalinity, Carbonate	mg/L		100			180	100	110	200	150	130	80.0	60.0	130	160	80	240	140	150	140	160	160	300	220	60.0	128	70.0	120	80.0	100
Alkalinity, Hydroxide	mg/L		<10.0			<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	< 10.0	< 10.0	< 10.0	< 10.0	
Chloride	mg/L		10.7			10.7	8.54	8.83	9.21	9.25	10.2	9.13	9.21	9.61	9.45	10	9.84	10.5	10.4	10.4	10.6	10.2	11.2	10.7	10.9	10.8	10.8	10.7	10.7	10.6
Fluoride	mg/L		1.30			1.2	1.16	1.19	1.21	1.22	1.19	1.19	1.13	1.13	1.09	1.12	1.03	1.09	1.07	0.980	1.10	0.982	1.11	1.08	1.10	1.02	0.862	0.924	0.940	1.12
Sulfate as SO4	mg/L		245			250	226	230	232	229	236	224	227	231	222	110														

GCC Energy Hydrologic Monitoring Data

MW-3-C																														
Year	2018							2019				2020				2021				2022				2023				2024		
Quarter	Q1			Q2		Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	
Month	1	2	3	4	5	8	11	2	5	9	11	3	5	8	12	2	5	8	11	2	5	9	12	3	6	8	11	2	6	
Sample Date	1/3	2/21	3/23	4/12	5/7	8/8	11/6	2/27	5/21	9/17	11/12	3/13	5/26	8/31	12/1	2/10	5/18	8/10	11/10	2/24	5/11	9/6	12/13	3/29	6/15	8/8	11/16	2/21	6/20	
Lab Analysis (Y/N)	N	Y	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
Field Parameters:																														
Purge Flow Rate	gpm	NM	0.10	NM	0.10	0.10	0.10	0.10	0.06	0.06	0.13	0.13	0.10	0.03	0.08	0.13	0.13	0.13	0.13	0.13	0.15	0.10	0.15	0.03	0.24	0.09	0.11	0.10	0.12	0.08
Total Purged	gal	1.5	1.5	1.5	1.0	1.3	1.3	1.1	1.3	1.5	10.0	1.5	11.0	1.1	1.3	1.5	1.3	1.5	1.3	1.5	1.5	1.5	1.5	1.0	1.0	1.1	1.1	1.1	1.1	
Depth to Water	ft bgs	297.01	296.66	296.57	296.62	296.78	297.12	296.80	296.39	295.56	295.70	295.50	299.35	294.99	294.60	295.26	295.97	295.25	295.70	295.68	294.45	295.11	295.45	295.10	294.25	293.70	294.46	294.41	293.85	293.66
Temperature	deg C	11.7	11.4	11.6	12.2	13.0	13.3	11.5	11.0	11.4	13.5	12.5	11.3	13.4	15.0	14.0	9.9	12.3	15.6	9.6	9.4	13.2	14.4	1.9	13.2	12.9	14.6	11.7	12.7	13.8
pH	SU	8.43	8.43	8.45	8.25	8.28	8.26	8.17	8.28	8.29	8.31	8.20	7.98	8.44	8.45	8.73	8.71	8.50	8.71	8.85	8.62	8.43	8.29	9.15	8.44	8.42	8.37	8.26	8.24	8.17
Specific Conductance	µS/cm	4923	4864	5063	5019	4916	4953	5127	5155	5184	5144	5144	4921	3143	5039	4251	4426	3755	4571	5244	4564	4694	5306	2397	5300	5353	5283	5584	2560	5377
Oxygen Reduction Potential	mV	-187.9	-183.5	-155.4	-154.7	-161.4	-180.5	-217.6	-185.4	-188.5	-151.8	-184.4	-155.0	-240.5	-174.4	-150.0	-202.7	-149.6	-255.3	-227.4	-325.6	-223.4	-307.9	-277.2	57.8	-199.5	-202.4	-275.0	-231.2	-199.2
Lab Analytical Results:																														
Hardness as CaCO3	mg/L		16.1			40.3	17.9	21.7	17.3	16.8	18.6	18.6	18.3	16.0	18.1	16.9	18.5	14.8	16.9	16.7	16.0	17.4	20.4	16.4	17.1	13.7	16.1	17.7	16.3	18.7
pH (Lab)	SU		8.35			8.34	8.31	8.24	8.2	8.23	8.31	8.12	7.98	8.41	8.36	8.36	8.43	8.38	8.47	8.87	8.44	8.47	8.18	8.49	8.81	8.29	8.21	8.27	8.39	8.20
Total Dissolved Solids (Lab)	mg/L		3540			3610	3520	3360	3300	3440	3500	3390	3220	3180	3170	3280	3200	3230	3300	3200	3270	3250	3280	3140	3150	2310	3220	3300	3360	3270
Calcium	mg/L		3.81			7.28	4.01	4.70	4.05	3.74	4.30	4.23	4.26	3.81	3.97	3.72	4.25	3.59	3.84	3.76	3.66	4.10	4.49	3.68	3.91	3.32	3.63	3.97	3.74	4.26
Magnesium	mg/L		1.59			5.38	1.92	2.41	1.75	1.8	1.91	1.94	1.86	1.58	1.98	1.84	1.92	1.42	1.77	1.78	1.67	1.74	2.23	1.75	1.77	1.33	1.70	1.89	1.70	1.97
Sodium	mg/L		1200			1350	1220	1460	1270	1100	1360	1300	1280	1240	1250	1250	1360	1220	1220	1170	1200	1260	1360	1170	1260	906	1240	1270	1240	1300
Potassium	mg/L		<10.0			<5.00	<5.00	<5.00	<5.00	5.24	<5.00	<10.0	<10.0	<10.0	<10.0	<10.0	<6.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<10.0	<5.00	<10.0	<10.0	<6.00	<10.0	
Alkalinity, Total	mg/L		1910			1760	1730	2050	2000	2110	2190	2130	2160	2050	1820	2090	2170	2130	2140	2230	2180	2170	2110	2120	2220	1410	2140	2140	2180	2280
Alkalinity, Bicarbonate	mg/L		1810			1600	1670	1900	1830	2000	2020	2070	2000	1800	1690	1970	1710	1910	1950	1950	1820	1870	1990	2120	1920	1410	2070	2060	2060	2040
Alkalinity, Carbonate	mg/L		100			160	60.0	150	170	110	170	60.0	160	250	130	120	460	220	190	280	360	300	120	<10.0	300	<10.0	70.0	80.0	120	240
Alkalinity, Hydroxide	mg/L		<10.0			<10.0	NA	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Chloride	mg/L		549			544	524	561	577	575	620	542	549	555	552	578	574	577	582	462	608	605	613	604	622	360	639	644	646	649
Fluoride	mg/L		4.15			3.52	3.84	4.04	4.04	3.91	3.78	3.66	3.61	3.51	3.47	3.53	3.37	3.34	3.36	3.16	3.37	3.06	3.51	3.25	3.38	1.96	2.59	2.91	3.14	3.59
Sulfate as SO4	mg/L		<10.0			<5.00	<5.00	<5.00	<5.00	<5.00	<5.00																			

GCC Energy Hydrologic Monitoring Data

MW-4-A																														
Year	2018							2019				2020				2021				2022				2023				2024		
Quarter	Q1			Q2		Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	
Month	1	2	3	4	5	8	11	2	5	8	11	2	5	8	11	2	5	8	11	2	5	9	11	3	6	8	11	2	6	
Sample Date	1/3	2/21	3/23	4/12	5/14	8/8	11/5	2/27	5/22	8/15	11/12	2/6	5/26	8/27	11/25	2/10	5/18	8/10	11/10	2/23	5/11	9/1	11/17	3/9	6/15	8/7	11/16	2/12	6/20	
Lab Analysis (Y/N)	N	Y	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
Field Parameters:																														
Purge Flow Rate	gpm	NM	0.10	NM	0.10	0.10	0.10	0.10	0.06	0.06	0.06	0.13	0.03	0.03	0.13	0.13	0.05	0.13	0.25	0.20	0.22	0.13	0.13	0.06	0.05	0.03	0.08	0.05	0.06	0.04
Total Purged	gal	1.3	1.5	1.5	1.0	1.5	1.5	1.1	1.5	1.3	1.1	1.0	1.5	1.2	1.3	1.3	1.3	1.3	1.5	1.3	1.8	1.5	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Depth to Water	ft bgs	334.31	334.73	334.81	335.07	335.58	336.06	336.73	335.6	335.07	335.21	335.16	336.35	337.16	336.88	336.13	335.46	335.72	335.93	336.16	336.01	336.31	336.74	337.16	337.66	330.46	335.36	335.49	335.38	335.96
Temperature	deg C	10.9	9.8	11.4	10.9	17.8	12.9	11.6	11.1	10.4	13.6	11.6	10.3	12.5	14.0	12.3	10.3	11.2	12.1	11.6	9.4	12.4	15.6	12.4	11.6	15.0	15.2	12.4	10.9	14.1
pH	SU	8.33	8.37	8.41	8.19	8.20	8.10	8.12	8.15	8.08	8.02	8.11	8.07	8.19	8.27	8.30	8.25	8.30	8.38	8.38	8.35	8.34	8.33	8.77	8.41	8.38	8.33	8.25	8.25	8.12
Specific Conductance	µS/cm	2259	2267	2207	2214	2183	2192	2246	2205	2237	2201	2211	2271	2273	2165	2249	2052	1618	2205	2268	2294	2244	2236	2236	2090	2246	2171	2298	2291	2212
Oxygen Reduction Potential	mV	-35.2	-75.9	-117.3	-77.9	-81.8	-137.5	-157.6	-92.3	-89.3	-54.3	-19.8	15.3	-71.3	-11.5	-10.6	29.0	-63.4	-48.7	-77.3	-153.2	-78.6	-203.9	-66.6	35.8	-41.9	-76.5	-167.0	-207.3	-80.1
Lab Analytical Results:																														
Hardness as CaCO3	mg/L		7.73			7.84	7.69	8.81	7.76	7.31	8.62	8.00	8.19	7.46	7.87	7.77	8.87	7.02	5.81	7.54	8.32	7.88	8.44	7.41	7.78	8.02	6.50	7.47	7.88	8.97
pH (Lab)	SU		8.28			8.31	8.21	8.24	8.05	8.08	8.15	8.02	8.11	7.90	8.19	8.16	8.04	8.15	8.09	8.21	8.24	8.24	8.50	8.29	8.10	8.12	8.23	8.30	8.07	8.21
Total Dissolved Solids (Lab)	mg/L		1490			1470	1430	1350	1450	1410	1540	1490	1500	1480	1460	1560	1370	1430	1510	1470	1400	1540	1480	1430	1390	1480	1480	1400	1350	1430
Calcium	mg/L		1.81			1.75	1.71	1.92	1.77	1.68	1.94	1.82	1.88	1.67	1.79	1.73	2.04	1.65	1.41	1.76	1.87	1.88	1.95	1.67	1.73	1.83	1.58	1.75	1.83	2.11
Magnesium	mg/L		0.778			0.846	0.832	0.973	0.809	0.756	0.914	0.837	0.850	0.798	0.826	0.836	0.917	0.704	0.555	0.765	0.890	0.771	0.868	0.783	0.842	0.839	0.616	0.751	0.803	0.897
Sodium	mg/L		507			528	531	568	535	515	548	529	551	498	533	531	565	507	411	488	504	523	520	482	559	535	503	509	538	520
Potassium	mg/L		<2.00			1.5	<2.00	<2.00	<2.00	<2.00	4.75	<5.00	<3.00	<5.00	<5.00	<5.00	<5.00	<3.00	<5.00	<2.00	<2.00	<2.00	<5.00	<5.00	1.24	< 5.00	< 5.00	< 3.00	< 2.00	
Alkalinity, Total	mg/L		530			560	575	575	545	565	575	544	560	585	605	538	620	590	580	670	535	605	590	480	569	579	562	515	555	585
Alkalinity, Bicarbonate	mg/L		490			560	555	575	505	544	535	528	560	545	565	530	620	530	580	670	485	455	590	480	531	579	524	515	545	585
Alkalinity, Carbonate	mg/L		40.0			<10.0	20.0	<10.0	40	32	40.0	16.0	<10.0	40.0	40	<10.0	<10.0	60	<10.0	<10.0	50.0	150	<10.0	<10.0	38.0	<10.0	38.0	< 10.0	< 10.0	< 10.0
Alkalinity, Hydroxide	mg/L		<10.0			<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Chloride	mg/L		10.0			9.94	9.55	8.60	8.93	8.99	8.91	8.76	8.83	8.89	10.1	9.15	8.79	9.15	9.17	9.04	9.04	8.97	9.89	9.61	9.72	10.3	10.6	10.3	11.3	< 25.0
Fluoride	mg/L		<0.500			<0.500	<0.500	0.143	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.500	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.500	<0.500	0.165	< 0.500	< 0.500	< 1.00	< 2.50	
Sulfate as SO4																														

GCC Energy Hydrologic Monitoring Data

MW-4-C																														
Year	2018								2019				2020				2021				2022				2023				2024	
Quarter	Q1			Q2		Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	
Month	1	2	3	4	5	8	11	2	5	8	11	2	5	8	12	2	5	8	11	2	5	9	11	3	5	8	11	2	6	
Sample Date	1/3	2/21	3/23	4/12	5/14	8/8	11/5	2/27	5/22	8/15	11/12	2/4	5/26	8/27	12/1	2/10	5/18	8/10	11/10	2/23	5/11	9/1	11/17	3/9	5/31	8/18	11/16	2/12	6/20	
Lab Analysis (Y/N)	N	Y	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		
Field Parameters:																														
Purge Flow Rate	gpm	NM	0.10	NM	0.10	0.10	0.10	0.20	0.12	0.06	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.25	0.25	0.18	0.08	0.09	0.16	0.08	0.08	0.12	0.11	
Total Purged	gal	1.5	1.5	1.5	1.0	1.5	1.0	1.3	1.5	1.3	1.1	1.0	1.5	1.2	1.5	1.3	1.5	1.5	1.5	1.5	1.5	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	
Depth to Water	ft bgs	282.35	281.30	303.30	304.05	NM	302.55	302.17	302.45	303.93	304.93	305.73	306.44	304.90	307.80	308.05	308.65	308.58	309.32	309.90	309.80									

Notes & Definitions:

Historical data prior to 2018 can be found in earlier posted versions of this table

- | | | |
|-------|-----------------------------|---|
| ^ | one-time analysis | |
| Y/N | yes or no | 1. " <i><</i> " values denote that the quantification of that analyte is below the reporting level for the analytical laboratory, acceptable by environmental water quality laboratory industry standards. |
| gpm | gallons per minute | |
| deg C | degrees Celsius | |
| SU | standard pH units | 2. Total alkalinity is measured by titration with hydrochloric acid to a set pH point, reporting this value as an equivalent amount of calcium carbonate. This value is then partitioned into bicarbonate, carbonate and hydroxide depending on the initial pH of the sample solution, each components reported as equivalent CaCO ₃ . |
| µS/cm | microsiemens per centimeter | |
| mV | millivolts | |
| mg/L | milligram per liter | |
| pCi/L | picocuries per liter | |
| NM | not measured (field) | 3. Industry standard Quality Assurance/Quality Control (QA/QC) protocol are followed for this hydrologic monitoring program by both GCC Energy and the contracted environmental water quality analytical laboratories. QA/QC results are not shown in this table. |
| NA | not analyzed (lab) | |
| ng/L | nanogram per liter | |

GCC Energy Hydrologic Monitoring Data

MW-6-A																													
Year	2018	2019										2020				2021				2022				2023				2024	
Quarter	Q4	Q1			Q2			Q3			Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
Month	12	1	2	3	4	5	6	7	8	9	11	2	5	8	11	2	5	8	11	2	5	8	11	3	5	8	11	2	6
Sample Date	12/28	1/31	2/21	3/21	4/23	5/20	6/19	7/23	8/15	9/24	11/7	2/5	5/14	8/11	11/25	2/9	5/17	8/9	11/9	2/15	5/10	8/31	11/25	3/13	5/18	8/8	11/16	2/5	6/19
Lab Analysis (Y/N)	Y	N	Y	N	N	Y	N	N	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	N	N	N	N	N	N	
Field Parameters:																													
Purge Flow Rate	gpm	NM	NM	0.10	2.00	0.03	0.03	0.03	0.06	0.03	0.02	0.01	0.05	0.13	0.05	0.05	0.05	0.02	0.13	0.02	0.05	0.10	dry	dry	dry	dry	dry	dry	dry
Total Purged	gal	36.3	0.5	0.5	2.0	2.0	1.3	1.0	1.3	1.1	1.3	1.5	1.1	1.0	1.3	1.0	1.0	1.0	1.0	1.0	1.0								
Depth to Water	ft bgs	304.33	306.41	307.40	309.60	311.05	312.50	314.20	315.75	316.43	NM	318.70	315.46	319.63	319.64	319.65	319.66	319.66	319.64	319.66	320.30	320.68							
Temperature	deg C	7.4	10.7	8.1	7.5	9.6	7.3	12.5	12.3	11.9	10.4	10.4	7.8	9.8	19.5	8.0	9.7	12.6	19.4	10.7	11.5	17.3							
pH	SU	7.32	6.64	6.66	6.74	6.65	6.73	6.76	6.75	6.76	6.80	6.79	6.89	6.95	6.97	7.10	7.03	7.10	7.11	7.11	7.02	7.05							
Specific Conductance	µS/cm	6573	6053	6072	6107	6012	6057	5725	5598	5562	5451	5108	5043	4779	4339	4656	4051	3198	4238	4465	4486	4477							
Oxygen Reduction Potential	mV	-22.8	19.4	24.6	12.6	11.8	34.8	86.6	25.8	6.5	29.2	20.5	36.7	51.7	62.3	55.2	73.5	83.5	5.2	26.5	-56.1	2.4							
Lab Analytical Results:																													
Hardness as CaCO3	mg/L	4360		4190			3920			3540		3070	3200	2780	2690	2710	2660	2550	2740	2510	2440	2490							
pH (Lab)	SU	7.10		6.85			6.77			6.85		6.87	6.9	6.93	6.66	7.04	7.20	6.93	7.1	6.98	7.19	7.26							
Total Dissolved Solids (Lab)	mg/L	6520		6520			120*			6080		5210	4980	4670	4490	4570	4480	4390	4440	4310	4440	4450							
Calcium	mg/L	615		559			553			492		431	467	400	398	406	398	378	415	370	359	365							
Magnesium	mg/L	687		678			617			560		484	495	431	411	413	404	390	413	385	374	383							
Sodium	mg/L	294		283			296			304		276	296	274	261	273	272	266	263	254	257	268							
Potassium	mg/L	15.0		14.4			12.4			12.8		11.1	<20.0	10.6	10.3	10.5	11.1	10.7	11	10.4	10.7	10.6							
Alkalinity, Total	mg/L	160		160			143			183		220	215	233	236	246	245	290	255	295	285	270							
Alkalinity, Bicarbonate	mg/L	160		160			143			183		220	215	233	236	246	245	290	255	295	285	270							
Alkalinity, Carbonate	mg/L	<10.0		<10.0			<10.0			<10.0		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0								
Alkalinity, Hydroxide	mg/L	<10.0		<10.0			<10.0			<10.0		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0								
Chloride	mg/L	97.4		28.6			27.3			29.9		29.6	28.4	29.0	26.0	26.6	24.9	25.8	26	26.6	26.2	26.1							
Fluoride	mg/L	2.83		<0.500			<0.500			<0.500		<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500								
Sulfate as SO4	mg/L	205		4300			4280			4260		3460	3080	3020	3160	2890	2620	2740	2780	2790	2870	2820							
Total Organic Carbon (TOC)	mg/L	3.45		3.08			2.91			3.57		3.10	3.16	3.39	3.31	3.26	1.71	3.82	3.33	3.25	3.26	3.14							
Nitrate/Nitrite as N	mg/L	<0.020		<0.020			<0.020			<0.020		<0.020	0.049	0.154	0.117	0.093	0.039	0.156	0.118	0.096	0.131	0.103							
Ammonia as N ^	mg/L	NA		NA			NA			NA		2.72	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							
Ortho-Phosphate as P ^	mg/L	NA		NA			NA			NA		<0.0500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							
Aluminum	mg/L	<0.500		<0.250			<0.250			<0.250		<0.250	<1.00	<0.500	<0.250	<0.500	<0.250	<0.250	<0.250	<0.250	<0.250								
Arsenic	mg/L	<0.0025		<0.0025			0.0009			<0.0025		<0.0025	<0.0025	<0.0050	<0.0025	<0.0050	<0.0025	<0.0025	<0.0025	<0.0025	<0.0020	<0.0025							
Cadmium	mg/L	<0.0005		<0.0005			0.0001			<0.0005		<0.0005	<0.0005	<0.0010	<0.0005	<0.0010	<0.0005	<0.0025	<0.0025	<0.0025	<0.0020	<0.0025							
Copper	mg/L	0.0116		0.0081			0.0035			0.0039		0.0017	0.0028	<0.0050	<0.0025	<0.0050	<0.0025	0.0068	0.0082	0.0063	0.0065	0.0093							
Iron	mg/L	1.37		3.75			3.93			3.22		2.72	1.95	1.38	1.10	1.24	1.17	0.890	1.48	1.15	1.41	1.37							
Lead	mg/L	<0.0025		<0.0025			<0.0005			<0.0025		<0.0025	<0.0025	<0.0050	<0.0025	<0.0050	<0.0025	<0.0025	<0.0025	<0.0025	<0.0020	<0.0025							
Manganese	mg/L	0.788		0.802			0.724			0.690		0.585	0.551	0.526	0.520	0.454	0.437	0.397	0.407	0.391	0.420	0.431							
Mercury (dissolved)	mg/L	<0.0002		<0.0002			<0.0002			<0.0002		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002								
Mercury (dissolved low-level)	ng/L																				<5.00								
Molybdenum	mg/L	<0.0025		<0.0025			<0.0005			<0.0025		<0.0025	<0.0025	<0.0050	<0.0025	<0.005	<0.0025	<0.0025	<0.0025	<0.0025	<0.0020	<0.0025							
Selenium	mg/L	<0.0050		<0.0050			0.0028			<0.0050		<0.0050	<0.0050	<0.0100	<0.0050	<0.0100	<0.0050	<0.0050	<0.0050	<0.0100	<0.0040	<0.0050							
Silica (SiO2)	mg/L	12.3		11.9			14.3			13.4		12.5	<21.4	11.0	11.4	12.3	11.9	13.2	14.3	13.6	12.7	12.3							
Silicon	mg/L	5.77		5.57			6.69			6.28		5.83	<10.00	5.17	5.35	5.76	5.58	6.17	6.67	6.36	5.96	5.73							
Uranium	mg/L	<0.0005		<0.0005			<0.0001			<0.0005		<0.0005	<0.0025	<0.0050	<0.0025	<0.0050	<0.0025	<0.0025	<0.0025	<0.0025	<0.0020	<0.0025							
Zinc	mg/L	0.0689		<0.0100			0.0082			0.0108		0.0117	0.0107	<0.0200	0.0159	<0.0200	<0.0100	<0.0100	<0.0100	<0.0100	<0.0080	<0.0100							

Notes & Definitions:

- * Anomalous value under review

^ one-time analysis

Y/N yes or no

gpm gallons per minute

deg C degrees Celsius

SU standard pH units

µS/cm microsiemens per centimeter

mV millivolts

mg/L milligram per liter

pCi/L picocuries per liter

NM not measured (field)

NA not analyzed (lab)

ng/L nanogram per liter

1. "*<*" values denote that the quantification of that analyte is below the reporting level for the analytical laboratory, acceptable by environmental water quality laboratory industry standards.

2. Total alkalinity is measured by titration with hydrochloric acid to a set pH point, reporting this value as an equivalent amount of calcium carbonate. This value is then partitioned into bicarbonate, carbonate and hydroxide depending on the initial pH of the sample solution, each components reported as equivalent CaCO3.

3. Industry standard Quality Assurance/Quality Control (QA/QC) protocol are followed for this hydrologic monitoring program by both GCC Energy and the contracted environmental water quality analytical laboratories. QA/QC results are not shown in this table.

GCC Energy Hydrologic Monitoring Data

MW-6-MI																														
Year	2018	2019											2020				2021				2022				2023				2024	
Quarter	Q4	Q1			Q2				Q3			Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
Month	12	1	2	3	4	5	5	6	7	8	9	11	2	5	8	11	2	5	8	11	2	5	8	11	3	5	8	11	2	6
Sample Date	12/29	1/31	2/25	3/21	4/19	5/20	5/30	6/19	7/23	8/15	9/24	11/7	2/5	5/14	8/11	11/24	2/9	5/17	8/9	11/9	2/15	5/10	8/1	11/25	3/13	5/31	8/8	11/16	2/5	6/19
Lab Analysis (Y/N)	Y	N	Y	N	N	N [#]	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Field Parameters:																														
Purge Flow Rate	gpm	NM	NM	NM	0.5	0.1	0.015	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	
Total Purged	gal	11.3	0.5	1.5	0.5	1.0	0.9																							
Depth to Water	ft bgs	374.49	368.09	367.92	370.49	369.50	371.00																							
Temperature	deg C	14.3	13.6	10.8	9.7	16.7	3.9																							
pH	SU	8.26	7.43	7.21	7.55	7.97	7.84																							
Specific Conductance	µS/cm	3390	3620	3132	2619	2202	2527																							
Oxygen Reduction Potential	mV	103.0	-80.2	77.6	59.8	38.3	64.9																							
Lab Analytical Results:																														
Hardness as CaCO3	mg/L	679		147																										
pH (Lab)	SU	8.18		8.35																										
Total Dissolved Solids (Lab)	mg/L	2480		1880																										
Calcium	mg/L	104		23.4																										
Magnesium	mg/L	102		21.6																										
Sodium	mg/L	646		565																										
Potassium	mg/L	12.0		5.30																										
Alkalinity, Total	mg/L	395		615																										
Alkalinity, Bicarbonate	mg/L	345		615																										
Alkalinity, Carbonate	mg/L	50.0		<10.0																										
Alkalinity, Hydroxide	mg/L	<10.0		<10.0																										
Chloride	mg/L	175		178																										
Fluoride	mg/L	2.06		2.46																										
Sulfate as SO4	mg/L	1210		585																										
Total Organic Carbon (TOC)	mg/L	3.63		4.55																										
Nitrate/Nitrite as N	mg/L	0.023		<0.020																										
Aluminum	mg/L	<0.100		<0.100																										
Arsenic	mg/L	0.0084		0.0144																										
Cadmium	mg/L	<0.0001		<0.0002																										
Copper	mg/L	0.0113		0.0112																										
Iron	mg/L	<0.100		<0.100																										
Lead	mg/L	<0.0005		<0.0010																										
Manganese	mg/L	0.0500		0.0224																										
Mercury (dissolved)	mg/L	<0.0002		<0.0002																										
Molybdenum	mg/L	0.0558		0.0690																										
Selenium	mg/L	0.0098		0.0127																										
Silica (SiO2)	mg/L	9.93		9.05																										
Silicon	mg/L	4.64		4.23																										
Uranium	mg/L	0.0200		0.0118																										
Zinc	mg/L	0.0092		0.0143																										

Notes & Definitions:		
#	No sample collected, due to low yield, insufficient volume for lab sample after field parameters we measured	
Y/N	yes or no	1. "≤" values denote that the quantification of that analyte is below the reporting level for the analytical laboratory, acceptable by environmental water quality laboratory industry standards.
gpm	gallons per minute	
deg C	degrees Celsius	
SU	standard pH units	2. Total alkalinity is measured by titration with hydrochloric acid to a set pH point, reporting this value as an equivalent amount of calcium carbonate. This value is then partitioned into bicarbonate, carbonate and hydroxide depending on the initial pH of the sample solution, each components reported as equivalent CaCO3.
µS/cm	microsiemens per centimeter	
mV	millivolts	
mg/L	milligram per liter	
pCi/L	picocuries per liter	3. Industry standard Quality Assurance/Quality Control (QA/QC) protocol are followed for this hydrologic monitoring program by both GCC Energy and the contracted environmental water quality analytical laboratories. QA/QC results are not shown in this table.
NM	not measured (field)	
NA	not analyzed (lab)	
ng/L	nanogram per liter	

GCC Energy Hydrologic Monitoring Data

[illegible]

Notes & Definitions:

Y/N	yes or no	1. "<i><</i>" values denote that the quantification of that analyte is below the reporting level for the analytical laboratory, acceptable by environmental water quality laboratory industry standards. 2. Total alkalinity is measured by titration with hydrochloric acid to a set pH point, reporting this value as an equivalent amount of calcium carbonate. This value is then partitioned into bicarbonate, carbonate and hydroxide depending on the initial pH of the sample solution, each components reported as equivalent CaCO3. 3. Industry standard Quality Assurance/Quality Control (QA/QC) protocol are followed for this hydrologic monitoring program by both GCC Energy and the contracted environmental water quality analytical laboratories. QA/QC results are not shown in this table.
gpm	gallons per minute	
deg C	degrees Celsius	
SU	standard pH units	
µS/cm	microsiemens per centimeter	
mV	millivolts	
mg/L	milligram per liter	
pCi/L	picocuries per liter	
NM	not measured (field)	
NA	not analyzed (lab)	
ng/L	nanogram per liter	

GCC Energy Hydrologic Monitoring Data

MW-6-LM																															
Year	2018	2019										2020				2021				2022				2023				2024			
Quarter	Q4	Q1			Q2			Q3			Q4		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	
Month	12	1	2	3	4	5	6	7	8	9	10	11	2	5	8	11	2	5	8	11	2	5	8	11	3	5	8	11	2	6	
Sample Date	12/30	1/31	2/25	3/21	4/23	5/20	6/19	7/23	8/15	9/24	10/28	11/7	2/5	5/14	8/11	11/25	2/9	5/17	8/9	11/9	2/15	5/10	8/31	11/25	3/13	5/31	8/8	11/16	2/12	6/19	
Lab Analysis (Y/N)	Y	N	Y	N	N	Y	N	N	Y	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
Field Parameters:																															
Purge Flow Rate	gpm	NM	NM	0.06	2.00	0.03	0.03	0.10	0.06	0.03	0.02	0.01	0.03	0.01	0.13	0.01	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.20	0.06	0.03	0.05	0.05	0.19	0.03	
Total Purged	gal	0.5	0.5	1.5	2.0	2.0	2.3	1.3	1.3	1.8	2.0	1.5	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.0	1.5	1.4	1.4	1.4	1.4	1.4	
Depth to Water	ft bgs	535.72	538.73	539.34	540.64	539.98	537.58	540.00	540.35	540.24	540.17	539.80	540.18	539.70	539.45	539.98	540.30	539.78	540.20	541.25	541.34	541.00	541.30	542.20	541.30	541.37	541.50	541.88	541.85	541.65	541.65
Temperature	deg C	7.9	14.3	7.8	8.1	9.1	9.3	11.7	14.0	13.4	11.6	10.1	12.4	10.5	11.3	14.8	11.4	10.2	11.6	14.4	11.1	11.0	11.8	13.1	10.4	8.7	14.4	13.5	10.9	8.7	12.2
pH	SU	7.64	7.38	7.51	7.54	7.49	7.54	7.67	7.80	7.65	7.43	7.45	7.37	7.39	7.54	7.44	7.47	7.44	7.54	7.52	7.49	7.46	7.56	7.64	7.70	7.77	7.58	7.67	7.55	7.65	7.36
Specific Conductance	µS/cm	6011	3784	3503	1461	1164	1296	1400	1272	1532	2104	2267	2113	2283	2287	2442	2495	2136	1629	2531	2478	2362	2297	2053	1889	1599	1321	1525	1655	1498	1153
Oxygen Reduction Potential	mV	185.3	10.7	40.9	-32.8	-35.8	-111.0	-194.5	-163.6	-67.2	6.4	-48.0	19.9	-128.9	-222.9	32.1	21.8	3.5	-188.8	-2.6	-36.6	-135.8	-112.6	-181.6	-132.5	-80.3	-41.7	-75.3	-173.0	-249.9	-122.1
Lab Analytical Results:																															
Hardness as CaCO3	mg/L	2260		1270			431						843	1060	965	1130	1160	1120	1010	1280	1130	1030	954	971	870	687	456	573	621	535	414
pH (Lab)	SU	7.60		7.52			7.47						7.32	7.43	7.18	6.95	7.45	7.49	7.45	7.37	7.57	7.54	7.60	7.90	7.60	7.75	7.58	7.79	7.76	7.48	7.24
Total Dissolved Solids (Lab)	mg/L	5100		2840			875						1630	1840	1840	2040	2020	1990	1830	2290	2050	1990	1840	1870	1620	1290	940	1030	1060	940	755
Calcium	mg/L	367		216			75.9						136	173	150	179	184	176	154	201	174	159	145	152	133	109	76.8	91.5	99.1	86.9	70.5
Magnesium	mg/L	325		177			58.7						122	153	143	165	171	166	152	189	170	154	144	143	131	101	64.2	83.5	90.6	77.2	57.8
Sodium	mg/L	459		248			129						172	203	188	194	194	188	169	177	166	162	158	163	150	139	125	128	132	131	123
Potassium	mg/L	173		64.5			14.0						11.3	11	7.82	7.20	6.04	5.96	5.22	5.69	4.99	5.22	<5.00	4.84	4.34	4.04	3.14	< 5.00	3.34	3.47	3.11
Alkalinity, Total	mg/L	205		315			371						355	320	353	335	329	336	346	330	380	365	365	337	310	368	470	390	355	355	360
Alkalinity, Bicarbonate	mg/L	205		315			371						355	320	353	335	329	336	346	330	380	365	365	337	310	368	470	390	355	355	360
Alkalinity, Carbonate	mg/L	<10.0		<10.0			<10.0						<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	< 10.0	< 10.0	< 10.0	< 10.0
Alkalinity, Hydroxide	mg/L	<10.0		<10.0			<10.0						<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	< 10.0	< 10.0	< 10.0	< 10.0
Chloride	mg/L	256		43.7			5.73						11.4	11	11.7	12.2	12.4	11	10.5	12.6	11.1	10.5	10.9	10.7	9.29	6.75	5.09	5.75	6.09	6.04	4.47
Fluoride	mg/L	0.530		<0.500			0.324			<0.500			<0.500	0.352	<0.500	0.346	0.356	0.318	0.340	0.418	0.306	0.328	<0.500	0.310	0.322	0.328	0.254	< 0.200	0.240	< 0.500	0.306
Sulfate as SO4	mg/L	3050		1790			338			492			830	951	904	1260	1170	1020	978	1300	1100	555	931	1010	848	563	366	500	534	451	298
Total Organic Carbon (TOC)	mg/L	3.46		2.61			1.57			1.78			1.85	1.76	1.84	1.87	1.93	3.17	1.81	1.91	1.94	1.83	1.74	2.08	1.29	2.13	<2.5	1.66	0.764	1.70	1.74
Nitrate/Nitrite as N	mg/L	<0.020		<0.020			<0.020			<0.020			<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.022	< 0.020	< 0.020	< 0.020	< 0.020
Ammonia as N ^	mg/L	NA		NA			NA			NA			1.99	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ortho-Phosphate as P ^	mg/L	NA		NA			NA			NA			<0.0500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	mg/L	<0.250		<0.250			<0.050			<0.050			<0.100	<0.250	<0.250	<0.150	<0.250	<0.250	<0.150	<0.100	<0.100	<0.250	<0.250	<0.100	<0.100	<0.100	<0.100	< 0.250	< 0.100	< 0.100	< 0.100
Arsenic	mg/L	0.0039		0.0049			0.0036			0.0038			0.0035	0.0044	0.0034	0.0038	0.0036	0.0038	0.0038	0.0039	0.0038	0.0042	0.0034	0.0034	0.0043	0.0054	0.0030	< 0.0025	0.0040	0.0052	0.003
Cadmium	mg/L	<0.0005		<0.0005			<0.0001			<0.0001			<0.0002	<0.0002	<0.0005	<0.0003	<0.0005	<0.0005	<0.0015	<0.0010	<0.0010	<0.0010	<0.0025	<0.001	<0.0010	<0.0025	<0.0010	< 0.0025	< 0.0010	< 0.0010	< 0.0010
Copper	mg/L	0.0135		0.0064			0.0017			0.0018			0.0069	0.0014	<0.0025	<0.0015	<0.0025	<0.0025	0.0042	0.0046	0.0040	0.0044	0.0038	0.0054	0.0030	0.0100	0.0016	< 0.0025	0.0032	0.0060	0.005
Iron	mg/L	<0.250		<0.250			<0.050			<0.050			<0.100	<0.250	<0.250	<0.150	<0.250	<0.250	<0.150	<0.100	<0.100	<0.250	<0.250	<0.100	<0.100	0.152	<0.1	< 0.250	< 0.100	< 0.100	< 0.100
Lead	mg/L	<0.0025		<0.0025			<0.0005			<0.0005			<0.0010	<0.001	<0.0025	<0.0015	<0.0025	<0.0025	<0.0015	<0.0010	<0.0010	<0.0010	<0.0025	<0.001	<0.0010	<0.0025	<0.001	< 0.0025	< 0.0010	< 0.0025	< 0.0010
Manganese	mg/L	0.383		0.223			0.0692			0.148			0.166	0.184	0.171	0.267	0.292	0.253	0.203	0.257	0.263	0.339	0.249	0.174	0.220	0.221	0.0961	0.111	0.0727	0.215	0.082
Mercury (dissolved)	mg/L	<0.0002		<0.0002			<0.0002			<0.0002			&																		

GCC Energy Hydrologic Monitoring Data

MW-7-EAA																															
Year	2018	2019											2020				2021				2022				2023				2024		
Quarter	Q4	Q1			Q2			Q3			Q4		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	
Month	12	1	2	3	4	5	6	7	8	9	10	11	2	5	8	11	2	5	8	11	2	5	8	11	3	6	9	11	3	6	
Sample Date	12/23	1/29	2/19	3/20	4/16	5/29	6/20	7/24	8/13	9/27	10/24	11/6	2/11	5/27	8/25	11/11	2/16	5/24	8/24	11/30	3/23	6/7	9/8	11/28	3/18	6/14	8/8	11/13	3/17	6/19	
Lab Analysis (Y/N)	Y	N	Y	N	N	Y	N	N	Y	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
Field Parameters:																															
Purge Flow Rate	gpm	1.10	1.10	1.00	3.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.25	0.13	0.25	0.25	0.13	0.25	0.25	0.25	0.25	0.25	0.25	0.20	0.11	0.16	0.17	0.10	0.07	
Total Purged	gal	15.0	18.0	15.0	3.0	15.0	16.0	15.3	15.3	17.0	15.0	15.0	15.0	36.5	15.0	16.0	17.0	15.0	17.0	17.0	18.0	18.0	17.0	17.0	0.5	0.4	0.4	0.4	0.4	0.4	
Depth to Water	ft bgs	36.13	36.27	36.45	36.52	36.70	36.25	36.22	36.48	36.49	36.88	36.85	36.85	36.72	35.40	36.35	37.10	36.20	35.33	36.91	35.92	35.90	35.70	36.71	36.40	35.85	29.10	28.40	25.60	27.45	25.40
Temperature	deg C	10.0	10.0	10.0	9.9	10.1	10.4	10.4	10.6	10.5	10.3	10.4	10.6	10.4	12.1	10.3	10.3	10.1	10.5	10.9	10.6	10.5	10.7	10.8	11.1	13.1	11.7	11.8	11.4	10.1	12.9
pH	SU	6.99	7.01	7.04	6.93	7.00	7.06	7.07	6.28	6.95	7.06	7.03	7.06	6.91	7.17	7.09	7.12	7.14	7.19	7.24	7.23	7.12	7.15	7.14	6.28	7.28	7.16	7.11	7.16	7.24	6.90
Specific Conductance	µS/cm	2001	1910	1910	1926	1912	1767	1836	1885	1890	1913	1936	1922	1993	1890	1772	1628	1672	1805	1814	1878	1882	1896	1880	1808	1754	1785	1831	1966	2082	1905
Oxygen Reduction Potential	mV	-68.0	-36.7	-41.4	-38.1	-48.8	14.1	-13.8	-33.9	-37.8	-29.5	-25.6	-21.3	0.9	-49.2	17.6	-8.6	2.2	-55.8	-41.9	-20.4	-133.6	-73.8	-196.7	-86.9	-10.9	-32.4	-60.3	-117.9	-133.9	-102.0
Lab Analytical Results:																															
Hardness as CaCO3	mg/L	936		1030			982			997			1020	963	1020	1080	939	1090	958	986	957	1040	958	916	962	1020	952	902	1010	1080	1080
pH (Lab)	SU	7.2		7.37			7.17			7.09			6.99	6.92	6.89	7.23	7.06	6.99	6.92	7.03	7.01	7.11	7.12	7.24	7.18	6.95	6.95	7.25	7.16	6.84	7.07
Total Dissolved Solids (Lab)	mg/L	1460		1480			1490			1480			1530	1520	1430	1480	1450	1590	1460	1510	1580	1500	1500	1490	1420	1500	1400	1450	1560	1570	1550
Calcium	mg/L	170		179			171			173			162	165	175	183	157	186	167	167	164	173	166	154	165	174	161	151	173	184	186
Magnesium	mg/L	124		142			135			137			144	134	142	150	133	152	131	138	133	149	132	129	134	143	134	127	141	150	149
Sodium	mg/L	75.3		81.3			75.0			75.2			74.9	73.7	76.0	80.9	73.4	81.4	75	74.6	72.0	77.8	71.9	71.6	72.3	76.3	75.6	69.2	77.1	80.6	80.5
Potassium	mg/L	3.87		3.9			<5.00			3.74			3.74	3.82	<5.00	<5.00	<5.00	4.25	<5.00	<5.00	3.69	3.88	3.59	3.71	3.66	<5.00	3.63	< 5.00	3.46	3.62	3.84
Alkalinity, Total	mg/L	380		367			405			392			350	357	355	268	430	420	395	340	440	425	425	400	310	378	410	437	425	440	455
Alkalinity, Bicarbonate	mg/L	380		367			405			392			425	357	355	268	430	420	395	340	440	425	425	400	310	378	410	437	425	440	455
Alkalinity, Carbonate	mg/L	<10.0		<10.0			<10.0			<10.0			<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	< 10.0	< 10.0	< 10.0	< 10.0	
Alkalinity, Hydroxide	mg/L	<10.0		<10.0			<10.0			<10.0			<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	< 10.0	< 10.0	< 10.0	< 10.0	
Chloride	mg/L	11.9		10.7			10.8			10.9			11.6	10.3	10.7	10.2	10.1	10.4	10.1	10.5	10.3	10.1	10.3	11.2	11.0	11.1	10.8	11.8	11.9	11.5	11.4
Fluoride	mg/L	<0.500		0.332			0.322			0.322			<0.500	0.354	0.330	0.322	0.322	0.300	0.304	0.312	0.260	0.292	<0.200	0.310	0.306	0.340	0.262	< 0.200	0.238	0.282	0.298
Sulfate as SO4	mg/L	732		736			733			844			746	774	803	767	742	757	746	796	751	755	743	759	761	827	709	719	828	842	821
Total Organic Carbon (TOC)	mg/L	3.72		3.57			3.73			3.70			3.45	3.42	3.63	4.01	3.39	3.00	3.42	3.63	3.38	3.50	3.42	3.38	2.12	3.68	3.31	5.57	4.24	5.38	5.12
Nitrate/Nitrite as N	mg/L	<0.020		<0.020			<0.020			<0.020			<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	< 0.020	< 0.020	< 0.020	< 0.020	
Ammonia as N ^	mg/L	NA		NA			NA			NA			0.178	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ortho-Phosphate as P ^	mg/L	NA		NA			NA			NA			<0.0500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	mg/L	<0.050		<0.100			<0.250			<0.100			<0.050	<0.100	<0.250	<0.250	<0.250	<0.150	<0.250	<0.250	<0.100	<0.050	<0.050	<0.100	<0.100	<0.250	<0.250	< 0.250	< 0.100	< 0.150	< 0.100
Arsenic	mg/L	0.0014		0.0015			0.0013			0.0016			0.0013	0.0013	0.0011	<0.0015	<0.0025	0.0016	<0.0025	<0.0025	0.0011	0.0009	0.0014	<0.0025	0.0013	<0.0025	<0.0025	< 0.0025	0.0010	< 0.0020	< 0.0020
Cadmium	mg/L	<0.0001		<0.0002			<0.0001			<0.0001			<0.0002	<0.0002	<0.0002	<0.0003	<0.0005	<0.0001	<0.0025	<0.0025	<0.0010	<0.0005	<0.0005	<0.0025	<0.0010	<0.0025	<0.0025	< 0.0025	< 0.0010	< 0.0010	< 0.0010
Copper	mg/L	0.0003		0.0018			0.0011			0.0008			0.0006	<0.0010	<0.0010	<0.0015	<0.0025	0.0007	<0.0025	<0.0025	0.0018	0.0021	0.0036	<0.0025	0.0030	<0.0025	0.0028	0.0032	0.0018	0.0048	0.0044
Iron	mg/L	1.82		1.95			1.81			2.12			2.00	1.84	1.71	2.16	2.15	2.08	1.92	1.75	1.63	2.05	1.69	1.75	1.57	1.99	0.265	< 0.250	0.251	0.259	0.421
Lead	mg/L	<0.0005		<0.0010			<0.0005			<0.0005			<0.0010	<0.001	<0.0010	<0.0015	<0.0025	<0.0005	<0.0025	<0.0025	<0.0010	<0.0025	<0.0005	<0.0025	<0.0025	<0.0025	<0.0025	< 0.0025	< 0.0010	< 0.0010	< 0.0010
Manganese	mg/L	3.72		4.49			4.01			4.22			4.76	4.86	3.63	4.49	4.42	5.22	4.21	4.39	4.66	4.48	4.58	4.61	4.75	4.69	4.22	4.46	4.40	4.65	4.61
Mercury (dissolved)	mg/L	<0.0002		<0.0002			<0.0002			<0.0002			<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<											

GCC Energy Hydrologic Monitoring Data

MW-8-EAA																															
Year	2018	2019											2020				2021				2022				2023				2024		
Quarter	Q4	Q1			Q2			Q3			Q4		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	
Month	12	1	2	3	4	5	6	7	8	9	10	11	2	5	8	11	2	5	8	11	2	5	8	11	3	6	9	11	3	6	
Sample Date	12/23	1/29	2/19	3/20	4/16	5/29	6/20	7/24	8/13	9/27	10/24	11/6	2/11	5/27	8/25	11/11	2/16	5/24	8/24	11/30	3/23	6/7	9/8	11/28	3/18	6/14	8/8	11/13	3/17	6/19	
Lab Analysis (Y/N)	Y	N	Y	N	N	Y	N	N	Y	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
Field Parameters:																															
Purge Flow Rate	gpm	0.85	1.10	0.50	3.00	0.50	0.75	1.00	1.00	0.75	0.50	1.00	0.25	1.00	0.25	0.13	0.13	0.13	0.13	0.25	0.25	0.25	0.25	0.33	0.11	0.09	0.38	0.15	0.60		
Total Purged	gal	18.0	14.0	15.0	3.0	15.0	17.0	15.3	15.3	18.0	15.3	15.5	15.0	15.2	15.0	16.0	15.0	15.0	16.0	15.0	16.0	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	
Depth to Water	ft bgs	40.00	39.95	40.10	43.45	40.44	40.05	39.94	40.10	40.08	40.25	40.31	40.22	40.40	40.45	34.50	40.83	41.22	41.00	40.98	48.04	40.95	41.00	41.30	41.30	41.50	37.19	37.40	34.90	36.45	31.78
Temperature	deg C	10.3	10.2	10.0	9.9	10.3	10.5	10.6	10.5	10.6	10.3	10.2	11.2	10.5	11.0	11.1	11.0	10.9	11.0	11.2	10.7	10.7	10.8	10.7	9.7	11.0	11.6	12.2	12.3	9.8	11.7
pH	SU	7.12	7.09	7.13	7.17	7.09	7.02	7.17	7.09	7.05	7.03	6.99	6.99	6.99	7.14	7.19	7.19	7.20	7.27	7.31	7.30	7.18	7.23	7.23	6.59	7.20	7.27	7.23	7.07	7.35	6.97
Specific Conductance	µS/cm	1781	1696	1720	1725	1729	1628	1676	1699	172	1739	1774	1739	1758	1760	1675	1716	1570	1642	1671	1746	1750	1763	1763	1793	1665	1766	1742	1761	1955	1849
Oxygen Reduction Potential	mV	-65.0	-52.8	-51.8	-53.0	-59.7	11.0	-29.5	-46.6	-44.8	-33.5	-38.8	-39.2	-18.2	-72.4	1.4	-14.7	-20.2	-63.3	-57.4	-37.2	-156.9	-111.7	-230.9	-23.9	182.6	-81.5	-86.6	-103.6	-175.8	-96.2
Lab Analytical Results:																															
Hardness as CaCO3	mg/L	870		861			864			883			867	861	907	937	810	914	838	859	859	937	867	831	871	940	932	887	901	962	975
pH (Lab)	SU	7.28		7.36			7.13			7.05			7.01	7.11	6.96	7.18	7.1	7.03	6.97	7.06	6.81	7.19	7.16	7.27	7.25	7.05	7.03	7.33	7.43	7.02	7.2
Total Dissolved Solids (Lab)	mg/L	1220		1290			1240			1280			1380	1290	1260	1280	1310	1400	1320	1320	1340	1380	1330	1360	1300	1320	1350	1400	1430	1480	1420
Calcium	mg/L	152		151			148			154			143	149	153	160	134	156	146	146	149	158	150	143	149	163	159	152	156	168	169
Magnesium	mg/L	119		118			120			121			124	119	127	130	115	127	115	120	118	131	119	115	121	130	130	123	125	132	134
Sodium	mg/L	81.7		82.6			77.2			78.6			77.1	77.2	77.7	82.9	74.3	80.9	76.1	75.8	74.9	81.2	75.0	75.0	75.3	80.5	79.8	75.5	77.4	79.4	80.3
Potassium	mg/L	3.80		3.27			3.55			3.18			3.52	3.8	<5.00	<5.00	<5.00	3.63	3.49	<5.00	3.36	3.65	3.35	3.45	3.42	<5.00	3.73	< 5.00	3.24	3.58	3.61
Alkalinity, Total	mg/L	400		435			450			431			445	404	385	288	480	450	445	385	490	460	465	480	430	417	448	417	415	435	475
Alkalinity, Bicarbonate	mg/L	400		435			450			431			445	404	385	288	480	450	445	385	490	460	465	480	430	417	448	417	415	435	475
Alkalinity, Carbonate	mg/L	<10.0		<10.0			<10.0			<10.0			<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	< 10.0	< 10.0	< 10.0	< 10.0
Alkalinity, Hydroxide	mg/L	<10.0		<10.0			<10.0			<10.0			<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	< 10.0	< 10.0	< 10.0	< 10.0
Chloride	mg/L	9.83		10.5			10.3			11.1			11.0	10.2	10.3	10.1	11.3	10.4	10.2	10.3	10.5	10.5	10.6	11.7	11.4	11.6	11.8	12.2	12.2	12.3	11.8
Fluoride	mg/L	0.380		0.370			0.338			0.342			<0.500	0.33	0.346	0.336	0.334	0.292	0.306	0.35	0.272	0.304	0.204	0.332	0.316	0.358	0.284	< 0.200	0.266	0.330	0.312
Sulfate as SO4	mg/L	533		559			606			643			577	602	625	605	582	609	595	615	599	608	597	627	619	686	675	685	748	768	731
Total Organic Carbon (TOC)	mg/L	3.77		3.59			3.77			3.68			3.52	3.49	3.56	3.82	3.54	3.04	3.65	3.71	3.48	3.49	3.56	3.64	1.82	3.63	3.25	5.64	3.64	4.76	4.00
Nitrate/Nitrite as N	mg/L	<0.020		<0.020			<0.020			<0.020			<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.493	<0.020	< 0.020	<0.020	< 0.020	< 0.020	
Ammonia as N ^	mg/L	NA		NA			NA			NA			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ortho-Phosphate as P ^	mg/L	NA		NA			NA			NA			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	mg/L	<0.100		<0.100			<0.050			<0.100			<0.050	<0.100	<0.250	<0.250	<0.250	<0.150	<0.050	<0.250	<0.100	<0.050	<0.050	<0.100	<0.100	<0.250	<0.250	< 0.250	< 0.100	< 0.100	< 0.100
Arsenic	mg/L	0.0020		0.0018			0.0018			0.0021			0.0018	0.0017	0.0017	0.0018	<0.0025	0.0018	0.0018	<0.0025	0.0017	0.0015	0.0019	<0.0025	0.0020	0.0027	<0.0025	< 0.0025	0.0020	< 0.0020	< 0.0020
Cadmium	mg/L	<0.0001		<0.0002			<0.0001			<0.0001			<0.0001	<0.0002	<0.0002	<0.0003	<0.0005	<0.0003	<0.0015	<0.0025	<0.0010	<0.0005	<0.0005	<0.0025	<0.0010	<0.0025	<0.0025	< 0.0025	< 0.0010	< 0.0010	< 0.0010
Copper	mg/L	0.0004		0.0024			0.0023			0.0008			0.0010	0.001	<0.0010	<0.0015	<0.0025	<0.0015	<0.0015	<0.0025	0.0017	0.0021	0.0031	<0.0025	0.0021	<0.0025	0.0084	< 0.0025	0.0020	0.0048	0.003
Iron	mg/L	2.12		2.13			2.42			2.46			2.30	2.28	2.29	2.31	0.762	2.33	2.25	2.2	2.22	2.52	2.22	2.28	2.27	2.43	2.43	2.19	2.24	2.34	2.37
Lead	mg/L	<0.0005		<0.0010			<0.0005			<0.0005			<0.0005	<0.001	<0.0010	<0.0015	<0.0025	<0.0015	<0.0015	<0.0025	<0.001	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	< 0.0025	< 0.0010	< 0.0010	< 0.0010
Manganese	mg/L	3.17		3.52			3.06			3.37			3.39	3.7	3.36	3.54	3.81	3.55	3.5	3.6	3.66	3.77	3.70	3.77	3.87	3.98	3.85	3.91	4.16	3.88	4.26
Mercury (dissolved)	mg/L	<0.0002		<0.0002			<0.0002			<0.0002			<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002									

GCC Energy Hydrologic Monitoring Data

MW-8-MI																															
Year	2018	2019											2020				2021				2022				2023				2024		
Quarter	Q4	Q1			Q2			Q3			Q4		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	
Month	12	1	2	3	4	5	6	7	8	9	10	11	2	5	8	11	2	5	8	11	2	5	8	11	3	6	9	11	3	6	
Sample Date	12/23	1/29	2/19	3/20	4/16	5/29	6/20	7/24	8/13	9/27	10/24	11/6	2/11	5/27	8/25	11/11	2/16	5/24	8/24	11/30	3/23	6/7	9/8	11/28	3/18	6/14	8/8	11/13	3/17	6/19	
Lab Analysis (Y/N)	Y	N	Y	N	N	Y	N	N	Y	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
Field Parameters:																															
Purge Flow Rate	gpm	1.10	1.00	0.50	3.00	0.50	0.50	0.25	0.50	0.75	0.50	1.00	0.25	0.25	0.13	0.10	0.25	0.25	0.13	0.25	0.25	0.25	0.13	0.15	0.50	0.12	0.13	0.23	0.19	0.11	0.18
Total Purged	gal	27.5	18.0	1.0	3.0	1.5	2.5	2.5	2.3	3.0	2.0	2.5	1.0	1.0	1.0	2.0	2.0	3.0	1.0	1.0	1.0	1.0	0.8	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6
Depth to Water	ft bgs	45.75	43.48	43.50	44.30	44.47	44.10	44.24	44.45	44.59	44.90	45.12	45.10	45.20	45.42	45.84	46.24	46.38	46.54	47.27	46.84	47.69	48.00	48.00	48.25	47.75	44.65	44.52	42.85	43.51	39.90
Temperature	deg C	10.8	10.8	10.6	11.2	10.4	11.1	11.4	11.0	11.4	10.9	10.3	11.4	10.2	11.3	13.1	11.3	10.0	11.6	11.9	11.1	10.9	12.5	14.3	9.9	11.7	11.5	11.9	12.1	10.3	12.3
pH	SU	7.57	7.50	7.48	7.47	7.34	7.31	7.48	7.42	7.38	7.30	7.23	7.15	7.08	7.44	7.44	7.43	7.47	7.59	7.55	7.56	7.41	7.54	7.59	6.92	7.52	7.54	7.51	7.52	7.66	7.33
Specific Conductance	µS/cm	1786	1667	1651	1658	1643	1595	1639	1645	1658	1637	1689	1642	1651	1659	1598	1628	1468	1616	1554	1629	1596	1575	1505	1631	1632	1607	1538	1544	1642	1526
Oxygen Reduction Potential	mV	-84.4	-177.1	-122.1	-113.3	-87.2	-54.4	-97.1	-116.4	-119.4	-88.4	-82.0	-59.3	-136.6	-184.9	-107.0	-112.2	-72.0	-131.9	-123.1	-115.9	-195.3	-150.6	-262.2	-172.4	-79.7	-134.6	-148.3	-178.2	-22.8	-160.5
Lab Analytical Results:																															
Hardness as CaCO3	mg/L	167		249			273			253			267	254	309	355	339	376	288	377	317	406	378	374	390	405	388	363	361	366	388
pH (Lab)	SU	7.73		7.54			7.24			7.46			7.44	7.53	7.25	7.34	7.27	7.33	7.36	7.31	7.06	7.36	7.38	7.70	7.45	7.30	7.36	7.67	7.66	7.11	7.47
Total Dissolved Solids (Lab)	mg/L	1050		1030			1100			1110			1050	1060	1040	1010	1040	1060	1040	1000	1100	1050	1040	1050	990	1050	995	1060	1050	995	985
Calcium	mg/L	34.0		48.5			52.4			49.7			51.3	48.7	58.5	65.9	62.6	69.7	54	70.3	59.8	75.5	71.2	69.2	72.3	76.0	72.1	67.4	66.3	68.4	72.9
Magnesium	mg/L	19.9		31.0			34.5			31.4			33.8	32.1	39.6	46.2	44.4	49.1	37.2	48.9	40.8	52.7	48.7	48.8	50.8	52.3	50.4	47.1	47.5	47.4	50.1
Sodium	mg/L	344		312			289			289			275	269	272	260	232	237	256	229	238	226	220	213	210	230	236	216	215	219	221
Potassium	mg/L	4.47		5.25			<5.00			4.55			5.07	4.71	5.00	5.56	5.22	5.88	5.05	5.69	5.14	5.98	5.47	5.59	5.63	5.44	6.18	5.09	5.12	5.38	5.65
Alkalinity, Total	mg/L	500		565			560			573			585	543	545	448	590	590	575	570	605	590	590	500	540	550	568	553	560	555	595
Alkalinity, Bicarbonate	mg/L	500		565			560			573			585	543	545	448	590	590	575	570	605	590	590	500	540	550	568	553	560	555	595
Alkalinity, Carbonate	mg/L	<10.0		<10.0			<10.0			<10.0			<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	
Alkalinity, Hydroxide	mg/L	<10.0		<10.0			<10.0			<10.0			<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	
Chloride	mg/L	12.7		10.0			9.33			9.06			9.66	8.19	8.23	8.12	7.91	7.96	8.07	7.85	7.91	7.70	8.36	8.88	8.60	8.56	8.39	8.80	8.35	8.67	8.73
Fluoride	mg/L	<0.500		<0.200			<0.200			<0.200			<0.500	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	0.112	< 0.200	< 0.200	< 0.200	< 0.200
Sulfate as SO4	mg/L	347		353			343			366			317	314	316	335	319	326	314	324	312	325	322	352	351	335	327	323	320	329	329
Total Organic Carbon (TOC)	mg/L	2.73		2.83			2.81			2.74			2.65	2.6	2.94	2.87	2.76	2.6	2.74	2.97	2.66	2.77	2.77	2.96	1.66	2.75	2.62	4.25	2.76	3.44	2.7
Nitrate/Nitrite as N	mg/L	<0.020		<0.020			<0.020			<0.020			<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	< 0.020	< 0.020	< 0.020	< 0.020	
Ammonia as N ^	mg/L	NA		NA			NA			NA			1.31	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ortho-Phosphate as P ^	mg/L	NA		NA			NA			NA			<0.0500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	mg/L	<0.050		<0.100			<0.250			<0.100			<0.050	<0.100	<0.250	<0.250	<0.250	<0.150	<0.050	<0.250	<0.100	<0.050	<0.050	<0.100	<0.100	<0.250	<0.250	< 0.250	< 0.100	< 0.100	< 0.100
Arsenic	mg/L	0.0008		<0.0010			0.0006			0.0005			0.0005	<0.0010	<0.0010	<0.0015	<0.0025	<0.0015	<0.0015	<0.0025	<0.0010	<0.0005	0.0006	<0.0025	0.0010	<0.0025	<0.0025	< 0.0025	< 0.0010	< 0.0020	< 0.0020
Cadmium	mg/L	<0.0001		<0.0002			<0.0001			<0.0001			<0.0001	<0.0002	<0.0002	<0.0003	<0.0005	<0.0003	<0.0015	<0.0025	<0.0010	<0.0005	<0.0005	<0.0025	<0.0010	<0.0025	<0.0025	< 0.0025	< 0.0010	< 0.0010	< 0.0010
Copper	mg/L	0.0031		0.0066			0.0036			0.0035			0.0037	0.0027	<0.0010	<0.0015	<0.0025	0.0015	0.0046	0.0047	0.0054	0.0055	0.0087	0.0038	0.0044	0.0025	0.0104	0.0031	0.0044	0.0088	0.0083
Iron	mg/L	0.137		0.162			<0.250			0.129			0.130	0.108	<0.250	<0.250	<0.250	<0.150	0.113	<0.250	0.168	0.113	0.090	<0.100	<0.100	<0.250	0.082	< 0.250	< 0.100	0.135	0.127
Lead	mg/L	<0.0005		<0.0010			<0.0005			<0.0005			<0.0005	<0.0010	<0.0025	<0.0015	<0.0025	<0.0015	<0.0015	<0.0025	<0.0010	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	< 0.0025	< 0.0010	< 0.0010	< 0.0010
Manganese	mg/L	0.0495		0.0383			0.0327			0.0351			0.0377	0.0391	0.0393	0.0551	0.0546	0.0579	0.0412	0.0544	0.0443	0.0603	0.0553	0.0597	0.0693	0.0569	0.0560	0.0562	0.0595	0.0632	
Mercury (dissolved)	mg/L	<0.0002		<0.0002			<0.0002			</																					

GCC Energy Hydrologic Monitoring Data

MW-8-LM																															
Year	2018	2019											2020				2021				2022				2023				2024		
Quarter	Q4	Q1			Q2			Q3			Q4		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	
Month	12	1	2	3	4	5	6	7	8	9	10	11	2	5	8	11	2	5	8	11	2	5	8	11	3	6	9	11	3	6	
Sample Date	12/28	1/29	2/19	3/21	4/16	5/29	6/18	7/24	8/13	9/27	10/24	11/6	2/11	5/27	8/25	11/11	2/16	5/24	8/24	11/30	3/23	6/7	9/8	11/28	3/18	6/14	8/8	11/13	3/17	6/19	
Lab Analysis (Y/N)	Y	N	Y	N	N	Y	N	N	Y	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
Purge Flow Rate	gpm	NM	1.00	0.25	1.00	0.50	0.10	0.25	0.25	0.50	0.25	0.12	0.25	0.25	0.13	0.13	0.13	0.13	0.13	0.25	0.25	0.15	NM	0.14	0.03	0.16	0.20	0.15	0.20		
Total Purged	gal	30	4.0	1.5	1.0	2.0	1.3	6.8	2.0	2.0	1.0	1.0	1.5	1.0	1.0	2.0	1.0	2.0	1.5	1.0	1.0	1.0	1.0	NM	0.7	0.7	0.7	0.7	0.7	0.7	
Depth to Water	ft bgs	136.39	130.52	134.30	144.03	140.03	137.48	142.23	144.15	138.06	137.50	137.60	137.34	139.15	129.70	127.90	125.75	126.72	126.13	125.25	123.55	124.10	123.75	126.81	NM	126.10	125.80	126.12	125.92	124.95	125.05
Temperature	deg C	4.1	13.9	13.2	8.7	13.6	13.9	12.8	13.7	13.4	13.0	11.7	13.3	11.4	13.4	13.6	8.8	12.1	12.8	13.5	12.5	12.3	14.1	13.4	11.9	12.7	13.0	13.1	13.2	11.5	12.8
pH	SU	8.37	8.70	8.71	8.41	8.70	8.50	8.66	8.64	8.58	8.44	8.44	8.47	7.98	8.76	8.83	8.81	8.82	8.90	8.90	8.91	8.79	8.84	8.82	8.29	8.88	8.88	8.83	8.84	8.94	8.66
Specific Conductance	µS/cm	2306	1274	1265	1310	1262	1234	1264	1226	1269	1252	1299	1255	1294	1282	1055	1117	1132	1121	1196	1262	1260	1232	1255	1276	1233	1252	1241	1224	1305	1229
Oxygen Reduction Potential	mV	37.5	-114.3	112.8	77.0	-36.2	33.2	-63.9	-93.5	-103.0	-115.9	-94.4	-47.4	-106.6	-204.5	-106.9	-93.6	-87.8	-164.1	-106.1	-99.3	-241.3	-149.4	-247.4	-66.9	-58.6	-137.0	-147.9	-210.0	-26.4	-149.5
Lab Analytical Results:																															
Hardness as CaCO3	mg/L	45.0		7.29			16.9			6.67			6.38	6.79	7.76	7.53	6.35	6.93	7.23	4.65	7.11	7.29	6.61	6.43	6.29	4.01	6.22	4.01	7.08	6.62	6.92
pH (Lab)	SU	8.57		8.63			8.02			8.56			8.52	8.55	8.41	8.45	8.48	8.54	8.57	8.48	8.31	8.61	8.63	8.99	8.59	8.47	8.51	8.71	8.84	8.42	8.66
Total Dissolved Solids (Lab)	mg/L	1420		770			780			785			780	840	730	740	700	795	720	740	760	740	795	755	685	765	745	805	755	755	760
Calcium	mg/L	10.8		1.93			3.84			1.78			1.68	1.77	2.09	2.05	1.71	1.87	1.92	1.86	1.88	1.96	1.77	1.70	1.65	1.61	1.71	1.61	1.87	1.77	1.84
Magnesium	mg/L	4.39		0.600			1.77			0.541			0.528	0.574	0.620	0.587	0.502	0.550	0.592	<0.500	0.587	0.580	0.530	0.532	0.524	<0.500	0.473	< 0.500	0.583	0.534	0.563
Sodium	mg/L	382		341			317			306			305	309	315	337	304	319	315	308	291	316	298	298	301	287	315	289	299	304	311
Potassium	mg/L	45.7		3.49			<5.00			2.27			2.18	2.06	<5.00	<5.00	<5.00	<3.00	2.24	<5.00	2.12	2.31	2.06	<2.00	2.12	<5.00	1.85	< 5.00	2.07	2.00	2.13
Alkalinity, Total	mg/L	615		720			745			731			745	685	630	675	780	730	755	750	770	780	765	760	750	714	732	714	700	690	760
Alkalinity, Bicarbonate	mg/L	535		610			645			645			685	595	530	585	680	630	645	650	620	640	655	580	510	666	732	646	620	640	640
Alkalinity, Carbonate	mg/L	80.0		110			100			86.0			60.0	90	100	90	100	100	110	100	150	140	110	180	240	48.0	<10.0	68.0	80.0	50.0	120
Alkalinity, Hydroxide	mg/L	<10.0		<10.0			<10.0			<10.0			<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	< 10.0	< 10.0	< 10.0	< 10.0
Chloride	mg/L	175		5.11			6.80			2.63			2.48	3.04	3.01	2.98	2.47	2.5	2.48	2.55	2.47	2.47	2.49	2.64	2.65	2.66	2.76	2.67	2.75	2.66	2.64
Fluoride	mg/L	2.06		3.91			3.95			3.97			3.88	3.61	3.63	3.53	3.66	3.58	3.48	3.67	3.40	3.44	3.25	3.79	3.73	3.84	3.65	3.15	3.42	3.93	3.94
Sulfate as SO4	mg/L	190		3.79			9.58			1.02			<1.00	<2.00	<2.00	<2.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	0.886	< 2.00	< 2.00	< 2.00	< 2.00
Total Organic Carbon (TOC)	mg/L	2.80		1.80			3.33			1.94			1.69	1.69	1.92	1.82	1.66	1.2	1.71	1.79	1.60	1.70	1.72	1.77	1.13	1.73	1.43	1.89	1.70	2.43	1.7
Nitrate/Nitrite as N	mg/L	<0.020		<0.020			<0.020			<0.020			<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	< 0.020	< 0.020	< 0.020	< 0.020
Ammonia as N ^	mg/L	NA		NA			NA			NA			0.282	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ortho-Phosphate as P ^	mg/L	NA		NA			NA			NA			<0.0500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	mg/L	<0.050		<0.100			<0.250			<0.050			<0.050	<0.100	<0.250	<0.250	<0.250	<0.150	<0.050	<0.250	<0.100	<0.050	<0.050	<0.100	<0.050	<0.250	<0.250	< 0.250	< 0.050	< 0.100	< 0.100
Arsenic	mg/L	0.0106		<0.0010			0.0006			0.0007			0.0006	<0.0005	<0.0010	<0.0015	<0.0025	<0.0015	<0.0015	<0.0025	<0.0010	0.0008	0.0008	<0.0025	<0.0005	<0.0025	<0.0015	< 0.0025	< 0.0010	< 0.0020	< 0.0020
Cadmium	mg/L	<0.0001		<0.0002			<0.0001			<0.0001			<0.0001	<0.0001	<0.0002	<0.0003	<0.0005	<0.0003	<0.0015	<0.0025	<0.0010	<0.0005	<0.0005	<0.0025	<0.0005	<0.0025	<0.0015	< 0.0025	< 0.0010	< 0.0010	< 0.0010
Copper	mg/L	0.0337		0.0077			0.0047			0.0041			0.0051	0.0033	0.0012	0.0017	<0.0025	0.0025	0.0057	0.0068	0.0065	0.0075	0.0167	0.0052	0.0079	0.0043	0.0155	0.0040	0.0068	0.0128	0.0132
Iron	mg/L	<0.050		<0.100			<0.250			<0.050			<0.050	<0.100	<0.250	<0.250	<0.250	<0.150	<0.050	<0.250	<0.100	<0.050	<0.050	<0.100	<0.050	<0.250	<0.250	< 0.250	< 0.050	< 0.100	< 0.100
Lead	mg/L	<0.0005		<0.0010			<0.0005			<0.0005			<0.0010	<0.0005	<0.0010	<0.0015	<0.0025	<0.0015	<0.0015	<0.0025	<0.0010	<0.0025	<0.0025	<0.0025	<0.0005	<0.0025	0.0002	< 0.0025	< 0.0010	< 0.0010	< 0.0010
Manganese	mg/L	0.0258		0.0038			0.0150			0.0020			0.0026	0.0025	0.0029	0.0026	0.0028	0.0024	0.0021	0.0025	0.0023	0.0022	0.0027	<0.0025	0.0027	0.0028	0.0027	0.0028	0.0027	0.0034	0.0031
Mercury (dissolved)	mg/L	<0.0002		<0.0																											

GCC Energy Hydrologic Monitoring Data

MW-8-PL																															
Year	2018	2019											2020				2021				2022				2023				2024		
Quarter	Q4	Q1			Q2			Q3			Q4		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	
Month	12	1	2	3	4	5	6	7	8	9	10	11	2	5	8	11	2	5	8	11	2	5	8	11	3	6	9	11	3	6	
Sample Date	12/27	1/29	2/19	3/20	4/16	5/29	6/20	7/24	8/13	9/27	10/24	11/6	2/11	5/27	8/25	11/11	2/16	5/24	8/24	11/30	3/23	6/7	9/8	11/28	3/18	6/14	8/8	11/13	3/17	6/19	
Lab Analysis (Y/N)	Y	N	Y	N	N	Y	N	N	Y	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
Field Parameters:																															
Purge Flow Rate	gpm	0.25	1.00	0.50	3.00	0.50	0.25	0.50	1.00	0.50	0.75	0.25	0.25	0.25	0.25	0.25	0.75	0.25	0.25	0.25	0.25	0.25	0.13	1.00	0.22	0.18	0.13	0.16	0.22	0.13	
Total Purged	gal	20.0	5.0	2.0	3.0	2.0	3.0	2.5	2.3	2.5	2.0	2.5	1.3	2.0	2.0	2.3	2.0	2.0	2.0	2.0	2.0	2.0	1.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Depth to Water	ft bgs	125.97	126.29	126.40	127.10	126.98	126.70	126.82	127.25	127.38	127.42	127.48	127.59	127.32	127.34	128.00	127.31	127.50	127.83	127.89	127.90	128.30	128.40	128.53	128.75	128.10	128.05	128.48	128.50	128.25	128.19
Temperature	deg C	10.3	14.2	13.4	12.9	13.2	14.2	14.8	14.7	14.9	14.0	13.2	14.9	13.8	14.8	14.9	14.1	12.9	14.6	14.8	13.4	14.1	14.1	14.3	12.8	13.2	14.2	13.4	13.3	12.2	13.1
pH	SU	7.50	7.30	7.49	7.30	7.29	7.31	7.57	7.56	7.52	7.45	7.47	7.52	7.55	7.47	7.52	7.52	7.53	7.58	7.55	7.57	7.43	7.49	7.44	7.67	7.61	7.56	7.53	7.57	7.69	7.33
Specific Conductance	µS/cm	1690	1531	1571	1558	1554	1411	1326	1165	1083	947	940	900	862	844	792	827	760	813	816	836	817	826	822	848	853	825	814	815	854	813
Oxygen Reduction Potential	mV	30.2	-116.5	97.9	-108.7	-110.6	34.2	-57.6	-74.0	-79.5	-51.3	-52.5	-30.8	-59.9	-101.9	-38.0	-37.3	-11.5	-76.6	-64.4	-53.5	-161.9	-94.6	-215.9	-104.0	-36.3	-87.6	-113.8	-140.3	-210.9	-141.2
Lab Analytical Results:																															
Hardness as CaCO3	mg/L	617		644			596			411			294	278	298	292	268	281	283	280	272	292	276	275	274	303	282	274	269	279	282
pH (Lab)	SU	7.28		7.40			7.26			7.22			7.39	7.47	7.19	7.16	7.41	7.36	7.41	7.29	7.16	7.42	7.47	7.88	7.39	7.33	7.36	7.51	7.70	7.26	7.52
Total Dissolved Solids (Lab)	mg/L	1150		1090			995			705			620	500	490	525	465	525	505	475	465	485	505	500	430	500	465	540	505	460	490
Calcium	mg/L	112		120			105			73.1			52.1	49.3	53.8	53.3	49.1	52.2	53.3	53	51.1	55.7	53.1	52.4	52.0	57.9	53.3	52.4	51.4	53.5	55.1
Magnesium	mg/L	82.1		83.8			81.4			55.4			39.7	37.6	39.7	38.5	35.4	36.6	36.5	35.9	35.0	37.1	34.9	35.1	34.9	38.4	36.1	34.8	34.1	35.4	35.2
Sodium	mg/L	106		124			102			91.7			83.3	78.5	80.4	81.6	77.2	78.6	79.7	77.8	73.7	80.8	75.4	76.3	75.0	81.7	77.4	75.3	75.1	76.0	78.2
Potassium	mg/L	5.14		5.62			<5.00			2.80			2.35	2.32	2.11	<2.00	<2.00	1.78	1.73	<2.00	1.54	1.71	1.48	1.53	1.55	<2.00	1.59	< 2.00	1.46	1.54	< 2.00
Alkalinity, Total	mg/L	370		415			435			393			390	339	340	315	410	370	385	360	385	362	380	356	410	350	388	350	335	370	375
Alkalinity, Bicarbonate	mg/L	370		415			435			393			390	339	340	315	410	370	385	360	385	362	380	340	410	338	388	350	335	370	375
Alkalinity, Carbonate	mg/L	<10.0		<10.0			<10.0			<10.0			<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	16.0	<10.0	12.0	<10.0	< 10.0	< 10.0	< 10.0	
Alkalinity, Hydroxide	mg/L	<10.0		<10.0			<10.0			<10.0			<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	< 10.0	< 10.0	< 10.0	
Chloride	mg/L	18.8		18.5			9.03			5.61			5.66	3.51	3.38	3.33	3.32	3.39	3.30	3.33	3.38	3.33	3.34	3.66	3.51	3.70	3.61	3.67	3.58	3.56	3.56
Fluoride	mg/L	0.505		0.474			0.290			0.291			<0.500	0.258	0.240	0.233	0.224	0.219	0.200	0.222	0.196	0.195	0.159	0.198	0.187	0.218	0.175	0.126	0.159	0.206	0.201
Sulfate as SO4	mg/L	478		471			390			232			127	109	103	99.2	99	101	96.3	102	98.4	100	94.7	106	107	107	106	104	104	106	107
Total Organic Carbon (TOC)	mg/L	4.17		4.02			2.92			2.21			1.75	1.63	1.63	1.61	1.44	0.928	1.42	1.54	1.40	1.54	1.36	1.60	0.774	1.44	1.15	1.59	< 1.00	1.45	1.46
Nitrate/Nitrite as N	mg/L	<0.020		<0.020			<0.020			<0.020			<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.052	<0.020	<0.020	<0.020	<0.020	<0.020	< 0.020	< 0.020	< 0.020	
Ammonia as N ^	mg/L	NA		NA			NA			NA			0.199	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ortho-Phosphate as P ^	mg/L	NA		NA			NA			NA			<0.0500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	mg/L	<0.050		<0.100			<0.250			<0.050			<0.050	<0.050	<0.100	<0.100	<0.100	<0.050	<0.050	<0.100	<0.050	<0.050	<0.050	<0.050	<0.100	<0.050	< 0.100	< 0.050	< 0.050	< 0.100	
Arsenic	mg/L	0.0074		0.0124			0.0190			0.0156			0.0104	0.0073	0.0075	0.0064	0.0058	0.0074	0.0055	0.0017	0.0051	0.0046	0.0047	0.0042	0.0037	0.0033	0.0036	0.0029	0.0030	0.0029	0.0029
Cadmium	mg/L	<0.0001		<0.0002			<0.0001			<0.0001			<0.0001	<0.0002	<0.0001	<0.0002	<0.0002	<0.0001	<0.0010	<0.0010	<0.0005	<0.0005	<0.0005	<0.0010	<0.0005	<0.0025	<0.0005	< 0.0010	< 0.0005	< 0.0005	
Copper	mg/L	0.0016		0.0025			0.0017			0.0011			0.0004	0.001	<0.0025	<0.001	0.0014	0.0005	0.0013	<0.0010	0.0015	0.0023	0.0040	0.0014	0.0015	0.0028	0.0027	0.0020	0.0026	0.0030	0.0038
Iron	mg/L	<0.050		0.352			<0.250			0.129			0.075	0.054	<0.100	<0.100	<0.100	<0.050	<0.050	<0.100	0.070	0.079	<0.050	0.063	0.057	<0.100	0.062	< 0.100	0.051	0.066	< 0.100
Lead	mg/L	<0.0005		<0.0010			<0.0005			<0.0005			<0.0005	<0.0005	<0.0005	<0.0010	<0.0010	<0.0005	<0.0010	<0.0010	<0.0005	<0.0005	<0.0025	<0.0010	<0.0025	<0.0025	<0.0005	< 0.0010	< 0.0005	< 0.0005	
Manganese	mg/L	1.31		1.22			0.697			0.505			0.313	0.303	0.307	0.259	0.219	0.196	0.175	0.0772	0.161	0.163	0.150	0.145	0.134	0.122	0.111	0.120	0.105	0.0976	0.111
Mercury (dissolved)	mg/L	<0.0002		<0.0002			<0.0002			<0.0002			<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002											



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

01 July 2024

Michael Dickson
GCC Energy, LLC
6473 CR 120
Hesperus, CO 81326
RE: [none]

Enclosed are the results of analyses for samples received by the laboratory on 06/20/24 08:05. 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: TX-C24-00019

Our affiliate laboratory, Cardinal Laboratories, is also NELAP accredited through the Texas Commission on Environmental Quality for a variety of organic constituents in drinking water, non-potable water and solid matrices. Cardinal is also accredited for regulated VOCs, TTHM, and HAA-5 in drinking water through the Colorado Department of Public Health and Environment and EPA region 8. TNI Certificate Number: TX-C24-00112

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/01/24 16:22

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW-1-A	2406241-01	Water	06/19/24 11:24	06/20/24 08:05	

Green Analytical Laboratories

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

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/01/24 16:22

MW-1-A

2406241-01 (Ground Water)

Sampled Date: 06/19/24 11:24

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

Alkalinity, Total as CaCO ₃ *	385	10.0	8.00	mg/L	5	06/27/24 11:30	2320 B		HIC
Alkalinity, Hydroxide as CaCO ₃ *	<10.0	10.0	8.00	mg/L	5	06/27/24 11:30	2320 B		HIC
Alkalinity, Carbonate as CaCO ₃ *	<10.0	10.0	8.00	mg/L	5	06/27/24 11:30	2320 B		HIC
Alkalinity, Bicarbonate as CaCO ₃ *	385	10.0	8.00	mg/L	5	06/27/24 11:30	2320 B		HIC
Cation/Anion Balance	1.30	-100	-100	%	1	07/01/24 15:33	Calculation		JDA
Chloride*	2.59	2.00	0.111	mg/L	2	06/27/24 13:37	EPA300.0		AWG
Fluoride*	0.248	0.200	0.0194	mg/L	2	06/27/24 13:37	EPA300.0		AWG
Nitrate/Nitrite as N*	<0.020	0.020	0.013	mg/L as N	1	06/27/24 12:46	EPA353.2		CAI
pH*	7.24			pH Units	1	06/20/24 16:15	EPA150.1		HIC
pH Temperature, degrees C	19.0			pH Units	1	06/20/24 16:15	EPA150.1		HIC
Sulfate*	552	5.00	0.620	mg/L	5	06/27/24 13:57	EPA300.0		AWG
Total Dissolved Solids*	1110	20.0		mg/L	1	06/26/24 13:23	EPA160.1	B3	HIC
Total Organic Carbon*	1.53	0.500	0.290	mg/L	1	06/28/24 14:16	5310C		AES

Dissolved Metals by ICP

Aluminum*	<0.100	0.100	0.044	mg/L	2	06/28/24 10:29	EPA200.7		AWG
Calcium*	33.0	0.200	0.036	mg/L	2	06/28/24 10:29	EPA200.7		AWG
Hardness as CaCO ₃	171	1.32	0.339	mg/L	2	06/28/24 10:29	2340 B		AWG
Iron*	0.412	0.100	0.040	mg/L	2	06/28/24 10:29	EPA200.7		AWG
Magnesium*	21.5	0.200	0.061	mg/L	2	06/28/24 10:29	EPA200.7		AWG
Potassium*	2.22	2.00	0.150	mg/L	2	06/28/24 10:29	EPA200.7		AWG
Silica (SiO ₂)	10.8	2.14	0.199	mg/L	2	06/28/24 10:29	Calculation		AWG
Silicon	5.05	1.00	0.093	mg/L	2	06/28/24 10:29	EPA200.7		AWG
Sodium*	358	2.00	0.460	mg/L	2	06/28/24 10:29	EPA200.7		AWG

Dissolved Metals by ICPMS

Arsenic*	<0.0020	0.0020	0.0012	mg/L	2	06/26/24 12:21	EPA200.8		JDA
Cadmium*	<0.0010	0.0010	0.0001	mg/L	2	06/26/24 12:21	EPA200.8		JDA
Copper*	0.0149	0.0020	0.0002	mg/L	2	06/26/24 12:21	EPA200.8		JDA
Lead*	<0.0010	0.0010	0.0002	mg/L	2	06/26/24 12:21	EPA200.8		JDA
Manganese*	0.0306	0.0010	0.0004	mg/L	2	06/26/24 12:21	EPA200.8		JDA
Molybdenum*	<0.0010	0.0010	0.0001	mg/L	2	06/26/24 12:21	EPA200.8		JDA
Selenium*	<0.0020	0.0020	0.0005	mg/L	2	06/26/24 12:21	EPA200.8		JDA

Green Analytical Laboratories

Veronica J Wells

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/01/24 16:22

MW-1-A

2406241-01 (Ground Water)

Sampled Date: 06/19/24 11:24

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Dissolved Metals by ICPMS

Uranium	<0.0010	0.0010	0.00008	mg/L	2	06/26/24 12:21	EPA200.8		JDA
Zinc*	<0.0040	0.0040	0.0012	mg/L	2	06/26/24 12:21	EPA200.8		JDA

Dissolved Mercury by CVAFS

Mercury	<100	100	19.6	ng/L	1	07/01/24 11:06	EPA245.7		CAI
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Green Analytical Laboratories

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

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/01/24 16:22

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 B241748 - General Prep - Wet Chem

Reference (B241748-SRM1)

Prepared & Analyzed: 06/20/24

pH	7.00		pH Units	7.00		100	98.57-101.42			
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Batch B241787 - General Prep - Wet Chem

Blank (B241787-BLK1)

Prepared: 06/25/24 Analyzed: 06/27/24

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 (B241787-BS1)

Prepared: 06/25/24 Analyzed: 06/27/24

Alkalinity, Total as CaCO ₃	103	10.0	mg/L	100		103	85-115			
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LCS Dup (B241787-BSD1)

Prepared: 06/25/24 Analyzed: 06/27/24

Alkalinity, Total as CaCO ₃	106	10.0	mg/L	100		106	85-115	2.87	20	
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Reference (B241787-SRM1)

Prepared: 06/25/24 Analyzed: 06/27/24

Alkalinity, Total as CaCO ₃	104	10.0	mg/L	100		104	85-115			
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Batch B241805 - General Prep - Wet Chem

Blank (B241805-BLK1)

Prepared & Analyzed: 06/26/24

Total Dissolved Solids	ND	10.0	mg/L							B3
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Reference (B241805-SRM1)

Prepared & Analyzed: 06/26/24

Total Dissolved Solids	415	10.0	mg/L	400		104	85-115			B3
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Batch B241815 - IC- Ion Chromatograph

Blank (B241815-BLK1)

Prepared & Analyzed: 06/27/24

Chloride	ND	1.00	mg/L							
Fluoride	ND	0.100	mg/L							
Sulfate	ND	1.00	mg/L							

LCS (B241815-BS1)

Prepared & Analyzed: 06/27/24

Chloride	25.0	1.00	mg/L	25.0		100	90-110			
Fluoride	2.57	0.100	mg/L	2.50		103	90-110			
Sulfate	24.7	1.00	mg/L	25.0		98.7	90-110			

LCS Dup (B241815-BSD1)

Prepared & Analyzed: 06/27/24

Green Analytical Laboratories

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/01/24 16:22

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 B241815 - IC- Ion Chromatograph (Continued)

LCS Dup (B241815-BSD1) (Continued)

Prepared & Analyzed: 06/27/24

Chloride	25.0	1.00	mg/L	25.0		99.8	90-110	0.316	20	
Fluoride	2.56	0.100	mg/L	2.50		102	90-110	0.234	20	
Sulfate	24.6	1.00	mg/L	25.0		98.5	90-110	0.247	20	

Batch B241818 - Lachat

Blank (B241818-BLK1)

Prepared & Analyzed: 06/27/24

Nitrate/Nitrite as N	ND	0.020	mg/L as N							
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LCS (B241818-BS1)

Prepared & Analyzed: 06/27/24

Nitrate/Nitrite as N	0.910	0.020	mg/L as N	1.00		91.0	90-110			
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LCS Dup (B241818-BSD1)

Prepared & Analyzed: 06/27/24

Nitrate/Nitrite as N	0.918	0.020	mg/L as N	1.00		91.8	90-110	0.864	20	
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Batch B241838 - General Prep - Wet Chem

Blank (B241838-BLK1)

Prepared & Analyzed: 06/28/24

Total Organic Carbon	ND	0.500	mg/L							
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LCS (B241838-BS1)

Prepared & Analyzed: 06/28/24

Total Organic Carbon	9.77	0.500	mg/L	10.0		97.7	85-115			
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LCS Dup (B241838-BSD1)

Prepared & Analyzed: 06/28/24

Total Organic Carbon	9.57	0.500	mg/L	10.0		95.7	85-115	2.01	20	
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Green Analytical Laboratories

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/01/24 16:22

Dissolved Metals by ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B241801 - Dissolved ICP

Blank (B241801-BLK1)

Prepared: 06/26/24 Analyzed: 06/28/24

Aluminum	ND	0.050	mg/L
Calcium	ND	0.100	mg/L
Iron	ND	0.050	mg/L
Magnesium	ND	0.100	mg/L
Potassium	ND	1.00	mg/L
Silicon	ND	0.500	mg/L
Sodium	ND	1.00	mg/L

LCS (B241801-BS1)

Prepared: 06/26/24 Analyzed: 06/28/24

Aluminum	4.04	0.050	mg/L	4.00	101	85-115
Calcium	4.11	0.100	mg/L	4.00	103	85-115
Iron	4.20	0.050	mg/L	4.00	105	85-115
Magnesium	20.4	0.100	mg/L	20.0	102	85-115
Potassium	8.15	1.00	mg/L	8.00	102	85-115
Silicon	4.06	0.500	mg/L	4.00	101	85-115
Sodium	3.30	1.00	mg/L	3.24	102	85-115

LCS Dup (B241801-BSD1)

Prepared: 06/26/24 Analyzed: 06/28/24

Aluminum	4.02	0.050	mg/L	4.00	101	85-115	0.301	20
Calcium	4.08	0.100	mg/L	4.00	102	85-115	0.808	20
Iron	4.15	0.050	mg/L	4.00	104	85-115	1.18	20
Magnesium	20.4	0.100	mg/L	20.0	102	85-115	0.141	20
Potassium	8.15	1.00	mg/L	8.00	102	85-115	0.0421	20
Silicon	4.00	0.500	mg/L	4.00	100	85-115	1.40	20
Sodium	3.28	1.00	mg/L	3.24	101	85-115	0.704	20

Green Analytical Laboratories

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/01/24 16:22

Dissolved Metals by ICPMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B241772 - Dissolved ICPMS

Blank (B241772-BLK1)

Prepared: 06/24/24 Analyzed: 06/26/24

Arsenic	ND	0.0010	mg/L
Cadmium	ND	0.0005	mg/L
Copper	ND	0.0010	mg/L
Lead	ND	0.0005	mg/L
Manganese	ND	0.0005	mg/L
Molybdenum	ND	0.0005	mg/L
Selenium	ND	0.0010	mg/L
Uranium	ND	0.0005	mg/L
Zinc	ND	0.0020	mg/L

LCS (B241772-BS1)

Prepared: 06/24/24 Analyzed: 06/26/24

Arsenic	0.0571	0.0010	mg/L	0.0500	114	85-115
Cadmium	0.0567	0.0005	mg/L	0.0500	113	85-115
Copper	0.0566	0.0010	mg/L	0.0500	113	85-115
Lead	0.0562	0.0005	mg/L	0.0500	112	85-115
Manganese	0.0565	0.0005	mg/L	0.0500	113	85-115
Molybdenum	0.0557	0.0005	mg/L	0.0500	111	85-115
Selenium	0.276	0.0010	mg/L	0.250	111	85-115
Uranium	0.0563	0.0005	mg/L	0.0500	113	85-115
Zinc	0.0551	0.0020	mg/L	0.0500	110	85-115

LCS Dup (B241772-BSD1)

Prepared: 06/24/24 Analyzed: 06/26/24

Arsenic	0.0566	0.0010	mg/L	0.0500	113	85-115	0.818	20
Cadmium	0.0562	0.0005	mg/L	0.0500	112	85-115	0.936	20
Copper	0.0564	0.0010	mg/L	0.0500	113	85-115	0.229	20
Lead	0.0567	0.0005	mg/L	0.0500	113	85-115	0.777	20
Manganese	0.0569	0.0005	mg/L	0.0500	114	85-115	0.586	20
Molybdenum	0.0567	0.0005	mg/L	0.0500	113	85-115	1.79	20
Selenium	0.278	0.0010	mg/L	0.250	111	85-115	0.645	20
Uranium	0.0564	0.0005	mg/L	0.0500	113	85-115	0.178	20
Zinc	0.0555	0.0020	mg/L	0.0500	111	85-115	0.888	20

Green Analytical Laboratories

Veronica J. Wells

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/01/24 16:22

Dissolved Mercury by CVAFS - Quality Control

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

Batch B241829 - EPA 245.7

Blank (B241829-BLK1)

Prepared: 06/27/24 Analyzed: 07/01/24

Mercury	ND	100	ng/L
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LCS (B241829-BS1)

Prepared: 06/27/24 Analyzed: 07/01/24

Mercury	890	100	ng/L	1000	89.0	76-113
---------	-----	-----	------	------	------	--------

LCS Dup (B241829-BSD1)

Prepared: 06/27/24 Analyzed: 07/01/24

Mercury	874	100	ng/L	1000	87.4	76-113	1.81	20
---------	-----	-----	------	------	------	--------	------	----

Notes and Definitions

B3	Target analyte detected in method blank or continuing calibration blank. Reporting limit elevated to account for blank result.
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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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/01/24 16:22

Qualifier Summary

<u>LabNumber</u>	<u>Analysis</u>	<u>Analyte</u>	<u>Qualifier</u>	<u>TextBody</u>
2406241-01	Total Dissolved Solids [TDS]	Total Dissolved Solids	B3	Target analyte detected in method blank or continuing calibration blank. Reporting limit elevated to account for blank result.
B241805-BLK1	Total Dissolved Solids [TDS]	Total Dissolved Solids	B3	Target analyte detected in method blank or continuing calibration blank. Reporting limit elevated to account for blank result.
B241805-SRM1	Total Dissolved Solids [TDS]	Total Dissolved Solids	B3	Target analyte detected in method blank or continuing calibration blank. Reporting limit elevated to account for blank result.

Green Analytical Laboratories

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

Veronica Wells, Project Manager

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75 Suttle Street
Durango, CO 81303
(970) 247-4220

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

FORM-006, R 8.0

Note: Wife-Out™ or similar products cannot be used on the Chain of Custody

Company or Client:		GCC Energy		Bill to (if different):		ANALYSIS REQUEST					
Address:		6473 CR 120									
City: Hesperus		State: CO		Zip: 81326							
Phone #:		970-385-4528									
Contact Person: Michael Dickson for billing		Landon Beck for Logistical or Technical									
Email Report to: lbeck@slrconsulting.com		tom@hayulichservices.com		mdickson@gcc.com							
Project Name (optional):											
Sampler Name (Print):		Brandon Waddell									
Lab I.D.		Sample Name or Location		Collected		Matrix (check one)		# of containers			
						☐ Y ☒ N		☐ Rush? ☐ P.O. #			
						☐ GROUNDWATER ☐ SURFACE WATER ☐ WASTEWATER ☐ PRODUCED WATER ☐ DRINKING WATER ☐ SOIL ☐ OTHER:		☐ No preservation ☐ Nitric Acid ☐ Hydrochloric Acid ☐ Sulfuric Acid ☐ Sodium Hydroxide ☐ OTHER:			
2406-241		MP-1-A		6-19-24 11:24		X		1 1 4		GCC BW BASELINE	
1)											
2)											
3)											
4)											
5)											
6)											
7)											
8)											
9)											
10)											

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 of the applicable service. 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: 6-20-24 Time: 8:05	Received By:	Date: 6-20-24 Time: 6:05	ADDITIONAL REMARKS:	
Relinquished By:	Date: Time:	Received By:	Date: Time:		
Relinquished By:	Date: Time:	Received By:	Date: Time:	Temperature at receipt: 3.4 °C	Checked by: On Ice? ☒ N Therm. used: laser 2

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

Project Information

GCC Energy, LLC

6473 CR 120
Hesperus, CO 81326
Laboratory PM: Veronica Wells

GCC Energy

Phone: (970) 385-4528
Fax: (970) 385-4638

Project Name: GCC GW Baseline
Project Number:
Client PM: Michael Dickson
Comments: All Metals Are Field Filtered. Send Out PRESERVED bottles per Landon. 11-01-18

Analysis	Comment
Alkalinity, Total	
Aluminum Dissolved by ICP	
Arsenic Dissolved by ICPMS	
CAB	
Cadmium Dissolved by ICPMS	
Chloride [IC]	
Copper Dissolved by ICPMS	
Fluoride [IC]	
Hardness [DISSOLVED]	
Iron Dissolved by ICP	
Lead Dissolved by ICPMS	
Manganese Dissolved by ICPMS	
Mercury Dissolved by CVAFS	
Molybdenum Dissolved by ICPMS	
Nitrate/Nitrite [LACHAT]	
pH	
Potassium Dissolved by ICP	
Selenium Dissolved by ICPMS	
Silica Dissolved by ICP	
Sodium Dissolved by ICP	
Sulfate [IC]	
Total Dissolved Solids [TDS]	
Total Organic Carbon [TOC]	
Uranium Dissolved by ICPMS	
Zinc Dissolved by ICPMS	
Hardness [DISSOLVED] subanalyses:	
Calcium Dissolved by ICP	
Magnesium Dissolved by ICP	
Silica Dissolved by ICP subanalyses:	
Silicon Dissolved by ICP	

All metals are field filtered. Send out preserved bottles



SAMPLE CONDITION RECEIPT FORM

Client Name: GCC EnergyWork Order # 2406-241Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Kangaroo ☐ Third Party ☐ OtherCustody 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: 3.4 °C Correction Factor: 0 °C Final Temp: 3.4 °C

* Temp should be above freezing to 6°C

Date/Initials of person
examining contents: 6-20-24
MPNLabeled by initials: 6-20-24
(if different than above)

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

01 July 2024

Michael Dickson
GCC Energy, LLC
6473 CR 120
Hesperus, CO 81326
RE: [none]

Enclosed are the results of analyses for samples received by the laboratory on 06/20/24 08:05. 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: TX-C24-00019

Our affiliate laboratory, Cardinal Laboratories, is also NELAP accredited through the Texas Commission on Environmental Quality for a variety of organic constituents in drinking water, non-potable water and solid matrices. Cardinal is also accredited for regulated VOCs, TTHM, and HAA-5 in drinking water through the Colorado Department of Public Health and Environment and EPA region 8. TNI Certificate Number: TX-C24-00112

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/01/24 16:25

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW-7-EAA	2406242-01	Water	06/19/24 13:50	06/20/24 08:05	

Green Analytical Laboratories

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

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/01/24 16:25

MW-7-EAA

2406242-01 (Ground Water)

Sampled Date: 06/19/24 13:50

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

Alkalinity, Total as CaCO ₃ *	455	10.0	8.00	mg/L	5	06/27/24 11:30	2320 B		HIC
Alkalinity, Hydroxide as CaCO ₃ *	<10.0	10.0	8.00	mg/L	5	06/27/24 11:30	2320 B		HIC
Alkalinity, Carbonate as CaCO ₃ *	<10.0	10.0	8.00	mg/L	5	06/27/24 11:30	2320 B		HIC
Alkalinity, Bicarbonate as CaCO ₃ *	455	10.0	8.00	mg/L	5	06/27/24 11:30	2320 B		HIC
Cation/Anion Balance	0.200	-100	-100	%	1	07/01/24 15:33	Calculation		JDA
Chloride*	11.4	2.00	0.111	mg/L	2	06/27/24 14:17	EPA300.0		AWG
Fluoride*	0.298	0.200	0.0194	mg/L	2	06/27/24 14:17	EPA300.0		AWG
Nitrate/Nitrite as N*	<0.020	0.020	0.013	mg/L as N	1	06/27/24 12:50	EPA353.2		CAI
pH*	7.07			pH Units	1	06/20/24 16:15	EPA150.1		HIC
pH Temperature, degrees C	19.2			pH Units	1	06/20/24 16:15	EPA150.1		HIC
Sulfate*	821	5.00	0.620	mg/L	5	06/27/24 15:17	EPA300.0		AWG
Total Dissolved Solids*	1550	20.0		mg/L	1	06/26/24 13:25	EPA160.1	B3	HIC
Total Organic Carbon*	5.12	0.500	0.290	mg/L	1	06/28/24 15:13	5310C		AES

Dissolved Metals by ICP

Aluminum*	<0.100	0.100	0.044	mg/L	2	06/28/24 10:38	EPA200.7		AWG
Calcium*	186	0.200	0.036	mg/L	2	06/28/24 10:38	EPA200.7		AWG
Hardness as CaCO ₃	1080	1.32	0.339	mg/L	2	06/28/24 10:38	2340 B		AWG
Iron*	0.421	0.100	0.040	mg/L	2	06/28/24 10:38	EPA200.7		AWG
Magnesium*	149	0.200	0.061	mg/L	2	06/28/24 10:38	EPA200.7		AWG
Potassium*	3.84	2.00	0.150	mg/L	2	06/28/24 10:38	EPA200.7		AWG
Silica (SiO ₂)	17.1	2.14	0.199	mg/L	2	06/28/24 10:38	Calculation		AWG
Silicon	8.00	1.00	0.093	mg/L	2	06/28/24 10:38	EPA200.7		AWG
Sodium*	80.5	2.00	0.460	mg/L	2	06/28/24 10:38	EPA200.7		AWG

Dissolved Metals by ICPMS

Arsenic*	<0.0020	0.0020	0.0012	mg/L	2	06/26/24 12:23	EPA200.8		JDA
Cadmium*	<0.0010	0.0010	0.0001	mg/L	2	06/26/24 12:23	EPA200.8		JDA
Copper*	0.0044	0.0020	0.0002	mg/L	2	06/26/24 12:23	EPA200.8		JDA
Lead*	<0.0010	0.0010	0.0002	mg/L	2	06/26/24 12:23	EPA200.8		JDA
Manganese*	4.61	0.0050	0.0018	mg/L	10	06/26/24 14:58	EPA200.8		JDA
Molybdenum*	<0.0010	0.0010	0.0001	mg/L	2	06/26/24 12:23	EPA200.8		JDA
Selenium*	<0.0020	0.0020	0.0005	mg/L	2	06/26/24 12:23	EPA200.8		JDA

Green Analytical Laboratories

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/01/24 16:25

MW-7-EAA

2406242-01 (Ground Water)

Sampled Date: 06/19/24 13:50

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Dissolved Metals by ICPMS

Uranium	0.0025	0.0010	0.00008	mg/L	2	06/26/24 12:23	EPA200.8		JDA
Zinc*	<0.0040	0.0040	0.0012	mg/L	2	06/26/24 12:23	EPA200.8		JDA

Dissolved Mercury by CVAFS

Mercury	<100	100	19.6	ng/L	1	06/26/24 11:20	EPA245.7		CAI
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Green Analytical Laboratories

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

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/01/24 16:25

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B241748 - General Prep - Wet Chem										
Reference (B241748-SRM1)				Prepared & Analyzed: 06/20/24						
pH	7.00		pH Units	7.00		100	98.57-101.42			
Batch B241787 - General Prep - Wet Chem										
Blank (B241787-BLK1)				Prepared: 06/25/24 Analyzed: 06/27/24						
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 (B241787-BS1)				Prepared: 06/25/24 Analyzed: 06/27/24						
Alkalinity, Total as CaCO ₃	103	10.0	mg/L	100		103	85-115			
LCS Dup (B241787-BSD1)				Prepared: 06/25/24 Analyzed: 06/27/24						
Alkalinity, Total as CaCO ₃	106	10.0	mg/L	100		106	85-115	2.87	20	
Reference (B241787-SRM1)				Prepared: 06/25/24 Analyzed: 06/27/24						
Alkalinity, Total as CaCO ₃	104	10.0	mg/L	100		104	85-115			
Batch B241805 - General Prep - Wet Chem										
Blank (B241805-BLK1)				Prepared & Analyzed: 06/26/24						
Total Dissolved Solids	ND	10.0	mg/L							B3
Reference (B241805-SRM1)				Prepared & Analyzed: 06/26/24						
Total Dissolved Solids	415	10.0	mg/L	400		104	85-115			B3
Batch B241815 - IC- Ion Chromatograph										
Blank (B241815-BLK1)				Prepared & Analyzed: 06/27/24						
Chloride	ND	1.00	mg/L							
Fluoride	ND	0.100	mg/L							
Sulfate	ND	1.00	mg/L							
LCS (B241815-BS1)				Prepared & Analyzed: 06/27/24						
Chloride	25.0	1.00	mg/L	25.0		100	90-110			
Fluoride	2.57	0.100	mg/L	2.50		103	90-110			
Sulfate	24.7	1.00	mg/L	25.0		98.7	90-110			
LCS Dup (B241815-BSD1)				Prepared & Analyzed: 06/27/24						

Green Analytical Laboratories

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/01/24 16:25

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 B241815 - IC- Ion Chromatograph (Continued)

LCS Dup (B241815-BSD1) (Continued)

Prepared & Analyzed: 06/27/24

Chloride	25.0	1.00	mg/L	25.0		99.8	90-110	0.316	20	
Fluoride	2.56	0.100	mg/L	2.50		102	90-110	0.234	20	
Sulfate	24.6	1.00	mg/L	25.0		98.5	90-110	0.247	20	

Batch B241818 - Lachat

Blank (B241818-BLK1)

Prepared & Analyzed: 06/27/24

Nitrate/Nitrite as N	ND	0.020	mg/L as N							
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LCS (B241818-BS1)

Prepared & Analyzed: 06/27/24

Nitrate/Nitrite as N	0.910	0.020	mg/L as N	1.00		91.0	90-110			
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LCS Dup (B241818-BSD1)

Prepared & Analyzed: 06/27/24

Nitrate/Nitrite as N	0.918	0.020	mg/L as N	1.00		91.8	90-110	0.864	20	
----------------------	-------	-------	-----------	------	--	------	--------	-------	----	--

Batch B241838 - General Prep - Wet Chem

Blank (B241838-BLK1)

Prepared & Analyzed: 06/28/24

Total Organic Carbon	ND	0.500	mg/L							
----------------------	----	-------	------	--	--	--	--	--	--	--

LCS (B241838-BS1)

Prepared & Analyzed: 06/28/24

Total Organic Carbon	9.77	0.500	mg/L	10.0		97.7	85-115			
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LCS Dup (B241838-BSD1)

Prepared & Analyzed: 06/28/24

Total Organic Carbon	9.57	0.500	mg/L	10.0		95.7	85-115	2.01	20	
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Green Analytical Laboratories

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/01/24 16:25

Dissolved Metals by ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B241801 - Dissolved ICP

Blank (B241801-BLK1)

Prepared: 06/26/24 Analyzed: 06/28/24

Aluminum	ND	0.050	mg/L
Calcium	ND	0.100	mg/L
Iron	ND	0.050	mg/L
Magnesium	ND	0.100	mg/L
Potassium	ND	1.00	mg/L
Silicon	ND	0.500	mg/L
Sodium	ND	1.00	mg/L

LCS (B241801-BS1)

Prepared: 06/26/24 Analyzed: 06/28/24

Aluminum	4.04	0.050	mg/L	4.00	101	85-115
Calcium	4.11	0.100	mg/L	4.00	103	85-115
Iron	4.20	0.050	mg/L	4.00	105	85-115
Magnesium	20.4	0.100	mg/L	20.0	102	85-115
Potassium	8.15	1.00	mg/L	8.00	102	85-115
Silicon	4.06	0.500	mg/L	4.00	101	85-115
Sodium	3.30	1.00	mg/L	3.24	102	85-115

LCS Dup (B241801-BSD1)

Prepared: 06/26/24 Analyzed: 06/28/24

Aluminum	4.02	0.050	mg/L	4.00	101	85-115	0.301	20
Calcium	4.08	0.100	mg/L	4.00	102	85-115	0.808	20
Iron	4.15	0.050	mg/L	4.00	104	85-115	1.18	20
Magnesium	20.4	0.100	mg/L	20.0	102	85-115	0.141	20
Potassium	8.15	1.00	mg/L	8.00	102	85-115	0.0421	20
Silicon	4.00	0.500	mg/L	4.00	100	85-115	1.40	20
Sodium	3.28	1.00	mg/L	3.24	101	85-115	0.704	20

Green Analytical Laboratories

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/01/24 16:25

Dissolved Metals by ICPMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B241772 - Dissolved ICPMS

Blank (B241772-BLK1)

Prepared: 06/24/24 Analyzed: 06/26/24

Arsenic	ND	0.0010	mg/L
Cadmium	ND	0.0005	mg/L
Copper	ND	0.0010	mg/L
Lead	ND	0.0005	mg/L
Manganese	ND	0.0005	mg/L
Molybdenum	ND	0.0005	mg/L
Selenium	ND	0.0010	mg/L
Uranium	ND	0.0005	mg/L
Zinc	ND	0.0020	mg/L

LCS (B241772-BS1)

Prepared: 06/24/24 Analyzed: 06/26/24

Arsenic	0.0571	0.0010	mg/L	0.0500	114	85-115
Cadmium	0.0567	0.0005	mg/L	0.0500	113	85-115
Copper	0.0566	0.0010	mg/L	0.0500	113	85-115
Lead	0.0562	0.0005	mg/L	0.0500	112	85-115
Manganese	0.0565	0.0005	mg/L	0.0500	113	85-115
Molybdenum	0.0557	0.0005	mg/L	0.0500	111	85-115
Selenium	0.276	0.0010	mg/L	0.250	111	85-115
Uranium	0.0563	0.0005	mg/L	0.0500	113	85-115
Zinc	0.0551	0.0020	mg/L	0.0500	110	85-115

LCS Dup (B241772-BSD1)

Prepared: 06/24/24 Analyzed: 06/26/24

Arsenic	0.0566	0.0010	mg/L	0.0500	113	85-115	0.818	20
Cadmium	0.0562	0.0005	mg/L	0.0500	112	85-115	0.936	20
Copper	0.0564	0.0010	mg/L	0.0500	113	85-115	0.229	20
Lead	0.0567	0.0005	mg/L	0.0500	113	85-115	0.777	20
Manganese	0.0569	0.0005	mg/L	0.0500	114	85-115	0.586	20
Molybdenum	0.0567	0.0005	mg/L	0.0500	113	85-115	1.79	20
Selenium	0.278	0.0010	mg/L	0.250	111	85-115	0.645	20
Uranium	0.0564	0.0005	mg/L	0.0500	113	85-115	0.178	20
Zinc	0.0555	0.0020	mg/L	0.0500	111	85-115	0.888	20

Green Analytical Laboratories

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/01/24 16:25

Dissolved Mercury by CVAFS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B241759 - EPA 245.7

Blank (B241759-BLK1)

Prepared: 06/24/24 Analyzed: 06/26/24

Mercury	ND	100	ng/L
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LCS (B241759-BS1)

Prepared: 06/24/24 Analyzed: 06/26/24

Mercury	923	100	ng/L	1000	92.3	76-113
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LCS Dup (B241759-BSD1)

Prepared: 06/24/24 Analyzed: 06/26/24

Mercury	887	100	ng/L	1000	88.7	76-113	3.94	20
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Notes and Definitions

B3	Target analyte detected in method blank or continuing calibration blank. Reporting limit elevated to account for blank result.
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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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/01/24 16:25

Qualifier Summary

<u>LabNumber</u>	<u>Analysis</u>	<u>Analyte</u>	<u>Qualifier</u>	<u>TextBody</u>
2406242-01	Total Dissolved Solids [TDS]	Total Dissolved Solids	B3	Target analyte detected in method blank or continuing calibration blank. Reporting limit elevated to account for blank result.
B241805-BLK1	Total Dissolved Solids [TDS]	Total Dissolved Solids	B3	Target analyte detected in method blank or continuing calibration blank. Reporting limit elevated to account for blank result.
B241805-SRM1	Total Dissolved Solids [TDS]	Total Dissolved Solids	B3	Target analyte detected in method blank or continuing calibration blank. Reporting limit elevated to account for blank result.

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
FORM-006, R 8.0

Company or Client:

Address:

City: Hesperus

Phone #:

Contact Person: Michael Dickson for billing Landon Beck for Logistical or Technical

Email Report to: lbeck@slrconsulting.com tom@haygulchservices.com mdickson@gcc.com

Project Name(optional):

P.O. #.:

100

Sampler Name (Print): Brandon Waddel

人

Collected

Matrix (check one)

of containers

Lab I.D.	Sample Name or Location
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100	100

2408-242

Date _____

Time

	GF
	CL

GROUNDWATER
SURFACE WATER
WASTEWATER
PRODUCED WATER
DRINKING WATER
SOIL
OTHER:
No preservation
Nitric Acid
Hydrochloric Acid
Sulfuric Acid
Sodium Hydroxide
OTHER:

FCC GW BASELINE

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 analysis. 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 of the applicable service. 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: 6-20-24

Received By:

Date: 6.28.24

ADDITIONAL REMARKS

Relinquished By:

Date:

Received By:

Date:

Relinquished By:

Date:

Received By:

Date:

Temperature at receipt:

Checked by:

On Ice?

Therm. used:

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



SAMPLE CONDITION RECEIPT FORM

Client Name: GCC EnergyWork Order # 2406-242Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Kangaroo ☐ Third Party ☐ OtherCustody 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: 3.4 °C Correction Factor: 0 °C Final Temp: 3.4 °C

* Temp should be above freezing to 6°C

Date/Initials of person
examining contents: 6-20-24
CDWLabeled by initials: 6-20-24
CDW
(if different than above)

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

01 July 2024

Michael Dickson
GCC Energy, LLC
6473 CR 120
Hesperus, CO 81326
RE: [none]

Enclosed are the results of analyses for samples received by the laboratory on 06/20/24 08:05. 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: TX-C24-00019

Our affiliate laboratory, Cardinal Laboratories, is also NELAP accredited through the Texas Commission on Environmental Quality for a variety of organic constituents in drinking water, non-potable water and solid matrices. Cardinal is also accredited for regulated VOCs, TTHM, and HAA-5 in drinking water through the Colorado Department of Public Health and Environment and EPA region 8. TNI Certificate Number: TX-C24-00112

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/01/24 16:28

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW-6-LM	2406243-01	Water	06/19/24 19:45	06/20/24 08:05	

Green Analytical Laboratories

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

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/01/24 16:28

MW-6-LM

2406243-01 (Ground Water)

Sampled Date: 06/19/24 19:45

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

Alkalinity, Total as CaCO ₃ *	360	10.0	8.00	mg/L	5	06/27/24 11:30	2320 B		HIC
Alkalinity, Hydroxide as CaCO ₃ *	<10.0	10.0	8.00	mg/L	5	06/27/24 11:30	2320 B		HIC
Alkalinity, Carbonate as CaCO ₃ *	<10.0	10.0	8.00	mg/L	5	06/27/24 11:30	2320 B		HIC
Alkalinity, Bicarbonate as CaCO ₃ *	360	10.0	8.00	mg/L	5	06/27/24 11:30	2320 B		HIC
Cation/Anion Balance	4.62	-100	-100	%	1	07/01/24 15:33	Calculation		JDA
Chloride*	4.47	2.00	0.111	mg/L	2	06/27/24 15:37	EPA300.0		AWG
Fluoride*	0.306	0.200	0.0194	mg/L	2	06/27/24 15:37	EPA300.0		AWG
Nitrate/Nitrite as N*	<0.020	0.020	0.013	mg/L as N	1	06/27/24 12:51	EPA353.2		CAI
pH*	7.24			pH Units	1	06/20/24 16:15	EPA150.1		HIC
pH Temperature, degrees C	19.7			pH Units	1	06/20/24 16:15	EPA150.1		HIC
Sulfate*	298	2.00	0.248	mg/L	2	06/27/24 15:37	EPA300.0		AWG
Total Dissolved Solids*	755	20.0		mg/L	1	06/26/24 13:27	EPA160.1	B3	HIC
Total Organic Carbon*	1.74	0.500	0.290	mg/L	1	06/28/24 16:16	5310C		AES

Dissolved Metals by ICP

Aluminum*	<0.100	0.100	0.044	mg/L	2	06/28/24 10:42	EPA200.7		AWG
Calcium*	70.5	0.200	0.036	mg/L	2	06/28/24 10:42	EPA200.7		AWG
Hardness as CaCO ₃	414	1.32	0.339	mg/L	2	06/28/24 10:42	2340 B		AWG
Iron*	<0.100	0.100	0.040	mg/L	2	06/28/24 10:42	EPA200.7		AWG
Magnesium*	57.8	0.200	0.061	mg/L	2	06/28/24 10:42	EPA200.7		AWG
Potassium*	3.11	2.00	0.150	mg/L	2	06/28/24 10:42	EPA200.7		AWG
Silica (SiO ₂)	17.2	2.14	0.199	mg/L	2	06/28/24 10:42	Calculation		AWG
Silicon	8.02	1.00	0.093	mg/L	2	06/28/24 10:42	EPA200.7		AWG
Sodium*	123	2.00	0.460	mg/L	2	06/28/24 10:42	EPA200.7		AWG

Dissolved Metals by ICPMS

Arsenic*	0.0030	0.0020	0.0012	mg/L	2	06/26/24 12:24	EPA200.8		JDA
Cadmium*	<0.0010	0.0010	0.0001	mg/L	2	06/26/24 12:24	EPA200.8		JDA
Copper*	0.0050	0.0020	0.0002	mg/L	2	06/26/24 12:24	EPA200.8		JDA
Lead*	<0.0010	0.0010	0.0002	mg/L	2	06/26/24 12:24	EPA200.8		JDA
Manganese*	0.0820	0.0010	0.0004	mg/L	2	06/26/24 12:24	EPA200.8		JDA
Molybdenum*	<0.0010	0.0010	0.0001	mg/L	2	06/26/24 12:24	EPA200.8		JDA
Selenium*	0.0241	0.0020	0.0005	mg/L	2	06/26/24 12:24	EPA200.8		JDA

Green Analytical Laboratories

Veronica J Wells

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/01/24 16:28

MW-6-LM

2406243-01 (Ground Water)

Sampled Date: 06/19/24 19:45

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
---------	--------	----	-----	-------	----------	----------	--------	-------	---------

Dissolved Metals by ICPMS

Uranium	0.0012	0.0010	0.00008	mg/L	2	06/26/24 12:24	EPA200.8		JDA
Zinc*	<0.0040	0.0040	0.0012	mg/L	2	06/26/24 12:24	EPA200.8		JDA

Dissolved Mercury by CVAFS

Mercury	<100	100	19.6	ng/L	1	06/26/24 11:23	EPA245.7		CAI
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Green Analytical Laboratories

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

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/01/24 16:28

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B241748 - General Prep - Wet Chem										
Reference (B241748-SRM1)				Prepared & Analyzed: 06/20/24						
pH	7.00		pH Units	7.00		100	98.57-101.42			
Batch B241787 - General Prep - Wet Chem										
Blank (B241787-BLK1)				Prepared: 06/25/24 Analyzed: 06/27/24						
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 (B241787-BS1)				Prepared: 06/25/24 Analyzed: 06/27/24						
Alkalinity, Total as CaCO ₃	103	10.0	mg/L	100		103	85-115			
LCS Dup (B241787-BSD1)				Prepared: 06/25/24 Analyzed: 06/27/24						
Alkalinity, Total as CaCO ₃	106	10.0	mg/L	100		106	85-115	2.87	20	
Reference (B241787-SRM1)				Prepared: 06/25/24 Analyzed: 06/27/24						
Alkalinity, Total as CaCO ₃	104	10.0	mg/L	100		104	85-115			
Batch B241805 - General Prep - Wet Chem										
Blank (B241805-BLK1)				Prepared & Analyzed: 06/26/24						
Total Dissolved Solids	ND	10.0	mg/L							B3
Reference (B241805-SRM1)				Prepared & Analyzed: 06/26/24						
Total Dissolved Solids	415	10.0	mg/L	400		104	85-115			B3
Batch B241815 - IC- Ion Chromatograph										
Blank (B241815-BLK1)				Prepared & Analyzed: 06/27/24						
Chloride	ND	1.00	mg/L							
Fluoride	ND	0.100	mg/L							
Sulfate	ND	1.00	mg/L							
LCS (B241815-BS1)				Prepared & Analyzed: 06/27/24						
Chloride	25.0	1.00	mg/L	25.0		100	90-110			
Fluoride	2.57	0.100	mg/L	2.50		103	90-110			
Sulfate	24.7	1.00	mg/L	25.0		98.7	90-110			
LCS Dup (B241815-BSD1)				Prepared & Analyzed: 06/27/24						

Green Analytical Laboratories

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/01/24 16:28

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 B241815 - IC- Ion Chromatograph (Continued)

LCS Dup (B241815-BSD1) (Continued)

Prepared & Analyzed: 06/27/24

Chloride	25.0	1.00	mg/L	25.0		99.8	90-110	0.316	20	
Fluoride	2.56	0.100	mg/L	2.50		102	90-110	0.234	20	
Sulfate	24.6	1.00	mg/L	25.0		98.5	90-110	0.247	20	

Batch B241818 - Lachat

Blank (B241818-BLK1)

Prepared & Analyzed: 06/27/24

Nitrate/Nitrite as N	ND	0.020	mg/L as N							
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LCS (B241818-BS1)

Prepared & Analyzed: 06/27/24

Nitrate/Nitrite as N	0.910	0.020	mg/L as N	1.00		91.0	90-110			
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LCS Dup (B241818-BSD1)

Prepared & Analyzed: 06/27/24

Nitrate/Nitrite as N	0.918	0.020	mg/L as N	1.00		91.8	90-110	0.864	20	
----------------------	-------	-------	-----------	------	--	------	--------	-------	----	--

Batch B241838 - General Prep - Wet Chem

Blank (B241838-BLK1)

Prepared & Analyzed: 06/28/24

Total Organic Carbon	ND	0.500	mg/L							
----------------------	----	-------	------	--	--	--	--	--	--	--

LCS (B241838-BS1)

Prepared & Analyzed: 06/28/24

Total Organic Carbon	9.77	0.500	mg/L	10.0		97.7	85-115			
----------------------	------	-------	------	------	--	------	--------	--	--	--

LCS Dup (B241838-BSD1)

Prepared & Analyzed: 06/28/24

Total Organic Carbon	9.57	0.500	mg/L	10.0		95.7	85-115	2.01	20	
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Green Analytical Laboratories

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/01/24 16:28

Dissolved Metals by ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B241801 - Dissolved ICP

Blank (B241801-BLK1)

Prepared: 06/26/24 Analyzed: 06/28/24

Aluminum	ND	0.050	mg/L
Calcium	ND	0.100	mg/L
Iron	ND	0.050	mg/L
Magnesium	ND	0.100	mg/L
Potassium	ND	1.00	mg/L
Silicon	ND	0.500	mg/L
Sodium	ND	1.00	mg/L

LCS (B241801-BS1)

Prepared: 06/26/24 Analyzed: 06/28/24

Aluminum	4.04	0.050	mg/L	4.00	101	85-115
Calcium	4.11	0.100	mg/L	4.00	103	85-115
Iron	4.20	0.050	mg/L	4.00	105	85-115
Magnesium	20.4	0.100	mg/L	20.0	102	85-115
Potassium	8.15	1.00	mg/L	8.00	102	85-115
Silicon	4.06	0.500	mg/L	4.00	101	85-115
Sodium	3.30	1.00	mg/L	3.24	102	85-115

LCS Dup (B241801-BSD1)

Prepared: 06/26/24 Analyzed: 06/28/24

Aluminum	4.02	0.050	mg/L	4.00	101	85-115	0.301	20
Calcium	4.08	0.100	mg/L	4.00	102	85-115	0.808	20
Iron	4.15	0.050	mg/L	4.00	104	85-115	1.18	20
Magnesium	20.4	0.100	mg/L	20.0	102	85-115	0.141	20
Potassium	8.15	1.00	mg/L	8.00	102	85-115	0.0421	20
Silicon	4.00	0.500	mg/L	4.00	100	85-115	1.40	20
Sodium	3.28	1.00	mg/L	3.24	101	85-115	0.704	20

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Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/01/24 16:28

Dissolved Metals by ICPMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B241772 - Dissolved ICPMS

Blank (B241772-BLK1)

Prepared: 06/24/24 Analyzed: 06/26/24

Arsenic	ND	0.0010	mg/L
Cadmium	ND	0.0005	mg/L
Copper	ND	0.0010	mg/L
Lead	ND	0.0005	mg/L
Manganese	ND	0.0005	mg/L
Molybdenum	ND	0.0005	mg/L
Selenium	ND	0.0010	mg/L
Uranium	ND	0.0005	mg/L
Zinc	ND	0.0020	mg/L

LCS (B241772-BS1)

Prepared: 06/24/24 Analyzed: 06/26/24

Arsenic	0.0571	0.0010	mg/L	0.0500	114	85-115
Cadmium	0.0567	0.0005	mg/L	0.0500	113	85-115
Copper	0.0566	0.0010	mg/L	0.0500	113	85-115
Lead	0.0562	0.0005	mg/L	0.0500	112	85-115
Manganese	0.0565	0.0005	mg/L	0.0500	113	85-115
Molybdenum	0.0557	0.0005	mg/L	0.0500	111	85-115
Selenium	0.276	0.0010	mg/L	0.250	111	85-115
Uranium	0.0563	0.0005	mg/L	0.0500	113	85-115
Zinc	0.0551	0.0020	mg/L	0.0500	110	85-115

LCS Dup (B241772-BSD1)

Prepared: 06/24/24 Analyzed: 06/26/24

Arsenic	0.0566	0.0010	mg/L	0.0500	113	85-115	0.818	20
Cadmium	0.0562	0.0005	mg/L	0.0500	112	85-115	0.936	20
Copper	0.0564	0.0010	mg/L	0.0500	113	85-115	0.229	20
Lead	0.0567	0.0005	mg/L	0.0500	113	85-115	0.777	20
Manganese	0.0569	0.0005	mg/L	0.0500	114	85-115	0.586	20
Molybdenum	0.0567	0.0005	mg/L	0.0500	113	85-115	1.79	20
Selenium	0.278	0.0010	mg/L	0.250	111	85-115	0.645	20
Uranium	0.0564	0.0005	mg/L	0.0500	113	85-115	0.178	20
Zinc	0.0555	0.0020	mg/L	0.0500	111	85-115	0.888	20

Green Analytical Laboratories

Veronica J. Wells

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/01/24 16:28

Dissolved Mercury by CVAFS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B241759 - EPA 245.7

Blank (B241759-BLK1)

Prepared: 06/24/24 Analyzed: 06/26/24

Mercury	ND	100	ng/L
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LCS (B241759-BS1)

Prepared: 06/24/24 Analyzed: 06/26/24

Mercury	923	100	ng/L	1000	92.3	76-113
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LCS Dup (B241759-BSD1)

Prepared: 06/24/24 Analyzed: 06/26/24

Mercury	887	100	ng/L	1000	88.7	76-113	3.94	20
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Notes and Definitions

B3	Target analyte detected in method blank or continuing calibration blank. Reporting limit elevated to account for blank result.
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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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/01/24 16:28

Qualifier Summary

<u>LabNumber</u>	<u>Analysis</u>	<u>Analyte</u>	<u>Qualifier</u>	<u>TextBody</u>
2406243-01	Total Dissolved Solids [TDS]	Total Dissolved Solids	B3	Target analyte detected in method blank or continuing calibration blank. Reporting limit elevated to account for blank result.
B241805-BLK1	Total Dissolved Solids [TDS]	Total Dissolved Solids	B3	Target analyte detected in method blank or continuing calibration blank. Reporting limit elevated to account for blank result.
B241805-SRM1	Total Dissolved Solids [TDS]	Total Dissolved Solids	B3	Target analyte detected in method blank or continuing calibration blank. Reporting limit elevated to account for blank result.

Green Analytical Laboratories

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

Veronica Wells, Project Manager

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**75 Suttle Street
Durango, CO 81303
(970) 247-4220**

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST
FORM-006, R 8.0

Note: Write-Out™ or similar products cannot be used on the Chain of Custody

Company or Client:		GCC Energy		Bill to (if different):		ANALYSIS REQUEST	
Address:		6473 CR 120					
City:		Hesperus					
State:		CO					
Zip:		81326					
Phone #:		970-385-4528					
Contact Person:		Michael Dickson for billing					
Email Report to:		lbeck@slrconsulting.com					
Project Name(optional):		tom@hayguichservices.com					
Sampler Name (Print):		Brandon Waddell					
Lab I.D.		Sample Name or Location					
2406-243		MW-6-LM					
01		6-19-24		19:45			
1)							
2)							
3)							
4)							
5)							
6)							
7)							
8)							
9)							
10)							
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 of the applicable service. 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: 6-20-24		Received By:		Date: 6-20-24	
Relinquished By:		Time: 8:05		Received By:		Time: 8:05	
Relinquished By:				Received By:			
Relinquished By:		Date:		Received By:		Date:	
Relinquished By:		Time:		Received By:		Time:	
Relinquished By:		Date:		Received By:		Date:	
Relinquished By:		Time:		Received By:		Time:	
Relinquished By:		Temperature at receipt:		Checked by:		On Ice?	
Relinquished By:		34 °C		MAD		(X) N	
Relinquished By:						Therm. used:	
Relinquished By:						Cory Z	

Project Information

Table of Contents
Printed: 06/20/2024 8:43 am

GCC Energy, LLC

6473 CR 120
Hesperus, CO 81326
Laboratory PM: Veronica Wells

GCC Energy

Phone: (970) 385-4528
Fax: (970) 385-4638

Project Name: GCC GW Baseline
Project Number:
Client PM: Michael Dickson
Comments: All Metals Are Field Filtered. Send Out PRESERVED bottles per Landon. 11-01-18

Analysis	Comment
Alkalinity, Total	
Aluminum Dissolved by ICP	
Arsenic Dissolved by ICPMS	
CAB	
Cadmium Dissolved by ICPMS	
Chloride [IC]	
Copper Dissolved by ICPMS	
Fluoride [IC]	
Hardness [DISSOLVED]	
Iron Dissolved by ICP	
Lead Dissolved by ICPMS	
Manganese Dissolved by ICPMS	
Mercury Dissolved by CVAFS	
Molybdenum Dissolved by ICPMS	
Nitrate/Nitrite [LACHAT]	
pH	
Potassium Dissolved by ICP	
Selenium Dissolved by ICPMS	
Silica Dissolved by ICP	
Sodium Dissolved by ICP	
Sulfate [IC]	
Total Dissolved Solids [TDS]	
Total Organic Carbon [TOC]	
Uranium Dissolved by ICPMS	
Zinc Dissolved by ICPMS	
Hardness [DISSOLVED] subanalyses:	
Calcium Dissolved by ICP	
Magnesium Dissolved by ICP	
Silica Dissolved by ICP subanalyses:	
Silicon Dissolved by ICP	

All metals are field filtered. Send out preserved bottles



SAMPLE CONDITION RECEIPT FORM

Client Name: GCC EnergyWork Order # 2406-243Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Kangaroo ☐ Third Party ☐ OtherCustody 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: 3.4 °C Correction Factor: 0 °C Final Temp: 3.4 °C

* Temp should be above freezing to 6°C

Date/Initials of person examining contents: 6.20.24
MDNLabeled by initials: 6.20.24
(if different than above)

Chain of Custody Present:	☒ Yes ☐ No	1.
Chain of Custody Filled Out:	☒ Yes ☐ No	2.
Chain of Custody Relinquished:	☒ Yes ☐ No	3.
Sampler Name and Signature on COC:	☒ Yes ☐ No	4.
Samples arrived within hold time:	☒ Yes ☐ No	5.
Short Hold Time Analysis (<72hr):	☒ Yes ☐ No	6. <u>PH</u>
Rush Turn Around Time Requested:	☐ Yes ☒ No	7.
Sufficient Volume:	☒ Yes ☐ No	8. <u>limited Volume 1-125mL Nutrient bottle Rec'd</u>
Correct Containers Used:	☒ Yes ☐ No	9.
Containers Intact:	☒ Yes ☐ No	10.
Dissolved Testing Needed:	☒ Yes ☐ No	11. <u>Diss</u>
Field Filtered: ☒ Yes ☐ No		
Sample Labels match COC: -Includes Date/Time/ID	☒ Yes ☐ No	12.
Matrix: <u>WT</u> <u>SL</u> <u>OT</u>		
Trip Blank Present:	☐ Yes ☐ No ☒ N/A	13.
Trip Blank Custody Seals Present:	☐ Yes ☐ No ☒ 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

01 July 2024

Michael Dickson
GCC Energy, LLC
6473 CR 120
Hesperus, CO 81326
RE: [none]

Enclosed are the results of analyses for samples received by the laboratory on 06/20/24 08:05. 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: TX-C24-00019

Our affiliate laboratory, Cardinal Laboratories, is also NELAP accredited through the Texas Commission on Environmental Quality for a variety of organic constituents in drinking water, non-potable water and solid matrices. Cardinal is also accredited for regulated VOCs, TTHM, and HAA-5 in drinking water through the Colorado Department of Public Health and Environment and EPA region 8. TNI Certificate Number: TX-C24-00112

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/01/24 16:31

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW-98	2406244-01	Water	06/19/24 15:56	06/20/24 08:05	
MW-99	2406244-02	Water	06/19/24 15:29	06/20/24 08:05	

Green Analytical Laboratories

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

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/01/24 16:31

MW-98

2406244-01 (Ground Water)

Sampled Date: 06/19/24 15:56

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

Alkalinity, Total as CaCO ₃ *	585	10.0	8.00	mg/L	5	06/27/24 11:30	2320 B		HIC
Alkalinity, Hydroxide as CaCO ₃ *	<10.0	10.0	8.00	mg/L	5	06/27/24 11:30	2320 B		HIC
Alkalinity, Carbonate as CaCO ₃ *	<10.0	10.0	8.00	mg/L	5	06/27/24 11:30	2320 B		HIC
Alkalinity, Bicarbonate as CaCO ₃ *	585	10.0	8.00	mg/L	5	06/27/24 11:30	2320 B		HIC
Cation/Anion Balance	-0.930	-100	-100	%	1	07/01/24 15:33	Calculation		JDA
Chloride*	8.80	2.00	0.111	mg/L	2	06/27/24 15:57	EPA300.0		AWG
Fluoride*	<0.200	0.200	0.0194	mg/L	2	06/27/24 15:57	EPA300.0		AWG
Nitrate/Nitrite as N*	<0.020	0.020	0.013	mg/L as N	1	06/27/24 12:52	EPA353.2		CAI
pH*	7.46			pH Units	1	06/20/24 16:15	EPA150.1		HIC
pH Temperature, degrees C	20.0			pH Units	1	06/20/24 16:15	EPA150.1		HIC
Sulfate*	335	2.00	0.248	mg/L	2	06/27/24 15:57	EPA300.0		AWG
Total Dissolved Solids*	1010	20.0		mg/L	1	06/26/24 13:29	EPA160.1	B3	HIC
Total Organic Carbon*	2.62	0.500	0.290	mg/L	1	06/28/24 17:19	5310C		AES

Dissolved Metals by ICP

Aluminum*	<0.100	0.100	0.044	mg/L	2	06/28/24 10:48	EPA200.7		AWG
Calcium*	73.2	0.200	0.036	mg/L	2	06/28/24 10:48	EPA200.7		AWG
Hardness as CaCO ₃	389	1.32	0.339	mg/L	2	06/28/24 10:48	2340 B		AWG
Iron*	<0.100	0.100	0.040	mg/L	2	06/28/24 10:48	EPA200.7		AWG
Magnesium*	50.0	0.200	0.061	mg/L	2	06/28/24 10:48	EPA200.7		AWG
Potassium*	5.77	2.00	0.150	mg/L	2	06/28/24 10:48	EPA200.7		AWG
Silica (SiO ₂)	13.7	2.14	0.199	mg/L	2	06/28/24 10:48	Calculation		AWG
Silicon	6.39	1.00	0.093	mg/L	2	06/28/24 10:48	EPA200.7		AWG
Sodium*	224	2.00	0.460	mg/L	2	06/28/24 10:48	EPA200.7		AWG

Dissolved Metals by ICPMS

Arsenic*	<0.0020	0.0020	0.0012	mg/L	2	06/26/24 12:26	EPA200.8		JDA
Cadmium*	<0.0010	0.0010	0.0001	mg/L	2	06/26/24 12:26	EPA200.8		JDA
Copper*	0.0084	0.0020	0.0002	mg/L	2	06/26/24 12:26	EPA200.8		JDA
Lead*	<0.0010	0.0010	0.0002	mg/L	2	06/26/24 12:26	EPA200.8		JDA
Manganese*	0.0631	0.0010	0.0004	mg/L	2	06/26/24 12:26	EPA200.8		JDA
Molybdenum*	<0.0010	0.0010	0.0001	mg/L	2	06/26/24 12:26	EPA200.8		JDA
Selenium*	0.0274	0.0020	0.0005	mg/L	2	06/26/24 12:26	EPA200.8		JDA

Green Analytical Laboratories

Veronica J Wells

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/01/24 16:31

MW-98

2406244-01 (Ground Water)

Sampled Date: 06/19/24 15:56

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Dissolved Metals by ICPMS

Uranium	<0.0010	0.0010	0.00008	mg/L	2	06/26/24 12:26	EPA200.8		JDA
Zinc*	<0.0040	0.0040	0.0012	mg/L	2	06/26/24 12:26	EPA200.8		JDA

Dissolved Mercury by CVAFS

Mercury	<100	100	19.6	ng/L	1	06/26/24 11:26	EPA245.7		CAI
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Green Analytical Laboratories

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

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/01/24 16:31

MW-99

2406244-02 (Ground Water)
Sampled Date: 06/19/24 15:29

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

Alkalinity, Total as CaCO ₃ *	480	10.0	8.00	mg/L	5	06/27/24 11:30	2320 B		HIC
Alkalinity, Hydroxide as CaCO ₃ *	<10.0	10.0	8.00	mg/L	5	06/27/24 11:30	2320 B		HIC
Alkalinity, Carbonate as CaCO ₃ *	<10.0	10.0	8.00	mg/L	5	06/27/24 11:30	2320 B		HIC
Alkalinity, Bicarbonate as CaCO ₃ *	480	10.0	8.00	mg/L	5	06/27/24 11:30	2320 B		HIC
Cation/Anion Balance	-3.21	-100	-100	%	1	07/01/24 15:33	Calculation		JDA
Chloride*	12.2	2.00	0.111	mg/L	2	06/27/24 16:16	EPA300.0		AWG
Fluoride*	0.328	0.200	0.0194	mg/L	2	06/27/24 16:16	EPA300.0		AWG
Nitrate/Nitrite as N*	<0.020	0.020	0.013	mg/L as N	1	06/27/24 12:18	EPA353.2		CAI
pH*	7.14			pH Units	1	06/20/24 16:15	EPA150.1		HIC
pH Temperature, degrees C	19.5			pH Units	1	06/20/24 16:15	EPA150.1		HIC
Sulfate*	777	5.00	0.620	mg/L	5	06/27/24 16:36	EPA300.0		AWG
Total Dissolved Solids*	1460	20.0		mg/L	1	06/26/24 13:31	EPA160.1	B3	HIC
Total Organic Carbon*	4.03	0.500	0.290	mg/L	1	06/28/24 17:38	5310C		AES

Dissolved Metals by ICP

Aluminum*	<0.100	0.100	0.044	mg/L	2	06/28/24 10:51	EPA200.7		AWG
Calcium*	170	0.200	0.036	mg/L	2	06/28/24 10:51	EPA200.7		AWG
Hardness as CaCO ₃	972	1.32	0.339	mg/L	2	06/28/24 10:51	2340 B		AWG
Iron*	2.41	0.100	0.040	mg/L	2	06/28/24 10:51	EPA200.7		AWG
Magnesium*	133	0.200	0.061	mg/L	2	06/28/24 10:51	EPA200.7		AWG
Potassium*	3.60	2.00	0.150	mg/L	2	06/28/24 10:51	EPA200.7		AWG
Silica (SiO ₂)	16.1	2.14	0.199	mg/L	2	06/28/24 10:51	Calculation		AWG
Silicon	7.54	1.00	0.093	mg/L	2	06/28/24 10:51	EPA200.7		AWG
Sodium*	80.9	2.00	0.460	mg/L	2	06/28/24 10:51	EPA200.7		AWG

Dissolved Metals by ICPMS

Arsenic*	<0.0020	0.0020	0.0012	mg/L	2	06/26/24 12:28	EPA200.8		JDA
Cadmium*	<0.0010	0.0010	0.0001	mg/L	2	06/26/24 12:28	EPA200.8		JDA
Copper*	0.0030	0.0020	0.0002	mg/L	2	06/26/24 12:28	EPA200.8		JDA
Lead*	<0.0010	0.0010	0.0002	mg/L	2	06/26/24 12:28	EPA200.8		JDA
Manganese*	4.28	0.0050	0.0018	mg/L	10	06/26/24 15:00	EPA200.8		JDA
Molybdenum*	<0.0010	0.0010	0.0001	mg/L	2	06/26/24 12:28	EPA200.8		JDA
Selenium*	0.0041	0.0020	0.0005	mg/L	2	06/26/24 12:28	EPA200.8		JDA

Green Analytical Laboratories

Veronica J Wells

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/01/24 16:31

MW-99

2406244-02 (Ground Water)

Sampled Date: 06/19/24 15:29

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Dissolved Metals by ICPMS

Uranium	0.0020	0.0010	0.00008	mg/L	2	06/26/24 12:28	EPA200.8		JDA
Zinc*	<0.0040	0.0040	0.0012	mg/L	2	06/26/24 12:28	EPA200.8		JDA

Dissolved Mercury by CVAFS

Mercury	<100	100	19.6	ng/L	1	06/26/24 11:29	EPA245.7		CAI
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Green Analytical Laboratories

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

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/01/24 16:31

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 B241748 - General Prep - Wet Chem

Reference (B241748-SRM1)

Prepared & Analyzed: 06/20/24

pH	7.00		pH Units	7.00		100	98.57-101.42			
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Batch B241787 - General Prep - Wet Chem

Blank (B241787-BLK1)

Prepared: 06/25/24 Analyzed: 06/27/24

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 (B241787-BS1)

Prepared: 06/25/24 Analyzed: 06/27/24

Alkalinity, Total as CaCO ₃	103	10.0	mg/L	100		103	85-115			
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LCS Dup (B241787-BSD1)

Prepared: 06/25/24 Analyzed: 06/27/24

Alkalinity, Total as CaCO ₃	106	10.0	mg/L	100		106	85-115	2.87	20	
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Reference (B241787-SRM1)

Prepared: 06/25/24 Analyzed: 06/27/24

Alkalinity, Total as CaCO ₃	104	10.0	mg/L	100		104	85-115			
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Batch B241805 - General Prep - Wet Chem

Blank (B241805-BLK1)

Prepared & Analyzed: 06/26/24

Total Dissolved Solids	ND	10.0	mg/L							B3
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Reference (B241805-SRM1)

Prepared & Analyzed: 06/26/24

Total Dissolved Solids	415	10.0	mg/L	400		104	85-115			B3
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Batch B241815 - IC- Ion Chromatograph

Blank (B241815-BLK1)

Prepared & Analyzed: 06/27/24

Chloride	ND	1.00	mg/L							
Fluoride	ND	0.100	mg/L							
Sulfate	ND	1.00	mg/L							

LCS (B241815-BS1)

Prepared & Analyzed: 06/27/24

Chloride	25.0	1.00	mg/L	25.0		100	90-110			
Fluoride	2.57	0.100	mg/L	2.50		103	90-110			
Sulfate	24.7	1.00	mg/L	25.0		98.7	90-110			

LCS Dup (B241815-BSD1)

Prepared & Analyzed: 06/27/24

Green Analytical Laboratories

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/01/24 16:31

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 B241815 - IC- Ion Chromatograph (Continued)

LCS Dup (B241815-BSD1) (Continued)

Prepared & Analyzed: 06/27/24

Chloride	25.0	1.00	mg/L	25.0		99.8	90-110	0.316	20	
Fluoride	2.56	0.100	mg/L	2.50		102	90-110	0.234	20	
Sulfate	24.6	1.00	mg/L	25.0		98.5	90-110	0.247	20	

Batch B241817 - Lachat

Blank (B241817-BLK1)

Prepared & Analyzed: 06/27/24

Nitrate/Nitrite as N	ND	0.020	mg/L as N							
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LCS (B241817-BS1)

Prepared & Analyzed: 06/27/24

Nitrate/Nitrite as N	0.914	0.020	mg/L as N	1.00		91.4	90-110			
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LCS Dup (B241817-BSD1)

Prepared & Analyzed: 06/27/24

Nitrate/Nitrite as N	0.919	0.020	mg/L as N	1.00		91.9	90-110	0.524	20	
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Batch B241818 - Lachat

Blank (B241818-BLK1)

Prepared & Analyzed: 06/27/24

Nitrate/Nitrite as N	ND	0.020	mg/L as N							
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LCS (B241818-BS1)

Prepared & Analyzed: 06/27/24

Nitrate/Nitrite as N	0.910	0.020	mg/L as N	1.00		91.0	90-110			
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LCS Dup (B241818-BSD1)

Prepared & Analyzed: 06/27/24

Nitrate/Nitrite as N	0.918	0.020	mg/L as N	1.00		91.8	90-110	0.864	20	
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Batch B241838 - General Prep - Wet Chem

Blank (B241838-BLK1)

Prepared & Analyzed: 06/28/24

Total Organic Carbon	ND	0.500	mg/L							
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LCS (B241838-BS1)

Prepared & Analyzed: 06/28/24

Total Organic Carbon	9.77	0.500	mg/L	10.0		97.7	85-115			
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LCS Dup (B241838-BSD1)

Prepared & Analyzed: 06/28/24

Total Organic Carbon	9.57	0.500	mg/L	10.0		95.7	85-115	2.01	20	
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Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/01/24 16:31

Dissolved Metals by ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B241801 - Dissolved ICP

Blank (B241801-BLK1)

Prepared: 06/26/24 Analyzed: 06/28/24

Aluminum	ND	0.050	mg/L
Calcium	ND	0.100	mg/L
Iron	ND	0.050	mg/L
Magnesium	ND	0.100	mg/L
Potassium	ND	1.00	mg/L
Silicon	ND	0.500	mg/L
Sodium	ND	1.00	mg/L

LCS (B241801-BS1)

Prepared: 06/26/24 Analyzed: 06/28/24

Aluminum	4.04	0.050	mg/L	4.00	101	85-115
Calcium	4.11	0.100	mg/L	4.00	103	85-115
Iron	4.20	0.050	mg/L	4.00	105	85-115
Magnesium	20.4	0.100	mg/L	20.0	102	85-115
Potassium	8.15	1.00	mg/L	8.00	102	85-115
Silicon	4.06	0.500	mg/L	4.00	101	85-115
Sodium	3.30	1.00	mg/L	3.24	102	85-115

LCS Dup (B241801-BSD1)

Prepared: 06/26/24 Analyzed: 06/28/24

Aluminum	4.02	0.050	mg/L	4.00	101	85-115	0.301	20
Calcium	4.08	0.100	mg/L	4.00	102	85-115	0.808	20
Iron	4.15	0.050	mg/L	4.00	104	85-115	1.18	20
Magnesium	20.4	0.100	mg/L	20.0	102	85-115	0.141	20
Potassium	8.15	1.00	mg/L	8.00	102	85-115	0.0421	20
Silicon	4.00	0.500	mg/L	4.00	100	85-115	1.40	20
Sodium	3.28	1.00	mg/L	3.24	101	85-115	0.704	20

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/01/24 16:31

Dissolved Metals by ICPMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B241772 - Dissolved ICPMS

Blank (B241772-BLK1)

Prepared: 06/24/24 Analyzed: 06/26/24

Arsenic	ND	0.0010	mg/L
Cadmium	ND	0.0005	mg/L
Copper	ND	0.0010	mg/L
Lead	ND	0.0005	mg/L
Manganese	ND	0.0005	mg/L
Molybdenum	ND	0.0005	mg/L
Selenium	ND	0.0010	mg/L
Uranium	ND	0.0005	mg/L
Zinc	ND	0.0020	mg/L

LCS (B241772-BS1)

Prepared: 06/24/24 Analyzed: 06/26/24

Arsenic	0.0571	0.0010	mg/L	0.0500	114	85-115
Cadmium	0.0567	0.0005	mg/L	0.0500	113	85-115
Copper	0.0566	0.0010	mg/L	0.0500	113	85-115
Lead	0.0562	0.0005	mg/L	0.0500	112	85-115
Manganese	0.0565	0.0005	mg/L	0.0500	113	85-115
Molybdenum	0.0557	0.0005	mg/L	0.0500	111	85-115
Selenium	0.276	0.0010	mg/L	0.250	111	85-115
Uranium	0.0563	0.0005	mg/L	0.0500	113	85-115
Zinc	0.0551	0.0020	mg/L	0.0500	110	85-115

LCS Dup (B241772-BSD1)

Prepared: 06/24/24 Analyzed: 06/26/24

Arsenic	0.0566	0.0010	mg/L	0.0500	113	85-115	0.818	20
Cadmium	0.0562	0.0005	mg/L	0.0500	112	85-115	0.936	20
Copper	0.0564	0.0010	mg/L	0.0500	113	85-115	0.229	20
Lead	0.0567	0.0005	mg/L	0.0500	113	85-115	0.777	20
Manganese	0.0569	0.0005	mg/L	0.0500	114	85-115	0.586	20
Molybdenum	0.0567	0.0005	mg/L	0.0500	113	85-115	1.79	20
Selenium	0.278	0.0010	mg/L	0.250	111	85-115	0.645	20
Uranium	0.0564	0.0005	mg/L	0.0500	113	85-115	0.178	20
Zinc	0.0555	0.0020	mg/L	0.0500	111	85-115	0.888	20

Green Analytical Laboratories

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/01/24 16:31

Dissolved Mercury by CVAFS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B241759 - EPA 245.7

Blank (B241759-BLK1)

Prepared: 06/24/24 Analyzed: 06/26/24

Mercury	ND	100	ng/L
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LCS (B241759-BS1)

Prepared: 06/24/24 Analyzed: 06/26/24

Mercury	923	100	ng/L	1000	92.3	76-113
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LCS Dup (B241759-BSD1)

Prepared: 06/24/24 Analyzed: 06/26/24

Mercury	887	100	ng/L	1000	88.7	76-113	3.94	20
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Notes and Definitions

B3	Target analyte detected in method blank or continuing calibration blank. Reporting limit elevated to account for blank result.
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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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/01/24 16:31

Qualifier Summary

<u>LabNumber</u>	<u>Analysis</u>	<u>Analyte</u>	<u>Qualifier</u>	<u>TextBody</u>
2406244-01	Total Dissolved Solids [TDS]	Total Dissolved Solids	B3	Target analyte detected in method blank or continuing calibration blank. Reporting limit elevated to account for blank result.
2406244-02	Total Dissolved Solids [TDS]	Total Dissolved Solids	B3	Target analyte detected in method blank or continuing calibration blank. Reporting limit elevated to account for blank result.
B241805-BLK1	Total Dissolved Solids [TDS]	Total Dissolved Solids	B3	Target analyte detected in method blank or continuing calibration blank. Reporting limit elevated to account for blank result.
B241805-SRM1	Total Dissolved Solids [TDS]	Total Dissolved Solids	B3	Target analyte detected in method blank or continuing calibration blank. Reporting limit elevated to account for blank result.

Green Analytical Laboratories

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

Veronica Wells, Project Manager

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Note: Write-OutTM or similar products cannot be used on the Chain of Custody

[illegible]

Project Information

Table of Contents
Printed: 06/20/2024 8:43 am

GCC Energy, LLC

6473 CR 120
Hesperus, CO 81326
Laboratory PM: Veronica Wells

GCC Energy

Phone: (970) 385-4528
Fax: (970) 385-4638

Project Name: GCC GW Baseline
Project Number:
Client PM: Michael Dickson
Comments: All Metals Are Field Filtered. Send Out PRESERVED bottles per Landon. 11-01-18

Analysis	Comment
----------	---------

Alkalinity, Total
Aluminum Dissolved by ICP
Arsenic Dissolved by ICPMS
CAB
Cadmium Dissolved by ICPMS
Chloride [IC]
Copper Dissolved by ICPMS
Fluoride [IC]
Hardness [DISSOLVED]
Iron Dissolved by ICP
Lead Dissolved by ICPMS
Manganese Dissolved by ICPMS
Mercury Dissolved by CVAFS
Molybdenum Dissolved by ICPMS
Nitrate/Nitrite [LACHAT]
pH
Potassium Dissolved by ICP
Selenium Dissolved by ICPMS
Silica Dissolved by ICP
Sodium Dissolved by ICP
Sulfate [IC]
Total Dissolved Solids [TDS]
Total Organic Carbon [TOC]
Uranium Dissolved by ICPMS
Zinc Dissolved by ICPMS

Hardness [DISSOLVED] subanalyses:

Calcium Dissolved by ICP
Magnesium Dissolved by ICP

Silica Dissolved by ICP subanalyses:

Silicon Dissolved by ICP

All metals are field filtered. Send out preserved bottles



SAMPLE CONDITION RECEIPT FORM

Client Name: GCC EnergyWork Order # 2406-244Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Kangaroo ☐ Third Party ☐ OtherCustody Seals on Box/Cooler Present: ☐ Yes ☒ NoSeals Intact: ☐ Yes ☐ NoThermometer Used: #7 Samples on ice, cooling process has begun: ☒ Yes ☐ NoType of Ice: ☒ Wet ☐ Blue ☐ NoneCooler Temp: Observed Temp: 3.4 °C Correction Factor: 0 °C Final Temp: 3.4 °C

* Temp should be above freezing to 6°C

Date/Initials of person
examining contents: 6-20-24
CDNLabeled by initials: 6-20-24
MPN
(if different than above)

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

01 July 2024

Michael Dickson
GCC Energy, LLC
6473 CR 120
Hesperus, CO 81326
RE: [none]

Enclosed are the results of analyses for samples received by the laboratory on 06/20/24 08:05. 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: TX-C24-00019

Our affiliate laboratory, Cardinal Laboratories, is also NELAP accredited through the Texas Commission on Environmental Quality for a variety of organic constituents in drinking water, non-potable water and solid matrices. Cardinal is also accredited for regulated VOCs, TTHM, and HAA-5 in drinking water through the Colorado Department of Public Health and Environment and EPA region 8. TNI Certificate Number: TX-C24-00112

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GCC Energy, LLC
 6473 CR 120
 Hesperus CO, 81326

Project: GCC GW Baseline
 Project Name / Number: [none]
 Project Manager: Michael Dickson

Reported:
 07/01/24 16:34

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW-5-C	2406245-01	Water	06/19/24 12:47	06/20/24 08:05	
MW-5-MI	2406245-02	Water	06/19/24 12:22	06/20/24 08:05	

Green Analytical Laboratories

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

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/01/24 16:34

MW-5-C

2406245-01 (Ground Water)

Sampled Date: 06/19/24 12:47

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

Alkalinity, Total as CaCO ₃ *	1790	10.0	8.00	mg/L	5	06/27/24 11:30	2320 B		HIC
Alkalinity, Hydroxide as CaCO ₃ *	<10.0	10.0	8.00	mg/L	5	06/27/24 11:30	2320 B		HIC
Alkalinity, Carbonate as CaCO ₃ *	<10.0	10.0	8.00	mg/L	5	06/27/24 11:30	2320 B		HIC
Alkalinity, Bicarbonate as CaCO ₃ *	1790	10.0	8.00	mg/L	5	06/27/24 11:30	2320 B		HIC
Cation/Anion Balance	-3.42	-100	-100	%	1	07/01/24 15:33	Calculation		JDA
Chloride*	<5.00	5.00	0.278	mg/L	5	06/27/24 16:56	EPA300.0		AWG
Fluoride*	2.46	0.500	0.0486	mg/L	5	06/27/24 16:56	EPA300.0		AWG
Nitrate/Nitrite as N*	<0.020	0.020	0.013	mg/L as N	1	06/27/24 12:22	EPA353.2		CAI
pH*	7.67			pH Units	1	06/20/24 16:15	EPA150.1		HIC
pH Temperature, degrees C	19.4			pH Units	1	06/20/24 16:15	EPA150.1		HIC
Sulfate*	503	5.00	0.620	mg/L	5	06/27/24 16:56	EPA300.0		AWG
Total Dissolved Solids*	2550	20.0		mg/L	1	06/26/24 13:33	EPA160.1	B3	HIC
Total Organic Carbon*	2.46	0.500	0.290	mg/L	1	06/28/24 17:57	5310C		AES

Dissolved Metals by ICP

Aluminum*	<0.250	0.250	0.111	mg/L	5	06/28/24 10:55	EPA200.7		AWG
Calcium*	8.72	0.500	0.090	mg/L	5	06/28/24 10:55	EPA200.7		AWG
Hardness as CaCO ₃	34.8	3.31	0.848	mg/L	5	06/28/24 10:55	2340 B		AWG
Iron*	<0.250	0.250	0.099	mg/L	5	06/28/24 10:55	EPA200.7		AWG
Magnesium*	3.16	0.500	0.152	mg/L	5	06/28/24 10:55	EPA200.7		AWG
Potassium*	<5.00	5.00	0.374	mg/L	5	06/28/24 10:55	EPA200.7		AWG
Silica (SiO ₂)	6.61	5.35	0.499	mg/L	5	06/28/24 10:55	Calculation		AWG
Silicon	3.09	2.50	0.233	mg/L	5	06/28/24 10:55	EPA200.7		AWG
Sodium*	971	5.00	1.15	mg/L	5	06/28/24 10:55	EPA200.7		AWG

Dissolved Metals by ICPMS

Arsenic*	<0.0050	0.0050	0.0031	mg/L	5	06/26/24 12:29	EPA200.8		JDA
Cadmium*	<0.0025	0.0025	0.0003	mg/L	5	06/26/24 12:29	EPA200.8		JDA
Copper*	0.0411	0.0050	0.0004	mg/L	5	06/26/24 12:29	EPA200.8		JDA
Lead*	<0.0025	0.0025	0.0006	mg/L	5	06/26/24 12:29	EPA200.8		JDA
Manganese*	0.0120	0.0025	0.0009	mg/L	5	06/26/24 12:29	EPA200.8		JDA
Molybdenum*	<0.0025	0.0025	0.0003	mg/L	5	06/26/24 12:29	EPA200.8		JDA
Selenium*	<0.0050	0.0050	0.0014	mg/L	5	06/26/24 12:29	EPA200.8		JDA

Green Analytical Laboratories

Veronica J Wells

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/01/24 16:34

MW-5-C

2406245-01 (Ground Water)

Sampled Date: 06/19/24 12:47

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Dissolved Metals by ICPMS

Uranium	<0.0025	0.0025	0.0002	mg/L	5	06/26/24 12:29	EPA200.8		JDA
Zinc*	<0.0100	0.0100	0.0030	mg/L	5	06/26/24 12:29	EPA200.8		JDA

Dissolved Mercury by CVAFS

Mercury	<100	100	19.6	ng/L	1	06/26/24 11:31	EPA245.7		CAI
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Green Analytical Laboratories

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

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/01/24 16:34

MW-5-MI

2406245-02 (Ground Water)

Sampled Date: 06/19/24 12:22

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

Alkalinity, Total as CaCO ₃ *	965	10.0	8.00	mg/L	5	06/27/24 11:30	2320 B		HIC
Alkalinity, Hydroxide as CaCO ₃ *	<10.0	10.0	8.00	mg/L	5	06/27/24 11:30	2320 B		HIC
Alkalinity, Carbonate as CaCO ₃ *	70.0	10.0	8.00	mg/L	5	06/27/24 11:30	2320 B		HIC
Alkalinity, Bicarbonate as CaCO ₃ *	895	10.0	8.00	mg/L	5	06/27/24 11:30	2320 B		HIC
Cation/Anion Balance	-2.68	-100	-100	%	1	07/01/24 15:33	Calculation		JDA
Chloride*	5.43	2.00	0.111	mg/L	2	06/27/24 17:36	EPA300.0		AWG
Fluoride*	0.284	0.200	0.0194	mg/L	2	06/27/24 17:36	EPA300.0		AWG
Nitrate/Nitrite as N*	<0.020	0.020	0.013	mg/L as N	1	06/27/24 12:23	EPA353.2		CAI
pH*	8.28			pH Units	1	06/20/24 16:15	EPA150.1		HIC
pH Temperature, degrees C	19.3			pH Units	1	06/20/24 16:15	EPA150.1		HIC
Sulfate*	7.16	2.00	0.248	mg/L	2	06/27/24 17:36	EPA300.0		AWG
Total Dissolved Solids*	1010	20.0		mg/L	1	06/26/24 13:35	EPA160.1	B3	HIC
Total Organic Carbon*	2.65	0.500	0.290	mg/L	1	06/28/24 18:16	5310C		AES

Dissolved Metals by ICP

Aluminum*	<0.100	0.100	0.044	mg/L	2	06/28/24 10:57	EPA200.7		AWG
Calcium*	2.29	0.200	0.036	mg/L	2	06/28/24 10:57	EPA200.7		AWG
Hardness as CaCO ₃	8.85	1.32	0.339	mg/L	2	06/28/24 10:57	2340 B		AWG
Iron*	<0.100	0.100	0.040	mg/L	2	06/28/24 10:57	EPA200.7		AWG
Magnesium*	0.762	0.200	0.061	mg/L	2	06/28/24 10:57	EPA200.7		AWG
Potassium*	<2.00	2.00	0.150	mg/L	2	06/28/24 10:57	EPA200.7		AWG
Silica (SiO ₂)	7.54	2.14	0.199	mg/L	2	06/28/24 10:57	Calculation		AWG
Silicon	3.53	1.00	0.093	mg/L	2	06/28/24 10:57	EPA200.7		AWG
Sodium*	411	2.00	0.460	mg/L	2	06/28/24 10:57	EPA200.7		AWG

Dissolved Metals by ICPMS

Arsenic*	0.0109	0.0020	0.0012	mg/L	2	06/26/24 12:34	EPA200.8		JDA
Cadmium*	<0.0010	0.0010	0.0001	mg/L	2	06/26/24 12:34	EPA200.8		JDA
Copper*	0.0181	0.0020	0.0002	mg/L	2	06/26/24 12:34	EPA200.8		JDA
Lead*	<0.0010	0.0010	0.0002	mg/L	2	07/01/24 14:48	EPA200.8		JDA
Manganese*	0.0230	0.0010	0.0004	mg/L	2	06/26/24 12:34	EPA200.8		JDA
Molybdenum*	0.0023	0.0010	0.0001	mg/L	2	06/26/24 12:34	EPA200.8		JDA
Selenium*	<0.0020	0.0020	0.0005	mg/L	2	06/26/24 12:34	EPA200.8		JDA

Green Analytical Laboratories

Veronica J Wells

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/01/24 16:34

MW-5-MI

2406245-02 (Ground Water)

Sampled Date: 06/19/24 12:22

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Dissolved Metals by ICPMS

Uranium	0.0068	0.0010	0.00008	mg/L	2	07/01/24 14:48	EPA200.8		JDA
Zinc*	0.0684	0.0040	0.0012	mg/L	2	06/26/24 12:34	EPA200.8		JDA

Dissolved Mercury by CVAFS

Mercury	<100	100	19.6	ng/L	1	06/26/24 12:00	EPA245.7		CAI
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Green Analytical Laboratories

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

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/01/24 16:34

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B241748 - General Prep - Wet Chem										
Reference (B241748-SRM1)				Prepared & Analyzed: 06/20/24						
pH	7.00		pH Units	7.00		100	98.57-101.42			
Batch B241787 - General Prep - Wet Chem										
Blank (B241787-BLK1)				Prepared: 06/25/24 Analyzed: 06/27/24						
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 (B241787-BS1)				Prepared: 06/25/24 Analyzed: 06/27/24						
Alkalinity, Total as CaCO ₃	103	10.0	mg/L	100		103	85-115			
LCS Dup (B241787-BSD1)				Prepared: 06/25/24 Analyzed: 06/27/24						
Alkalinity, Total as CaCO ₃	106	10.0	mg/L	100		106	85-115	2.87	20	
Reference (B241787-SRM1)				Prepared: 06/25/24 Analyzed: 06/27/24						
Alkalinity, Total as CaCO ₃	104	10.0	mg/L	100		104	85-115			
Batch B241805 - General Prep - Wet Chem										
Blank (B241805-BLK1)				Prepared & Analyzed: 06/26/24						
Total Dissolved Solids	ND	10.0	mg/L							B3
Reference (B241805-SRM1)				Prepared & Analyzed: 06/26/24						
Total Dissolved Solids	415	10.0	mg/L	400		104	85-115			B3
Batch B241815 - IC- Ion Chromatograph										
Blank (B241815-BLK1)				Prepared & Analyzed: 06/27/24						
Chloride	ND	1.00	mg/L							
Fluoride	ND	0.100	mg/L							
Sulfate	ND	1.00	mg/L							
LCS (B241815-BS1)				Prepared & Analyzed: 06/27/24						
Chloride	25.0	1.00	mg/L	25.0		100	90-110			
Fluoride	2.57	0.100	mg/L	2.50		103	90-110			
Sulfate	24.7	1.00	mg/L	25.0		98.7	90-110			
LCS Dup (B241815-BSD1)				Prepared & Analyzed: 06/27/24						

Green Analytical Laboratories

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/01/24 16:34

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 B241815 - IC- Ion Chromatograph (Continued)

LCS Dup (B241815-BSD1) (Continued)

Prepared & Analyzed: 06/27/24

Chloride	25.0	1.00	mg/L	25.0		99.8	90-110	0.316	20	
Fluoride	2.56	0.100	mg/L	2.50		102	90-110	0.234	20	
Sulfate	24.6	1.00	mg/L	25.0		98.5	90-110	0.247	20	

Batch B241817 - Lachat

Blank (B241817-BLK1)

Prepared & Analyzed: 06/27/24

Nitrate/Nitrite as N	ND	0.020	mg/L as N							
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LCS (B241817-BS1)

Prepared & Analyzed: 06/27/24

Nitrate/Nitrite as N	0.914	0.020	mg/L as N	1.00		91.4	90-110			
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LCS Dup (B241817-BSD1)

Prepared & Analyzed: 06/27/24

Nitrate/Nitrite as N	0.919	0.020	mg/L as N	1.00		91.9	90-110	0.524	20	
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Batch B241838 - General Prep - Wet Chem

Blank (B241838-BLK1)

Prepared & Analyzed: 06/28/24

Total Organic Carbon	ND	0.500	mg/L							
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LCS (B241838-BS1)

Prepared & Analyzed: 06/28/24

Total Organic Carbon	9.77	0.500	mg/L	10.0		97.7	85-115			
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LCS Dup (B241838-BSD1)

Prepared & Analyzed: 06/28/24

Total Organic Carbon	9.57	0.500	mg/L	10.0		95.7	85-115	2.01	20	
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Green Analytical Laboratories

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/01/24 16:34

Dissolved Metals by ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B241801 - Dissolved ICP

Blank (B241801-BLK1)

Prepared: 06/26/24 Analyzed: 06/28/24

Aluminum	ND	0.050	mg/L
Calcium	ND	0.100	mg/L
Iron	ND	0.050	mg/L
Magnesium	ND	0.100	mg/L
Potassium	ND	1.00	mg/L
Silicon	ND	0.500	mg/L
Sodium	ND	1.00	mg/L

LCS (B241801-BS1)

Prepared: 06/26/24 Analyzed: 06/28/24

Aluminum	4.04	0.050	mg/L	4.00	101	85-115
Calcium	4.11	0.100	mg/L	4.00	103	85-115
Iron	4.20	0.050	mg/L	4.00	105	85-115
Magnesium	20.4	0.100	mg/L	20.0	102	85-115
Potassium	8.15	1.00	mg/L	8.00	102	85-115
Silicon	4.06	0.500	mg/L	4.00	101	85-115
Sodium	3.30	1.00	mg/L	3.24	102	85-115

LCS Dup (B241801-BSD1)

Prepared: 06/26/24 Analyzed: 06/28/24

Aluminum	4.02	0.050	mg/L	4.00	101	85-115	0.301	20
Calcium	4.08	0.100	mg/L	4.00	102	85-115	0.808	20
Iron	4.15	0.050	mg/L	4.00	104	85-115	1.18	20
Magnesium	20.4	0.100	mg/L	20.0	102	85-115	0.141	20
Potassium	8.15	1.00	mg/L	8.00	102	85-115	0.0421	20
Silicon	4.00	0.500	mg/L	4.00	100	85-115	1.40	20
Sodium	3.28	1.00	mg/L	3.24	101	85-115	0.704	20

Green Analytical Laboratories

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/01/24 16:34

Dissolved Metals by ICPMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B241772 - Dissolved ICPMS

Blank (B241772-BLK1)

Prepared: 06/24/24 Analyzed: 06/26/24

Arsenic	ND	0.0010	mg/L
Cadmium	ND	0.0005	mg/L
Copper	ND	0.0010	mg/L
Lead	ND	0.0005	mg/L
Manganese	ND	0.0005	mg/L
Molybdenum	ND	0.0005	mg/L
Selenium	ND	0.0010	mg/L
Uranium	ND	0.0005	mg/L
Zinc	ND	0.0020	mg/L

LCS (B241772-BS1)

Prepared: 06/24/24 Analyzed: 06/26/24

Arsenic	0.0571	0.0010	mg/L	0.0500	114	85-115
Cadmium	0.0567	0.0005	mg/L	0.0500	113	85-115
Copper	0.0566	0.0010	mg/L	0.0500	113	85-115
Lead	0.0562	0.0005	mg/L	0.0500	112	85-115
Manganese	0.0565	0.0005	mg/L	0.0500	113	85-115
Molybdenum	0.0557	0.0005	mg/L	0.0500	111	85-115
Selenium	0.276	0.0010	mg/L	0.250	111	85-115
Uranium	0.0563	0.0005	mg/L	0.0500	113	85-115
Zinc	0.0551	0.0020	mg/L	0.0500	110	85-115

LCS Dup (B241772-BSD1)

Prepared: 06/24/24 Analyzed: 06/26/24

Arsenic	0.0566	0.0010	mg/L	0.0500	113	85-115	0.818	20
Cadmium	0.0562	0.0005	mg/L	0.0500	112	85-115	0.936	20
Copper	0.0564	0.0010	mg/L	0.0500	113	85-115	0.229	20
Lead	0.0567	0.0005	mg/L	0.0500	113	85-115	0.777	20
Manganese	0.0569	0.0005	mg/L	0.0500	114	85-115	0.586	20
Molybdenum	0.0567	0.0005	mg/L	0.0500	113	85-115	1.79	20
Selenium	0.278	0.0010	mg/L	0.250	111	85-115	0.645	20
Uranium	0.0564	0.0005	mg/L	0.0500	113	85-115	0.178	20
Zinc	0.0555	0.0020	mg/L	0.0500	111	85-115	0.888	20

Green Analytical Laboratories

Veronica J. Wells

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/01/24 16:34

Dissolved Mercury by CVAFS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B241759 - EPA 245.7

Blank (B241759-BLK1)

Prepared: 06/24/24 Analyzed: 06/26/24

Mercury	ND	100	ng/L
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LCS (B241759-BS1)

Prepared: 06/24/24 Analyzed: 06/26/24

Mercury	923	100	ng/L	1000	92.3	76-113
---------	-----	-----	------	------	------	--------

LCS Dup (B241759-BSD1)

Prepared: 06/24/24 Analyzed: 06/26/24

Mercury	887	100	ng/L	1000	88.7	76-113	3.94	20
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Notes and Definitions

B3	Target analyte detected in method blank or continuing calibration blank. Reporting limit elevated to account for blank result.
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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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/01/24 16:34

Qualifier Summary

<u>LabNumber</u>	<u>Analysis</u>	<u>Analyte</u>	<u>Qualifier</u>	<u>TextBody</u>
2406245-01	Total Dissolved Solids [TDS]	Total Dissolved Solids	B3	Target analyte detected in method blank or continuing calibration blank. Reporting limit elevated to account for blank result.
2406245-02	Total Dissolved Solids [TDS]	Total Dissolved Solids	B3	Target analyte detected in method blank or continuing calibration blank. Reporting limit elevated to account for blank result.
B241805-BLK1	Total Dissolved Solids [TDS]	Total Dissolved Solids	B3	Target analyte detected in method blank or continuing calibration blank. Reporting limit elevated to account for blank result.
B241805-SRM1	Total Dissolved Solids [TDS]	Total Dissolved Solids	B3	Target analyte detected in method blank or continuing calibration blank. Reporting limit elevated to account for blank result.

Green Analytical Laboratories

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

Veronica Wells, Project Manager

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Note: Wite-OutTM or similar products cannot be used on the Chain of Custody

FORM-006, R 8.0

[illegible]

Project Information

Table of Contents
Printed: 06/20/2024 8:43 am

GCC Energy, LLC

6473 CR 120
Hesperus, CO 81326
Laboratory PM: Veronica Wells

GCC Energy

Phone: (970) 385-4528
Fax: (970) 385-4638

Project Name: GCC GW Baseline
Project Number:
Client PM: Michael Dickson
Comments: All Metals Are Field Filtered. Send Out PRESERVED bottles per Landon. 11-01-18

Analysis	Comment
Alkalinity, Total	
Aluminum Dissolved by ICP	
Arsenic Dissolved by ICPMS	
CAB	
Cadmium Dissolved by ICPMS	
Chloride [IC]	
Copper Dissolved by ICPMS	
Fluoride [IC]	
Hardness [DISSOLVED]	
Iron Dissolved by ICP	
Lead Dissolved by ICPMS	
Manganese Dissolved by ICPMS	
Mercury Dissolved by CVAFS	
Molybdenum Dissolved by ICPMS	
Nitrate/Nitrite [LACHAT]	
pH	
Potassium Dissolved by ICP	
Selenium Dissolved by ICPMS	
Silica Dissolved by ICP	
Sodium Dissolved by ICP	
Sulfate [IC]	
Total Dissolved Solids [TDS]	
Total Organic Carbon [TOC]	
Uranium Dissolved by ICPMS	
Zinc Dissolved by ICPMS	
Hardness [DISSOLVED] subanalyses:	
Calcium Dissolved by ICP	
Magnesium Dissolved by ICP	
Silica Dissolved by ICP subanalyses:	
Silicon Dissolved by ICP	

All metals are field filtered. Send out preserved bottles



SAMPLE CONDITION RECEIPT FORM

Client Name: GCC EnergyWork Order # 2406-245Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Kangaroo ☐ Third Party ☐ OtherCustody 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: 3.4 °C Correction Factor: 0 °C Final Temp: 3.4 °C

* Temp should be above freezing to 6°C

Date/Initials of person examining contents: 6.20.24
MDNLabeled by initials: 6.20.24
(If different than above)

Chain of Custody Present:	☒ Yes ☐ No	1.
Chain of Custody Filled Out:	☒ Yes ☐ No	2.
Chain of Custody Relinquished:	☒ Yes ☐ No	3.
Sampler Name and Signature on COC:	☒ Yes ☐ No	4.
Samples arrived within hold time:	☒ Yes ☐ No	5.
Short Hold Time Analysis (<72hr):	☒ Yes ☐ No	6. <u>PH</u>
Rush Turn Around Time Requested:	☐ Yes ☒ No	7.
Sufficient Volume:	☒ Yes ☐ No	8.
Correct Containers Used:	☒ Yes ☐ No	9.
Containers Intact:	☒ Yes ☐ No	10.
Dissolved Testing Needed:	☒ Yes ☐ No	11. <u>Diss</u>
Field Filtered: ☒ Yes ☐ No		
Sample Labels match COC: -Includes Date/Time/ID	☒ Yes ☐ No	12. <u>Some info on FOC vials rubbed -FA but retrieved from same bag -01</u>
Matrix:	☒ WT ☐ SL ☐ OT	
Trip Blank Present:	☐ Yes ☐ No ☒ N/A	13.
Trip Blank Custody Seals Present:	☐ Yes ☐ No ☒ 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

02 July 2024

Michael Dickson
GCC Energy, LLC
6473 CR 120
Hesperus, CO 81326
RE: [none]

Enclosed are the results of analyses for samples received by the laboratory on 06/21/24 08:15. 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: TX-C24-00019

Our affiliate laboratory, Cardinal Laboratories, is also NELAP accredited through the Texas Commission on Environmental Quality for a variety of organic constituents in drinking water, non-potable water and solid matrices. Cardinal is also accredited for regulated VOCs, TTHM, and HAA-5 in drinking water through the Colorado Department of Public Health and Environment and EPA region 8. TNI Certificate Number: TX-C24-00112

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GCC Energy, LLC
 6473 CR 120
 Hesperus CO, 81326

Project: GCC GW Baseline
 Project Name / Number: [none]
 Project Manager: Michael Dickson

Reported:
 07/02/24 17:02

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
WELL #1 UP GRADIENT	2406268-01	Water	06/20/24 18:12	06/21/24 08:15	
WELL #2 DOWN GRADIENT	2406268-02	Water	06/20/24 15:09	06/21/24 08:15	

Green Analytical Laboratories

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

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/02/24 17:02

WELL #1 UP GRADIENT

2406268-01 (Ground Water)

Sampled Date: 06/20/24 18:12

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

Alkalinity, Total as CaCO ₃ *	625	10.0	8.00	mg/L	5	06/27/24 15:30	2320 B		HIC
Alkalinity, Hydroxide as CaCO ₃ *	<10.0	10.0	8.00	mg/L	5	06/27/24 15:30	2320 B		HIC
Alkalinity, Carbonate as CaCO ₃ *	<10.0	10.0	8.00	mg/L	5	06/27/24 15:30	2320 B		HIC
Alkalinity, Bicarbonate as CaCO ₃ *	625	10.0	8.00	mg/L	5	06/27/24 15:30	2320 B		HIC
Cation/Anion Balance	-0.880	-100	-100	%	1	07/01/24 15:33	Calculation		JDA
Chloride*	5.38	2.00	0.111	mg/L	2	06/28/24 19:49	EPA300.0		AWG
Fluoride*	0.352	0.200	0.0194	mg/L	2	06/28/24 19:49	EPA300.0		AWG
Nitrate/Nitrite as N*	<0.020	0.020	0.013	mg/L as N	1	06/27/24 12:54	EPA353.2		CAI
pH*	7.52			pH Units	1	06/21/24 10:25	EPA150.1		HIC
pH Temperature, degrees C	24.4			pH Units	1	06/21/24 10:25	EPA150.1		HIC
Sulfate*	108	2.00	0.248	mg/L	2	06/28/24 19:49	EPA300.0		AWG
Total Dissolved Solids*	750	20.0		mg/L	1	06/26/24 13:49	EPA160.1	B3	HIC
Total Organic Carbon*	3.46	0.500	0.290	mg/L	1	06/28/24 19:55	5310C		AES

Dissolved Metals by ICP

Aluminum*	<0.100	0.100	0.044	mg/L	2	06/28/24 12:25	EPA200.7		AWG
Calcium*	58.9	0.200	0.036	mg/L	2	06/28/24 12:25	EPA200.7		AWG
Hardness as CaCO ₃	304	1.32	0.339	mg/L	2	06/28/24 12:25	2340 B		AWG
Iron*	1.65	0.100	0.040	mg/L	2	06/28/24 12:25	EPA200.7		AWG
Magnesium*	38.1	0.200	0.061	mg/L	2	06/28/24 12:25	EPA200.7		AWG
Potassium*	3.00	2.00	0.150	mg/L	2	06/28/24 12:25	EPA200.7		AWG
Silica (SiO ₂)	13.3	2.14	0.199	mg/L	2	06/28/24 12:25	Calculation		AWG
Silicon	6.22	1.00	0.093	mg/L	2	06/28/24 12:25	EPA200.7		AWG
Sodium*	173	2.00	0.460	mg/L	2	06/28/24 12:25	EPA200.7		AWG

Dissolved Metals by ICPMS

Arsenic*	<0.0020	0.0020	0.0012	mg/L	2	06/26/24 12:47	EPA200.8		JDA
Cadmium*	<0.0010	0.0010	0.0001	mg/L	2	06/26/24 12:47	EPA200.8		JDA
Copper*	0.0067	0.0020	0.0002	mg/L	2	06/26/24 12:47	EPA200.8		JDA
Lead*	<0.0100	0.0100	0.0024	mg/L	20	07/01/24 14:42	EPA200.8	IS1	JDA
Manganese*	0.451	0.0010	0.0004	mg/L	2	06/26/24 12:47	EPA200.8		JDA
Molybdenum*	<0.0010	0.0010	0.0001	mg/L	2	06/26/24 12:47	EPA200.8		JDA
Selenium*	0.0640	0.0020	0.0005	mg/L	2	06/26/24 12:47	EPA200.8		JDA

Green Analytical Laboratories

Veronica J Wells

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/02/24 17:02

WELL #1 UP GRADIENT

2406268-01 (Ground Water)

Sampled Date: 06/20/24 18:12

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Dissolved Metals by ICPMS

Uranium	<0.0100	0.0100	0.0008	mg/L	20	07/01/24 14:42	EPA200.8	IS1	JDA
Zinc*	<0.0040	0.0040	0.0012	mg/L	2	06/26/24 12:47	EPA200.8		JDA

Dissolved Mercury by CVAFS

Mercury	<100	100	19.6	ng/L	1	07/01/24 11:14	EPA245.7		CAI
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Green Analytical Laboratories

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

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/02/24 17:02

WELL #2 DOWN GRADIENT

2406268-02 (Ground Water)

Sampled Date: 06/20/24 15:09

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

Alkalinity, Total as CaCO ₃ *	385	10.0	8.00	mg/L	5	06/27/24 15:30	2320 B		HIC
Alkalinity, Hydroxide as CaCO ₃ *	<10.0	10.0	8.00	mg/L	5	06/27/24 15:30	2320 B		HIC
Alkalinity, Carbonate as CaCO ₃ *	<10.0	10.0	8.00	mg/L	5	06/27/24 15:30	2320 B		HIC
Alkalinity, Bicarbonate as CaCO ₃ *	385	10.0	8.00	mg/L	5	06/27/24 15:30	2320 B		HIC
Cation/Anion Balance	-0.980	-100	-100	%	1	07/01/24 15:33	Calculation		JDA
Chloride*	44.1	2.00	0.111	mg/L	2	07/01/24 15:47	EPA300.0		AWG
Fluoride*	0.236	0.200	0.0194	mg/L	2	07/01/24 15:47	EPA300.0		AWG
Nitrate/Nitrite as N*	<0.020	0.020	0.013	mg/L as N	1	06/27/24 12:55	EPA353.2		CAI
pH*	7.51			pH Units	1	06/21/24 10:25	EPA150.1		HIC
pH Temperature, degrees C	24.2			pH Units	1	06/21/24 10:25	EPA150.1		HIC
Sulfate*	199	2.00	0.248	mg/L	2	07/01/24 15:47	EPA300.0		AWG
Total Dissolved Solids*	670	20.0		mg/L	1	06/26/24 13:51	EPA160.1	B3	HIC
Total Organic Carbon*	1.71	0.500	0.290	mg/L	1	06/28/24 20:14	5310C		AES

Dissolved Metals by ICP

Aluminum*	<0.100	0.100	0.044	mg/L	2	06/28/24 12:30	EPA200.7		AWG
Calcium*	80.4	0.200	0.036	mg/L	2	06/28/24 12:30	EPA200.7		AWG
Hardness as CaCO ₃	540	1.32	0.339	mg/L	2	06/28/24 12:30	2340 B		AWG
Iron*	<0.100	0.100	0.040	mg/L	2	06/28/24 12:30	EPA200.7		AWG
Magnesium*	82.3	0.200	0.061	mg/L	2	06/28/24 12:30	EPA200.7		AWG
Potassium*	2.07	2.00	0.150	mg/L	2	06/28/24 12:30	EPA200.7		AWG
Silica (SiO ₂)	11.0	2.14	0.199	mg/L	2	06/28/24 12:30	Calculation		AWG
Silicon	5.12	1.00	0.093	mg/L	2	06/28/24 12:30	EPA200.7		AWG
Sodium*	28.6	2.00	0.460	mg/L	2	06/28/24 12:30	EPA200.7		AWG

Dissolved Metals by ICPMS

Arsenic*	<0.0020	0.0020	0.0012	mg/L	2	06/26/24 12:49	EPA200.8		JDA
Cadmium*	<0.0010	0.0010	0.0001	mg/L	2	06/26/24 12:49	EPA200.8		JDA
Copper*	<0.0020	0.0020	0.0002	mg/L	2	06/26/24 12:49	EPA200.8		JDA
Lead*	<0.0010	0.0010	0.0002	mg/L	2	06/26/24 15:16	EPA200.8		JDA
Manganese*	0.440	0.0010	0.0004	mg/L	2	06/26/24 12:49	EPA200.8		JDA
Molybdenum*	0.0032	0.0010	0.0001	mg/L	2	06/26/24 12:49	EPA200.8		JDA
Selenium*	0.0082	0.0020	0.0005	mg/L	2	06/26/24 12:49	EPA200.8		JDA

Green Analytical Laboratories

Veronica J Wells

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/02/24 17:02

WELL #2 DOWN GRADIENT

2406268-02 (Ground Water)

Sampled Date: 06/20/24 15:09

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Dissolved Metals by ICPMS

Uranium	0.0018	0.0010	0.00008	mg/L	2	06/26/24 15:16	EPA200.8		JDA
Zinc*	<0.0040	0.0040	0.0012	mg/L	2	06/26/24 12:49	EPA200.8		JDA

Dissolved Mercury by CVAFS

Mercury	<100	100	19.6	ng/L	1	07/01/24 11:17	EPA245.7		CAI
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Green Analytical Laboratories

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

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/02/24 17:02

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 B241768 - General Prep - Wet Chem

Reference (B241768-SRM1)

Prepared & Analyzed: 06/21/24

pH	7.01		pH Units	7.00		100	98.57-101.42			
----	------	--	----------	------	--	-----	--------------	--	--	--

Batch B241788 - General Prep - Wet Chem

Blank (B241788-BLK1)

Prepared: 06/25/24 Analyzed: 06/27/24

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 (B241788-BS1)

Prepared: 06/25/24 Analyzed: 06/27/24

Alkalinity, Total as CaCO ₃	106	10.0	mg/L	100		106	85-115			
--	-----	------	------	-----	--	-----	--------	--	--	--

LCS Dup (B241788-BSD1)

Prepared: 06/25/24 Analyzed: 06/27/24

Alkalinity, Total as CaCO ₃	107	10.0	mg/L	100		107	85-115	0.939	20	
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Reference (B241788-SRM1)

Prepared: 06/25/24 Analyzed: 06/27/24

Alkalinity, Total as CaCO ₃	103	10.0	mg/L	100		103	85-115			
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Batch B241805 - General Prep - Wet Chem

Blank (B241805-BLK1)

Prepared & Analyzed: 06/26/24

Total Dissolved Solids	ND	10.0	mg/L							B3
------------------------	----	------	------	--	--	--	--	--	--	----

Reference (B241805-SRM1)

Prepared & Analyzed: 06/26/24

Total Dissolved Solids	415	10.0	mg/L	400		104	85-115			B3
------------------------	-----	------	------	-----	--	-----	--------	--	--	----

Batch B241818 - Lachat

Blank (B241818-BLK1)

Prepared & Analyzed: 06/27/24

Nitrate/Nitrite as N	ND	0.020	mg/L as N							
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LCS (B241818-BS1)

Prepared & Analyzed: 06/27/24

Nitrate/Nitrite as N	0.910	0.020	mg/L as N	1.00		91.0	90-110			
----------------------	-------	-------	-----------	------	--	------	--------	--	--	--

LCS Dup (B241818-BSD1)

Prepared & Analyzed: 06/27/24

Nitrate/Nitrite as N	0.918	0.020	mg/L as N	1.00		91.8	90-110	0.864	20	
----------------------	-------	-------	-----------	------	--	------	--------	-------	----	--

Batch B241835 - IC- Ion Chromatograph

Blank (B241835-BLK1)

Prepared & Analyzed: 06/28/24

Green Analytical Laboratories

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/02/24 17:02

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 B241835 - IC- Ion Chromatograph (Continued)

Blank (B241835-BLK1) (Continued)

Prepared & Analyzed: 06/28/24

Chloride	ND	1.00	mg/L							
Fluoride	ND	0.100	mg/L							
Sulfate	ND	1.00	mg/L							

LCS (B241835-BS1)

Prepared & Analyzed: 06/28/24

Chloride	23.8	1.00	mg/L	25.0		95.4	90-110			
Fluoride	2.47	0.100	mg/L	2.50		98.7	90-110			
Sulfate	23.5	1.00	mg/L	25.0		93.9	90-110			

LCS Dup (B241835-BSD1)

Prepared & Analyzed: 06/28/24

Chloride	25.1	1.00	mg/L	25.0		100	90-110	5.08	20	
Fluoride	2.60	0.100	mg/L	2.50		104	90-110	5.06	20	
Sulfate	24.7	1.00	mg/L	25.0		98.9	90-110	5.24	20	

Batch B241838 - General Prep - Wet Chem

Blank (B241838-BLK1)

Prepared & Analyzed: 06/28/24

Total Organic Carbon	ND	0.500	mg/L							
----------------------	----	-------	------	--	--	--	--	--	--	--

LCS (B241838-BS1)

Prepared & Analyzed: 06/28/24

Total Organic Carbon	9.77	0.500	mg/L	10.0		97.7	85-115			
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LCS Dup (B241838-BSD1)

Prepared & Analyzed: 06/28/24

Total Organic Carbon	9.57	0.500	mg/L	10.0		95.7	85-115	2.01	20	
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Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/02/24 17:02

Dissolved Metals by ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B241803 - Dissolved ICP

Blank (B241803-BLK1)

Prepared: 06/26/24 Analyzed: 06/28/24

Aluminum	ND	0.050	mg/L
Calcium	ND	0.100	mg/L
Iron	ND	0.050	mg/L
Magnesium	ND	0.100	mg/L
Potassium	ND	1.00	mg/L
Silicon	ND	0.500	mg/L
Sodium	ND	1.00	mg/L

LCS (B241803-BS1)

Prepared: 06/26/24 Analyzed: 06/28/24

Aluminum	3.97	0.050	mg/L	4.00	99.2	85-115
Calcium	4.02	0.100	mg/L	4.00	100	85-115
Iron	4.07	0.050	mg/L	4.00	102	85-115
Magnesium	20.0	0.100	mg/L	20.0	100	85-115
Potassium	7.99	1.00	mg/L	8.00	99.9	85-115
Silicon	3.96	0.500	mg/L	4.00	99.1	85-115
Sodium	3.37	1.00	mg/L	3.24	104	85-115

LCS Dup (B241803-BSD1)

Prepared: 06/26/24 Analyzed: 06/28/24

Aluminum	3.92	0.050	mg/L	4.00	97.9	85-115	1.29	20
Calcium	3.92	0.100	mg/L	4.00	98.0	85-115	2.46	20
Iron	3.96	0.050	mg/L	4.00	98.9	85-115	2.81	20
Magnesium	19.7	0.100	mg/L	20.0	98.4	85-115	1.59	20
Potassium	7.88	1.00	mg/L	8.00	98.5	85-115	1.34	20
Silicon	3.90	0.500	mg/L	4.00	97.5	85-115	1.67	20
Sodium	3.34	1.00	mg/L	3.24	103	85-115	0.820	20

Green Analytical Laboratories

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/02/24 17:02

Dissolved Metals by ICPMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B241772 - Dissolved ICPMS

Blank (B241772-BLK1)

Prepared: 06/24/24 Analyzed: 06/26/24

Arsenic	ND	0.0010	mg/L
Cadmium	ND	0.0005	mg/L
Copper	ND	0.0010	mg/L
Lead	ND	0.0005	mg/L
Manganese	ND	0.0005	mg/L
Molybdenum	ND	0.0005	mg/L
Selenium	ND	0.0010	mg/L
Uranium	ND	0.0005	mg/L
Zinc	ND	0.0020	mg/L

LCS (B241772-BS1)

Prepared: 06/24/24 Analyzed: 06/26/24

Arsenic	0.0571	0.0010	mg/L	0.0500	114	85-115
Cadmium	0.0567	0.0005	mg/L	0.0500	113	85-115
Copper	0.0566	0.0010	mg/L	0.0500	113	85-115
Lead	0.0562	0.0005	mg/L	0.0500	112	85-115
Manganese	0.0565	0.0005	mg/L	0.0500	113	85-115
Molybdenum	0.0557	0.0005	mg/L	0.0500	111	85-115
Selenium	0.276	0.0010	mg/L	0.250	111	85-115
Uranium	0.0563	0.0005	mg/L	0.0500	113	85-115
Zinc	0.0551	0.0020	mg/L	0.0500	110	85-115

LCS Dup (B241772-BSD1)

Prepared: 06/24/24 Analyzed: 06/26/24

Arsenic	0.0566	0.0010	mg/L	0.0500	113	85-115	0.818	20
Cadmium	0.0562	0.0005	mg/L	0.0500	112	85-115	0.936	20
Copper	0.0564	0.0010	mg/L	0.0500	113	85-115	0.229	20
Lead	0.0567	0.0005	mg/L	0.0500	113	85-115	0.777	20
Manganese	0.0569	0.0005	mg/L	0.0500	114	85-115	0.586	20
Molybdenum	0.0567	0.0005	mg/L	0.0500	113	85-115	1.79	20
Selenium	0.278	0.0010	mg/L	0.250	111	85-115	0.645	20
Uranium	0.0564	0.0005	mg/L	0.0500	113	85-115	0.178	20
Zinc	0.0555	0.0020	mg/L	0.0500	111	85-115	0.888	20

Green Analytical Laboratories

Veronica J. Wells

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/02/24 17:02

Dissolved Mercury by CVAFS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B241829 - EPA 245.7

Blank (B241829-BLK1)

Prepared: 06/27/24 Analyzed: 07/01/24

Mercury	ND	100	ng/L
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LCS (B241829-BS1)

Prepared: 06/27/24 Analyzed: 07/01/24

Mercury	890	100	ng/L	1000	89.0	76-113
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LCS Dup (B241829-BSD1)

Prepared: 06/27/24 Analyzed: 07/01/24

Mercury	874	100	ng/L	1000	87.4	76-113	1.81	20
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Notes and Definitions

IS1	Sample was analyzed at dilution due to internal standard recoveries not meeting the method acceptance criteria.
B3	Target analyte detected in method blank or continuing calibration blank. Reporting limit elevated to account for blank result.
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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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/02/24 17:02

Qualifier Summary

<u>LabNumber</u>	<u>Analysis</u>	<u>Analyte</u>	<u>Qualifier</u>	<u>TextBody</u>
2406268-01	Lead Dissolved by ICPMS	Lead	IS1	Sample was analyzed at dilution due to internal standard recoveries not meeting the method acceptance criteria.
2406268-01	Total Dissolved Solids [TDS]	Total Dissolved Solids	B3	Target analyte detected in method blank or continuing calibration blank. Reporting limit elevated to account for blank result.
2406268-01	Uranium Dissolved by ICPMS	Uranium	IS1	Sample was analyzed at dilution due to internal standard recoveries not meeting the method acceptance criteria.
2406268-02	Total Dissolved Solids [TDS]	Total Dissolved Solids	B3	Target analyte detected in method blank or continuing calibration blank. Reporting limit elevated to account for blank result.
B241805-BLK1	Total Dissolved Solids [TDS]	Total Dissolved Solids	B3	Target analyte detected in method blank or continuing calibration blank. Reporting limit elevated to account for blank result.
B241805-SRM1	Total Dissolved Solids [TDS]	Total Dissolved Solids	B3	Target analyte detected in method blank or continuing calibration blank. Reporting limit elevated to account for blank result.

Green Analytical Laboratories

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

Veronica Wells, Project Manager

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Note: White-Out™ or similar products cannot be used on the Chain of Custody

FORM-006, R 8.0

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 of the applicable service. 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.

Page 1 of 1

Project Information

Table of Contents
Printed: 07/27/2024 9:00 am

GCC Energy, LLC

6473 CR 120
Hesperus, CO 81326
Laboratory PM: Veronica Wells

GCC Energy

Phone: (970) 385-4528
Fax: (970) 385-4638

Project Name: GCC GW Baseline
Project Number:
Client PM: Michael Dickson
Comments: All Metals Are Field Filtered. Send Out PRESERVED bottles per Landon. 11-01-18

Analysis	Comment
Alkalinity, Total	
Aluminum Dissolved by ICP	
Arsenic Dissolved by ICPMS	
CAB	
Cadmium Dissolved by ICPMS	
Chloride [IC]	
Copper Dissolved by ICPMS	
Fluoride [IC]	
Hardness [DISSOLVED]	
Iron Dissolved by ICP	
Lead Dissolved by ICPMS	
Manganese Dissolved by ICPMS	
Mercury Dissolved by CVAFS	
Molybdenum Dissolved by ICPMS	
Nitrate/Nitrite [LACHAT]	
pH	
Potassium Dissolved by ICP	
Selenium Dissolved by ICPMS	
Silica Dissolved by ICP	
Sodium Dissolved by ICP	
Sulfate [IC]	
Total Dissolved Solids [TDS]	
Total Organic Carbon [TOC]	
Uranium Dissolved by ICPMS	
Zinc Dissolved by ICPMS	
Hardness [DISSOLVED] subanalyses:	
Calcium Dissolved by ICP	
Magnesium Dissolved by ICP	
Silica Dissolved by ICP subanalyses:	
Silicon Dissolved by ICP	

All metals are field filtered. Send out preserved bottles



SAMPLE CONDITION RECEIPT FORM

Client Name: GCC EnergyWork Order # 2406-268Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Kangaroo ☐ Third Party ☐ OtherCustody 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: 5.7 °C Correction Factor: 0 °C Final Temp: 5.7 °C

* Temp should be above freezing to 6°C

Date/Initials of person examining contents: 6-21-24
QDWLabeled by initials: _____
(if different than above)

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

03 July 2024

Michael Dickson
GCC Energy, LLC
6473 CR 120
Hesperus, CO 81326
RE: [none]

Enclosed are the results of analyses for samples received by the laboratory on 06/21/24 08:15. 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: TX-C24-00019

Our affiliate laboratory, Cardinal Laboratories, is also NELAP accredited through the Texas Commission on Environmental Quality for a variety of organic constituents in drinking water, non-potable water and solid matrices. Cardinal is also accredited for regulated VOCs, TTHM, and HAA-5 in drinking water through the Colorado Department of Public Health and Environment and EPA region 8. TNI Certificate Number: TX-C24-00112

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Chain of Custody & Attachments	12



GCC Energy, LLC
 6473 CR 120
 Hesperus CO, 81326

Project: GCC GW Baseline
 Project Name / Number: [none]
 Project Manager: Michael Dickson

Reported:
 07/03/24 16:14

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW-HGA-4	2406270-01	Water	06/20/24 18:59	06/21/24 08:15	

Green Analytical Laboratories

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

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/03/24 16:14

MW-HGA-4

2406270-01 (Ground Water)

Sampled Date: 06/20/24 18:59

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
---------	--------	----	-----	-------	----------	----------	--------	-------	---------

General Chemistry

Alkalinity, Total as CaCO ₃ *	410	10.0	8.00	mg/L	5	07/02/24 09:15	2320 B		HIC
Alkalinity, Hydroxide as CaCO ₃ *	<10.0	10.0	8.00	mg/L	5	07/02/24 09:15	2320 B		HIC
Alkalinity, Carbonate as CaCO ₃ *	<10.0	10.0	8.00	mg/L	5	07/02/24 09:15	2320 B		HIC
Alkalinity, Bicarbonate as CaCO ₃ *	410	10.0	8.00	mg/L	5	07/02/24 09:15	2320 B		HIC
Cation/Anion Balance	0.710	-100	-100	%	1	07/01/24 15:33	Calculation		JDA
Chloride*	3.72	1.00	0.0555	mg/L	1	07/01/24 16:47	EPA300.0		AWG
Fluoride*	0.403	0.100	0.00971	mg/L	1	07/01/24 16:47	EPA300.0		AWG
Nitrate/Nitrite as N*	0.423	0.100	0.065	mg/L as N	5	06/27/24 13:39	EPA353.2	M5	CAI
pH*	7.38			pH Units	1	06/21/24 10:25	EPA150.1		HIC
pH Temperature, degrees C	22.3			pH Units	1	06/21/24 10:25	EPA150.1		HIC
Sulfate*	146	1.00	0.124	mg/L	1	07/01/24 16:47	EPA300.0		AWG
Total Dissolved Solids*	525	20.0		mg/L	1	06/26/24 13:57	EPA160.1	B3	HIC
Total Organic Carbon*	4.00	1.00	0.580	mg/L	2	07/02/24 17:21	5310C		AES

Dissolved Metals by ICP

Aluminum*	<0.100	0.100	0.044	mg/L	2	06/28/24 12:40	EPA200.7		AWG
Calcium*	81.1	0.200	0.036	mg/L	2	06/28/24 12:40	EPA200.7		AWG
Hardness as CaCO ₃	430	1.32	0.339	mg/L	2	06/28/24 12:40	2340 B		AWG
Iron*	9.60	0.100	0.040	mg/L	2	06/28/24 12:40	EPA200.7		AWG
Magnesium*	55.3	0.200	0.061	mg/L	2	06/28/24 12:40	EPA200.7		AWG
Potassium*	2.17	2.00	0.150	mg/L	2	06/28/24 12:40	EPA200.7		AWG
Silica (SiO ₂)	12.7	2.14	0.199	mg/L	2	06/28/24 12:40	Calculation		AWG
Silicon	5.95	1.00	0.093	mg/L	2	06/28/24 12:40	EPA200.7		AWG
Sodium*	38.1	2.00	0.460	mg/L	2	06/28/24 12:40	EPA200.7		AWG

Dissolved Metals by ICPMS

Arsenic*	0.0027	0.0020	0.0012	mg/L	2	06/26/24 13:01	EPA200.8		JDA
Cadmium*	<0.0010	0.0010	0.0001	mg/L	2	06/26/24 13:01	EPA200.8		JDA
Copper*	<0.0020	0.0020	0.0002	mg/L	2	06/26/24 13:01	EPA200.8		JDA
Lead*	<0.0010	0.0010	0.0002	mg/L	2	06/26/24 13:01	EPA200.8		JDA
Manganese*	0.437	0.0010	0.0004	mg/L	2	06/26/24 13:01	EPA200.8		JDA
Molybdenum*	0.0058	0.0010	0.0001	mg/L	2	06/26/24 13:01	EPA200.8		JDA
Selenium*	0.0024	0.0020	0.0005	mg/L	2	06/26/24 13:01	EPA200.8		JDA

Green Analytical Laboratories

Veronica J Wells

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/03/24 16:14

MW-HGA-4

2406270-01 (Ground Water)

Sampled Date: 06/20/24 18:59

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Dissolved Metals by ICPMS

Uranium	<0.0010	0.0010	0.00008	mg/L	2	06/26/24 13:01	EPA200.8		JDA
Zinc*	<0.0040	0.0040	0.0012	mg/L	2	06/26/24 13:01	EPA200.8		JDA

Dissolved Mercury by CVAFS

Mercury	<100	100	19.6	ng/L	1	07/01/24 11:20	EPA245.7		CAI
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Green Analytical Laboratories

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

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/03/24 16:14

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 B241769 - General Prep - Wet Chem

Reference (B241769-SRM1)

Prepared & Analyzed: 06/21/24

pH	7.01		pH Units	7.00		100	98.57-101.42			
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Batch B241805 - General Prep - Wet Chem

Blank (B241805-BLK1)

Prepared & Analyzed: 06/26/24

Total Dissolved Solids	ND	10.0	mg/L							B3
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Reference (B241805-SRM1)

Prepared & Analyzed: 06/26/24

Total Dissolved Solids	415	10.0	mg/L	400		104	85-115			B3
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Batch B241818 - Lachat

Blank (B241818-BLK1)

Prepared & Analyzed: 06/27/24

Nitrate/Nitrite as N	ND	0.020	mg/L as N							
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LCS (B241818-BS1)

Prepared & Analyzed: 06/27/24

Nitrate/Nitrite as N	0.910	0.020	mg/L as N	1.00		91.0	90-110			
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LCS Dup (B241818-BSD1)

Prepared & Analyzed: 06/27/24

Nitrate/Nitrite as N	0.918	0.020	mg/L as N	1.00		91.8	90-110	0.864	20	
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Batch B241835 - IC- Ion Chromatograph

Blank (B241835-BLK1)

Prepared & Analyzed: 06/28/24

Chloride	ND	1.00	mg/L							
Fluoride	ND	0.100	mg/L							
Sulfate	ND	1.00	mg/L							

LCS (B241835-BS1)

Prepared & Analyzed: 06/28/24

Chloride	23.8	1.00	mg/L	25.0		95.4	90-110			
Fluoride	2.47	0.100	mg/L	2.50		98.7	90-110			
Sulfate	23.5	1.00	mg/L	25.0		93.9	90-110			

LCS Dup (B241835-BSD1)

Prepared & Analyzed: 06/28/24

Chloride	25.1	1.00	mg/L	25.0		100	90-110	5.08	20	
Fluoride	2.60	0.100	mg/L	2.50		104	90-110	5.06	20	
Sulfate	24.7	1.00	mg/L	25.0		98.9	90-110	5.24	20	

Batch B241854 - General Prep - Wet Chem

Blank (B241854-BLK1)

Prepared & Analyzed: 07/02/24

Green Analytical Laboratories

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/03/24 16:14

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 B241854 - General Prep - Wet Chem (Continued)

Blank (B241854-BLK1) (Continued)

Prepared & Analyzed: 07/02/24

Total Organic Carbon	ND	0.500	mg/L
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LCS (B241854-BS1)

Prepared & Analyzed: 07/02/24

Total Organic Carbon	9.49	0.500	mg/L	10.0	94.9	85-115
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LCS Dup (B241854-BSD1)

Prepared & Analyzed: 07/02/24

Total Organic Carbon	9.52	0.500	mg/L	10.0	95.2	85-115	0.273	20
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Batch B241865 - General Prep - Wet Chem

Blank (B241865-BLK1)

Prepared: 07/01/24 Analyzed: 07/02/24

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 (B241865-BS1)

Prepared: 07/01/24 Analyzed: 07/02/24

Alkalinity, Total as CaCO ₃	106	10.0	mg/L	100	106	85-115
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LCS Dup (B241865-BSD1)

Prepared: 07/01/24 Analyzed: 07/02/24

Alkalinity, Total as CaCO ₃	107	10.0	mg/L	100	107	85-115	0.939	20
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Reference (B241865-SRM1)

Prepared: 07/01/24 Analyzed: 07/02/24

Alkalinity, Total as CaCO ₃	107	10.0	mg/L	100	107	85-115
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Green Analytical Laboratories

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/03/24 16:14

Dissolved Metals by ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B241803 - Dissolved ICP

Blank (B241803-BLK1)

Prepared: 06/26/24 Analyzed: 06/28/24

Aluminum	ND	0.050	mg/L
Calcium	ND	0.100	mg/L
Iron	ND	0.050	mg/L
Magnesium	ND	0.100	mg/L
Potassium	ND	1.00	mg/L
Silicon	ND	0.500	mg/L
Sodium	ND	1.00	mg/L

LCS (B241803-BS1)

Prepared: 06/26/24 Analyzed: 06/28/24

Aluminum	3.97	0.050	mg/L	4.00	99.2	85-115
Calcium	4.02	0.100	mg/L	4.00	100	85-115
Iron	4.07	0.050	mg/L	4.00	102	85-115
Magnesium	20.0	0.100	mg/L	20.0	100	85-115
Potassium	7.99	1.00	mg/L	8.00	99.9	85-115
Silicon	3.96	0.500	mg/L	4.00	99.1	85-115
Sodium	3.37	1.00	mg/L	3.24	104	85-115

LCS Dup (B241803-BSD1)

Prepared: 06/26/24 Analyzed: 06/28/24

Aluminum	3.92	0.050	mg/L	4.00	97.9	85-115	1.29	20
Calcium	3.92	0.100	mg/L	4.00	98.0	85-115	2.46	20
Iron	3.96	0.050	mg/L	4.00	98.9	85-115	2.81	20
Magnesium	19.7	0.100	mg/L	20.0	98.4	85-115	1.59	20
Potassium	7.88	1.00	mg/L	8.00	98.5	85-115	1.34	20
Silicon	3.90	0.500	mg/L	4.00	97.5	85-115	1.67	20
Sodium	3.34	1.00	mg/L	3.24	103	85-115	0.820	20

Green Analytical Laboratories

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/03/24 16:14

Dissolved Metals by ICPMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B241772 - Dissolved ICPMS

Blank (B241772-BLK1)

Prepared: 06/24/24 Analyzed: 06/26/24

Arsenic	ND	0.0010	mg/L
Cadmium	ND	0.0005	mg/L
Copper	ND	0.0010	mg/L
Lead	ND	0.0005	mg/L
Manganese	ND	0.0005	mg/L
Molybdenum	ND	0.0005	mg/L
Selenium	ND	0.0010	mg/L
Uranium	ND	0.0005	mg/L
Zinc	ND	0.0020	mg/L

LCS (B241772-BS1)

Prepared: 06/24/24 Analyzed: 06/26/24

Arsenic	0.0571	0.0010	mg/L	0.0500	114	85-115
Cadmium	0.0567	0.0005	mg/L	0.0500	113	85-115
Copper	0.0566	0.0010	mg/L	0.0500	113	85-115
Lead	0.0562	0.0005	mg/L	0.0500	112	85-115
Manganese	0.0565	0.0005	mg/L	0.0500	113	85-115
Molybdenum	0.0557	0.0005	mg/L	0.0500	111	85-115
Selenium	0.276	0.0010	mg/L	0.250	111	85-115
Uranium	0.0563	0.0005	mg/L	0.0500	113	85-115
Zinc	0.0551	0.0020	mg/L	0.0500	110	85-115

LCS Dup (B241772-BSD1)

Prepared: 06/24/24 Analyzed: 06/26/24

Arsenic	0.0566	0.0010	mg/L	0.0500	113	85-115	0.818	20
Cadmium	0.0562	0.0005	mg/L	0.0500	112	85-115	0.936	20
Copper	0.0564	0.0010	mg/L	0.0500	113	85-115	0.229	20
Lead	0.0567	0.0005	mg/L	0.0500	113	85-115	0.777	20
Manganese	0.0569	0.0005	mg/L	0.0500	114	85-115	0.586	20
Molybdenum	0.0567	0.0005	mg/L	0.0500	113	85-115	1.79	20
Selenium	0.278	0.0010	mg/L	0.250	111	85-115	0.645	20
Uranium	0.0564	0.0005	mg/L	0.0500	113	85-115	0.178	20
Zinc	0.0555	0.0020	mg/L	0.0500	111	85-115	0.888	20

Green Analytical Laboratories

Veronica J. Wells

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/03/24 16:14

Dissolved Mercury by CVAFS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B241829 - EPA 245.7

Blank (B241829-BLK1)

Prepared: 06/27/24 Analyzed: 07/01/24

Mercury	ND	100	ng/L
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LCS (B241829-BS1)

Prepared: 06/27/24 Analyzed: 07/01/24

Mercury	890	100	ng/L	1000	89.0	76-113
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LCS Dup (B241829-BSD1)

Prepared: 06/27/24 Analyzed: 07/01/24

Mercury	874	100	ng/L	1000	87.4	76-113	1.81	20
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Notes and Definitions

M5	Sample was chosen for matrix spike. Spike recovery did not meet laboratory acceptance criteria, possible matrix interference in sample.
B3	Target analyte detected in method blank or continuing calibration blank. Reporting limit elevated to account for blank result.
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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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/03/24 16:14

Qualifier Summary

<u>LabNumber</u>	<u>Analysis</u>	<u>Analyte</u>	<u>Qualifier</u>	<u>TextBody</u>
2406270-01	Nitrate/Nitrite [LCHAT]	Nitrate/Nitrite as N	M5	Sample was chosen for matrix spike. Spike recovery did not meet laboratory acceptance criteria, possible matrix interference in sample.
2406270-01	Total Dissolved Solids [TDS]	Total Dissolved Solids	B3	Target analyte detected in method blank or continuing calibration blank. Reporting limit elevated to account for blank result.
B241805-BLK1	Total Dissolved Solids [TDS]	Total Dissolved Solids	B3	Target analyte detected in method blank or continuing calibration blank. Reporting limit elevated to account for blank result.
B241805-SRM1	Total Dissolved Solids [TDS]	Total Dissolved Solids	B3	Target analyte detected in method blank or continuing calibration blank. Reporting limit elevated to account for blank result.

Green Analytical Laboratories

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

Veronica Wells, Project Manager

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75 Suttle Street
Durango, CO 81303
(970) 247-4220

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST
FORM-006, R 8.0

Note: Write-Out™ or similar products cannot be used on the Chain of Custody

Company or Client:		GCC Energy		Bill to (if different):		ANALYSIS REQUEST											
Address:		6473 CR 120															
City:		Hesperus		State: CO Zip: 81326													
Phone #:		970-385-4528															
Contact Person:		Michael Dickson for billing		Landon Beck for Logistical or Technical													
Email Report to:		lbeck@slrconsulting.com		tom@hayguichservices.com		mdickson@gcc.com											
Project Name(optional):				P.O. #:													
Sampler Name (Print):		Brandon Waddell		Rush?		☒ Y ☐ N											
Lab I.D.	Sample Name or Location	Collected		Matrix (check one)		# of containers											
		Date	Time	☐ GROUNDWATER	☐ SURFACE WATER	☐ WASTEWATER	☐ PRODUCED WATER	☐ DRINKING WATER	☐ SOIL	☐ OTHER:	☐ No preservation	☐ Nitric Acid	☐ Hydrochloric Acid	☐ Sulfuric Acid	☐ Sodium Hydroxide	☐ OTHER:	
		6-20-24	18:59	☒													

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 of the applicable service. 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:** 6-21-24 **Received By:** **Date:** 6-21-24

Relinquished By: **Date:** 8-15 **Received By:** **Date:** 9-15

Relinquished By: **Date:** **Received By:** **Date:**

Temperature at receipt: 5.7 °C **Checked by:** **On Ice?** ☒ Y ☐ N **Therm. used:**

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

Project Information

Table of Contents
Printed: 06/21/2024 8:39 am

GCC Energy, LLC

6473 CR 120
Hesperus, CO 81326
Laboratory PM: Veronica Wells

GCC Energy

Phone: (970) 385-4528
Fax: (970) 385-4638

Project Name: GCC GW Baseline
Project Number:
Client PM: Michael Dickson
Comments: All Metals Are Field Filtered. Send Out PRESERVED bottles per Landon. 11-01-18

Analysis	Comment
Alkalinity, Total	
Aluminum Dissolved by ICP	
Arsenic Dissolved by ICPMS	
CAB	
Cadmium Dissolved by ICPMS	
Chloride [IC]	
Copper Dissolved by ICPMS	
Fluoride [IC]	
Hardness [DISSOLVED]	
Iron Dissolved by ICP	
Lead Dissolved by ICPMS	
Manganese Dissolved by ICPMS	
Mercury Dissolved by CVAFS	
Molybdenum Dissolved by ICPMS	
Nitrate/Nitrite [LACHAT]	
pH	
Potassium Dissolved by ICP	
Selenium Dissolved by ICPMS	
Silica Dissolved by ICP	
Sodium Dissolved by ICP	
Sulfate [IC]	
Total Dissolved Solids [TDS]	
Total Organic Carbon [TOC]	
Uranium Dissolved by ICPMS	
Zinc Dissolved by ICPMS	
Hardness [DISSOLVED] subanalyses:	
Calcium Dissolved by ICP	
Magnesium Dissolved by ICP	
Silica Dissolved by ICP subanalyses:	
Silicon Dissolved by ICP	

All metals are field filtered. Send out preserved bottles



SAMPLE CONDITION RECEIPT FORM

Client Name: GCC EnergyWork Order # 2406-270Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Kangaroo ☐ Third Party ☐ OtherCustody 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 ☐ NoneDate/Initials of person examining contents: 6.21.26
CDWCooler Temp: Observed Temp: 5.7 °C Correction Factor: 0 °C Final Temp: 5.7 °C

* Temp should be above freezing to 6°C

Labeled by initials: _____
(if different than above)

Chain of Custody Present:	☒ Yes ☐ No	1.
Chain of Custody Filled Out:	☒ Yes ☐ No	2.
Chain of Custody Relinquished:	☒ Yes ☐ No	3.
Sampler Name and Signature on COC:	☒ Yes ☐ No	4.
Samples arrived within hold time:	☒ Yes ☐ No	5.
Short Hold Time Analysis (<72hr):	☒ Yes ☐ No	6. <u>PH</u>
Rush Turn Around Time Requested:	☐ Yes ☒ No	7.
Sufficient Volume:	☒ Yes ☐ No	8.
Correct Containers Used:	☒ Yes ☐ No	9. <u>Only 1 125 mL minimum bottle of sample</u>
Containers Intact:	☒ Yes ☐ No	10.
Dissolved Testing Needed:	☒ Yes ☐ No	11. <u>Diss</u>
Field Filtered: ☐ Yes ☐ No		
Sample Labels match COC: -Includes Date/Time/ID	☐ Yes ☐ No	12.
Matrix:	☒ WT ☐ SL ☐ OT	
Trip Blank Present:	☐ Yes ☐ No ☒ N/A	13.
Trip Blank Custody Seals Present:	☐ Yes ☐ No ☒ 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

05 July 2024

Michael Dickson
GCC Energy, LLC
6473 CR 120
Hesperus, CO 81326
RE: [none]

Enclosed are the results of analyses for samples received by the laboratory on 06/21/24 08:15. 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: TX-C24-00019

Our affiliate laboratory, Cardinal Laboratories, is also NELAP accredited through the Texas Commission on Environmental Quality for a variety of organic constituents in drinking water, non-potable water and solid matrices. Cardinal is also accredited for regulated VOCs, TTHM, and HAA-5 in drinking water through the Colorado Department of Public Health and Environment and EPA region 8. TNI Certificate Number: TX-C24-00112

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/05/24 09:37

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW-3-MI	2406271-01	Water	06/20/24 14:09	06/21/24 08:15	
MW-3-A	2406271-02	Water	06/20/24 13:28	06/21/24 08:15	
MW-3-C	2406271-03	Water	06/20/24 12:57	06/21/24 08:15	

Green Analytical Laboratories

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

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/05/24 09:37

MW-3-MI

2406271-01 (Ground Water)
Sampled Date: 06/20/24 14:09

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

Alkalinity, Total as CaCO ₃ *	730	10.0	8.00	mg/L	5	07/02/24 09:15	2320 B		HIC
Alkalinity, Hydroxide as CaCO ₃ *	<10.0	10.0	8.00	mg/L	5	07/02/24 09:15	2320 B		HIC
Alkalinity, Carbonate as CaCO ₃ *	100	10.0	8.00	mg/L	5	07/02/24 09:15	2320 B		HIC
Alkalinity, Bicarbonate as CaCO ₃ *	630	10.0	8.00	mg/L	5	07/02/24 09:15	2320 B		HIC
Cation/Anion Balance	-4.14	-100	-100	%	1	07/01/24 15:33	Calculation		JDA
Chloride*	10.6	1.00	0.0555	mg/L	1	07/01/24 17:06	EPA300.0		AWG
Fluoride*	1.12	0.100	0.00971	mg/L	1	07/01/24 17:06	EPA300.0		AWG
Nitrate/Nitrite as N*	<0.020	0.020	0.013	mg/L as N	1	06/27/24 13:41	EPA353.2		CAI
pH*	8.76			pH Units	1	06/21/24 10:25	EPA150.1		HIC
pH Temperature, degrees C	22.5			pH Units	1	06/21/24 10:25	EPA150.1		HIC
Sulfate*	255	5.00	0.620	mg/L	5	07/02/24 23:01	EPA300.0		AWG
Total Dissolved Solids*	1060	10.0		mg/L	1	06/27/24 17:14	EPA160.1		HIC
Total Organic Carbon*	4.49	0.500	0.290	mg/L	1	06/28/24 22:43	5310C		AES

Dissolved Metals by ICP

Aluminum*	<0.100	0.100	0.044	mg/L	2	06/28/24 12:42	EPA200.7		AWG
Calcium*	1.26	0.200	0.036	mg/L	2	06/28/24 12:42	EPA200.7		AWG
Hardness as CaCO ₃	5.20	1.32	0.339	mg/L	2	06/28/24 12:42	2340 B		AWG
Iron*	<0.100	0.100	0.040	mg/L	2	06/28/24 12:42	EPA200.7		AWG
Magnesium*	0.501	0.200	0.061	mg/L	2	06/28/24 12:42	EPA200.7		AWG
Potassium*	<2.00	2.00	0.150	mg/L	2	06/28/24 12:42	EPA200.7		AWG
Silica (SiO ₂)	8.30	2.14	0.199	mg/L	2	06/28/24 12:42	Calculation		AWG
Silicon	3.88	1.00	0.093	mg/L	2	06/28/24 12:42	EPA200.7		AWG
Sodium*	413	2.00	0.460	mg/L	2	06/28/24 12:42	EPA200.7		AWG

Dissolved Metals by ICPMS

Arsenic*	0.0049	0.0020	0.0012	mg/L	2	06/26/24 13:02	EPA200.8		JDA
Cadmium*	<0.0010	0.0010	0.0001	mg/L	2	06/26/24 13:02	EPA200.8		JDA
Copper*	0.0167	0.0020	0.0002	mg/L	2	06/26/24 13:02	EPA200.8		JDA
Lead*	<0.0010	0.0010	0.0002	mg/L	2	06/26/24 13:02	EPA200.8		JDA
Manganese*	0.0066	0.0010	0.0004	mg/L	2	06/26/24 13:02	EPA200.8		JDA
Molybdenum*	0.0135	0.0010	0.0001	mg/L	2	06/26/24 13:02	EPA200.8		JDA
Selenium*	0.0155	0.0020	0.0005	mg/L	2	06/26/24 13:02	EPA200.8		JDA

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Veronica J Wells

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/05/24 09:37

MW-3-MI

2406271-01 (Ground Water)

Sampled Date: 06/20/24 14:09

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Dissolved Metals by ICPMS

Uranium	0.0030	0.0010	0.00008	mg/L	2	06/26/24 13:02	EPA200.8		JDA
Zinc*	0.0078	0.0040	0.0012	mg/L	2	06/26/24 13:02	EPA200.8		JDA

Dissolved Mercury by CVAFS

Mercury	<100	100	19.6	ng/L	1	07/01/24 11:23	EPA245.7		CAI
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Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/05/24 09:37

MW-3-A

2406271-02 (Ground Water)

Sampled Date: 06/20/24 13:28

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

Alkalinity, Total as CaCO ₃ *	510	10.0	8.00	mg/L	5	07/02/24 09:15	2320 B		HIC
Alkalinity, Hydroxide as CaCO ₃ *	<10.0	10.0	8.00	mg/L	5	07/02/24 09:15	2320 B		HIC
Alkalinity, Carbonate as CaCO ₃ *	<10.0	10.0	8.00	mg/L	5	07/02/24 09:15	2320 B		HIC
Alkalinity, Bicarbonate as CaCO ₃ *	510	10.0	8.00	mg/L	5	07/02/24 09:15	2320 B		HIC
Cation/Anion Balance	-2.92	-100	-100	%	1	07/01/24 15:33	Calculation		JDA
Chloride*	17.5	2.00	0.111	mg/L	2	07/01/24 17:26	EPA300.0		AWG
Fluoride*	0.368	0.200	0.0194	mg/L	2	07/01/24 17:26	EPA300.0		AWG
Nitrate/Nitrite as N*	<0.020	0.020	0.013	mg/L as N	1	06/27/24 13:42	EPA353.2		CAI
pH*	8.44			pH Units	1	06/21/24 10:25	EPA150.1		HIC
pH Temperature, degrees C	21.8			pH Units	1	06/21/24 10:25	EPA150.1		HIC
Sulfate*	545	5.00	0.620	mg/L	5	07/01/24 17:46	EPA300.0		AWG
Total Dissolved Solids*	1280	10.0		mg/L	1	06/27/24 17:18	EPA160.1		HIC
Total Organic Carbon*	2.96	0.500	0.290	mg/L	1	06/28/24 23:02	5310C		AES

Dissolved Metals by ICP

Aluminum*	<0.100	0.100	0.044	mg/L	2	06/28/24 12:46	EPA200.7		AWG
Calcium*	2.48	0.200	0.036	mg/L	2	06/28/24 12:46	EPA200.7		AWG
Hardness as CaCO ₃	8.68	1.32	0.339	mg/L	2	06/28/24 12:46	2340 B		AWG
Iron*	<0.100	0.100	0.040	mg/L	2	06/28/24 12:46	EPA200.7		AWG
Magnesium*	0.605	0.200	0.061	mg/L	2	06/28/24 12:46	EPA200.7		AWG
Potassium*	<2.00	2.00	0.150	mg/L	2	06/28/24 12:46	EPA200.7		AWG
Silica (SiO ₂)	10.1	2.14	0.199	mg/L	2	06/28/24 12:46	Calculation		AWG
Silicon	4.73	1.00	0.093	mg/L	2	06/28/24 12:46	EPA200.7		AWG
Sodium*	458	2.00	0.460	mg/L	2	06/28/24 12:46	EPA200.7		AWG

Dissolved Metals by ICPMS

Arsenic*	<0.0020	0.0020	0.0012	mg/L	2	06/26/24 13:04	EPA200.8		JDA
Cadmium*	<0.0010	0.0010	0.0001	mg/L	2	06/26/24 13:04	EPA200.8		JDA
Copper*	0.0180	0.0020	0.0002	mg/L	2	06/26/24 13:04	EPA200.8		JDA
Lead*	<0.0010	0.0010	0.0002	mg/L	2	06/26/24 13:04	EPA200.8		JDA
Manganese*	0.0091	0.0010	0.0004	mg/L	2	06/26/24 13:04	EPA200.8		JDA
Molybdenum*	0.0016	0.0010	0.0001	mg/L	2	06/26/24 13:04	EPA200.8		JDA
Selenium*	0.0427	0.0020	0.0005	mg/L	2	06/26/24 13:04	EPA200.8		JDA

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Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/05/24 09:37

MW-3-A

2406271-02 (Ground Water)

Sampled Date: 06/20/24 13:28

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Dissolved Metals by ICPMS

Uranium	<0.0010	0.0010	0.00008	mg/L	2	06/26/24 13:04	EPA200.8		JDA
Zinc*	<0.0040	0.0040	0.0012	mg/L	2	06/26/24 13:04	EPA200.8		JDA

Dissolved Mercury by CVAFS

Mercury	<100	100	19.6	ng/L	1	07/01/24 11:39	EPA245.7		CAI
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Green Analytical Laboratories

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

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/05/24 09:37

MW-3-C

2406271-03 (Ground Water)

Sampled Date: 06/20/24 12:57

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

Alkalinity, Total as CaCO ₃ *	2280	10.0	8.00	mg/L	5	07/02/24 09:15	2320 B		HIC
Alkalinity, Hydroxide as CaCO ₃ *	<10.0	10.0	8.00	mg/L	5	07/02/24 09:15	2320 B		HIC
Alkalinity, Carbonate as CaCO ₃ *	240	10.0	8.00	mg/L	5	07/02/24 09:15	2320 B		HIC
Alkalinity, Bicarbonate as CaCO ₃ *	2040	10.0	8.00	mg/L	5	07/02/24 09:15	2320 B		HIC
Cation/Anion Balance	-5.41	-100	-100	%	1	07/01/24 15:33	Calculation		JDA
Chloride*	649	10.0	0.555	mg/L	10	07/02/24 23:21	EPA300.0		AWG
Fluoride*	3.59	0.100	0.00971	mg/L	1	07/01/24 18:46	EPA300.0		AWG
Nitrate/Nitrite as N*	<0.020	0.020	0.013	mg/L as N	1	06/27/24 13:43	EPA353.2		CAI
pH*	8.20			pH Units	1	06/21/24 10:25	EPA150.1		HIC
pH Temperature, degrees C	21.8			pH Units	1	06/21/24 10:25	EPA150.1		HIC
Sulfate*	2.37	1.00	0.124	mg/L	1	07/01/24 18:46	EPA300.0		AWG
Total Dissolved Solids*	3270	10.0		mg/L	1	06/27/24 17:20	EPA160.1		HIC
Total Organic Carbon*	19.9	0.500	0.290	mg/L	1	06/28/24 23:23	5310C		AES

Dissolved Metals by ICP

Aluminum*	<0.500	0.500	0.221	mg/L	10	06/28/24 12:49	EPA200.7		AWG
Calcium*	4.26	1.00	0.180	mg/L	10	06/28/24 12:49	EPA200.7		AWG
Hardness as CaCO ₃	18.7	6.62	1.70	mg/L	10	06/28/24 12:49	2340 B		AWG
Iron*	<0.500	0.500	0.199	mg/L	10	06/28/24 12:49	EPA200.7		AWG
Magnesium*	1.97	1.00	0.303	mg/L	10	06/28/24 12:49	EPA200.7		AWG
Potassium*	<10.0	10.0	0.749	mg/L	10	06/28/24 12:49	EPA200.7		AWG
Silica (SiO ₂)	<10.7	10.7	0.997	mg/L	10	06/28/24 12:49	Calculation		AWG
Silicon	<5.00	5.00	0.466	mg/L	10	06/28/24 12:49	EPA200.7		AWG
Sodium*	1300	10.0	2.30	mg/L	10	06/28/24 12:49	EPA200.7		AWG

Dissolved Metals by ICPMS

Arsenic*	0.0211	0.0100	0.0062	mg/L	10	06/26/24 13:06	EPA200.8		JDA
Cadmium*	<0.0050	0.0050	0.0006	mg/L	10	06/26/24 13:06	EPA200.8		JDA
Copper*	0.0522	0.0100	0.0008	mg/L	10	06/26/24 13:06	EPA200.8		JDA
Lead*	<0.0050	0.0050	0.0012	mg/L	10	06/26/24 13:06	EPA200.8		JDA
Manganese*	<0.0050	0.0050	0.0018	mg/L	10	06/26/24 13:06	EPA200.8		JDA
Molybdenum*	<0.0050	0.0050	0.0005	mg/L	10	06/26/24 13:06	EPA200.8		JDA
Selenium*	0.0580	0.0100	0.0027	mg/L	10	06/26/24 13:06	EPA200.8		JDA

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Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/05/24 09:37

MW-3-C

2406271-03 (Ground Water)

Sampled Date: 06/20/24 12:57

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Dissolved Metals by ICPMS

Uranium	<0.0050	0.0050	0.0004	mg/L	10	06/26/24 13:06	EPA200.8		JDA
Zinc*	<0.0200	0.0200	0.0060	mg/L	10	06/26/24 13:06	EPA200.8		JDA

Dissolved Mercury by CVAFS

Mercury	<100	100	19.6	ng/L	1	07/01/24 11:41	EPA245.7		CAI
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Green Analytical Laboratories

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

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/05/24 09:37

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B241769 - General Prep - Wet Chem										
Reference (B241769-SRM1)				Prepared & Analyzed: 06/21/24						
pH	7.01		pH Units	7.00		100	98.57-101.42			
Batch B241818 - Lachat										
Blank (B241818-BLK1)				Prepared & Analyzed: 06/27/24						
Nitrate/Nitrite as N	ND	0.020	mg/L as N							
LCS (B241818-BS1)				Prepared & Analyzed: 06/27/24						
Nitrate/Nitrite as N	0.910	0.020	mg/L as N	1.00		91.0	90-110			
LCS Dup (B241818-BSD1)				Prepared & Analyzed: 06/27/24						
Nitrate/Nitrite as N	0.918	0.020	mg/L as N	1.00		91.8	90-110	0.864	20	
Batch B241828 - General Prep - Wet Chem										
Blank (B241828-BLK1)				Prepared & Analyzed: 06/27/24						
Total Dissolved Solids	ND	10.0	mg/L							
Reference (B241828-SRM1)				Prepared & Analyzed: 06/27/24						
Total Dissolved Solids	430	10.0	mg/L	400		108	85-115			
Batch B241835 - IC- Ion Chromatograph										
Blank (B241835-BLK1)				Prepared & Analyzed: 06/28/24						
Chloride	ND	1.00	mg/L							
Fluoride	ND	0.100	mg/L							
Sulfate	ND	1.00	mg/L							
LCS (B241835-BS1)				Prepared & Analyzed: 06/28/24						
Chloride	23.8	1.00	mg/L	25.0		95.4	90-110			
Fluoride	2.47	0.100	mg/L	2.50		98.7	90-110			
Sulfate	23.5	1.00	mg/L	25.0		93.9	90-110			
LCS Dup (B241835-BSD1)				Prepared & Analyzed: 06/28/24						
Chloride	25.1	1.00	mg/L	25.0		100	90-110	5.08	20	
Fluoride	2.60	0.100	mg/L	2.50		104	90-110	5.06	20	
Sulfate	24.7	1.00	mg/L	25.0		98.9	90-110	5.24	20	
Batch B241838 - General Prep - Wet Chem										
Blank (B241838-BLK1)				Prepared & Analyzed: 06/28/24						

Green Analytical Laboratories

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/05/24 09:37

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 B241838 - General Prep - Wet Chem (Continued)

Blank (B241838-BLK1) (Continued)

Prepared & Analyzed: 06/28/24

Total Organic Carbon	ND	0.500	mg/L
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LCS (B241838-BS1)

Prepared & Analyzed: 06/28/24

Total Organic Carbon	9.77	0.500	mg/L	10.0	97.7	85-115
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LCS Dup (B241838-BSD1)

Prepared & Analyzed: 06/28/24

Total Organic Carbon	9.57	0.500	mg/L	10.0	95.7	85-115	2.01	20
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Batch B241865 - General Prep - Wet Chem

Blank (B241865-BLK1)

Prepared: 07/01/24 Analyzed: 07/02/24

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 (B241865-BS1)

Prepared: 07/01/24 Analyzed: 07/02/24

Alkalinity, Total as CaCO ₃	106	10.0	mg/L	100	106	85-115
--	-----	------	------	-----	-----	--------

LCS Dup (B241865-BSD1)

Prepared: 07/01/24 Analyzed: 07/02/24

Alkalinity, Total as CaCO ₃	107	10.0	mg/L	100	107	85-115	0.939	20
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Reference (B241865-SRM1)

Prepared: 07/01/24 Analyzed: 07/02/24

Alkalinity, Total as CaCO ₃	107	10.0	mg/L	100	107	85-115
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Green Analytical Laboratories

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/05/24 09:37

Dissolved Metals by ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B241803 - Dissolved ICP

Blank (B241803-BLK1)

Prepared: 06/26/24 Analyzed: 06/28/24

Aluminum	ND	0.050	mg/L
Calcium	ND	0.100	mg/L
Iron	ND	0.050	mg/L
Magnesium	ND	0.100	mg/L
Potassium	ND	1.00	mg/L
Silicon	ND	0.500	mg/L
Sodium	ND	1.00	mg/L

LCS (B241803-BS1)

Prepared: 06/26/24 Analyzed: 06/28/24

Aluminum	3.97	0.050	mg/L	4.00	99.2	85-115
Calcium	4.02	0.100	mg/L	4.00	100	85-115
Iron	4.07	0.050	mg/L	4.00	102	85-115
Magnesium	20.0	0.100	mg/L	20.0	100	85-115
Potassium	7.99	1.00	mg/L	8.00	99.9	85-115
Silicon	3.96	0.500	mg/L	4.00	99.1	85-115
Sodium	3.37	1.00	mg/L	3.24	104	85-115

LCS Dup (B241803-BSD1)

Prepared: 06/26/24 Analyzed: 06/28/24

Aluminum	3.92	0.050	mg/L	4.00	97.9	85-115	1.29	20
Calcium	3.92	0.100	mg/L	4.00	98.0	85-115	2.46	20
Iron	3.96	0.050	mg/L	4.00	98.9	85-115	2.81	20
Magnesium	19.7	0.100	mg/L	20.0	98.4	85-115	1.59	20
Potassium	7.88	1.00	mg/L	8.00	98.5	85-115	1.34	20
Silicon	3.90	0.500	mg/L	4.00	97.5	85-115	1.67	20
Sodium	3.34	1.00	mg/L	3.24	103	85-115	0.820	20

Green Analytical Laboratories

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/05/24 09:37

Dissolved Metals by ICPMS - Quality Control

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

Batch B241772 - Dissolved ICPMS

Blank (B241772-BLK1)

Prepared: 06/24/24 Analyzed: 06/26/24

Arsenic	ND	0.0010	mg/L
Cadmium	ND	0.0005	mg/L
Copper	ND	0.0010	mg/L
Lead	ND	0.0005	mg/L
Manganese	ND	0.0005	mg/L
Molybdenum	ND	0.0005	mg/L
Selenium	ND	0.0010	mg/L
Uranium	ND	0.0005	mg/L
Zinc	ND	0.0020	mg/L

LCS (B241772-BS1)

Prepared: 06/24/24 Analyzed: 06/26/24

Arsenic	0.0571	0.0010	mg/L	0.0500	114	85-115
Cadmium	0.0567	0.0005	mg/L	0.0500	113	85-115
Copper	0.0566	0.0010	mg/L	0.0500	113	85-115
Lead	0.0562	0.0005	mg/L	0.0500	112	85-115
Manganese	0.0565	0.0005	mg/L	0.0500	113	85-115
Molybdenum	0.0557	0.0005	mg/L	0.0500	111	85-115
Selenium	0.276	0.0010	mg/L	0.250	111	85-115
Uranium	0.0563	0.0005	mg/L	0.0500	113	85-115
Zinc	0.0551	0.0020	mg/L	0.0500	110	85-115

LCS Dup (B241772-BSD1)

Prepared: 06/24/24 Analyzed: 06/26/24

Arsenic	0.0566	0.0010	mg/L	0.0500	113	85-115	0.818	20
Cadmium	0.0562	0.0005	mg/L	0.0500	112	85-115	0.936	20
Copper	0.0564	0.0010	mg/L	0.0500	113	85-115	0.229	20
Lead	0.0567	0.0005	mg/L	0.0500	113	85-115	0.777	20
Manganese	0.0569	0.0005	mg/L	0.0500	114	85-115	0.586	20
Molybdenum	0.0567	0.0005	mg/L	0.0500	113	85-115	1.79	20
Selenium	0.278	0.0010	mg/L	0.250	111	85-115	0.645	20
Uranium	0.0564	0.0005	mg/L	0.0500	113	85-115	0.178	20
Zinc	0.0555	0.0020	mg/L	0.0500	111	85-115	0.888	20

Green Analytical Laboratories

Veronica J. Wells

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/05/24 09:37

Dissolved Mercury by CVAFS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B241829 - EPA 245.7

Blank (B241829-BLK1)

Prepared: 06/27/24 Analyzed: 07/01/24

Mercury	ND	100	ng/L
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LCS (B241829-BS1)

Prepared: 06/27/24 Analyzed: 07/01/24

Mercury	890	100	ng/L	1000	89.0	76-113
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LCS Dup (B241829-BSD1)

Prepared: 06/27/24 Analyzed: 07/01/24

Mercury	874	100	ng/L	1000	87.4	76-113	1.81	20
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Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis *Results reported on as received basis unless designated as dry.
RPD	Relative Percent Difference
LCS	Laboratory Control Sample (Blank Spike)
RL	Report Limit
MDL	Method Detection Limit

Green Analytical Laboratories

Veronica Wells, Project Manager

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST
FORM-006, R 8.0

Note: Write-Out™ or similar products cannot be used on the Chain of Custody

Company or Client:						GCC Energy						Bill to (if different):						ANALYSIS REQUEST																			
Address:						6473 CR 120																															
City:						Hesperus						State: CO Zip: 81326																									
Phone #:						970-385-4528																															
Contact Person:						Michael Dickson for billing Landon Beck for Logistical or Technical																															
Email Report to:						beck@striconsulting.com tom@haygulchservices.com mdickson@gcc.com																															
Project Name(optional):												P.O.#:																									
Sampler Name (Print):						Brandon Waddell						Rush? Y N																									
Lab I.D.						Sample Name or Location						Collected						Matrix (check one)						# of containers						GCC GW BASELINE							
246-271						Date Time						GROUNDWATER						X																			
												SURFACE WATER																									
												WASTEWATER																									
												PRODUCED WATER																									
												DRINKING WATER																									
												SOIL																									
												OTHER:																									
												No preservation																									
												Nitric Acid																									
												Hydrochloric Acid																									
Sulfuric Acid																																					
Sodium Hydroxide																																					
OTHER:																																					
01 MW-3-M1						6.20.24 14:09						X						11						5						X							
02 MW-3-A						6.20.24 13:28						X						11						4						X							
03 MW-3-C						6.20.24 12:57						X						11						4						X							
4)																																					
5)																																					
6)																																					
7)																																					
8)																																					
9)																																					
10)																																					
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 of the applicable service. 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: 6.21.24 Time: 8:15						Received By:						Date: 6.21.24 Time: 8:15						ADDITIONAL REMARKS:													
Relinquished By:												Received By:																									
Relinquished By:												Received By:																									
Temperature at receipt:						Checked by:						On Ice?						Therm. used:																			
5.7 °C						MPLA						Y N						Case 2																			



SAMPLE CONDITION RECEIPT FORM

Client Name: GCC EnergyWork Order # 2406-271Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Kangaroo ☐ Third Party ☐ OtherCustody 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 ☐ NoneDate/Initials of person examining contents: 6.21.26
CDWLabeled by initials: _____
(if different than above)Cooler Temp: Observed Temp: 5.7 °C Correction Factor: 0 °C Final Temp: 5.7 °C

*Temp should be above freezing to 6°C

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

Client Notification/Resolution:

Person Contacted: _____

Date/Time: _____

Comments/Resolution: _____

Project Information

GCC Energy, LLC

6473 CR 120
Hesperus, CO 81326
Laboratory PM: Veronica Wells

GCC Energy

Phone: (970) 385-4528
Fax: (970) 385-4638

Project Name: GCC GW Baseline
Project Number:
Client PM: Michael Dickson
Comments: All Metals Are Field Filtered. Send Out PRESERVED bottles per Landon. 11-01-18

Analysis	Comment
Alkalinity, Total	
Aluminum Dissolved by ICP	
Arsenic Dissolved by ICPMS	
CAB	
Cadmium Dissolved by ICPMS	
Chloride [IC]	
Copper Dissolved by ICPMS	
Fluoride [IC]	
Hardness [DISSOLVED]	
Iron Dissolved by ICP	
Lead Dissolved by ICPMS	
Manganese Dissolved by ICPMS	
Mercury Dissolved by CVAFS	
Molybdenum Dissolved by ICPMS	
Nitrate/Nitrite [LACHAT]	
pH	
Potassium Dissolved by ICP	
Selenium Dissolved by ICPMS	
Silica Dissolved by ICP	
Sodium Dissolved by ICP	
Sulfate [IC]	
Total Dissolved Solids [TDS]	
Total Organic Carbon [TOC]	
Uranium Dissolved by ICPMS	
Zinc Dissolved by ICPMS	
Hardness [DISSOLVED] subanalyses:	
Calcium Dissolved by ICP	
Magnesium Dissolved by ICP	
Silica Dissolved by ICP subanalyses:	
Silicon Dissolved by ICP	

All metals are field filtered. Send out preserved bottles



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

05 July 2024

Michael Dickson
GCC Energy, LLC
6473 CR 120
Hesperus, CO 81326
RE: [none]

Enclosed are the results of analyses for samples received by the laboratory on 06/21/24 08:15. 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: TX-C24-00019

Our affiliate laboratory, Cardinal Laboratories, is also NELAP accredited through the Texas Commission on Environmental Quality for a variety of organic constituents in drinking water, non-potable water and solid matrices. Cardinal is also accredited for regulated VOCs, TTHM, and HAA-5 in drinking water through the Colorado Department of Public Health and Environment and EPA region 8. TNI Certificate Number: TX-C24-00112

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/05/24 09:41

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW-4-C	2406272-01	Water	06/20/24 11:49	06/21/24 08:15	
MW-4-A	2406272-02	Water	06/20/24 11:20	06/21/24 08:15	
MW-4-MI	2406272-03	Water	06/20/24 10:31	06/21/24 08:15	

Green Analytical Laboratories

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

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/05/24 09:41

MW-4-C

2406272-01 (Ground Water)

Sampled Date: 06/20/24 11:49

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

Alkalinity, Total as CaCO ₃ *	2580	10.0	8.00	mg/L	10	07/02/24 09:15	2320 B		HIC
Alkalinity, Hydroxide as CaCO ₃ *	<10.0	10.0	8.00	mg/L	10	07/02/24 09:15	2320 B		HIC
Alkalinity, Carbonate as CaCO ₃ *	200	10.0	8.00	mg/L	10	07/02/24 09:15	2320 B		HIC
Alkalinity, Bicarbonate as CaCO ₃ *	2380	10.0	8.00	mg/L	10	07/02/24 09:15	2320 B		HIC
Cation/Anion Balance	-5.77	-100	-100	%	1	07/01/24 15:33	Calculation		JDA
Chloride*	579	10.0	0.555	mg/L	10	07/01/24 19:06	EPA300.0		AWG
Fluoride*	2.74	1.00	0.0971	mg/L	10	07/01/24 19:06	EPA300.0		AWG
Nitrate/Nitrite as N*	<0.020	0.020	0.013	mg/L as N	1	06/27/24 13:44	EPA353.2		CAI
pH*	8.01			pH Units	1	06/21/24 10:25	EPA150.1		HIC
pH Temperature, degrees C	21.8			pH Units	1	06/21/24 10:25	EPA150.1		HIC
Sulfate*	<10.0	10.0	1.24	mg/L	10	07/01/24 19:06	EPA300.0		AWG
Total Dissolved Solids*	3490	10.0		mg/L	1	06/27/24 17:22	EPA160.1		HIC
Total Organic Carbon*	5.89	0.500	0.290	mg/L	1	06/28/24 23:49	5310C		AES

Dissolved Metals by ICP

Aluminum*	<0.100	0.100	0.044	mg/L	2	06/28/24 12:51	EPA200.7		AWG
Calcium*	4.89	0.200	0.036	mg/L	2	06/28/24 12:51	EPA200.7		AWG
Hardness as CaCO ₃	20.9	1.32	0.339	mg/L	2	06/28/24 12:51	2340 B		AWG
Iron*	0.604	0.100	0.040	mg/L	2	06/28/24 12:51	EPA200.7		AWG
Magnesium*	2.11	0.200	0.061	mg/L	2	06/28/24 12:51	EPA200.7		AWG
Potassium*	4.13	2.00	0.150	mg/L	2	06/28/24 12:51	EPA200.7		AWG
Silica (SiO ₂)	8.45	2.14	0.199	mg/L	2	06/28/24 12:51	Calculation		AWG
Silicon	3.95	1.00	0.093	mg/L	2	06/28/24 12:51	EPA200.7		AWG
Sodium*	1370	10.0	2.30	mg/L	10	07/01/24 18:43	EPA200.7		AWG

Dissolved Metals by ICPMS

Arsenic*	0.0221	0.0100	0.0062	mg/L	10	06/26/24 15:23	EPA200.8		JDA
Cadmium*	<0.0050	0.0050	0.0006	mg/L	10	06/26/24 15:23	EPA200.8		JDA
Copper*	0.0566	0.0100	0.0008	mg/L	10	06/26/24 15:23	EPA200.8		JDA
Lead*	<0.0050	0.0050	0.0012	mg/L	10	06/26/24 15:23	EPA200.8		JDA
Manganese*	<0.0050	0.0050	0.0018	mg/L	10	06/26/24 15:23	EPA200.8		JDA
Molybdenum*	<0.0050	0.0050	0.0005	mg/L	10	06/26/24 15:23	EPA200.8		JDA
Selenium*	0.0303	0.0100	0.0027	mg/L	10	06/26/24 15:23	EPA200.8		JDA

Green Analytical Laboratories

Veronica J Wells

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/05/24 09:41

MW-4-C

2406272-01 (Ground Water)

Sampled Date: 06/20/24 11:49

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Dissolved Metals by ICPMS

Uranium	<0.0050	0.0050	0.0004	mg/L	10	06/26/24 15:23	EPA200.8		JDA
Zinc*	<0.0200	0.0200	0.0060	mg/L	10	06/26/24 15:23	EPA200.8		JDA

Dissolved Mercury by CVAFS

Mercury	<100	100	19.6	ng/L	1	07/01/24 11:44	EPA245.7		CAI
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Green Analytical Laboratories

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

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/05/24 09:41

MW-4-A

2406272-02 (Ground Water)

Sampled Date: 06/20/24 11:20

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

Alkalinity, Total as CaCO ₃ *	585	10.0	8.00	mg/L	5	07/02/24 09:15	2320 B		HIC
Alkalinity, Hydroxide as CaCO ₃ *	<10.0	10.0	8.00	mg/L	5	07/02/24 09:15	2320 B		HIC
Alkalinity, Carbonate as CaCO ₃ *	<10.0	10.0	8.00	mg/L	5	07/02/24 09:15	2320 B		HIC
Alkalinity, Bicarbonate as CaCO ₃ *	585	10.0	8.00	mg/L	5	07/02/24 09:15	2320 B		HIC
Cation/Anion Balance	-1.29	-100	-100	%	1	07/01/24 15:33	Calculation		JDA
Chloride*	<25.0	25.0	1.39	mg/L	25	07/01/24 19:26	EPA300.0		AWG
Fluoride*	<2.50	2.50	0.243	mg/L	25	07/01/24 19:26	EPA300.0		AWG
Nitrate/Nitrite as N*	0.025	0.020	0.013	mg/L as N	1	06/27/24 13:45	EPA353.2		CAI
pH*	8.21			pH Units	1	06/21/24 10:25	EPA150.1		HIC
pH Temperature, degrees C	21.9			pH Units	1	06/21/24 10:25	EPA150.1		HIC
Sulfate*	576	25.0	3.10	mg/L	25	07/01/24 19:26	EPA300.0		AWG
Total Dissolved Solids*	1430	10.0		mg/L	1	06/27/24 17:24	EPA160.1		HIC
Total Organic Carbon*	3.34	0.500	0.290	mg/L	1	06/29/24 01:54	5310C		AES

Dissolved Metals by ICP

Aluminum*	<0.100	0.100	0.044	mg/L	2	06/28/24 15:42	EPA200.7		AWG
Calcium*	2.11	0.200	0.036	mg/L	2	06/28/24 15:42	EPA200.7		AWG
Hardness as CaCO ₃	8.97	1.32	0.339	mg/L	2	06/28/24 15:42	2340 B		AWG
Iron*	<0.100	0.100	0.040	mg/L	2	06/28/24 15:42	EPA200.7		AWG
Magnesium*	0.897	0.200	0.061	mg/L	2	06/28/24 15:42	EPA200.7		AWG
Potassium*	<2.00	2.00	0.150	mg/L	2	06/28/24 15:42	EPA200.7		AWG
Silica (SiO ₂)	9.45	2.14	0.199	mg/L	2	06/28/24 15:42	Calculation		AWG
Silicon	4.42	1.00	0.093	mg/L	2	06/28/24 15:42	EPA200.7		AWG
Sodium*	520	2.00	0.460	mg/L	2	06/28/24 15:42	EPA200.7		AWG

Dissolved Metals by ICPMS

Arsenic*	<0.0020	0.0020	0.0012	mg/L	2	06/26/24 15:28	EPA200.8		JDA
Cadmium*	<0.0010	0.0010	0.0001	mg/L	2	06/26/24 15:28	EPA200.8		JDA
Copper*	0.0204	0.0020	0.0002	mg/L	2	06/26/24 15:28	EPA200.8		JDA
Lead*	<0.0010	0.0010	0.0002	mg/L	2	06/26/24 15:28	EPA200.8		JDA
Manganese*	0.0029	0.0010	0.0004	mg/L	2	06/26/24 15:28	EPA200.8		JDA
Molybdenum*	<0.0010	0.0010	0.0001	mg/L	2	06/26/24 15:28	EPA200.8		JDA
Selenium*	<0.0020	0.0020	0.0005	mg/L	2	06/26/24 15:28	EPA200.8		JDA

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Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/05/24 09:41

MW-4-A

2406272-02 (Ground Water)

Sampled Date: 06/20/24 11:20

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Dissolved Metals by ICPMS

Uranium	<0.0010	0.0010	0.00008	mg/L	2	06/26/24 15:28	EPA200.8		JDA
Zinc*	0.0088	0.0040	0.0012	mg/L	2	06/26/24 15:28	EPA200.8		JDA

Dissolved Mercury by CVAFS

Mercury	<100	100	19.6	ng/L	1	07/01/24 11:47	EPA245.7		CAI
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Green Analytical Laboratories

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

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/05/24 09:41

MW-4-MI

2406272-03 (Ground Water)

Sampled Date: 06/20/24 10:31

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

Alkalinity, Total as CaCO ₃ *	1040	10.0	8.00	mg/L	5	07/02/24 09:15	2320 B		HIC
Alkalinity, Hydroxide as CaCO ₃ *	<10.0	10.0	8.00	mg/L	5	07/02/24 09:15	2320 B		HIC
Alkalinity, Carbonate as CaCO ₃ *	40.0	10.0	8.00	mg/L	5	07/02/24 09:15	2320 B		HIC
Alkalinity, Bicarbonate as CaCO ₃ *	995	10.0	8.00	mg/L	5	07/02/24 09:15	2320 B		HIC
Cation/Anion Balance	-5.01	-100	-100	%	1	07/01/24 15:33	Calculation		JDA
Chloride*	3.46	2.00	0.111	mg/L	2	07/01/24 20:46	EPA300.0		AWG
Fluoride*	5.66	0.200	0.0194	mg/L	2	07/01/24 20:46	EPA300.0		AWG
Nitrate/Nitrite as N*	<0.020	0.020	0.013	mg/L as N	1	06/27/24 13:47	EPA353.2		CAI
pH*	8.23			pH Units	1	06/21/24 10:25	EPA150.1		HIC
pH Temperature, degrees C	21.5			pH Units	1	06/21/24 10:25	EPA150.1		HIC
Sulfate*	8.99	2.00	0.248	mg/L	2	07/01/24 20:46	EPA300.0		AWG
Total Dissolved Solids*	1030	10.0		mg/L	1	06/27/24 17:26	EPA160.1		HIC
Total Organic Carbon*	3.57	0.500	0.290	mg/L	1	06/29/24 02:51	5310C		AES

Dissolved Metals by ICP

Aluminum*	<0.100	0.100	0.044	mg/L	2	06/28/24 12:59	EPA200.7		AWG
Calcium*	1.35	0.200	0.036	mg/L	2	06/28/24 12:59	EPA200.7		AWG
Hardness as CaCO ₃	4.92	1.32	0.339	mg/L	2	06/28/24 12:59	2340 B		AWG
Iron*	<0.100	0.100	0.040	mg/L	2	06/28/24 12:59	EPA200.7		AWG
Magnesium*	0.380	0.200	0.061	mg/L	2	06/28/24 12:59	EPA200.7		AWG
Potassium*	<2.00	2.00	0.150	mg/L	2	06/28/24 12:59	EPA200.7		AWG
Silica (SiO ₂)	8.08	2.14	0.199	mg/L	2	06/28/24 12:59	Calculation		AWG
Silicon	3.78	1.00	0.093	mg/L	2	06/28/24 12:59	EPA200.7		AWG
Sodium*	427	2.00	0.460	mg/L	2	06/28/24 12:59	EPA200.7		AWG

Dissolved Metals by ICPMS

Arsenic*	0.0082	0.0020	0.0012	mg/L	2	06/26/24 15:29	EPA200.8		JDA
Cadmium*	<0.0010	0.0010	0.0001	mg/L	2	06/26/24 15:29	EPA200.8		JDA
Copper*	0.0165	0.0020	0.0002	mg/L	2	06/26/24 15:29	EPA200.8		JDA
Lead*	<0.0010	0.0010	0.0002	mg/L	2	06/26/24 15:29	EPA200.8		JDA
Manganese*	0.0116	0.0010	0.0004	mg/L	2	06/26/24 15:29	EPA200.8		JDA
Molybdenum*	0.0046	0.0010	0.0001	mg/L	2	06/26/24 15:29	EPA200.8		JDA
Selenium*	<0.0020	0.0020	0.0005	mg/L	2	06/26/24 15:29	EPA200.8		JDA

Green Analytical Laboratories

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/05/24 09:41

MW-4-MI

2406272-03 (Ground Water)

Sampled Date: 06/20/24 10:31

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Dissolved Metals by ICPMS

Uranium	0.0051	0.0010	0.00008	mg/L	2	06/26/24 15:29	EPA200.8		JDA
Zinc*	<0.0040	0.0040	0.0012	mg/L	2	06/26/24 15:29	EPA200.8		JDA

Dissolved Mercury by CVAFS

Mercury	<100	100	19.6	ng/L	1	07/01/24 11:50	EPA245.7		CAI
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A handwritten signature in blue ink that reads 'Veronica J. Wells'.

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/05/24 09:41

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 B241769 - General Prep - Wet Chem

Reference (B241769-SRM1)

Prepared & Analyzed: 06/21/24

pH	7.01		pH Units	7.00		100	98.57-101.42			
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Batch B241818 - Lachat

Blank (B241818-BLK1)

Prepared & Analyzed: 06/27/24

Nitrate/Nitrite as N	ND	0.020	mg/L as N							
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LCS (B241818-BS1)

Prepared & Analyzed: 06/27/24

Nitrate/Nitrite as N	0.910	0.020	mg/L as N	1.00		91.0	90-110			
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LCS Dup (B241818-BSD1)

Prepared & Analyzed: 06/27/24

Nitrate/Nitrite as N	0.918	0.020	mg/L as N	1.00		91.8	90-110	0.864	20	
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Batch B241828 - General Prep - Wet Chem

Blank (B241828-BLK1)

Prepared & Analyzed: 06/27/24

Total Dissolved Solids	ND	10.0	mg/L							
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Reference (B241828-SRM1)

Prepared & Analyzed: 06/27/24

Total Dissolved Solids	430	10.0	mg/L	400		108	85-115			
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Batch B241835 - IC- Ion Chromatograph

Blank (B241835-BLK1)

Prepared & Analyzed: 06/28/24

Chloride	ND	1.00	mg/L							
Fluoride	ND	0.100	mg/L							
Sulfate	ND	1.00	mg/L							

LCS (B241835-BS1)

Prepared & Analyzed: 06/28/24

Chloride	23.8	1.00	mg/L	25.0		95.4	90-110			
Fluoride	2.47	0.100	mg/L	2.50		98.7	90-110			
Sulfate	23.5	1.00	mg/L	25.0		93.9	90-110			

LCS Dup (B241835-BSD1)

Prepared & Analyzed: 06/28/24

Chloride	25.1	1.00	mg/L	25.0		100	90-110	5.08	20	
Fluoride	2.60	0.100	mg/L	2.50		104	90-110	5.06	20	
Sulfate	24.7	1.00	mg/L	25.0		98.9	90-110	5.24	20	

Batch B241838 - General Prep - Wet Chem

Blank (B241838-BLK1)

Prepared & Analyzed: 06/28/24

Green Analytical Laboratories

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/05/24 09:41

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 B241838 - General Prep - Wet Chem (Continued)

Blank (B241838-BLK1) (Continued)

Prepared & Analyzed: 06/28/24

Total Organic Carbon	ND	0.500	mg/L
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LCS (B241838-BS1)

Prepared & Analyzed: 06/28/24

Total Organic Carbon	9.77	0.500	mg/L	10.0	97.7	85-115
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LCS Dup (B241838-BSD1)

Prepared & Analyzed: 06/28/24

Total Organic Carbon	9.57	0.500	mg/L	10.0	95.7	85-115	2.01	20
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Batch B241839 - General Prep - Wet Chem

Blank (B241839-BLK1)

Prepared & Analyzed: 06/29/24

Total Organic Carbon	ND	0.500	mg/L
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LCS (B241839-BS1)

Prepared & Analyzed: 06/29/24

Total Organic Carbon	9.61	0.500	mg/L	10.0	96.1	85-115
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LCS Dup (B241839-BSD1)

Prepared & Analyzed: 06/29/24

Total Organic Carbon	9.53	0.500	mg/L	10.0	95.3	85-115	0.857	20
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Batch B241865 - General Prep - Wet Chem

Blank (B241865-BLK1)

Prepared: 07/01/24 Analyzed: 07/02/24

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 (B241865-BS1)

Prepared: 07/01/24 Analyzed: 07/02/24

Alkalinity, Total as CaCO ₃	106	10.0	mg/L	100	106	85-115
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LCS Dup (B241865-BSD1)

Prepared: 07/01/24 Analyzed: 07/02/24

Alkalinity, Total as CaCO ₃	107	10.0	mg/L	100	107	85-115	0.939	20
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Reference (B241865-SRM1)

Prepared: 07/01/24 Analyzed: 07/02/24

Alkalinity, Total as CaCO ₃	107	10.0	mg/L	100	107	85-115
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Batch B241868 - IC- Ion Chromatograph

Blank (B241868-BLK1)

Prepared & Analyzed: 07/01/24

Chloride	ND	1.00	mg/L
Fluoride	ND	0.100	mg/L
Sulfate	ND	1.00	mg/L

LCS (B241868-BS1)

Prepared & Analyzed: 07/01/24

Green Analytical Laboratories

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/05/24 09:41

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 B241868 - IC- Ion Chromatograph (Continued)

LCS (B241868-BS1) (Continued)

Prepared & Analyzed: 07/01/24

Chloride	24.6	1.00	mg/L	25.0		98.6	90-110			
Fluoride	2.54	0.100	mg/L	2.50		101	90-110			
Sulfate	24.2	1.00	mg/L	25.0		97.0	90-110			

LCS Dup (B241868-BSD1)

Prepared & Analyzed: 07/01/24

Chloride	25.0	1.00	mg/L	25.0		100	90-110	1.63	20	
Fluoride	2.58	0.100	mg/L	2.50		103	90-110	1.64	20	
Sulfate	24.6	1.00	mg/L	25.0		98.6	90-110	1.66	20	

Green Analytical Laboratories

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/05/24 09:41

Dissolved Metals by ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B241803 - Dissolved ICP

Blank (B241803-BLK1)

Prepared: 06/26/24 Analyzed: 06/28/24

Aluminum	ND	0.050	mg/L
Calcium	ND	0.100	mg/L
Iron	ND	0.050	mg/L
Magnesium	ND	0.100	mg/L
Potassium	ND	1.00	mg/L
Silicon	ND	0.500	mg/L
Sodium	ND	1.00	mg/L

LCS (B241803-BS1)

Prepared: 06/26/24 Analyzed: 06/28/24

Aluminum	3.97	0.050	mg/L	4.00	99.2	85-115
Calcium	4.02	0.100	mg/L	4.00	100	85-115
Iron	4.07	0.050	mg/L	4.00	102	85-115
Magnesium	20.0	0.100	mg/L	20.0	100	85-115
Potassium	7.99	1.00	mg/L	8.00	99.9	85-115
Silicon	3.96	0.500	mg/L	4.00	99.1	85-115
Sodium	3.37	1.00	mg/L	3.24	104	85-115

LCS Dup (B241803-BSD1)

Prepared: 06/26/24 Analyzed: 06/28/24

Aluminum	3.92	0.050	mg/L	4.00	97.9	85-115	1.29	20
Calcium	3.92	0.100	mg/L	4.00	98.0	85-115	2.46	20
Iron	3.96	0.050	mg/L	4.00	98.9	85-115	2.81	20
Magnesium	19.7	0.100	mg/L	20.0	98.4	85-115	1.59	20
Potassium	7.88	1.00	mg/L	8.00	98.5	85-115	1.34	20
Silicon	3.90	0.500	mg/L	4.00	97.5	85-115	1.67	20
Sodium	3.34	1.00	mg/L	3.24	103	85-115	0.820	20

Green Analytical Laboratories

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/05/24 09:41

Dissolved Metals by ICPMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B241804 - Dissolved ICPMS

Blank (B241804-BLK1)

Prepared & Analyzed: 06/26/24

Arsenic	ND	0.0010	mg/L							
Cadmium	ND	0.0005	mg/L							
Copper	ND	0.0010	mg/L							
Lead	ND	0.0005	mg/L							
Manganese	ND	0.0005	mg/L							
Molybdenum	ND	0.0005	mg/L							
Selenium	ND	0.0010	mg/L							
Uranium	ND	0.0005	mg/L							
Zinc	ND	0.0020	mg/L							

LCS (B241804-BS1)

Prepared & Analyzed: 06/26/24

Arsenic	0.0506	0.0010	mg/L	0.0500	101	85-115				
Cadmium	0.0510	0.0005	mg/L	0.0500	102	85-115				
Copper	0.0516	0.0010	mg/L	0.0500	103	85-115				
Lead	0.0535	0.0005	mg/L	0.0500	107	85-115				
Manganese	0.0510	0.0005	mg/L	0.0500	102	85-115				
Molybdenum	0.0500	0.0005	mg/L	0.0500	100	85-115				
Selenium	0.251	0.0010	mg/L	0.250	100	85-115				
Uranium	0.0533	0.0005	mg/L	0.0500	107	85-115				
Zinc	0.0513	0.0020	mg/L	0.0500	103	85-115				

LCS Dup (B241804-BSD1)

Prepared & Analyzed: 06/26/24

Arsenic	0.0533	0.0010	mg/L	0.0500	107	85-115	5.18	20		
Cadmium	0.0526	0.0005	mg/L	0.0500	105	85-115	2.94	20		
Copper	0.0536	0.0010	mg/L	0.0500	107	85-115	3.75	20		
Lead	0.0518	0.0005	mg/L	0.0500	104	85-115	3.27	20		
Manganese	0.0533	0.0005	mg/L	0.0500	107	85-115	4.58	20		
Molybdenum	0.0520	0.0005	mg/L	0.0500	104	85-115	3.82	20		
Selenium	0.262	0.0010	mg/L	0.250	105	85-115	4.29	20		
Uranium	0.0518	0.0005	mg/L	0.0500	104	85-115	2.99	20		
Zinc	0.0533	0.0020	mg/L	0.0500	107	85-115	3.86	20		

Green Analytical Laboratories

Veronica J. Wells

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/05/24 09:41

Dissolved Mercury by CVAFS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B241829 - EPA 245.7

Blank (B241829-BLK1)

Prepared: 06/27/24 Analyzed: 07/01/24

Mercury	ND	100	ng/L
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LCS (B241829-BS1)

Prepared: 06/27/24 Analyzed: 07/01/24

Mercury	890	100	ng/L	1000	89.0	76-113
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LCS Dup (B241829-BSD1)

Prepared: 06/27/24 Analyzed: 07/01/24

Mercury	874	100	ng/L	1000	87.4	76-113	1.81	20
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Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis *Results reported on as received basis unless designated as dry.
RPD	Relative Percent Difference
LCS	Laboratory Control Sample (Blank Spike)
RL	Report Limit
MDL	Method Detection Limit

Green Analytical Laboratories

Veronica Wells, Project Manager

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Note: Write-Out™ or similar products cannot be used on the Chain of Custody

FORM-006, R 8.0

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

Project Information

Table of Contents
Printed: 06/21/2024 8:39 am

GCC Energy, LLC

6473 CR 120
Hesperus, CO 81326
Laboratory PM: Veronica Wells

GCC Energy

Phone: (970) 385-4528
Fax: (970) 385-4638

Project Name: GCC GW Baseline
Project Number:
Client PM: Michael Dickson
Comments: All Metals Are Field Filtered. Send Out PRESERVED bottles per Landon. 11-01-18

Analysis	Comment
----------	---------

Alkalinity, Total
Aluminum Dissolved by ICP
Arsenic Dissolved by ICPMS
CAB
Cadmium Dissolved by ICPMS
Chloride [IC]
Copper Dissolved by ICPMS
Fluoride [IC]
Hardness [DISSOLVED]
Iron Dissolved by ICP
Lead Dissolved by ICPMS
Manganese Dissolved by ICPMS
Mercury Dissolved by CVAFS
Molybdenum Dissolved by ICPMS
Nitrate/Nitrite [LACHAT]
pH
Potassium Dissolved by ICP
Selenium Dissolved by ICPMS
Silica Dissolved by ICP
Sodium Dissolved by ICP
Sulfate [IC]
Total Dissolved Solids [TDS]
Total Organic Carbon [TOC]
Uranium Dissolved by ICPMS
Zinc Dissolved by ICPMS

Hardness [DISSOLVED] subanalyses:

Calcium Dissolved by ICP
Magnesium Dissolved by ICP

Silica Dissolved by ICP subanalyses:

Silicon Dissolved by ICP

All metals are field filtered. Send out preserved bottles

SAMPLE CONDITION RECEIPT FORM

Client Name: GCC Energy

Work Order # 2406-272

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Kangaroo ☐ Third Party ☐ Other

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: 5.7 °C Correction Factor: 0 °C Final Temp: 5.7 °C

* Temp should be above freezing to 6°C

Date/Initials of person examining contents: 6.21.24
GDW

Labeled by initials: _____
(if different than above)

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

05 July 2024

Michael Dickson
GCC Energy, LLC
6473 CR 120
Hesperus, CO 81326
RE: [none]

Enclosed are the results of analyses for samples received by the laboratory on 06/21/24 16:10. 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: TX-C24-00019

Our affiliate laboratory, Cardinal Laboratories, is also NELAP accredited through the Texas Commission on Environmental Quality for a variety of organic constituents in drinking water, non-potable water and solid matrices. Cardinal is also accredited for regulated VOCs, TTHM, and HAA-5 in drinking water through the Colorado Department of Public Health and Environment and EPA region 8. TNI Certificate Number: TX-C24-00112

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/05/24 09:45

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
WILTSE WELL	2406284-01	Water	06/21/24 13:55	06/21/24 16:10	

Green Analytical Laboratories

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

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/05/24 09:45

WILTSE WELL

2406284-01 (Ground Water)

Sampled Date: 06/21/24 13:55

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

Alkalinity, Total as CaCO ₃ *	495	10.0	8.00	mg/L	5	07/02/24 09:15	2320 B		HIC
Alkalinity, Hydroxide as CaCO ₃ *	<10.0	10.0	8.00	mg/L	5	07/02/24 09:15	2320 B		HIC
Alkalinity, Carbonate as CaCO ₃ *	<10.0	10.0	8.00	mg/L	5	07/02/24 09:15	2320 B		HIC
Alkalinity, Bicarbonate as CaCO ₃ *	495	10.0	8.00	mg/L	5	07/02/24 09:15	2320 B		HIC
Cation/Anion Balance	-1.31	-100	-100	%	1	07/01/24 15:33	Calculation		JDA
Chloride*	57.2	5.00	0.278	mg/L	5	07/01/24 21:06	EPA300.0		AWG
Fluoride*	<0.500	0.500	0.0486	mg/L	5	07/01/24 21:06	EPA300.0		AWG
Nitrate/Nitrite as N*	0.469	0.100	0.065	mg/L as N	5	06/27/24 13:48	EPA353.2		CAI
pH*	7.10			pH Units	1	06/21/24 16:20	EPA150.1		HIC
pH Temperature, degrees C	21.0			pH Units	1	06/21/24 16:20	EPA150.1		HIC
Sulfate*	947	5.00	0.620	mg/L	5	07/01/24 21:06	EPA300.0		AWG
Total Dissolved Solids*	1900	10.0		mg/L	1	06/27/24 17:28	EPA160.1		HIC
Total Organic Carbon*	3.76	0.500	0.290	mg/L	1	06/29/24 04:53	5310C		AES

Dissolved Metals by ICP

Aluminum*	<0.100	0.100	0.044	mg/L	2	06/28/24 15:55	EPA200.7		AWG
Calcium*	259	0.200	0.036	mg/L	2	06/28/24 15:55	EPA200.7		AWG
Hardness as CaCO ₃	1320	1.32	0.339	mg/L	2	06/28/24 15:55	2340 B		AWG
Iron*	0.194	0.100	0.040	mg/L	2	06/28/24 15:55	EPA200.7		AWG
Magnesium*	163	0.200	0.061	mg/L	2	06/28/24 15:55	EPA200.7		AWG
Potassium*	4.98	2.00	0.150	mg/L	2	06/28/24 15:55	EPA200.7		AWG
Silica (SiO ₂)	14.9	2.14	0.199	mg/L	2	06/28/24 15:55	Calculation		AWG
Silicon	6.96	1.00	0.093	mg/L	2	06/28/24 15:55	EPA200.7		AWG
Sodium*	66.5	2.00	0.460	mg/L	2	06/28/24 15:55	EPA200.7		AWG

Dissolved Metals by ICPMS

Arsenic*	<0.0020	0.0020	0.0012	mg/L	2	06/26/24 15:34	EPA200.8		JDA
Cadmium*	<0.0010	0.0010	0.0001	mg/L	2	06/26/24 15:34	EPA200.8		JDA
Copper*	0.0052	0.0020	0.0002	mg/L	2	06/26/24 15:34	EPA200.8		JDA
Lead*	<0.0010	0.0010	0.0002	mg/L	2	06/26/24 15:34	EPA200.8		JDA
Manganese*	1.22	0.0010	0.0004	mg/L	2	06/26/24 15:34	EPA200.8		JDA
Molybdenum*	0.0020	0.0010	0.0001	mg/L	2	06/26/24 15:34	EPA200.8		JDA
Selenium*	<0.0020	0.0020	0.0005	mg/L	2	06/26/24 15:34	EPA200.8		JDA

Green Analytical Laboratories

Veronica J Wells

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/05/24 09:45

WILTSE WELL

2406284-01 (Ground Water)

Sampled Date: 06/21/24 13:55

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Dissolved Metals by ICPMS

Uranium	0.0031	0.0010	0.00008	mg/L	2	06/26/24 15:34	EPA200.8		JDA
Zinc*	0.0173	0.0040	0.0012	mg/L	2	06/26/24 15:34	EPA200.8		JDA

Dissolved Mercury by CVAFS

Mercury	<100	100	19.6	ng/L	1	07/01/24 11:52	EPA245.7		CAI
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Green Analytical Laboratories

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

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/05/24 09:45

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B241769 - General Prep - Wet Chem										
Reference (B241769-SRM1)				Prepared & Analyzed: 06/21/24						
pH	7.01		pH Units	7.00		100	98.57-101.42			
Batch B241818 - Lachat										
Blank (B241818-BLK1)				Prepared & Analyzed: 06/27/24						
Nitrate/Nitrite as N	ND	0.020	mg/L as N							
LCS (B241818-BS1)				Prepared & Analyzed: 06/27/24						
Nitrate/Nitrite as N	0.910	0.020	mg/L as N	1.00		91.0	90-110			
LCS Dup (B241818-BSD1)				Prepared & Analyzed: 06/27/24						
Nitrate/Nitrite as N	0.918	0.020	mg/L as N	1.00		91.8	90-110	0.864	20	
Batch B241828 - General Prep - Wet Chem										
Blank (B241828-BLK1)				Prepared & Analyzed: 06/27/24						
Total Dissolved Solids	ND	10.0	mg/L							
Reference (B241828-SRM1)				Prepared & Analyzed: 06/27/24						
Total Dissolved Solids	430	10.0	mg/L	400		108	85-115			
Batch B241839 - General Prep - Wet Chem										
Blank (B241839-BLK1)				Prepared & Analyzed: 06/29/24						
Total Organic Carbon	ND	0.500	mg/L							
LCS (B241839-BS1)				Prepared & Analyzed: 06/29/24						
Total Organic Carbon	9.61	0.500	mg/L	10.0		96.1	85-115			
LCS Dup (B241839-BSD1)				Prepared & Analyzed: 06/29/24						
Total Organic Carbon	9.53	0.500	mg/L	10.0		95.3	85-115	0.857	20	
Batch B241865 - General Prep - Wet Chem										
Blank (B241865-BLK1)				Prepared: 07/01/24 Analyzed: 07/02/24						
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 (B241865-BS1)				Prepared: 07/01/24 Analyzed: 07/02/24						

Green Analytical Laboratories

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/05/24 09:45

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 B241865 - General Prep - Wet Chem (Continued)

LCS (B241865-BS1) (Continued)

Prepared: 07/01/24 Analyzed: 07/02/24

Alkalinity, Total as CaCO ₃	106	10.0	mg/L	100	106	85-115
--	-----	------	------	-----	-----	--------

LCS Dup (B241865-BSD1)

Prepared: 07/01/24 Analyzed: 07/02/24

Alkalinity, Total as CaCO ₃	107	10.0	mg/L	100	107	85-115	0.939	20
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Reference (B241865-SRM1)

Prepared: 07/01/24 Analyzed: 07/02/24

Alkalinity, Total as CaCO ₃	107	10.0	mg/L	100	107	85-115
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Batch B241868 - IC- Ion Chromatograph

Blank (B241868-BLK1)

Prepared & Analyzed: 07/01/24

Chloride	ND	1.00	mg/L
Fluoride	ND	0.100	mg/L
Sulfate	ND	1.00	mg/L

LCS (B241868-BS1)

Prepared & Analyzed: 07/01/24

Chloride	24.6	1.00	mg/L	25.0	98.6	90-110
Fluoride	2.54	0.100	mg/L	2.50	101	90-110
Sulfate	24.2	1.00	mg/L	25.0	97.0	90-110

LCS Dup (B241868-BSD1)

Prepared & Analyzed: 07/01/24

Chloride	25.0	1.00	mg/L	25.0	100	90-110	1.63	20
Fluoride	2.58	0.100	mg/L	2.50	103	90-110	1.64	20
Sulfate	24.6	1.00	mg/L	25.0	98.6	90-110	1.66	20

Green Analytical Laboratories

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/05/24 09:45

Dissolved Metals by ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B241826 - Dissolved ICP

Blank (B241826-BLK1)

Prepared: 06/27/24 Analyzed: 06/28/24

Aluminum	ND	0.050	mg/L
Calcium	ND	0.100	mg/L
Iron	ND	0.050	mg/L
Magnesium	ND	0.100	mg/L
Potassium	ND	1.00	mg/L
Silicon	ND	0.500	mg/L
Sodium	ND	1.00	mg/L

LCS (B241826-BS1)

Prepared: 06/27/24 Analyzed: 06/28/24

Aluminum	4.01	0.050	mg/L	4.00	100	85-115
Calcium	4.01	0.100	mg/L	4.00	100	85-115
Iron	4.08	0.050	mg/L	4.00	102	85-115
Magnesium	20.0	0.100	mg/L	20.0	99.8	85-115
Potassium	7.96	1.00	mg/L	8.00	99.6	85-115
Silicon	3.99	0.500	mg/L	4.00	99.7	85-115
Sodium	3.27	1.00	mg/L	3.24	101	85-115

LCS Dup (B241826-BSD1)

Prepared: 06/27/24 Analyzed: 06/28/24

Aluminum	4.01	0.050	mg/L	4.00	100	85-115	0.0898	20
Calcium	4.03	0.100	mg/L	4.00	101	85-115	0.442	20
Iron	4.08	0.050	mg/L	4.00	102	85-115	0.0951	20
Magnesium	20.0	0.100	mg/L	20.0	100	85-115	0.208	20
Potassium	8.07	1.00	mg/L	8.00	101	85-115	1.36	20
Silicon	3.99	0.500	mg/L	4.00	99.8	85-115	0.107	20
Sodium	3.29	1.00	mg/L	3.24	102	85-115	0.515	20

Green Analytical Laboratories

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/05/24 09:45

Dissolved Metals by ICPMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B241804 - Dissolved ICPMS

Blank (B241804-BLK1)

Prepared & Analyzed: 06/26/24

Arsenic	ND	0.0010	mg/L							
Cadmium	ND	0.0005	mg/L							
Copper	ND	0.0010	mg/L							
Lead	ND	0.0005	mg/L							
Manganese	ND	0.0005	mg/L							
Molybdenum	ND	0.0005	mg/L							
Selenium	ND	0.0010	mg/L							
Uranium	ND	0.0005	mg/L							
Zinc	ND	0.0020	mg/L							

LCS (B241804-BS1)

Prepared & Analyzed: 06/26/24

Arsenic	0.0506	0.0010	mg/L	0.0500	101	85-115				
Cadmium	0.0510	0.0005	mg/L	0.0500	102	85-115				
Copper	0.0516	0.0010	mg/L	0.0500	103	85-115				
Lead	0.0535	0.0005	mg/L	0.0500	107	85-115				
Manganese	0.0510	0.0005	mg/L	0.0500	102	85-115				
Molybdenum	0.0500	0.0005	mg/L	0.0500	100	85-115				
Selenium	0.251	0.0010	mg/L	0.250	100	85-115				
Uranium	0.0533	0.0005	mg/L	0.0500	107	85-115				
Zinc	0.0513	0.0020	mg/L	0.0500	103	85-115				

LCS Dup (B241804-BSD1)

Prepared & Analyzed: 06/26/24

Arsenic	0.0533	0.0010	mg/L	0.0500	107	85-115	5.18	20		
Cadmium	0.0526	0.0005	mg/L	0.0500	105	85-115	2.94	20		
Copper	0.0536	0.0010	mg/L	0.0500	107	85-115	3.75	20		
Lead	0.0518	0.0005	mg/L	0.0500	104	85-115	3.27	20		
Manganese	0.0533	0.0005	mg/L	0.0500	107	85-115	4.58	20		
Molybdenum	0.0520	0.0005	mg/L	0.0500	104	85-115	3.82	20		
Selenium	0.262	0.0010	mg/L	0.250	105	85-115	4.29	20		
Uranium	0.0518	0.0005	mg/L	0.0500	104	85-115	2.99	20		
Zinc	0.0533	0.0020	mg/L	0.0500	107	85-115	3.86	20		

Green Analytical Laboratories

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/05/24 09:45

Dissolved Mercury by CVAFS - Quality Control

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

Batch B241829 - EPA 245.7

Blank (B241829-BLK1)

Prepared: 06/27/24 Analyzed: 07/01/24

Mercury	ND	100	ng/L
---------	----	-----	------

LCS (B241829-BS1)

Prepared: 06/27/24 Analyzed: 07/01/24

Mercury	890	100	ng/L	1000	89.0	76-113
---------	-----	-----	------	------	------	--------

LCS Dup (B241829-BSD1)

Prepared: 06/27/24 Analyzed: 07/01/24

Mercury	874	100	ng/L	1000	87.4	76-113	1.81	20
---------	-----	-----	------	------	------	--------	------	----

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis *Results reported on as received basis unless designated as dry.
RPD	Relative Percent Difference
LCS	Laboratory Control Sample (Blank Spike)
RL	Report Limit
MDL	Method Detection Limit

Green Analytical Laboratories

Veronica Wells, Project Manager

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST
FORM-006, R 8.0

Note: Wife-Out™ or similar products cannot be used on the Chain of Custody

[illegible]

Project Information

Table of Contents
Printed: 06/21/2024 4:16 pm

GCC Energy, LLC

6473 CR 120
Hesperus, CO 81326
Laboratory PM: Veronica Wells

GCC Energy

Phone: (970) 385-4528
Fax: (970) 385-4638

Project Name: GCC GW Baseline
Project Number:
Client PM: Michael Dickson
Comments: All Metals Are Field Filtered. Send Out PRESERVED bottles per Landon. 11-01-18

Analysis	Comment
Alkalinity, Total	
Aluminum Dissolved by ICP	
Arsenic Dissolved by ICPMS	
CAB	
Cadmium Dissolved by ICPMS	
Chloride [IC]	
Copper Dissolved by ICPMS	
Fluoride [IC]	
Hardness [DISSOLVED]	
Iron Dissolved by ICP	
Lead Dissolved by ICPMS	
Manganese Dissolved by ICPMS	
Mercury Dissolved by CVAFS	
Molybdenum Dissolved by ICPMS	
Nitrate/Nitrite [LACHAT]	
pH	
Potassium Dissolved by ICP	
Selenium Dissolved by ICPMS	
Silica Dissolved by ICP	
Sodium Dissolved by ICP	
Sulfate [IC]	
Total Dissolved Solids [TDS]	
Total Organic Carbon [TOC]	
Uranium Dissolved by ICPMS	
Zinc Dissolved by ICPMS	
Hardness [DISSOLVED] subanalyses:	
Calcium Dissolved by ICP	
Magnesium Dissolved by ICP	
Silica Dissolved by ICP subanalyses:	
Silicon Dissolved by ICP	

All metals are field filtered. Send out preserved bottles



SAMPLE CONDITION RECEIPT FORM

Client Name: GCC EnergyWork Order # 2406-284Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Kangaroo ☐ Third Party ☐ OtherCustody Seals on Box/Cooler Present: ☐ Yes ☒ NoSeals Intact: ☐ Yes ☐ NoThermometer Used: #7 Samples on ice, cooling process has begun: ☒ Yes ☐ NoType of Ice: ☒ Wet ☐ Blue ☐ NoneCooler Temp: Observed Temp: 15.6 °C Correction Factor: 0 °C Final Temp: 15.6 °C

* Temp should be above freezing to 6°C

Date/Initials of person
examining contents: 6-24-24
CRWLabeled by initials: _____
(if different than above)

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

Client Notification/Resolution:

Person Contacted: _____

Date/Time: _____

Comments/Resolution: _____



75 Suttle Street
Durango, CO 81303
970.247.4220 Phone
970.247.4227 Fax
jeremy.allen@greenanalytical.com

16 July 2024

Michael Dickson
GCC Energy, LLC
6473 CR 120
Hesperus, CO 81326
RE: [none]

Enclosed are the results of analyses for samples received by the laboratory on 06/21/24 08:15. This data replaces the previous report (See case narrative). 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: TX-C24-00019

Our affiliate laboratory, Cardinal Laboratories, is also NELAP accredited through the Texas Commission on Environmental Quality for a variety of organic constituents in drinking water, non-potable water and solid matrices. Cardinal is also accredited for regulated VOCs, TTHM, and HAA-5 in drinking water through the Colorado Department of Public Health and Environment and EPA region 8. TNI Certificate Number: TX-C24-00112

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GCC Energy, LLC
 6473 CR 120
 Hesperus CO, 81326

Project: GCC SW Baseline w-LLHg
 Project Name / Number: [none]
 Project Manager: Michael Dickson

Reported:
 07/16/24 14:06

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
HAY GULCH UP GRADIENT	2406269-01	Water	06/20/24 19:27	06/21/24 08:15	
HAY GULCH DOWN GRADIENT	2406269-02	Water	06/20/24 16:53	06/21/24 08:15	

Green Analytical Laboratories

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

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC SW Baseline w-LLHg
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/16/24 14:06

This report has been revised due to client request to have the Mercury re-ran. This replaces the previously issued report titled 2406269 GAL FINAL 07 03 24 1607.

Green Analytical Laboratories

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

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC SW Baseline w-LLHg
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/16/24 14:06

HAY GULCH UP GRADIENT

2406269-01 (Ground Water)

Sampled Date: 06/20/24 19:27

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
General Chemistry									
Alkalinity, Total as CaCO ₃ *	175	10.0	8.00	mg/L	1	06/27/24 15:30	2320 B		HIC
Alkalinity, Hydroxide as CaCO ₃ *	<10.0	10.0	8.00	mg/L	1	06/27/24 15:30	2320 B		HIC
Alkalinity, Carbonate as CaCO ₃ *	<10.0	10.0	8.00	mg/L	1	06/27/24 15:30	2320 B		HIC
Alkalinity, Bicarbonate as CaCO ₃ *	175	10.0	8.00	mg/L	1	06/27/24 15:30	2320 B		HIC
Cation/Anion Balance	5.79	-100	-100	%	1	07/01/24 15:33	Calculation		JDA
Chloride*	21.6	1.00	0.0555	mg/L	1	07/01/24 16:07	EPA300.0		AWG
Fluoride*	0.223	0.100	0.00971	mg/L	1	07/01/24 16:07	EPA300.0		AWG
Nitrate/Nitrite as N*	0.085	0.020	0.013	mg/L as N	1	06/27/24 12:56	EPA353.2		CAI
Oil & Grease (HEM)	<5.00	5.00	2.54	mg/L	1	06/26/24 15:12	EPA1664 A		AWG
pH*	7.76			pH Units	1	06/21/24 10:25	EPA150.1		HIC
pH Temperature, degrees C	23.0			pH Units	1	06/21/24 10:25	EPA150.1		HIC
SAR	0.47			No Unit	1	06/28/24 20:17	Calculation		AWG
Sulfate*	76.6	1.00	0.124	mg/L	1	07/01/24 16:07	EPA300.0		AWG
Total Dissolved Solids*	295	20.0		mg/L	1	06/26/24 13:53	EPA160.1	B3	HIC
Total Organic Carbon*	8.72	2.50	1.45	mg/L	5	07/02/24 16:53	5310C		AES
Total Suspended Solids*	57.3	2.50		mg/L	1	06/26/24 14:25	2540 D		HIC
Dissolved Metals by ICP									
Aluminum*	<0.050	0.050	0.022	mg/L	1	06/28/24 12:32	EPA200.7		AWG
Calcium*	50.0	0.100	0.018	mg/L	1	06/28/24 12:32	EPA200.7		AWG
Hardness as CaCO ₃	245	0.662	0.170	mg/L	1	06/28/24 12:32	2340 B		AWG
Iron*	0.081	0.050	0.020	mg/L	1	06/28/24 12:32	EPA200.7		AWG
Magnesium*	29.1	0.100	0.030	mg/L	1	06/28/24 12:32	EPA200.7		AWG
Potassium*	3.32	1.00	0.075	mg/L	1	06/28/24 12:32	EPA200.7		AWG
Silica (SiO ₂)	10.5	1.07	0.0997	mg/L	1	06/28/24 12:32	Calculation		AWG
Silicon	4.90	0.500	0.047	mg/L	1	06/28/24 12:32	EPA200.7		AWG
Sodium*	16.9	1.00	0.230	mg/L	1	06/28/24 12:32	EPA200.7		AWG
Total Recoverable Metals by ICPMS (E200.8)									
Mercury	0.0451	0.0100	0.00430	ug/L	1	06/27/24 13:09	EPA200.8		AES

Green Analytical Laboratories

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC SW Baseline w-LLHg
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/16/24 14:06

HAY GULCH UP GRADIENT

2406269-01 (Ground Water)

Sampled Date: 06/20/24 19:27

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Dissolved Metals by ICPMS

Arsenic*	<0.0010	0.0010	0.0006	mg/L	1	06/26/24 12:54	EPA200.8		JDA
Cadmium*	<0.0005	0.0005	0.00006	mg/L	1	06/26/24 12:54	EPA200.8		JDA
Copper*	0.0036	0.0010	0.00008	mg/L	1	06/26/24 12:54	EPA200.8		JDA
Lead*	<0.0005	0.0005	0.0001	mg/L	1	06/26/24 12:54	EPA200.8		JDA
Manganese*	0.102	0.0005	0.0002	mg/L	1	06/26/24 12:54	EPA200.8		JDA
Molybdenum*	0.0012	0.0005	0.00005	mg/L	1	06/26/24 12:54	EPA200.8		JDA
Selenium*	0.0018	0.0010	0.0003	mg/L	1	06/26/24 12:54	EPA200.8		JDA
Uranium	0.0005	0.0005	0.00004	mg/L	1	06/26/24 12:54	EPA200.8		JDA
Zinc*	0.0095	0.0020	0.0006	mg/L	1	06/26/24 12:54	EPA200.8		JDA

Green Analytical Laboratories

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC SW Baseline w-LLHg
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/16/24 14:06

HAY GULCH UP GRADIENT

2406269-01RE1 (Ground Water)

Sampled Date: 06/20/24 19:27

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Total Recoverable Metals by ICPMS (E200.8)

Mercury	<0.0100	0.0100	0.00430	ug/L	1	07/16/24 12:12	EPA200.8		AES
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Green Analytical Laboratories

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

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC SW Baseline w-LLHg
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/16/24 14:06

HAY GULCH DOWN GRADIENT

2406269-02 (Ground Water)

Sampled Date: 06/20/24 16:53

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
General Chemistry									
Alkalinity, Total as CaCO ₃ *	129	10.0	8.00	mg/L	1	07/02/24 09:15	2320 B		HIC
Alkalinity, Hydroxide as CaCO ₃ *	<10.0	10.0	8.00	mg/L	1	07/02/24 09:15	2320 B		HIC
Alkalinity, Carbonate as CaCO ₃ *	<10.0	10.0	8.00	mg/L	1	07/02/24 09:15	2320 B		HIC
Alkalinity, Bicarbonate as CaCO ₃ *	129	10.0	8.00	mg/L	1	07/02/24 09:15	2320 B		HIC
Cation/Anion Balance	7.83	-100	-100	%	1	07/01/24 15:33	Calculation		JDA
Chloride*	12.7	1.00	0.0555	mg/L	1	07/01/24 16:27	EPA300.0		AWG
Fluoride*	0.216	0.100	0.00971	mg/L	1	07/01/24 16:27	EPA300.0		AWG
Nitrate/Nitrite as N*	0.056	0.020	0.013	mg/L as N	1	06/27/24 12:57	EPA353.2		CAI
Oil & Grease (HEM)	<5.00	5.00	2.54	mg/L	1	06/26/24 15:12	EPA1664 A		AWG
pH*	8.20			pH Units	1	06/21/24 10:25	EPA150.1		HIC
pH Temperature, degrees C	22.8			pH Units	1	06/21/24 10:25	EPA150.1		HIC
SAR	0.29			No Unit	1	06/28/24 20:18	Calculation		AWG
Sulfate*	47.6	1.00	0.124	mg/L	1	07/01/24 16:27	EPA300.0		AWG
Total Dissolved Solids*	195	20.0		mg/L	1	06/26/24 13:55	EPA160.1	B3	HIC
Total Organic Carbon*	2.01	0.500	0.290	mg/L	1	06/28/24 21:56	5310C		AES
Total Suspended Solids*	31.3	2.50		mg/L	1	06/26/24 14:25	2540 D		HIC
Dissolved Metals by ICP									
Aluminum*	<0.050	0.050	0.022	mg/L	1	06/28/24 12:38	EPA200.7		AWG
Calcium*	42.9	0.100	0.018	mg/L	1	06/28/24 12:38	EPA200.7		AWG
Hardness as CaCO ₃	180	0.662	0.170	mg/L	1	06/28/24 12:38	2340 B		AWG
Iron*	<0.050	0.050	0.020	mg/L	1	06/28/24 12:38	EPA200.7		AWG
Magnesium*	17.6	0.100	0.030	mg/L	1	06/28/24 12:38	EPA200.7		AWG
Potassium*	1.36	1.00	0.075	mg/L	1	06/28/24 12:38	EPA200.7		AWG
Silica (SiO ₂)	9.03	1.07	0.0997	mg/L	1	06/28/24 12:38	Calculation		AWG
Silicon	4.22	0.500	0.047	mg/L	1	06/28/24 12:38	EPA200.7		AWG
Sodium*	8.83	1.00	0.230	mg/L	1	06/28/24 12:38	EPA200.7		AWG
Total Recoverable Metals by ICPMS (E200.8)									
Mercury	0.0193	0.0100	0.00430	ug/L	1	06/27/24 13:12	EPA200.8		AES

Green Analytical Laboratories

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC SW Baseline w-LLHg
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/16/24 14:06

HAY GULCH DOWN GRADIENT

2406269-02 (Ground Water)

Sampled Date: 06/20/24 16:53

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Dissolved Metals by ICPMS

Arsenic*	<0.0010	0.0010	0.0006	mg/L	1	06/26/24 12:56	EPA200.8		JDA
Cadmium*	<0.0005	0.0005	0.00006	mg/L	1	06/26/24 12:56	EPA200.8		JDA
Copper*	0.0022	0.0010	0.00008	mg/L	1	06/26/24 12:56	EPA200.8		JDA
Lead*	<0.0005	0.0005	0.0001	mg/L	1	06/26/24 12:56	EPA200.8		JDA
Manganese*	0.0055	0.0005	0.0002	mg/L	1	06/26/24 12:56	EPA200.8		JDA
Molybdenum*	0.0010	0.0005	0.00005	mg/L	1	06/26/24 12:56	EPA200.8		JDA
Selenium*	0.0014	0.0010	0.0003	mg/L	1	06/26/24 12:56	EPA200.8		JDA
Uranium	<0.0005	0.0005	0.00004	mg/L	1	06/26/24 12:56	EPA200.8		JDA
Zinc*	0.0031	0.0020	0.0006	mg/L	1	06/26/24 12:56	EPA200.8		JDA

Green Analytical Laboratories

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC SW Baseline w-LLHg
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/16/24 14:06

HAY GULCH DOWN GRADIENT

2406269-02RE1 (Ground Water)

Sampled Date: 06/20/24 16:53

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
---------	--------	----	-----	-------	----------	----------	--------	-------	---------

Total Recoverable Metals by ICPMS (E200.8)

Mercury	<0.0100	0.0100	0.00430	ug/L	1	07/16/24 12:13	EPA200.8		AES
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Green Analytical Laboratories

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

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC SW Baseline w-LLHg
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/16/24 14:06

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B241678 - General Prep - Wet Chem										
Blank (B241678-BLK1)				Prepared & Analyzed: 06/17/24						
Oil & Grease (HEM)	ND	5.00	mg/L							
LCS (B241678-BS1)				Prepared & Analyzed: 06/17/24						
Oil & Grease (HEM)	40.7	5.00	mg/L	40.0		102	85-115			
LCS Dup (B241678-BSD1)				Prepared & Analyzed: 06/17/24						
Oil & Grease (HEM)	39.0	5.00	mg/L	40.0		97.5	85-115	4.27	20	
Batch B241768 - General Prep - Wet Chem										
Reference (B241768-SRM1)				Prepared & Analyzed: 06/21/24						
pH	7.01		pH Units	7.00		100	98.57-101.42			
Batch B241788 - General Prep - Wet Chem										
Blank (B241788-BLK1)				Prepared: 06/25/24 Analyzed: 06/27/24						
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 (B241788-BS1)				Prepared: 06/25/24 Analyzed: 06/27/24						
Alkalinity, Total as CaCO ₃	106	10.0	mg/L	100		106	85-115			
LCS Dup (B241788-BSD1)				Prepared: 06/25/24 Analyzed: 06/27/24						
Alkalinity, Total as CaCO ₃	107	10.0	mg/L	100		107	85-115	0.939	20	
Reference (B241788-SRM1)				Prepared: 06/25/24 Analyzed: 06/27/24						
Alkalinity, Total as CaCO ₃	103	10.0	mg/L	100		103	85-115			
Batch B241797 - Total Recoverable by ICP										
Blank (B241797-BLK1)				Prepared: 06/25/24 Analyzed: 06/28/24						
SAR	0.00		No Unit							
Batch B241805 - General Prep - Wet Chem										
Blank (B241805-BLK1)				Prepared & Analyzed: 06/26/24						
Total Dissolved Solids	ND	10.0	mg/L							B3
Reference (B241805-SRM1)				Prepared & Analyzed: 06/26/24						

Green Analytical Laboratories

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC SW Baseline w-LLHg
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/16/24 14:06

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 B241805 - General Prep - Wet Chem (Continued)

Reference (B241805-SRM1) (Continued)

Prepared & Analyzed: 06/26/24

Total Dissolved Solids	415	10.0	mg/L	400		104	85-115			B3
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Batch B241806 - General Prep - Wet Chem

Blank (B241806-BLK1)

Prepared & Analyzed: 06/26/24

Total Suspended Solids	ND	2.50	mg/L							
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Reference (B241806-SRM1)

Prepared & Analyzed: 06/26/24

Total Suspended Solids	98.0	2.50	mg/L	100		98.0	85-115			
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Batch B241818 - Lachat

Blank (B241818-BLK1)

Prepared & Analyzed: 06/27/24

Nitrate/Nitrite as N	ND	0.020	mg/L as N							
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LCS (B241818-BS1)

Prepared & Analyzed: 06/27/24

Nitrate/Nitrite as N	0.910	0.020	mg/L as N	1.00		91.0	90-110			
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LCS Dup (B241818-BSD1)

Prepared & Analyzed: 06/27/24

Nitrate/Nitrite as N	0.918	0.020	mg/L as N	1.00		91.8	90-110	0.864	20	
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Batch B241835 - IC- Ion Chromatograph

Blank (B241835-BLK1)

Prepared & Analyzed: 06/28/24

Chloride	ND	1.00	mg/L							
Fluoride	ND	0.100	mg/L							
Sulfate	ND	1.00	mg/L							

LCS (B241835-BS1)

Prepared & Analyzed: 06/28/24

Chloride	23.8	1.00	mg/L	25.0		95.4	90-110			
Fluoride	2.47	0.100	mg/L	2.50		98.7	90-110			
Sulfate	23.5	1.00	mg/L	25.0		93.9	90-110			

LCS Dup (B241835-BSD1)

Prepared & Analyzed: 06/28/24

Chloride	25.1	1.00	mg/L	25.0		100	90-110	5.08	20	
Fluoride	2.60	0.100	mg/L	2.50		104	90-110	5.06	20	
Sulfate	24.7	1.00	mg/L	25.0		98.9	90-110	5.24	20	

Batch B241838 - General Prep - Wet Chem

Blank (B241838-BLK1)

Prepared & Analyzed: 06/28/24

Total Organic Carbon	ND	0.500	mg/L							
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LCS (B241838-BS1)

Prepared & Analyzed: 06/28/24

Green Analytical Laboratories

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC SW Baseline w-LLHg
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/16/24 14:06

**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 B241838 - General Prep - Wet Chem (Continued)

LCS (B241838-BS1) (Continued)

Prepared & Analyzed: 06/28/24

Total Organic Carbon	9.77	0.500	mg/L	10.0	97.7	85-115
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LCS Dup (B241838-BSD1)

Prepared & Analyzed: 06/28/24

Total Organic Carbon	9.57	0.500	mg/L	10.0	95.7	85-115	2.01	20
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Batch B241854 - General Prep - Wet Chem

Blank (B241854-BLK1)

Prepared & Analyzed: 07/02/24

Total Organic Carbon	ND	0.500	mg/L
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LCS (B241854-BS1)

Prepared & Analyzed: 07/02/24

Total Organic Carbon	9.49	0.500	mg/L	10.0	94.9	85-115
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LCS Dup (B241854-BSD1)

Prepared & Analyzed: 07/02/24

Total Organic Carbon	9.52	0.500	mg/L	10.0	95.2	85-115	0.273	20
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Batch B241865 - General Prep - Wet Chem

Blank (B241865-BLK1)

Prepared: 07/01/24 Analyzed: 07/02/24

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 (B241865-BS1)

Prepared: 07/01/24 Analyzed: 07/02/24

Alkalinity, Total as CaCO ₃	106	10.0	mg/L	100	106	85-115
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LCS Dup (B241865-BSD1)

Prepared: 07/01/24 Analyzed: 07/02/24

Alkalinity, Total as CaCO ₃	107	10.0	mg/L	100	107	85-115	0.939	20
--	-----	------	------	-----	-----	--------	-------	----

Reference (B241865-SRM1)

Prepared: 07/01/24 Analyzed: 07/02/24

Alkalinity, Total as CaCO ₃	107	10.0	mg/L	100	107	85-115
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Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC SW Baseline w-LLHg
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/16/24 14:06

Dissolved Metals by ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B241803 - Dissolved ICP

Blank (B241803-BLK1)

Prepared: 06/26/24 Analyzed: 06/28/24

Aluminum	ND	0.050	mg/L							
Calcium	ND	0.100	mg/L							
Iron	ND	0.050	mg/L							
Magnesium	ND	0.100	mg/L							
Potassium	ND	1.00	mg/L							
Silicon	ND	0.500	mg/L							
Sodium	ND	1.00	mg/L							

LCS (B241803-BS1)

Prepared: 06/26/24 Analyzed: 06/28/24

Aluminum	3.97	0.050	mg/L	4.00		99.2	85-115			
Calcium	4.02	0.100	mg/L	4.00		100	85-115			
Iron	4.07	0.050	mg/L	4.00		102	85-115			
Magnesium	20.0	0.100	mg/L	20.0		100	85-115			
Potassium	7.99	1.00	mg/L	8.00		99.9	85-115			
Silicon	3.96	0.500	mg/L	4.00		99.1	85-115			
Sodium	3.37	1.00	mg/L	3.24		104	85-115			

LCS Dup (B241803-BSD1)

Prepared: 06/26/24 Analyzed: 06/28/24

Aluminum	3.92	0.050	mg/L	4.00		97.9	85-115	1.29	20	
Calcium	3.92	0.100	mg/L	4.00		98.0	85-115	2.46	20	
Iron	3.96	0.050	mg/L	4.00		98.9	85-115	2.81	20	
Magnesium	19.7	0.100	mg/L	20.0		98.4	85-115	1.59	20	
Potassium	7.88	1.00	mg/L	8.00		98.5	85-115	1.34	20	
Silicon	3.90	0.500	mg/L	4.00		97.5	85-115	1.67	20	
Sodium	3.34	1.00	mg/L	3.24		103	85-115	0.820	20	

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC SW Baseline w-LLHg
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/16/24 14:06

Total Recoverable Metals by ICPMS (E200.8) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B241825 - Mercury by 200.8										
Blank (B241825-BLK1)				Prepared & Analyzed: 06/27/24						
Mercury	ND	0.0100	ug/L							
Blank (B241825-BLK2)				Prepared: 06/27/24 Analyzed: 07/16/24						
Mercury	ND	0.0100	ug/L							
LCS (B241825-BS1)				Prepared & Analyzed: 06/27/24						
Mercury	0.102	0.0100	ug/L	0.100		102	85-115			
LCS (B241825-BS2)				Prepared: 06/27/24 Analyzed: 07/16/24						
Mercury	0.103	0.0100	ug/L	0.100		103	85-115			
LCS Dup (B241825-BSD1)				Prepared & Analyzed: 06/27/24						
Mercury	0.0997	0.0100	ug/L	0.100		99.7	85-115	2.71	20	
LCS Dup (B241825-BSD2)				Prepared: 06/27/24 Analyzed: 07/16/24						
Mercury	0.103	0.0100	ug/L	0.100		103	85-115	0.344	20	

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC SW Baseline w-LLHg
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/16/24 14:06

Dissolved Metals by ICPMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B241772 - Dissolved ICPMS

Blank (B241772-BLK1)

Prepared: 06/24/24 Analyzed: 06/26/24

Arsenic	ND	0.0010	mg/L
Cadmium	ND	0.0005	mg/L
Copper	ND	0.0010	mg/L
Lead	ND	0.0005	mg/L
Manganese	ND	0.0005	mg/L
Molybdenum	ND	0.0005	mg/L
Selenium	ND	0.0010	mg/L
Uranium	ND	0.0005	mg/L
Zinc	ND	0.0020	mg/L

LCS (B241772-BS1)

Prepared: 06/24/24 Analyzed: 06/26/24

Arsenic	0.0571	0.0010	mg/L	0.0500	114	85-115
Cadmium	0.0567	0.0005	mg/L	0.0500	113	85-115
Copper	0.0566	0.0010	mg/L	0.0500	113	85-115
Lead	0.0562	0.0005	mg/L	0.0500	112	85-115
Manganese	0.0565	0.0005	mg/L	0.0500	113	85-115
Molybdenum	0.0557	0.0005	mg/L	0.0500	111	85-115
Selenium	0.276	0.0010	mg/L	0.250	111	85-115
Uranium	0.0563	0.0005	mg/L	0.0500	113	85-115
Zinc	0.0551	0.0020	mg/L	0.0500	110	85-115

LCS Dup (B241772-BSD1)

Prepared: 06/24/24 Analyzed: 06/26/24

Arsenic	0.0566	0.0010	mg/L	0.0500	113	85-115	0.818	20
Cadmium	0.0562	0.0005	mg/L	0.0500	112	85-115	0.936	20
Copper	0.0564	0.0010	mg/L	0.0500	113	85-115	0.229	20
Lead	0.0567	0.0005	mg/L	0.0500	113	85-115	0.777	20
Manganese	0.0569	0.0005	mg/L	0.0500	114	85-115	0.586	20
Molybdenum	0.0567	0.0005	mg/L	0.0500	113	85-115	1.79	20
Selenium	0.278	0.0010	mg/L	0.250	111	85-115	0.645	20
Uranium	0.0564	0.0005	mg/L	0.0500	113	85-115	0.178	20
Zinc	0.0555	0.0020	mg/L	0.0500	111	85-115	0.888	20

Green Analytical Laboratories

Veronica J Wells

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC SW Baseline w-LLHg
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/16/24 14:06

Notes and Definitions

Q9	Sample analyzed for Mercury by EPA 200.8, however, the turbidity of the sample is not less than 1 NTU, as required by the method.
B3	Target analyte detected in method blank or continuing calibration blank. Reporting limit elevated to account for blank result.
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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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC SW Baseline w-LLHg
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
07/16/24 14:06

Qualifier Summary

<u>LabNumber</u>	<u>Analysis</u>	<u>Analyte</u>	<u>Qualifier</u>	<u>TextBody</u>
2406269			Q9	Sample analyzed for Mercury by EPA 200.8, however, the turbidity of the sample is not less than 1 NTU, as required by the method.
2406269-01	Total Dissolved Solids [TDS]	Total Dissolved Solids	B3	Target analyte detected in method blank or continuing calibration blank. Reporting limit elevated to account for blank result.
2406269-02	Total Dissolved Solids [TDS]	Total Dissolved Solids	B3	Target analyte detected in method blank or continuing calibration blank. Reporting limit elevated to account for blank result.
B241805-BLK1	Total Dissolved Solids [TDS]	Total Dissolved Solids	B3	Target analyte detected in method blank or continuing calibration blank. Reporting limit elevated to account for blank result.
B241805-SRM1	Total Dissolved Solids [TDS]	Total Dissolved Solids	B3	Target analyte detected in method blank or continuing calibration blank. Reporting limit elevated to account for blank result.

Green Analytical Laboratories

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

Veronica Wells, Project Manager

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**75 Suttle Street
Durango, CO 81303
(970) 247-4220**

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST
FORM-006, R 8.0

FORM-006, R 8.0

Note: Write-Out™ or similar products cannot be used on the Chain of Custody

[illegible]

[†] GAL cannot accept verbal changes. Please email changes to receiving@greenanalytical.com

Project Information

Table of Contents
Printed: 06/21/2024 8:45 am

GCC Energy, LLC

6473 CR 120
Hesperus, CO 81326
Laboratory PM: Veronica Wells

GCC Energy

Phone: (970) 385-4528
Fax: (970) 385-4638

Project Name: GCC SW Baseline w-LLHg
Project Number: GCC SW Baseline 2021
Client PM: Michael Dickson
Comments:

Analysis	Comment
Alkalinity, Total	
Aluminum Dissolved by ICP	
Arsenic Dissolved by ICPMS	
CAB	
Cadmium Dissolved by ICPMS	
Chloride [IC]	
Copper Dissolved by ICPMS	
Fluoride [IC]	
Hardness [DISSOLVED]	
Iron Dissolved by ICP	
Lead Dissolved by ICPMS	
Manganese Dissolved by ICPMS	
Mercury 200.8 Low Level	Do not field filter
Molybdenum Dissolved by ICPMS	
Nitrate/Nitrite [LACHAT]	
Oil & Grease	
pH	
Potassium Dissolved by ICP	
SAR-Calc	
Selenium Dissolved by ICPMS	
Silica Dissolved by ICP	
Sodium Dissolved by ICP	
Sulfate [IC]	
Total Dissolved Solids [TDS]	
Total Organic Carbon [TOC]	
Total Suspended Solids [TSS]	Label bottle TSS
Uranium Dissolved by ICPMS	
Zinc Dissolved by ICPMS	

Hardness [DISSOLVED] subanalyses:

Calcium Dissolved by ICP
Magnesium Dissolved by ICP

Silica Dissolved by ICP subanalyses:

Silicon Dissolved by ICP

The GCC SW Baseline bottle set has two poly 250 ml bottles for metals. One is for LL Hg totals so does not get field-filtered, while the other metals bottle gets field-filtered. Please label one metals bottle in each set "DO NOT FIELD FILTER, LL Hg" as a reminder for them out in the field. Please make a note in LIMS for this to be standard quarterly practice.



SAMPLE CONDITION RECEIPT FORM

Client Name: GCC EnergyWork Order # 2406-269Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Kangaroo ☐ Third Party ☐ OtherCustody 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: 5.7 °C Correction Factor: 0 °C Final Temp: 5.7 °C

* Temp should be above freezing to 6°C

Date/Initials of person examining contents: 6.21.24
GDWLabeled by initials: _____
(if different than above)

Chain of Custody Present:	☒ Yes ☐ No	1.
Chain of Custody Filled Out:	☒ Yes ☐ No	2.
Chain of Custody Relinquished:	☒ Yes ☐ No	3.
Sampler Name and Signature on COC:	☒ Yes ☐ No	4.
Samples arrived within hold time:	☒ Yes ☐ No	5.
Short Hold Time Analysis (<72hr):	☒ Yes ☐ No	6. <u>PH</u>
Rush Turn Around Time Requested:	☐ Yes ☒ No	7.
Sufficient Volume:	☒ Yes ☐ No	8.
Correct Containers Used:	☒ Yes ☐ No	9. <u>only 1 125 ml nutrient bottle per sample</u>
Containers Intact:	☒ Yes ☐ No	10.
Dissolved Testing Needed:	☒ Yes ☐ No	11. <u>Diss</u>
Field Filtered: ☒ Yes ☐ No		
Sample Labels match COC: -Includes Date/Time/ID	☒ Yes ☐ No	12.
Matrix: <u>SL</u> <u>OT</u>		
Trip Blank Present:	☐ Yes ☐ No ☒ N/A	13.
Trip Blank Custody Seals Present:	☐ Yes ☐ No ☒ N/A	

Client Notification/Resolution:

Person Contacted: _____

Date/Time: _____

Comments/Resolution: _____