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Grand Island Resources TR-10 Second Quarter 2023 Report

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Mr. Lennberg,

Enclosed is Grand Island Resources TR-10 Second Quarter 2023 Water Monitoring Report. I am also enclosing the link for the appendix as it is quite lengthy and will not let me attach it to this email. Please let me know if you have questions or cannot download the appendix and we will figure out another way to get it to you.

We would also like to express our gratitude for granting us an extension for the second quarter report as we navigate through post Cease and Desist funding.



Respectfully,

Daniel J. Takami

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TR-10 SECOND QUARTER 2023 - WATER MONITORING REPORT DRMS - 090623 - Final.pdf



SECOND QUARTER 2023

GROUNDWATER, MINE EFFLUENT, SURFACE WATER AND TREATMENT PLANT EFFLUENT QUALITY

REPORT COMPLIANT WITH THE TERMS OF TECHNICAL REVISION #10 (TR-10)

Prepared by Grand Island Resources
September 6, 2023



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1. Introduction

On April 28, 2022, the Division of Reclamation, Mining and Safety (Division) approved Technical Revision application (TR-10) filed with the Division on February 28, 2022, addressing the following: *Modify the water management and treatment program and provide a surface water and groundwater monitoring program (in accordance with corrective action #1 of the Board Order issued for Violation No. MV-2021-017)*.

The terms of TR-10 approved by the Division were thereby incorporated into Permit No. M-1977-410. All other conditions and requirements of Permit No. M-1977-410 remain in full force and effect. Grand Island Resources (The Operator) will need to provide five consecutive quarters of groundwater monitoring data that include all sampling parameters and standards required by *WQCC's "Interim Narrative Standard"*. Water effluent from the mines is currently managed via the Treatment System into Coon Track Creek under CDPHE Water Quality Control Division (WQCD) National Pollutant Discharge Elimination System NPDES permit CO-0032751.

Technical Revision 10 (TR10) terms require The Operator to submit to DRMS Quarterly Water Monitoring Reports not later than 30 days from the end of the quarter. The Operator and GIR agreed to provide the reports on specific dates.

GIR appeared before the MLR Board on January 18, 2023, where GIR presented testimony to the Board and requested to lift the Cease-and-Desist Order put into place during the February 2022 Board hearing for violation M2021-017. On March 13, 2023, the signed Board Order was issued which lifted the Cease-and-Desist Order on the site.

During the MLR Board January 2023 hearing, GIR withdrew the appeal of the Division's determination that the Cross Gold Mine was a designated mining operation (DMO). The due date for submitting the DMO Conversion Application was set to July 17, 2023, i.e., 180 days from the hearing date. GIR submitted to DRMS, a one-year extension request to the maximum allowed by Rule 7.2.3(2)(c). The extension request was approved by DRMS on March 1, 2023, which includes several stipulations including Stipulation #2 which states that all groundwater monitoring and reporting will continue as approved in Technical Revision 10 (TR10). Including written request for approval by GIR and approval by DRMS process whereby GIR will issue requests for approval letters to DRMS describing planned underground activities, objectives, methods, expected disturbance, and, impacts prevention mechanisms prior to commencement of the activities. Upon receiving written approval by DRMS, GIR will implement the actions.)



The quarterly reports must include:

- 1.1. Analytical results for the 7 sampling locations described in Technical Revision #10 (TR10) presented on Figure 6,
- 1.2. Monthly Potentiometric Surface (water table) maps constructed from water table measurements taken during the sampling events Figures 12, 13 and 14 for the months of April, May, and June 2023, respectively,
- 1.3. Water Quality analytical results summary tables highlighting exceedances of select parameters from Regulation 41, Tables 1-4 water quality standards,
- 1.4. Laboratory data packages,
- 1.5. Chain of Custody sheets,
- 1.6. Field sheets for the sampling event(s).



2. Ground Water Monitoring

Three groundwater monitoring locations corresponding to existing ground water wells, namely, Cabin Well (Compliance), Cross Well and Caribou Well were selected by DRMS for the program. All 3 wells have permanent pumping system installations and water level dataloggers. Water samples for water quality determination are collected via the existing permanent pumping systems.

2.1. Water Quality Analytical Results

On March 2, 2023, the Division of Reclamation, Mining and Safety concluded its review of the Technical Revision (TR11) application submitted to the Division on February 22, 2023, addressing the following: Revise analytical parameter list for groundwater samples to eliminate analyzing for Total Silver, Asbestos, Coliform (max total), Coliform (30-day average), 2-Chlorophenol, Color, Corrosivity, Foaming Agents, Odor and Phenol. The complete updated Table 4.1 for TR10 that lists all parameters that groundwater samples will be analyzed for can be found in the permit file. The decision reached by the Division is: "Approve".

Test results from water samples collected from the three monitoring wells are presented on tables 2.1.1, 2.1.2 and 2.1.3 for the months of April, May, and June 2023, respectively. In accordance with the revised Analytical Parameters approved by DRMS as described in the preceding paragraph, the test results are compared with the most stringent concentrations (Standard) based on DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT Water Quality Control Commission REGULATION NO. 41 -THE BASIC STANDARDS FOR GROUNDWATER 5 CCR 1002-41. The complete Water Quality Analytical Results from the Laboratories are provided in the appendices.



Table 2.1.1 Groundwater Quality Test Results – Sample Date April 18, 2023

Parameter	Standard	Cross Well	Caribou Well	Compliance Well	Compliance Well Duplicate	Compliance Well FB	Unit	Comments
Aluminum (Al)	5	0.008	0.048	0.001	0.001	ND	mg/l	Dissolved
Antimony (Sb)	0.006	ND	ND	ND	ND	ND	mg/l	Dissolved
Arsenic (As)	0.01	ND	ND	ND	ND	ND	mg/l	Dissolved
Barium (Ba)	2	0.0304	0.0064	0.0409	0.0411	ND	mg/l	Dissolved
Beryllium (Be)	0.004	ND	ND	ND	ND	ND	mg/l	Dissolved
Beta and Photon Emitters	4	<2.8	<3.0	<2.7	<2.8	<3.0	mrem/year	Std is in mrem/year; Lab reports pCi/l
Boron (B)	0.75	ND	ND	ND	ND	0.01	mg/l	Dissolved
Cadmium (Cd)	0.005	0.0001	ND	ND	ND	ND	mg/l	Dissolved
Chloride (CI)	250	3.97	0.42	3.28	3.29	ND	mg/l	Dissolved
Chromium (Cr)	0.1	ND	ND	ND	ND	ND	mg/l	Dissolved
Cobalt (Co)	0.05	ND	ND	ND	ND	ND	mg/l	Dissolved
Copper (Cu)	0.2	0.0044	0.1625	ND	ND	ND	mg/l	Dissolved
Cyanide [Free] (Cn)	0.2	ND	ND	ND	ND	ND	mg/l	Total
Fluoride (F)	2	ND	ND	ND	ND	ND	mg/l	Dissolved
Gross Alpha Particle Activity	15	0.2	0.2	<0.1	0.4	0.5	pCi/l	
Iron (Fe)	0.3	ND	0.028	0.012	0.011	ND	mg/l	Dissolved
Lead (Pb)	0.05	0.0006	0.0006	0.0002	0.0002	ND	mg/l	Dissolved
Lithium (Li)	2.5	ND	ND	ND	ND	ND	mg/l	Dissolved
Manganese (Mn)	0.05	0.0009	ND	0.0097	0.0095	ND	mg/l	Dissolved
Mercury (inorganic) (Hg)	0.002	ND	ND	ND	ND	ND	mg/l	Dissolved
Molybdenum (Mo)	0.21	ND	ND	0.0043	0.0044	ND	mg/l	Dissolved
Nickel (Ni)	0.1	ND	ND	ND	ND	ND	mg/l	Dissolved
Nitrate (NO3)	10	ND	ND	ND	ND	ND	mg/l as N	Dissolved
Nitrate-NitriteTotal	10	0.22	0.09	0.27	0.28	ND	mg/l as N	Dissolved
Nitrite (NO2)	1	ND	ND	ND	ND	ND	mg/l as N	Dissolved
pH (field)	6.5 - 8.5	7.5	8.1	8.0	8.0	n/a	pH units	
Selenium (Se)	0.02	ND	ND	ND	ND	ND	mg/l	Dissolved
Silver (Ag)	0.05	ND	ND	ND	ND	ND	mg/l	Dissolved
Sulfate (SO4)	250	10.76	2.67	10.34	10.12	ND	mg/l	Dissolved
TDS	400	107	23	115	119	ND	mg/l	Total
Thallium (TI)	0.002	ND	ND	ND	ND	ND	mg/l	Dissolved
Uranium (U)	0.0168 -0.03	ND	ND	ND	ND	ND	mg/l	Dissolved
Vanadium (V)	0.1	ND	ND	ND	ND	ND	mg/l	Dissolved
Zinc (Zn)	2	1.33	0.005	0.106			mg/l	Dissolved
The highlighted cells Indicate Test ND indicates "Not Detected"	Results Higher than		lues from Reg. 5					



Table 2.1.2 Groundwater Quality Test Results – Sample Date May 16, 2023

					Compliance Well	Compliance Well	
Parameter	Standard	Cross Well	Caribou Well	Compliance Well	Duplicate 🔻	FB V Unit	Comments
Aluminum (Al)	5	0.008	0.093	0.115	0.09	ND mg/I	Dissolved
Antimony (Sb)	0.006	ND	ND	ND	ND	ND mg/I	Dissolved
Arsenic (As)	0.01	ND	ND	ND	ND	ND mg/I	Dissolved
Barium (Ba)	2	0.0282	0.0068	0.0299	0.0291	ND mg/I	Dissolved
Beryllium (Be)	0.004	ND	ND	ND	ND	ND mg/I	Dissolved
Beta and Photon Emitters	4	<3.2	<3.5	<3.5	<3.5	<3.4 mrem/year	Std is in mrem/year; Lab reports pCi/l
Boron (B)	0.75	ND	ND	ND	ND	ND mg/I	Dissolved
Cadmium (Cd)	0.005	0.0002	ND	ND	ND	ND mg/I	Dissolved
Chloride (CI)	250	4.54	0.52	0.96	0.83	ND mg/I	Dissolved
Chromium (Cr)	0.1	ND	ND	ND	ND	ND mg/I	Dissolved
Cobalt (Co)	0.05	ND	ND	ND	ND	ND mg/I	Dissolved
Copper (Cu)	0.2	0.0079	0.1118	ND	ND	ND mg/I	Dissolved
Cyanide [Free] (Cn)	0.2	ND	ND	ND	ND	ND mg/I	Total
Fluoride (F)	2	ND	ND	ND	ND	ND mg/I	Dissolved
Gross Alpha Particle Activity	15	0.6	<0.1	1.3	<0.1	0.7 pCi/l	
Iron (Fe)	0.3	0.006	0.045	0.046	0.04	ND mg/I	Dissolved
Lead (Pb)	0.05	0.0005	0.0005	0.0003	0.0003	ND mg/I	Dissolved
Lithium (Li)	2.5	ND	ND	ND	ND	ND mg/I	Dissolved
Manganese (Mn)	0.05	0.0012	0.0016	0.0079	0.0077	ND mg/I	Dissolved
Mercury (inorganic) (Hg)	0.002	ND	ND	ND	ND	ND mg/I	Dissolved
Molybdenum (Mo)	0.21	0.0005	ND	0.0034	0.0036	ND mg/I	Dissolved
Nickel (Ni)	0.1	ND	ND	ND	ND	ND mg/I	Dissolved
Nitrate (NO3)	10	ND	ND	ND	ND	ND mg/l as N	Dissolved
Nitrate-NitriteTotal	10	0.42	0.12	0.32	0.30	ND mg/l as N	Dissolved
Nitrite (NO2)	1	ND	ND	ND	ND	ND mg/l as N	Dissolved
pH (field)	6.5 - 8.5	7.0	6.7	7.4	7.4	n/a pH units	
Selenium (Se)	0.02	ND	ND	ND	ND	ND mg/I	Dissolved
Silver (Ag)	0.05	ND	ND	ND	ND	ND mg/I	Dissolved
Sulfate (SO4)	250	8.85	2.72	4.86	4.79	ND mg/I	Dissolved
TDS	400	89	40	69	45	ND mg/I	Total
Thallium (TI)	0.002	ND	ND	ND	ND	ND mg/I	Dissolved
Uranium (U)	0.0168 -0.03	ND	ND	ND	ND	ND mg/I	Dissolved
Vanadium (V)	0.1	ND	ND	ND	ND	ND mg/I	Dissolved
Zinc (Zn)	2	1.75	0.008	0.086	0.087	ND mg/I	Dissolved
The highlighted cells Indicate Tes	t Results Higher than	the Reference Value	es from Reg. 5 CCR :	1002-41			
ND indicates "Not Detected"							



Table 2.1.3 Groundwater Quality Test Results – Sample Date June 14, 2023

Parameter	Standard	Cross Well	Caribou Well	Compliance Well	Compliance Well Duplicate	Compliance Well FB	Unit	Comments
Aluminum (Al)	5	ND	0.022	0.017	0.021	ND	mg/l	Dissolved
Antimony (Sb)	0.006	ND	ND	ND	ND	ND	mg/l	Dissolved
Arsenic (As)	0.01	ND	ND	ND	ND	ND	mg/l	Dissolved
Barium (Ba)	2	0.0306	0.0064	0.0267	0.0261	ND	mg/l	Dissolved
Beryllium (Be)	0.004	ND	ND	ND	ND	ND	mg/l	Dissolved
Beta and Photon Emitters	4	<3.4	<3.1	<3.4	<3.4	<3.0	mrem/year	Std is in mrem/year; Lab reports pC
Boron (B)	0.75	ND	ND	ND	ND	ND	mg/l	Dissolved
Cadmium (Cd)	0.005	0.0001	ND	ND	ND	ND	mg/l	Dissolved
Chloride (CI)	250	3.11	0.47	0.65	0.49	ND	mg/l	Dissolved
Chromium (Cr)	0.1	ND	ND	ND	ND	ND	mg/l	Dissolved
Cobalt (Co)	0.05	ND	ND	ND	ND	ND	mg/l	Dissolved
Copper (Cu)	0.2	0.0022	0.2949	ND	ND	ND	mg/l	Dissolved
Cyanide [Free] (Cn)	0.2	ND	ND	ND	ND	ND	mg/l	Total
Fluoride (F)	2	ND	ND	ND	ND	ND	mg/l	Dissolved
Gross Alpha Particle Activity	15	0.9	0.5	0.7	1.2	0.5	pCi/l	
Iron (Fe)	0.3	0.08	0.02	0.014	0.019	ND	mg/l	Dissolved
Lead (Pb)	0.05	0.0008	0.0005	0.0002	0.0002	ND	mg/l	Dissolved
Lithium (Li)	2.5	ND	ND	ND	ND	ND	mg/l	Dissolved
Manganese (Mn)	0.05	0.0051	0.0023	0.0084	0.0082	ND	mg/l	Dissolved
Mercury (inorganic) (Hg)	0.002	ND	ND	ND	ND	ND	mg/l	Dissolved
Molybdenum (Mo)	0.21	0.0023	ND	0.004	0.004	ND	mg/l	Dissolved
Nickel (Ni)	0.1	ND	ND	ND	ND	ND	mg/l	Dissolved
Nitrate (NO3)	10	ND	ND	ND	ND	ND	mg/l as N	Dissolved
Nitrate-NitriteTotal	10	0.37	0.16	0.18	0.18	ND	mg/l as N	Dissolved
Nitrite (NO2)	1	ND	ND	ND	ND	ND	mg/l as N	Dissolved
pH (field)	6.5 - 8.5	7.3	8.2	8.2	8.2	n/a	pH units	
Selenium (Se)	0.02	ND	ND	ND	ND	ND	mg/l	Dissolved
Silver (Ag)	0.05	ND	ND	ND	ND	ND	mg/l	Dissolved
Sulfate (SO4)	250	10.48	2.80	3.70	3.90	ND	mg/l	Dissolved
TDS	400	112	22	55	45	ND	mg/l	Total
Thallium (Tl)	0.002	ND	ND	ND	ND	ND	mg/l	Dissolved
Uranium (U)	0.0168 -0.03	ND	ND	ND	ND	ND	mg/l	Dissolved
Vanadium (V)	0.1	ND	ND	ND	ND	ND	mg/l	Dissolved
Zinc (Zn)	2	1.31	0.005	0.147	0.144	ND	mg/l	Dissolved



2.2. Groundwater Levels and Potentiometric Water Surface

Potentiometric Figures were developed based on recorded (automated dataloggers) groundwater levels at each of the three monitoring wells at the time the water quality samples were collected. The Cross Winze water levels are also included.

Tables 2.2.1, 2.2.2, and 2.2.3, provide sampling date and groundwater elevations taken at the time of water sample collection for the months of April, May, and June 2023, respectively. The groundwater elevations shown on the tables were used to develop the potentiometric water surfaces depicted on Figures 12, 13, and 14 for the month of April, May, and June 2023, respectively.

Table 2.2.1 Wells Groundwater Elevation – April 18,2023

Groundwater Elevation - April								
WELL	COLLAR ELEV.	4/18/2023						
WELL	Ft. AMSL							
Caribou	9,744.25	9,710.18						
Cabin (Compliance	9,677.35	9,647.99						
Cross	9,692.85	9,653.69						
Winze	9,697.48	9,559.80						

Table 2.2.2 Wells Groundwater Elevation – May 16, 2023

Groundwater Elevation - May									
WELL	COLLAR ELEV.	5/16/2023							
VVELL	Ft. A	MSL							
Caribou	9,744.25	9,703.99							
Cabin (Compliance	9,677.35	9,626.75							
Cross	9,692.85	9,634.09							
Winze	9,697.48	9,577.40							

Table 2.2.3 Wells Groundwater Elevation – June 14, 2023

Groundwater Elevation - June									
WELL	COLLAR ELEV.	6/14/2023							
VVELL	Ft. A	MSL							
Caribou	9,744.25	9,701.30							
Cabin (Compliance	9,677.35	9,628.85							
Cross	9,692.85	9,634.30							
Winze	9,697.48	9,676.40							



Figure 12 Potentiometric Water Surface – April 2023

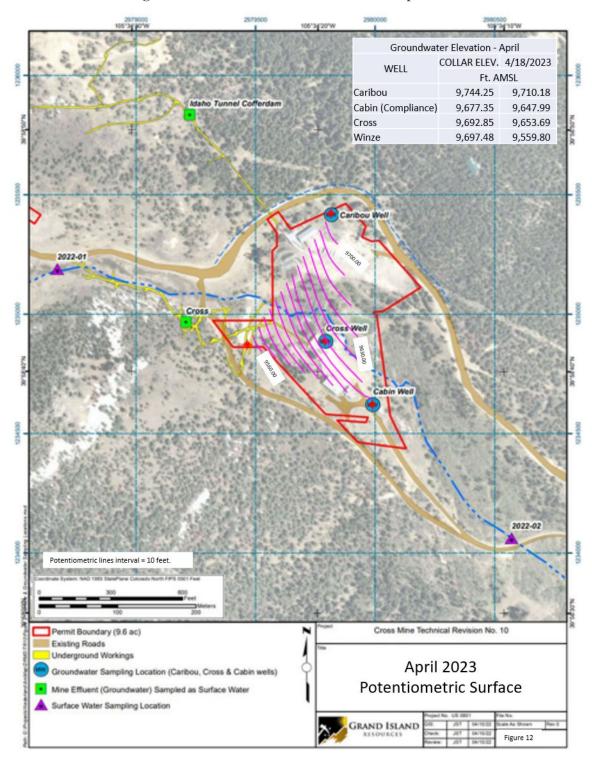




Figure 13 Potentiometric Water Surface – May 2023

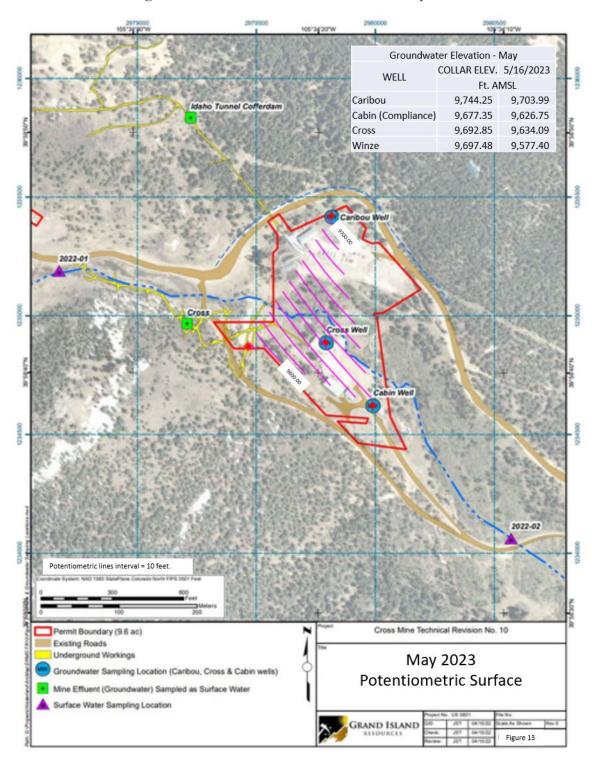
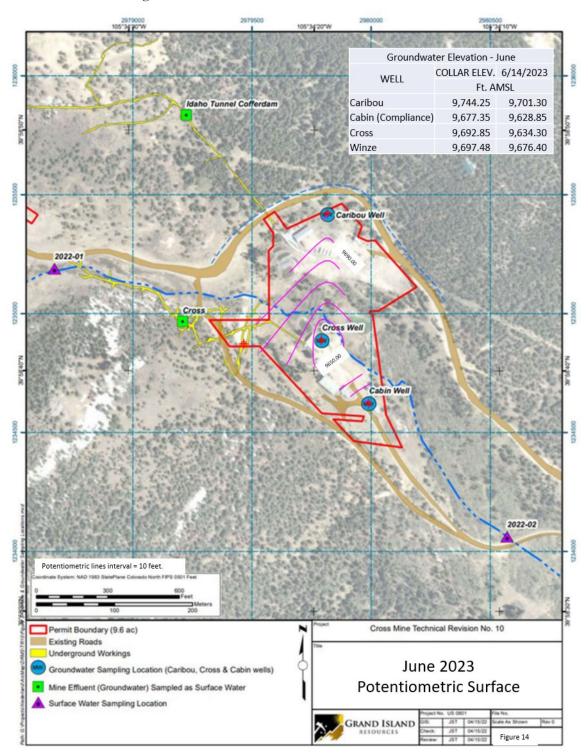




Figure 14 Potentiometric Water Surface – June 2023





3. Mine Effluent Monitoring

Two mine effluent monitoring locations corresponding to points of interest within the GIR site were selected by DRMS as part of the program. One station is located in the Cross Mine and one station is located in the Idaho Tunnel/Caribou Mine, namely Cross Portal and Caribou Portal, respectively. Water Quality Analytical Results are summarized on Tables 3.1., 3.2., and 3.3 for the months of April, May, and June 2023, respectively. The complete Water Quality Analytical Results from the Laboratories are provided in Appendix A.

Mine effluent reports to the Water Treatment Plant and discharges via the NPDES permit CO-0032751 Outfall 001.



Table 3.1 Effluent Quality Test Results – Sample Date April 18, 2023

Parameter	Standard	Cross Portal	Caribou Portal	Caribou Portal Duplicate	Caribou Portal FB	Unit	Comments
Aluminum (AI)	5	0.029	0.001	0.004	ND	mg/l	Dissolved
Antimony (Sb)	0.006	ND	ND	ND	ND	mg/l	Dissolved
Arsenic (As)	0.01	ND	ND	ND	ND	mg/l	Dissolved
Barium (Ba)	2	0.0724	0.0588	0.06	ND	mg/l	Dissolved
Beryllium (Be)	0.004	ND	ND	ND	ND	mg/l	Dissolved
Beta and Photon Emitters	4	<3.0	4.0	4.1		mrem/year	Std is in mrem/year; Lab reports pCi/l
Boron (B)	0.75	ND	ND	ND		mg/l	Dissolved
Cadmium (Cd)	0.005	0.0011	ND	ND	ND	mg/l	Dissolved
Chloride (Cl)	250	0.65	0.49	0.47	ND	mg/l	Dissolved
Chromium (Cr)	0.1	ND	ND	ND	ND	mg/l	Dissolved
Cobalt (Co)	0.05	ND	ND	ND	ND	mg/l	Dissolved
Copper (Cu)	0.2	0.0025	ND	ND	ND	mg/l	Dissolved
Cyanide [Free] (Cn)	0.2	ND	ND	ND	ND	mg/l	Total
Fluoride (F)	2	ND	ND	ND	ND	mg/l	Dissolved
Gross Alpha Particle Activity	15	1.5	3.9	5.5	<0.1	pCi/l	
Iron (Fe)	0.3	0.03	0.009	0.01	ND	mg/l	Dissolved
Lead (Pb)	0.05	0.0022	0.0004	0.0005	ND	mg/l	Dissolved
Lithium (Li)	2.5	ND	ND	ND	ND	mg/l	Dissolved
Manganese (Mn)	0.05	0.0124	ND	ND	ND	mg/l	Dissolved
Mercury (inorganic) (Hg)	0.002	ND	ND	ND	ND	mg/l	Dissolved
Molybdenum (Mo)	0.21	0.0065	0.0065	0.0066	ND	mg/l	Dissolved
Nickel (Ni)	0.1	ND	ND	ND	ND	mg/l	Dissolved
Nitrate (NO3)	10	ND	ND	ND	ND	mg/l as N	Dissolved
Nitrate-NitriteTotal	10	0.09	0.08	0.07	ND	mg/l as N	Dissolved
Nitrite (NO2)	1	ND	ND	ND	ND	mg/l as N	Dissolved
pH (field)	6.5 - 8.5	8.1	8.5	8.5	n/a	pH units	
Selenium (Se)	0.02	0.0014	ND	ND	ND	mg/l	Dissolved
Silver (Ag)	0.05	ND	ND	ND	ND	mg/l	Dissolved
Sulfate (SO4)	250	14.75	9.71	9.63	ND	mg/l	Dissolved
TDS	400	133	147	152	ND	mg/l	Total
Thallium (TI)	0.002	ND	ND	ND	ND	mg/l	Dissolved
Uranium (U)	0.0168 -0.03	0.0009	0.0059	0.0062	ND	mg/l	Dissolved
Vanadium (V)	0.1	ND	ND	ND	ND	mg/l	Dissolved
Zinc (Zn)	2	0.239	0.006	0.006	ND	mg/l	Dissolved
The highlighted cells Indicate Test	t Results Higher than	the Reference Valu	es from Reg. 5 CCR 1	002-41		·	
ND indicates "Not Detected"			-				



Table 3.2 Effluent Quality Test Results – Sample Date May 16, 2023

Parameter	Standard	Cross Portal	Caribou Portal	Caribou Portal Duplicate	Caribou Portal FR	Unit	Comments	
Aluminum (Al)	5	0.037	0.239	0.318	ND	mg/l	Dissolved	
Antimony (Sb)	0.006	ND	ND	ND	ND	mg/l	Dissolved	
Arsenic (As)	0.01	ND	ND	ND	ND	mg/l	Dissolved	
Barium (Ba)	2	0.0504	0.0055	0.0059	ND	mg/l	Dissolved	
Beryllium (Be)	0.004	ND	ND	ND	ND	mg/l	Dissolved	
Beta and Photon Emitters	4	3.3	<3.2	<3.2	<3.1	mrem/year	Std is in mrem/year; Lab reports pCi/l	
Boron (B)	0.75	ND	ND	ND	ND	mg/l	Dissolved	
Cadmium (Cd)	0.005	0.0009	ND	ND	ND	mg/l	Dissolved	
Chloride (CI)	250	0.86	0.3	0.34	ND	mg/l	Dissolved	
Chromium (Cr)	0.1	ND	ND	ND	ND	mg/l	Dissolved	
Cobalt (Co)	0.05	ND	ND	ND	ND	mg/l	Dissolved	
Copper (Cu)	0.2	0.0021	0.0012	0.0014	ND	mg/l	Dissolved	
Cyanide [Free] (Cn)	0.2	ND	ND	ND	ND	mg/l	Total	
Fluoride (F)	2	ND	ND	ND	ND	mg/l	Dissolved	
Gross Alpha Particle Activity	15	1.6	0.9	0.1	0.5	pCi/I		
Iron (Fe)	0.3	0.026	0.087	0.099	ND	mg/l	Dissolved	
Lead (Pb)	0.05	0.0021	0.0010	0.0012	ND	mg/l	Dissolved	
Lithium (Li)	2.5	ND	ND	ND	ND	mg/l	Dissolved	
Manganese (Mn)	0.05	0.0113	0.0023	0.003	ND	mg/l	Dissolved	
Mercury (inorganic) (Hg)	0.002	ND	ND	ND	ND	mg/l	Dissolved	
Molybdenum (Mo)	0.21	0.0033	ND	ND	ND	mg/l	Dissolved	
Nickel (Ni)	0.1	ND	ND	ND	ND	mg/l	Dissolved	
Nitrate (NO3)	10	ND	ND	ND	ND	mg/l as N	Dissolved	
Nitrate-NitriteTotal	10	0.21	0.29	0.45	ND	mg/l as N	Dissolved	
Nitrite (NO2)	1	ND	ND	ND	ND	mg/l as N	Dissolved	
pH (field)	6.5 - 8.5	7.7	7.2	7.2	n/a	pH units		
Selenium (Se)	0.02	ND	ND	ND	ND	mg/l	Dissolved	
Silver (Ag)	0.05	ND	ND	ND	ND	mg/l	Dissolved	
Sulfate (SO4)	250	11.98	1.44	1.46	ND	mg/l	Dissolved	
TDS	400	85	31	31	ND	mg/l	Total	
Thallium (TI)	0.002	ND	ND	ND	ND	mg/l	Dissolved	
Uranium (U)	0.0168 -0.03	0.0004	ND	ND	ND	mg/l	Dissolved	
Vanadium (V)	0.1	ND	ND	ND	ND	mg/l	Dissolved	
Zinc (Zn)	2	0.179	0.014	0.021	ND	mg/l	Dissolved	
The highlighted cells Indicate Test	Results Higher than	the Reference Valu	es from Reg. 5 CCR 1	1002-41				
ND indicates "Not Detected"								

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Table 3.3 Effluent Quality Test Results – June 14, 2023

Parameter	Standard	Cross Portal	Caribou Portal	Caribou Portal Duplicate	Caribou Portal FB	Unit	Comments
Aluminum (Al)	5	0.015	0.028	0.034	ND	mg/l	Dissolved
Antimony (Sb)	0.006	ND	ND	ND	ND	mg/l	Dissolved
Arsenic (As)	0.01	ND	ND	ND	ND	mg/l	Dissolved
Barium (Ba)	2	0.0431	0.0266	0.0263	ND	mg/l	Dissolved
Beryllium (Be)	0.004	ND	ND	ND	ND	mg/l	Dissolved
Beta and Photon Emitters	4	3.1	<3.0	<3.0	<3.0	mrem/yea	rStd is in mrem/year; Lab reports pC
Boron (B)	0.75	ND	ND	ND	ND	mg/l	Dissolved
Cadmium (Cd)	0.005	0.0010	ND	ND	ND	mg/l	Dissolved
Chloride (CI)	250	0.88	0.38	0.4	ND	mg/l	Dissolved
Chromium (Cr)	0.1	ND	ND	ND	ND	mg/l	Dissolved
Cobalt (Co)	0.05	ND	ND	ND	ND	mg/l	Dissolved
Copper (Cu)	0.2	0.0024	ND	0.0008	ND	mg/l	Dissolved
Cyanide [Free] (Cn)	0.2	ND	ND	ND	ND	mg/l	Total
Fluoride (F)	2	ND	ND	ND	ND	mg/l	Dissolved
Gross Alpha Particle Activity	15	0.7	3.4	1.9	<0.1	pCi/I	
Iron (Fe)	0.3	0.017	0.033	0.035	ND	mg/l	Dissolved
Lead (Pb)	0.05	0.0018	0.0007	0.0007	ND	mg/l	Dissolved
Lithium (Li)	2.5	ND	ND	ND	ND	mg/l	Dissolved
Manganese (Mn)	0.05	0.0085	0.0053	0.0054	ND	mg/l	Dissolved
Mercury (inorganic) (Hg)	0.002	ND	ND	ND	ND	mg/l	Dissolved
Molybdenum (Mo)	0.21	0.0030	0.0029	0.003	ND	mg/l	Dissolved
Nickel (Ni)	0.1	ND	ND	ND	ND	mg/l	Dissolved
Nitrate (NO3)	10	ND	ND	ND	ND	mg/l as N	Dissolved
Nitrate-NitriteTotal	10	0.18	0.25	0.27	ND	mg/l as N	Dissolved
Nitrite (NO2)	1	ND	ND	ND	ND	mg/l as N	Dissolved
pH (field)	6.5 - 8.5	8.2	8.5	8.5	n/a	pH units	
Selenium (Se)	0.02	ND	ND	ND	ND	mg/l	Dissolved
Silver (Ag)	0.05	ND	ND	ND	ND	mg/l	Dissolved
Sulfate (SO4)	250	7.70	7.15	6.5	ND	mg/l	Dissolved
TDS	400	82	94	87	ND	mg/l	Total
Thallium (TI)	0.002	ND	ND	ND	ND	mg/l	Dissolved
Uranium (U)	0.0168 -0.03	0.0004	0.0018	0.0018	ND	mg/l	Dissolved
Vanadium (V)	0.1	ND	ND	ND	ND	mg/l	Dissolved
Zinc (Zn)	2	0.215	0.014	0.015	ND	mg/l	Dissolved
The highlighted cells Indicate Test	Results Higher than	the Reference Valu	es from Reg. 5 CCR 1	1002-41			
ND indicates "Not Detected"							

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4. Surface Water Monitoring

Two surface water monitoring stations were considered by DRMS to be sufficient and adequate to characterize surface water within the basin of interest. Station 2022-01 is located upstream of The Operator's facility and Station 2022-02 is located downstream of The Operator's facility.

4.1. Water Quality Analytical Results

No samples were collected during the Month of April 2023 because no surface flows were observed at the time of April sampling event. Surface water analytical results are presented on tables 4.1 and 4.2 for the months of May and June 2023, respectively.

4.2. Surface Water Flows

No Flow measurements were taken during the Month of April 2023 because no surface flows were observed at the time of April sampling event.



Table 4.1 Surface Water Quality Test Results – Sample Date May 15, 2023

Parameter	Sta. 2022-01	Sta. 2022-02	Sta. 2022-02 Duplicate	Sta. 2022-02 Field Blank	Unit
Arsenic Potentially Dissolved	ND	ND	ND	ND	ug/L
Arsenic Total Recoverable	ND	ND	ND	ND	ug/L
Cadmium Potentially Dissolved	ND	0.19	ND	ND	ug/L
Cadmium Total Recoverable	ND	0.28	ND	ND	ug/L
Chromium Potentially Dissolved	ND	ND	2.4	ND	ug/L
Chromium Total Recoverable	ND	0.67	ND	ND	ug/L
Chromium, hexavalent Dissolved	ND	ND	ND	ND	mg/L
Chromium, hexavalent Total	ND	ND	ND	0.011	mg/L
Chromium, trivalent Potentially Dissolve	ND	ND	ND	ND	mg/L
Chromium, trivalent Total Recoverable	ND	ND	ND	ND	mg/L
Copper Potentially Dissolved	1.6	3.8	6.1	ND	ug/L
Copper Total Recoverable	2.2	4.9	3.2	ND	ug/L
Field pH	7.6	8.1	8.1	7.7	SU
Field Temperature	0.2	1.7	1.7	21	Degrees C
Iron Total Recoverable	630	1100	970	15	ug/L
Lead Potentially Dissolved	0.34	22	18	ND	ug/L
Lead Total Recoverable	0.58	24	14	ND	ug/L
Manganese Potentially Dissolved	28	54	43	ND	ug/L
Mercury, Potentially Dissolved	6.8	23	20	0.26	ng/L
Mercury, Total Recoverable	ND	ND	ND	ND	ug/L
Nickel Potentially Dissolved	ND	ND	ND	ND	ug/L
pH adj. to 25 deg C	7.9	7.5	7.4	7.7	SU
Selenium Potentially Dissolved	ND	ND	ND	ND	ug/L
Silver Potentially Dissolved	ND	ND	ND	ND	ug/L
Specific Conductance	54	68	67	ND	umhos/cm
Specific Conductance Total	54	68	67	ND	umhos/cm
Sulfide Total (SM 4500 S2 D)	0.17	0.13	ND	ND	mg/L
Sulfide Total (SM4500 S2 H)	ND	ND	ND	ND	mg/L
Temperature	20.3	20.2	19.5	20.7	Degrees C
Total Suspended Solids	5.2	39	51	ND	mg/L
Un-ionized Hydrogen Sulfide Total	ND	ND	ND	ND	mg/L
Zinc, Total Recoverable	2.2	26	32	ND	ug/L
Zinc Potentially Dissolved	8.4	32	25		ug/L
ND Indicates "Not Detected"					



Table 4.2 Effluent Quality Test Results – Sample Date June 14, 2023

			Sta. 2022-02	Sta. 2022-02 Field	
Parameter	Sta. 2022-01	Sta. 2022-02	Duplicate	Blank	Unit
Arsenic Potentially Dissolved	ND	ND	ND	ND	ug/L
Arsenic Total Recoverable	ND	ND	ND	ND	ug/L
Cadmium Potentially Dissolved	ND	ND	ND	ND	ug/L
Cadmium Total Recoverable	ND	ND	ND	ND	ug/L
Chromium Potentially Dissolved	ND	0.59	0.53	0.52	ug/L
Chromium Total Recoverable	ND	ND	ND	ND	ug/L
Chromium, hexavalent Dissolved	ND	ND	ND	ND	mg/L
Chromium, hexavalent Total	ND	ND	ND	ND	mg/L
Chromium, trivalent Potentially Dissolved	ND	ND	ND	ND	mg/L
Chromium, trivalent Total Recoverable	ND	ND	ND	ND	mg/L
Copper Potentially Dissolved	2.4	2.6	2.7	ND	ug/L
Copper Total Recoverable	1.3	1.9	1.5	ND	ug/L
Field pH	7.9	8.2	8.2	8.5	SU
Field Temperature	9.3	7.8	7.8	22	Degrees C
Iron Total Recoverable	290	310	550	14	ug/L
Lead Potentially Dissolved	0.44	2.6	3.1	ND	ug/L
Lead Total Recoverable	0.3	2.5	2.6	ND	ug/L
Manganese Potentially Dissolved	8.5	14	12	ND	ug/L
Mercury, Potentially Dissolved	4.1	7.1	6.9	ND	ng/L
Mercury, Total Recoverable	ND	ND	ND	ND	ug/L
Nickel Potentially Dissolved	ND	ND	ND	ND	ug/L
pH adj. to 25 deg C	7.5	7.3	7.9	8.5	SU
Selenium Potentially Dissolved	ND	ND	ND	ND	ug/L
Silver Potentially Dissolved	ND	0.082	ND	ND	ug/L
Specific Conductance	44	78	77	ND	umhos/cm
Specific Conductance Total	44	78	77	ND	umhos/cm
Sulfide Total (SM 4500 S2 D)	ND	ND	ND	ND	mg/L
Sulfide Total (SM4500 S2 H)	ND	ND	ND	ND	mg/L
Temperature	21.1	21.9	22.1	22.1	Degrees C
Total Suspended Solids	1.6	3.6	3.2	ND	mg/L
Un-ionized Hydrogen Sulfide Total	ND	ND	ND	ND	mg/L
Zinc, Total Recoverable	3.5	11	15	ND	ug/L
Zinc Potentially Dissolved	7.1	26	19	7.6	ug/L
ND Indicates "Not Detected"					

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5. Quality Management (Quality Control & Quality Assurance)

Grand Island Resources (GIR) is committed to meeting expectations pertaining to the TR10 water quality data collection including proper water sample collection and testing via a Quality Management Program which is founded on Quality Assurance aimed to prevent errors. The program incorporates, among others, Standard Operating Procedures, Sample Collection Protocols, Chains of Custody, and the selection of State Credited Testing Laboratories which have internal Quality Control and Quality Assurance Methods and Standards. Quality Control aimed to identify errors is implemented via testing of one or more of the following Field or Laboratory: Duplicate Samples, Field Blanks and Matrix Spikes. On Monday March 13, 2023, GIR consulted with Mr. Patrick Lennberg of DRMS (via telephone) a specific deficiency noted by DRMS on their letter of March 2, 2023, requesting additional information of the GIR 4th Quarter 2022 Report; the conclusion of the review and phone conversation is that the SAP approved under TR10 states field duplicate samples will be collected side-by-side with the primary sample. The Operator shall collect one field duplicate sample for each media sampled (groundwater, effluent, and surface water), for a total of 3 duplicate samples to be collected per sampling event as committed to in TR10. GIR initiated the collection of the Field Duplicate for each media sampled on the March 2023 sampling event and will continue to do so for all sampling events going forward.

5.1. Groundwater

Field Blank Quality Control Samples were collected from the Cabin Well (Compliance) for the months of April, May, and June. A Field Duplicate sample was collected from the Cabin Well (Compliance) during the March sampling event. Duplicate and Matrix Spike tests were performed for select parameters which are incorporated in the QC section of the Laboratory Report. No Rinsate samples were collected because water samples were collected from permanently installed equipment at each well.

5.2. Mine Effluent

Field Blank Quality Control Samples were collected from the Caribou Portal. A Fiel Duplicate sample was collected from the Caribou Portal during the March sampling event. Duplicate tests were performed for select parameters which are incorporated in the QC section of the Laboratory Report. No Rinsate samples were collected because disposable samplers were used.

5.3. Surface Water

No surface water samples were collected during the months of March, April, or May 2023 given that the stream on both sampling stations were dry.





6. NPDES permit CO-0032751 Outfall 001

Effluent from the Cross Mine and Idaho Tunnel/Caribou Mine is collected in sumps and ponds and it is pumped to the Water Treatment Plant (subject of TR-10). Treated water is released to Coon Track Creek via pipeline to Outfall-001 in accordance with CDPHE NPDES permit.

Tables 6.1 Month of April, 6.2 Month of May and 6.3 Month of June present the monthly DMRs filed by The Operator with CDPHE for the 1st quarter 2023.



Table 6.1 DMR April 2023

DMR	Copy of Record																				
Permit																					
<i>Permit</i> Permit i		00032751					Permittee:			Grand Jela	nd Ree	ources LLC			le.	cility:	CROSS AND	CARIR	OUM	NES	
Major:	N. N.						Permittee:			12567 W (cility Location:	CROSS AND				
major.	.,,	•					Permittee !	Address.		Lakewood					F	cility Location.	BOULDER C				
Permitt	ed Feature: 00	1 ternal Outfall					Discharge	:		001-A Treated M	ine Wat	er to Coon	Track Cr	eek	·						
Report	Dates & Status																				
Monitor	ing Period: Fr	om 04/01/23 to	04/30/	23			DMR Due	Date:		05/28/23					St	atus:	NetDMR Vali	dated			
Consid	erations for Form Completion																				
	grease - see I.A.2, pg 3. 30 day a al Executive Officer	verage is the hi	ghest n	nonthly	y average	during per	riod reported														
First Na	ime:						Title:								To	lephone:					
Last Na	me:																				
No Data	Indicator (NODI)																				
Form N																					
Code	Parameter Name	Monitorir Location		#	Param. NODI		Qualifier Valu	e Qualifier	tity or Loading Value 2	Units	Qualific 1	r Value 1	Qualifier 2	Quality or Value 2	Concentra Qualifier 3			Units	# of Ex.	Frequency of Analysis	Sample Ty
						Sample							=	17.5	-	1.0	0	4 - deg		99/99 - Continuous	RC - Recorder (auto)
00010	Temperature, water deg. centigra	de 1 - Effluent				Permit								Reg Mon MX WK AV		Reg Mon DAILY MX		dan.	0	9/99 - Continuous	RC - Recorde
		Gross		-		Req. Value								,		,	C	i	-		(auto)
						NODI														10/00 Tu/ D	
						Sample					=	6.7			-	7.7	1	2 - SU		12/30 - Twice Per Month	GR - GRAB
00400	pH	1 - Effluent Gross	0	0		Permit Req.					>=	6.5 MINIMUM			cu	9.0 MAXIMUM	1	2 - SU	0	12/30 - Twice Per Month	GR - GRAB
						Value NODI															
						Sample							<	4.0	<	4.0	1	9 - mg/L		11/30 - Monthly	GR - GRAB
00520	College total supercoded	1 - Effluent		0		Permit								30.0 30DA AVG	CE.	45.0 DAILY MX		9 - mg/L		11/30 - Monthly	GR - GRAB
00000	Solids, total suspended	Gross	- 1	-		Req. Value												-			
						NODI Sample							<	5.0			9	8 - ug/L		11/30 - Monthly	GR - GRAB
		1 - Effluent				Permit								Reg Mon 30DA AVG				8 - ug/L		11/30 - Monthly	GR - GRAB
00978	Arsenic, total recoverable	Gross	0	0		Req. Value												-9-2	0		
						NODI								*** *						4 mm . 44	
						Sample Permit							<	100.0				8 - ug/L		11/30 - Monthly	GR - GRAB
00980	Iron, total recoverable	1 - Effluent Gross	0	0		Req.								Req Mon 30DA AVG			2	8 - ug/L	0	11/30 - Monthly	GR - GRAB
						Value NODI															
						Sample							<	10.0	<	10.0		8 - ug/L		11/30 - Monthly	GR - GRAB
01094	Zinc, total recoverable	1 - Effluent Gross	0	0		Permit Req.							<=	750.0 30DA AVG	CE.	1500.0 DAILY MX	2	8 - ug/L	0	11/30 - Monthly	GR - GRAB
						Value NODI															
						Sample							<	1.0	<	1.0		8 - ug/L		11/30 - Monthly	GR - GRAB
01113	Cadmium, total recoverable	1 - Effluent Gross	0	0		Permit Req.							CE.	50.0 30DA AVG	CE.	300.0 DAILY MX	2	8 - ug/L	0	11/30 - Monthly	GR - GRAB
		Gross				Value NODI															
						Sample							=	0.9	-	1.8	2	8 - ug/L		12/30 - Twice Per	GR - GRAB
		1 - Effluent				Permit														Month 12/30 - Twice Per	
01114	Lead, total recoverable	Gross	0	U		Req.							CII	300.0 30DA AVG	CII	600.0 DAILY MX	2	8 - ug/L	0	Month	GR - GRAB
						Value NODI															
						Sample							<	2.0	<	2.0	2	8 - ug/L		12/30 - Twice Per Month	GR - GRAB
01119	Copper, total recoverable	1 - Effluent	0	0		Permit							CII	150.0 30DA AVG	cu	300.0 DAILY MX	2	8 - ug/L		12/30 - Twice Per	GR - GRAB
		Gross				Req. Value														Month	
						NODI Sample							-	20.0	-	20.0		8 - ug/L		11/30 - Monthly	GR - GRAB
-													<	2010	<	2010		M - 110/100			COM - COMAR



Table 6.1 DMR April 2023 (continued)

	Crj	Gross			Value								
					NODI		<	10.0	<	10.0	28 - ug/L	02/30 - Twice Per Month	GR - GRAB
01303	Zinc, potentially dissolved	1 - Effluent Gross	4		Permit Req.		<	176.0 30DA AVG	cu	202.0 DAILY MX	28 - ug/L 0		GR - GRAB
					Value NODI								
					Sample				<	0.5	28 - ug/L	02/30 - Twice Per Month	GR - GRAB
01304	Silver, potentially dissolved	1 - Effluent Gross	4		Permit Req.		<.	0.11 30DA AVG	<=	3.1 DAILY MX	28 - ug/L 0	02/30 - Twice Per Month	GR - GRAB
					Value NODI			B - Below Detection Limit/No Detection					
					Sample		<	2.0	<	2.0	28 - ug/L	02/30 - Twice Per Month	GR - GRAB
01306	Copper, potentially dissolved	1 - Effluent Gross	4	**	Permit Req. Value		c)	13.0 30DA AVG	CII	20.0 DAILY MX	28 - ug/L 0	02/30 - Twice Per Month	GR - GRAB
					NODI Sample				<	5.0	28 - ug/L	01/30 - Monthly	GR - GRAB
01309	Arsenic, potentially dissolved	1 - Effluent	0		Permit Req.					Reg Mon DAILY MX	28 - ug/L 0		GR - GRAB
	,	Gross			Value NODI								
					Sample				<	1.0	28 - ug/L	02/30 - Twice Per Month	GR - GRAB
01313	Cadmium, potentially dissolvd	1 - Effluent Gross	4		Permit Req.		c.	0.6 30DA AVG	cu.	2.5 DAILY MX	28 - ug/L 0	02/30 - Twice Per Month	GR - GRAB
					Value NODI			B - Below Detection Limit/No Detection					
	Chromium, trivalent, potentially	1 - Effluent			Sample Permit		<	20.0 Reg Mon 30DA AVG			28 - ug/L 28 - ug/L 0	01/30 - Monthly 01/30 - Monthly	GR - GRAB GR - GRAB
01314	dissolvd	Gross	0		Req. Value			TWO MUNICIPAL AND			20 - Ugic 0	o 1130 - Michiesy	GR - GROED
					NODI Sample		-	1.4	-	1.6	28 - ug/L	02/30 - Twice Per Month	GR - GRAB
01318	Lead, potentially dissolvd	1 - Effluent Gross	4		Permit Req.		<	3.6 30DA AVG	<=	94.0 DAILY MX	28 - ug/L 0	02/30 - Twice Per Month	GR - GRAB
					Value NODI								
		1 - Effluent			Sample Permit		<	3.0 Reg Mon 30DA AVG	<	3.0 Reg Mon DAILY MX	28 - ug/L 28 - ug/L 0	01/30 - Monthly 01/30 - Monthly	GR - GRAB GR - GRAB
01319	Manganese, potentially dissolvd	Gross	0	-	Req. Value NODI						0		
					Sample		<	3.0	<	3.0	28 - ug/L	01/30 - Monthly	GR - GRAB
01322	Nickel, potentially dissolvd	1 - Effluent Gross	0		Req. Value			Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L 0	01/30 - Monthly	GR - GRAB
					NODI Sample		<	5.0	<	5.0	28 - ug/L	01/30 - Monthly	GR - GRAB
01323	Selenium, potentially dissolvd	1 - Effluent Gross	0		Permit Req.			Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L 0	01/30 - Monthly	GR - GRAB
		Cross			Value NODI								
		1 - Effluent			Sample Permit				cu cu	10.0 INST MAX	19 - mg/L	77/77 - Contingent	GR - GRAB
03582	Oil and grease	Gross	0	-	Req. Value					9 - Conditional Monitoring - Not Required This			
					NODI Sample				<	Period 20.0	28 - ug/L	01/30 - Monthly	GR - GRAB
04262	Chromium, trivalent total recoverable	1 - Effluent Gross	0		Permit Req.					Req Mon DAILY MX	28 - ug/L 0	01/30 - Monthly	GR - GRAB
					Value NODI						00		DO Darreto
	Flow, in conduit or thru treatment	1 - Effluent			Sample Permit		-	0.08272	-	0.12672	03 - MGD 03 -	99/99 - Continuous	RC - Recorder (auto) RC - Recorder
50050	plant	Gross	4		Req. Value		C)	0.148 30DA AVG		Req Mon DAILY MX	MGD 0	99/99 - Continuous	(auto)
					NODI Sample		<	1.0			19 - mg/L	01/30 - Monthly	GR - GRAB
51202	Sulfide-hydrogen sulfide [undissociated]	1 - Effluent Gross	0		Permit Req.			Req Mon 30DA AVG				01/30 - Monthly	GR - GRAB
	,				Value NODI								



Table 6.1 DMR April 2023 (continued)

74000	Manager total for the	1 - Effluent	0		Sample				¢	0.2	<	0.2	28 - ug/L	01/30 - Monthly	GR-
/1900	Mercury, total [as Hg]	Gross		**	Req.				¢#	1.0 30DA AVG	CII	2.0 DAILY MX	28 - ug/L 0	01/30 - Monthly	GR
					Value NODI										
					Sample	-	0.0	AB - abst=0;prst=1						02/30 - Twice Per Month	VI -
84066	Oil and grease visual	1 - Effluent Gross	0		Permit Req.		Reg Mon INST MAX	AB - abst=0;prst=1					0	02/30 - Twice Per Month	VI -
		0.022			Value NODI										
Subm	ission Note														
If a par	rameter row does not contain any val	ues for the Samp	le nor E	ffluent Tra	ding, then none	of the followin	g fields will be su	bmitted for that row: Ur	nits, Number of Exc	cursions, Frequency of Ar	nalysis, and Samp	le Type.			
Edit C	heck Errors														
No em	ors.														
Comn	nents														
Attach	hments														
						Nam	10					Туре		Size	
2023_0	04_CrossCaribouMine_Results_1.pdf											pdf	1229335.0		
2023_0	04_CrossCaribouMine_Results_2.pdf											pdf	965714.0		
2023_0	04_CrossCaribouMine_CoverLetter.pdf											pdf	192011.0		
Repor	t Last Saved By														
Grand	I Island Resources LLC														
User:			F	odelaney@	alexcoresource.	com									
Name:	:		F	Patrick D	elaney										
E-Mail	:		F	odelaney@	blackfoxmining.	com									
Date/T	Time:		2	2023-05-2	3 10:16 (Time	Zone: -06:00)									
Repor	t Last Signed By														
User:				odelaney@	alexcoresource.	com									
			F	Patrick D	elaney										
Name:					Maria de Procession de la constante de la cons										
Name: E-Mail	:		F	odelaney@	blackfoxmining.	com									



Table 6.2 DMR May 2023

Permit																					
Permit	#: CI	00032751				Permitte	e:			Grand Isla	and Reso	ources LLC			F	acility:	CROSS AND	CARIB	ои м	INES	
Major:	Ne					Permitte		ess:		12567 W Lakewood						acility Location:	CROSS AND BOULDER O	CARIB	ои м	INES	
Permitt	ed Feature: 00	1 ternal Outfall				Dischar	ge:			001-A Treated M	fine Wate	er to Coon	Track Cr	eek	·						
Report	Dates & Status																				
Monito	ing Period: Fr	om 05/01/23 to 05	/31/23			DMR Du	e Date:			06/28/23					S	tatus:	NetDMR Val	idated			
Consid	erations for Form Completion																				
	grease - see I.A.2, pg 3. 30 day a al Executive Officer	verage is the high	est month	nly average	during pe	riod report	ed.														
irst Na						Title:									Т	elephone:					
ast Na	me:														'						
Vo Date	Indicator (NODI)																				
Form N																					
Code	Parameter Name	Monitoring Location	Season #	n Param. NODI		Qualifier V			or Loading Value 2	Units	Qualifie	r Value 1	Qualifier		r Concentr Qualifie				# of Ex.	Frequency of Analysis	Sample T
							1				1		2		3						DC C
					Sample								=	5.34	=	10.0		04 - deg C		99/99 - Continuous	RC - Records (auto)
00010	Temperature, water deg. centigra	de 1 - Effluent Gross	0	-	Permit Req.									Req Mon MX WK AV		Reg Mon DAILY MX		04 - deg C	0	99/99 - Continuous	RC - Record (auto)
					Value NODI																
					Sample						=	6.7			=	7.6		12 - SU		02/30 - Twice Per Month	GR - GRAB
00400	pH	1 - Effluent Gross	0	_	Permit						>=	6.5 MINIMUM			CE .	9.0 MAXIMUM		12 - SU		02/30 - Twice Per Month	GR - GRAB
		Gross			Req. Value NODI							MITTERIOR								and the same of th	
					Sample								<	4.0	<	4.0		19 - mg/L		01/30 - Monthly	GR - GRAB
00530	Solids, total suspended	1 - Effluent	0	_	Permit Req.								CE	30.0 30DA AVG	CE.	45.0 DAILY MX		19 - mg/L	0	01/30 - Monthly	GR - GRAB
		Gross			Value NODI																
					Sample								<	5.0				28 - ug/L		01/30 - Monthly	GR - GRAB
00978	Arsenic, total recoverable	1 - Effluent	0	_	Permit Req.									Req Mon 30DA AVG				28 - ug/L	0	01/30 - Monthly	GR - GRAB
		Gross			Value																
					NODI Sample								<	100.0				28 - ug/L		01/30 - Monthly	GR - GRAB
nngen	Iron, total recoverable	1 - Effluent	0		Permit Req.									Req Mon 30DA AVG				28 - ug/L		01/30 - Monthly	GR - GRAB
00980	iron, total recoverable	Gross	U	_	Value														U	-	
					NODI Sample								<	10.0	<	10.0		28 - ug/L		01/30 - Monthly	GR - GRAB
01004	Time total measuremble	1 - Effluent	0		Permit									750.0 30DA AVG	<=	1500.0 DAILY MX		28 - ug/L		01/30 - Monthly	GR - GRAB
01094	Zinc, total recoverable	Gross	U		Req. Value														U	,	
					NODI Sample								<	1.0	<	1.0		28 . unit		01/30 - Monthly	GR - GRAB
		1 - Effluent			Permit									50.0 30DA AVG	<= <=	300.0 DAILY MX		28 - ug/L 28 - ug/L			GR - GRAB
01113	Cadmium, total recoverable	Gross	0	-	Req. Value														0		
					NODI Sample								=	2.8	=	3.1		28 . 193		02/30 - Twice Per	GR - GRAB
		1 - Effluent			Permit													28 - ug/L		Month	
01114	Lead, total recoverable	Gross	0	-	Req.								<=	300.0 30DA AVG	CE.	600.0 DAILY MX		28 - ug/L	0	Month	GR - GRAB
					Value NODI																
					Sample								<	2.0	<	2.0		28 - ug/L		02/30 - Twice Per Month	GR - GRAB
01119	Copper, total recoverable	1 - Effluent	0	_	Permit								c=	150.0 30DA AVG	CZ.	300.0 DAILY MX		28 - ug/L		02/30 - Twice Per	GR - GRAB
		Gross	1		Req.													_		Month	
					Value NODI																



Table 6.2 DMR May 2023 (continued)

	Crj	Gross			Value NODI							
					Sample	=	5.0	=	10.0	28 - ug/L	02/30 - Twice Per Month	GR - GRAB
1303	Zinc, potentially dissolved	1 - Effluent Gross	5	_	Permit Req.	<=	182.0 30DA AVG	CE	208.0 DAILY MX	28 - ug/L (02/30 - Twice Per Month	GR - GRAB
		Gross			Value NODI						MOTO	
					Sample			<	0.5	28 - ug/L	02/30 - Twice Per Month	GR - GRAB
1304	Silver, potentially dissolved	1 - Effluent	5	_	Permit Req.	CI.	0.12 30DA AVG	<=	3.2 DAILY MX	28 - ug/L (GR - GRAB
	,	Gross			Value NODI		B - Below Detection Limit/No Detection					
					Sample	<	2.0	<	2.0	28 - ug/L	02/30 - Twice Per Month	GR - GRAB
1306	Copper, potentially dissolved	1 - Effluent Gross	5	_	Permit Req.	CE.	13.0 30DA AVG	CE	20.0 DAILY MX	28 - ug/L (02/30 - Twice Per Month	GR - GRAB
		Citas			Value NODI							
					Sample			c	5.0	28 - ug/L	01/30 - Monthly	GR - GRAB
1309	Arsenic, potentially dissolved	1 - Effluent	0	_	Permit Req.				Req Mon DAILY MX	28 - ug/L (01/30 - Monthly	GR - GRAB
		Gross			Value NODI							
					Sample			<	1.0	28 - ug/L	02/30 - Twice Per Month	GR - GRAB
1313	Cadmium, potentially dissolvd	1 - Effluent	5	_	Permit Req.	c=	0.62 30DA AVG	c=	2.6 DAILY MX	28 - ug/L (02/30 - Twice Per	GR - GRAB
	, , , , , , , , , , , , , , , , , , , ,	Gross			Value NODI		B - Below Detection Limit/No Detection					
					Sample	<	20.0			28 - ug/L	01/30 - Monthly	GR - GRAB
1314	Chromium, trivalent, potentially dissolvd	1 - Effluent Gross	0	_	Permit Req.		Req Mon 30DA AVG			28 - ug/L (01/30 - Monthly	GR - GRAB
	dissolvu	Giuss			Value NODI							
					Sample	=	2.8	=	3.4	28 - ug/L	02/30 - Twice Per Month	GR - GRAB
1318	Lead, potentially dissolvd	1 - Effluent Gross	5	-	Permit Req.	<=	3.8 30DA AVG	CE	97.0 DAILY MX	28 - ug/L (02/30 - Twice Per Month	GR - GRAB
					Value NODI							
					Sample	<	3.0	<	3.0	28 - ug/L	01/30 - Monthly	GR - GRAB
1319	Manganese, potentially dissolvd	1 - Effluent Gross	0	-	Permit Req.		Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L (01/30 - Monthly	GR - GRAB
		0.000			Value NODI							
					Sample	<	3.0	<	3.0	28 - ug/L	01/30 - Monthly	GR - GRAB
1322	Nickel, potentially dissolvd	1 - Effluent Gross	0	_	Permit Req.		Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L (01/30 - Monthly	GR - GRAB
		Citas			Value NODI							
					Sample Permit	<	5.0	<	5.0	28 - ug/L	01/30 - Monthly	GR - GRAB
1323	Selenium, potentially dissolvd	1 - Effluent Gross	0	-	Req.		Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L (01/30 - Monthly	GR - GRAB
					Value NODI							
					Sample Permit							
3582	Oil and grease	1 - Effluent	0	-	Req.			CZ.	10.0 INST MAX	19 - mg/L	77/77 - Contingent	GR - GRAB
		Gross			Value NODI				9 - Conditional Monitoring - Not Required This Period			
					Sample			<	20.0	28 - ug/L	01/30 - Monthly	GR - GRAB
14262	Chromium, trivalent total recoverable	1 - Effluent Gross	0	-	Permit Req.				Req Mon DAILY MX	28 - ug/L (01/30 - Monthly	GR - GRAB
					Value NODI							
					Sample	=	0.19944	=	0.29592	03 - MGD	99/99 - Continuous	RC - Record (auto)
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	5	-	Permit Req.	<=	0.374 30DA AVG		Reg Mon DAILY MX	03 - MGD	99/99 - Continuous	RC - Record (auto)
		5.033			Value NODI							,,
					Sample	<	1.0			19 - mg/L	01/30 - Monthly	GR - GRAB
1202	Sulfide-hydrogen sulfide	1 - Effluent	0	_	Permit Req.		Req Mon 30DA AVG			19 - mg/L (01/30 - Monthly	GR - GRAB
	[undissociated]	Gross			Value							



Table 6.2 DMR May 2023 (continued)

				Sample					<	0.2	<	0.2	28 - u	/L	01/30 - Monthly	GR - GRAB
71900 Mercury, total [as h	g) 1 - Effluent Gross	0	-	Permit Reg.					CZ.	1.0 30DA AVG	<=	2.0 DAILY MX	28 - u	VL 0	01/30 - Monthly	GR - GRAB
				Value NODI												
				Sample	=	0.0	AB - abst=0;prst=1								02/30 - Twice Per Month	VI - VISUAL
84066 Oil and grease visu	1 - Effluent Gross	0	-	Permit Req.		Req Mon INS MAX								0	02/30 - Twice Per Month	VI - VISUAL
				Value NODI												
Submission Note																
If a parameter row does no	contain any values for the Sa	imple nor	r Effluent Tra	ading, then no	ne of the follo	wing fields will be	submitted for that	row: Units, Numb	er of Exc	ursions, Frequency of /	Analysis, and Samp	le Type.				
Edit Check Errors																
No errors.																
Comments																
Attachments																
					1	Name						Туре			Size	
2023_05_CrossCaribouMine	CoverLetter.pdf											pdf	190857.0			
2023_05_CrossCaribouMine_	Results_1.pdf											pdf	1064640.0			
2023_05_CrossCaribouMine_	Results_2.pdf											pdf	975364.0			
Report Last Saved By																
Grand Island Resources	LC															
User:			pdelaney@	@alexcoresour	rce.com											
Name:			Patrick D	Delaney												
E-Mail:			pdelaney@	@blackfoxmini	ng.com											
Date/Time:			2023-06-2	86 11:25 (Tin	ne Zone: -06:0	00)										
Report Last Signed By																
User:			pdelaney@	@alexcoresour	rce.com											
Name:			Patrick D	Delaney												
E-Mail:			pdelaney@	@blackfoxmini	ng.com											
Date/Time:			2023-06-2	6 11:25 (Tin	ne Zone: -06:0	00)										



Table 6.3 DMR June 2023

Permi																			
Permi		002751				Permitte	ent.		Grand lab	and Please	urone 114			l e	acility:	CROSS AND C	ADIDA	HMMCS	
Major							e Addres	ac.	12567 W	Cedar Dr					scility Location:	CROSS AND C	ARIBOI	UMNES	
Permi	itted Feature: 001 Exte	mai Outtali				Dischar	gek		801-A Treated M	line Wate	r to Coon	Track Co	nesk.	•					
Repor	rt Dates & Status													_					
		n 66/61/23 to 66	30/23			DMR Du	e Date:		67/28/23					9	tatue:	NetDMR Volida	cod		
	iderations for Form Completion d grease - see I.A.2, pg 3. 30 day aw	rage is the highe	et monthi	ly average	during per	field report	ed.												
Phinci	ipal Executive Officer																		
	Name:					Title:								Ti	elephone:				
	sta Indicator (NODI)																		
Form	NODE -																		
Costs	Parameter Kana	Mentioring Location	Same or a	Feren. NODI		Qualifier N		antity or Loading for Value 3	Units	Contillant	Makes II	Para Maria		Consentes Qualifie			edis II	of Presponsy of is. Analysis	Bamph
	-					1	1 1	10000	CHILL	1	Velue I	1	1200.2	1	******		deg .		BC - Res
					Lampie							-	4.58		16.0	(-	HITE Continuous	(multip)
00010	Temperature, water deg. certigrade	1 - Efficient Gross		-	Francis Step.								Reg Mon ME VAC AV		Reg Man CALLY MX		object of	HITTE - Continuous	(auto)
					HODI														
					Eample						4.4				76	13	THE STATE OF	COSC - Turine Per	GR - GRA
00400	pili pili	1 - Efficient Gross	0	-	Franci Seq.						B.B MININUM			Con.	EC MUMUM	13	au o	00/00 - Turion Per Month	GR : GRA
					Walter HODE														
					Earnple Formal							=1	LO		10	10	mgit	OUTS - Markey	OR : ONA
00830	Solids, total suspended	1 - Efficient Gross	a	-	Non.							-in	30.0 300A AVG	eta-	SEO DALLY MIX	10	mpt o	DIVID - Marthy	CR - CRA
					HODI Sample							-	8.0			200	upt.	DUSE - Martiny	OR ONA
00979	Arsenic, total recoverable	1 - Efficient Gross	0	-	Formal Resp.								Reg Man 30DA AVG			28	ugil. 0	01/30 - Marthy	OR - ORA
					HODE														
		1 - Effect			Sample Permit							4	New Marc 2008 AVG				ngt.	01/30 - Marthly 01/30 - Marthly	OR - ORA
000000	Iron, total recoverable	Gross	۰	-	Non-														
					RODI Sample							4	10.0	•	10-0		upt.	DIVID - Marriey	OR I CHA
01004	Zinc, total recoverable	1 - Efficient Gross	a	_	Francia Resp.							de	710.0 300A AVS	e e	1800 D CALLY MX	28	ugh o	00/30 - Mareny	GR - GRA
					Walter HODI														
					Earepie Passal								1.0	-	LD		ugit.	DICTO - Marriey	OR I ORA
01113	Cadmium, total recoverable	1 - Efficient Gross	ā	-	Resp.		_					No.	BO D SODA AUG	-	SOUR CALLY MX	38	ngl. 0	SV30 - Markey	GR - GRA
					HODI														
					Sample							-	1.1		21	218	agit.	00/30 - Torice Per Morth	GR - GRA
001114	Lead, total recoverable	1 - Efficient Gross	•	-	Familia Seq.							*in	300.0 300A AVG	eter .	600 S DALY MX	28	ugit. O	SSTSS - Torice Per Month	GR - GRA
					HODI														
					Earnpie							-	1.2	-	23	28	ugit.	00/30 - Turice Per Month	OR - ORA
00119	Copper, total recoverable	1 - Efficient Gross	0	-	Permit Ben-							-in	110.0 30DA AVO	e e	200 S CALLY MX	28	ugil. 0	00/30 - Torice Per Month	GR - GRA
					Water NOO!														
					Sample	_		_		_		4	20.0		30.0		mpl.	01/30 - Markey	CR CRA



Table 6.3 DMR June 2023 (continued)

	cd				HODE									COTO - Torice Per	
					Sample	\rightarrow			•	Ta		Ma	28 rugit.	Marile	OR - ORA
01303	Zinc, potentially dissolved	1 - Efficient Circus		-	Permit Resp.				-te-	30 0 300A AVG	-	SOLE CALLY MX	28 - ugit. 0	03/30 - Taise Per Marih	GR - GRA
					Walter MODE										
					Sample						4	048	28 ragit.	50/35 - Total Per Martin	GR - GRA
01304	Silver, potentially dissolved	1 - Efficient Gross		_	Permit Res.				Nim	0.17 300A AND	en e	LYDALYMX	28 - ugit. 0	02/30 - Today Per Marin	GR : GRA
		GIORE			Water NOOI					8 - Below Detection LimitNo Detection					
					Sample				-	1.0		20	28 - upl.	03/30 - Tarica Per	GR - GRA
	Copper, potentially dissalved	1 - Efficient Gross		_	Parent Bay.				-tim	13.0 300A AVG	-	20 0 DAILY MIX	28 - ugit. 0	00/30 - Today Per	GR - GRA
					Walter MODE										
					Sample						-	Lo	28 raph.	01/30 - Marthy	GR - GRA
01309	Arsenic, potentially dissolved	1 - Efficient Gross	0	-	Farmil Seq.							Reg Mon DALY MX	28 - ugit. 0	01/30 - Marthy	OR - ORA
					Walter MOOR										
					Sample						4	Lo	Sit regit.	02/30 - Torico Per Monte	GR - GRAI
01313	Cadmium, potentially dissolve	1 - Efficient Gross		_	Female Seq.				-te-	DIES SODA AUG	ele-	STORLYMN	28 - ugil. 0	00/30 - Tolice Per	OR - ORA
		Citota			Value HODE					B - Below Detection LimitNo Detection					
					Eample				4	30.8			28 regit.	DIVID - Markey	OR - ORA
01314	Chromium, trivalent, potentially dissoled	1 - Efficient Gross	a	-	Farmit Res.					Reg Man 2008 AVG			28 rapt. o	01/00 - Marthy	OR - ORA
					Walter MODE										
					Sample				-	1.0		310	28 ragit.	00/30 - Tolor Per Mortin	GR - GRA
01318	Lead, potentially dissaled	1 - Efficient Gross		_	Parenti Res.				-te-	E4 SODA AVO	-	MO I DALYMX	28 - ugit. 0	COTO - Textor Per March	OR - ORA
					Walter										
					Earnple Farms				4	3.0	4	3.0	28 rept.	SNOW - Marriery	GR - GRA
01319	Manganese, potentially dissolvid	1 - Efficient Gross	0	-	Req.					Reg Man 300A AVG		Ring Man CALLY MX	28 - upit. 0	SVSS - Marriey	CR - CRA
					Value HODI										
					Earnple Fermi	$\rightarrow \rightarrow$				Reg Man 2008 AVG	-	Neg Mar DALY MX	28 regit.	DUSE - Marting	GR - GRA
01323	Nickel, potentially dissolve	1 - Efficient Gross	•	-	Nes.	\rightarrow				AND SOFT ASSESSMENT	-	rang dam Career no.	28 - ugit. 0	DOWN - Martinly	GR - GRA
					MODE Exemple				-	8:0	-	LO	28 rapt.	COTE - Marriety	OR - ORA
	Selecture, potentially dissoled	1-Effect			Parenti Res.					Reg Man 30DA AVG			Managet. o		OR - ORA
		Circus			Walter								T .		
					Earnple										
00082	Oil and greate	1 - Effect	a	_	Fermi Seq.						-	10:0 INST MAX	10 mg/L	7077 - Contingent	GR - GRA
		CHOKE			Walter MODE							8 - Conditional Munitaring - Not Required This Period			
					Sample						-	20:0	28 rapt.	DUTE - Markey	GR - GRA
04090	Chromium, trivalent total	1 - Efficient Gross	a	_	Female Res.							Ring Man CALLY MX	28 - ugit. 0	DIVID - Morelly	GR - GRA
	recoverable				Walter MODE										
					Sample				-	0.2003		0.3%00	MOD MOD	MW Certrons	RC - Reco
	Flow, in conduit or thru treatment plant	1 - Efficient Gross		_	Permit Res.				-in-	0.488 300A AV0		Reg Man DALLY MX	MOD 0	HVM - Contractor	RC - Result
					Walter MODE	\Box									
					Sample				4	10			Mir mg/L	DV30 - Markey	GR - GRA
81303	Sulfide hydrogen sulfide [undissociated]	1 - Efficient Gross	a	-	Parenti Resp.					Reg Mon 300A AVG			16 - mg/L ()	0000 - Mareny	GR - GRA
					Walter MODE										



Table 6.3 DMR June 2023 (continued)

		1 - Effect	_		Earnple Parent		+				-	83		83	28 - 49		DATE - Markey	GR.
7 1800	Mercury, total [as Hg]	Gross		_	Mary.						***	1.0 300A AVG	***	DODALYBE	28 - 49		DIVID - Marency	981
					Motor													
					Sample		•	0.0	All - abstructural1								00/30 - Total Per March	WIL-Y
84004	Oil and grease visual	1 - Efficient Gross		_	Parenti Res.			Hospithon (REET MACK)	All - alcolo@pedied							ò	00/00 - Torice Per	William N
		-			Walter MODI													
Suden	sission Note																	
	arameter now does not contain any	values for the Sam	pie mor B	Musent Tita	iding, then nor	e of the fo	dowing	fields will be out	omitted for that row: I	Jnits, Numb	er of Excu	reions, Frequency of Analysi	s, and Samp	ie Type.				
	Check Errors																	
No en	sore.																	
Come																		
Attaci	hments																	
							Name							Type			Size	
2023_0	06_CrossCaribouMine_Results_1.pdf													pd	1013794.0			
2023	06 CoorCarbooMine Results 2 pdf													pdf	982177.0			
2023_0	06 CrossCarbouMine CoverLetter p	ď												poli	191678.0			
Repor	rt Last Saved By																	
Girand	d Island Resources LLC																	
Ulaser:				odelaney@	alexcoresour	OR COOK												
Name	c		6	Patrick D	Selaney													
E-Made	ė			delanayê	(Mack forminin	g.com												
Darte/1	lime:				0 22:16 (Tin		(00:00											
Repor	rt Last Signed By																	
User:				odelaney@	galencorescus	OR COOK												
	E			Potrick D	Selaney													
Name and Address of the Owner, where the Owner, which is the Own					Stinck forminir													
Name E-Mail	t			COMMON MY IS	Company of the last section of	G-0000												



Appendices

APPENDICES

APPENDIX A GROUNDWATER AND EFFLUENT ANALYTICAL RESULTS

APPENDIX A.1 APRIL 2023 GROUNDWATER AND EFFLUENT ANALYTICAL RESULTS



Analytical Results

TASK NO: 230418115

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230418115

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 4/18/23 Date Reported: 5/22/23

Matrix: Water - Ground

Customer Sample ID Cross Well

Sample Date/Time: 4/18/23 1:00 PM Lab Number: 230418115-01

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Test	Nosuit	Metriou	ILL	Date Allaryzeu	QC Datell ID	Allalyzed by
Chloride	3.97 mg/L	EPA 300.0	0.10 mg	/L 4/19/23	QC64405	AMJ
Cyanide-Free	ND	ASTM D4282-15	0.005 mg	/L 4/19/23	QC64370	DPL
Fluoride	ND	EPA 300.0	1.00 mg	/L 4/19/23	QC64402	AMJ
Nitrate Nitrogen	ND	EPA 300.0	0.50 mg	/L 4/19/23	QC64403	AMJ
Nitrate/ Nitrite Nitrogen	0.22 mg/L	Calculation	0.05 mg	/L 4/20/23	-	AMJ
Nitrite Nitrogen	ND	EPA 300.0	0.30 mg	/L 4/19/23	QC64404	AMJ
Sulfate	10.76 mg/L	EPA 300.0	0.10 mg	/L 4/19/23	QC64406	AMJ
Dissolved						
Mercury	ND	EPA 245.7	0.0002 mg	/L 4/20/23	QC64398	MLT
Aluminum	0.008 mg/L	EPA 200.8	0.001 mg	/L 4/21/23	QC64413	MBN
Antimony	ND	EPA 200.8	0.0012 mg	/L 4/21/23	QC64413	MBN
Arsenic	ND	EPA 200.8	0.0006 mg	/L 4/21/23	QC64413	MBN
Barium	0.0304 mg/L	EPA 200.8	0.0007 mg	/L 4/21/23	QC64413	MBN
Beryllium	ND	EPA 200.8	0.0001 mg	/L 4/21/23	QC64413	MBN
Cadmium	0.0001 mg/L	EPA 200.8	0.0001 mg	/L 4/21/23	QC64413	MBN
Chromium	ND	EPA 200.8	0.0015 mg	/L 4/21/23	QC64413	MBN
Cobalt	ND	EPA 200.8	0.0002 mg	/L 4/21/23	QC64413	MBN
Copper	0.0044 mg/L	EPA 200.8	0.0008 mg	/L 4/21/23	QC64413	MBN
Lead	0.0006 mg/L	EPA 200.8	0.0001 mg	/L 4/21/23	QC64413	MBN
Manganese	0.0009 mg/L	EPA 200.8	0.0008 mg	/L 4/21/23	QC64413	MBN
Molybdenum	ND	EPA 200.8	0.0005 mg	/L 4/21/23	QC64413	MBN
Nickel	ND	EPA 200.8	0.0009 mg	/L 4/21/23	QC64413	MBN
Selenium	ND	EPA 200.8	0.0008 mg	/L 4/21/23	QC64413	MBN

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations. (s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable

ND = Not Detected at Reporting Limit.



TASK NO: 230418115

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230418115

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 4/18/23 Date Reported: 5/22/23

Matrix: Water - Ground

Customer Sample ID Cross Well

O1033 WCII

Sample Date/Time: 4/18/23 1:00 PM

Lab Number: 230418115-01

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Dissolved						
Silver	ND	EPA 200.8	0.0005 mg/L	4/21/23	QC64413	MBN
Thallium	ND	EPA 200.8	0.0002 mg/L	4/21/23	QC64413	MBN
Uranium	ND	EPA 200.8	0.0002 mg/L	4/21/23	QC64413	MBN
Vanadium	ND	EPA 200.8	0.001 mg/L	4/21/23	QC64413	MBN
Zinc	1.33 mg/L	EPA 200.8	0.001 mg/L	4/21/23	QC64413	MBN
Boron	ND	EPA 200.7	0.01 mg/L	4/19/23	QC64373	MAT
Calcium	17.2 mg/L	EPA 200.7	0.1 mg/L	4/19/23	QC64373	MAT
Iron	ND	EPA 200.7	0.005 mg/L	4/19/23	QC64373	MAT

Dissolved Metals filtered in the field by the customer

Abbreviations/ References:

RL = Reporting Limit = Minimum Level
mg/L = Milligrams Per Liter or PPM
ug/L = Micrograms Per Liter or PPB
mpn/100 mls = Most Probable Number Index/ 100 mls
Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations.
(s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable



TASK NO: 230418115

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230418115

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 4/18/23 Date Reported: 5/22/23

Matrix: Water - Ground

Customer Sample ID Compliance Well

Sample Date/Time: 4/18/23

Lab Number: 230418115-02

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Chloride	3.28 mg/L	EPA 300.0	0.10 mg/L	4/19/23	QC64405	AMJ
Cyanide-Free	ND	ASTM D4282-15	0.005 mg/L	4/19/23	QC64370	DPL
Fluoride	ND	EPA 300.0	1.00 mg/L	4/19/23	QC64402	AMJ
Nitrate Nitrogen	ND	EPA 300.0	0.50 mg/L	4/19/23	QC64403	AMJ
Nitrate/ Nitrite Nitrogen	0.27 mg/L	Calculation	0.05 mg/L	4/20/23	-	AMJ
Nitrite Nitrogen	ND	EPA 300.0	0.30 mg/L	4/19/23	QC64404	AMJ
Sulfate	10.34 mg/L	EPA 300.0	0.10 mg/L	4/19/23	QC64406	AMJ
<u>Dissolved</u>						
Mercury	ND	EPA 245.7	0.0002 mg/L	4/20/23	QC64398	MLT
Aluminum	0.001 mg/L	EPA 200.8	0.001 mg/L	4/21/23	QC64413	MBN
Antimony	ND	EPA 200.8	0.0012 mg/L	4/21/23	QC64413	MBN
Arsenic	ND	EPA 200.8	0.0006 mg/L	4/21/23	QC64413	MBN
Barium	0.0409 mg/L	EPA 200.8	0.0007 mg/L	4/21/23	QC64413	MBN
Beryllium	ND	EPA 200.8	0.0001 mg/L	4/21/23	QC64413	MBN
Cadmium	ND	EPA 200.8	0.0001 mg/L	4/21/23	QC64413	MBN
Chromium	ND	EPA 200.8	0.0015 mg/L	4/21/23	QC64413	MBN
Cobalt	ND	EPA 200.8	0.0002 mg/L	4/21/23	QC64413	MBN
Copper	ND	EPA 200.8	0.0008 mg/L	4/21/23	QC64413	MBN
Lead	0.0002 mg/L	EPA 200.8	0.0001 mg/L	4/21/23	QC64413	MBN
Manganese	0.0097 mg/L	EPA 200.8	0.0008 mg/L	4/21/23	QC64413	MBN
Molybdenum	0.0043 mg/L	EPA 200.8	0.0005 mg/L	4/21/23	QC64413	MBN
Nickel	ND	EPA 200.8	0.0009 mg/L	4/21/23	QC64413	MBN
Selenium	ND	EPA 200.8	0.0008 mg/L	4/21/23	QC64413	MBN

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations. (s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable



TASK NO: 230418115

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230418115

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 4/18/23 Date Reported: 5/22/23

Matrix: Water - Ground

Customer Sample ID Compliance Well

Sample Date/Time: 4/18/23 1:30 PM

Lab Number: 230418115-02

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
<u>Dissolved</u>						
Silver	ND	EPA 200.8	0.0005 mg/L	4/21/23	QC64413	MBN
Thallium	ND	EPA 200.8	0.0002 mg/L	4/21/23	QC64413	MBN
Uranium	ND	EPA 200.8	0.0002 mg/L	4/21/23	QC64413	MBN
Vanadium	ND	EPA 200.8	0.001 mg/L	4/21/23	QC64413	MBN
Zinc	0.106 mg/L	EPA 200.8	0.001 mg/L	4/21/23	QC64413	MBN
Boron	ND	EPA 200.7	0.01 mg/L	4/19/23	QC64373	MAT
Calcium	16.7 mg/L	EPA 200.7	0.1 mg/L	4/19/23	QC64373	MAT
Iron	0.012 mg/L	EPA 200.7	0.005 mg/L	4/19/23	QC64373	MAT

Dissolved Metals filtered in the field by the customer

Abbreviations/ References:

RL = Reporting Limit = Minimum Level
mg/L = Milligrams Per Liter or PPM
ug/L = Micrograms Per Liter or PPB
mpn/100 mls = Most Probable Number Index/ 100 mls
Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations.
(s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable



TASK NO: 230418115

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230418115

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 4/18/23 Date Reported: 5/22/23

Matrix: Water - Ground

Customer Sample ID Compliance 02

Sample Date/Time: 4/18/23 1:30 PM

Lab Number: 230418115-03

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Chloride	3.29 mg/L	EPA 300.0	0.10 mg/L	4/19/23	QC64405	AMJ
Cyanide-Free	ND	ASTM D4282-15	0.005 mg/L	4/19/23	QC64370	DPL
Fluoride	ND	EPA 300.0	1.00 mg/L	4/19/23	QC64402	AMJ
Nitrate Nitrogen	ND	EPA 300.0	0.50 mg/L	4/19/23	QC64403	AMJ
Nitrate/ Nitrite Nitrogen	0.28 mg/L	Calculation	0.05 mg/L	4/20/23	-	AMJ
Nitrite Nitrogen	ND	EPA 300.0	0.30 mg/L	4/19/23	QC64404	AMJ
Sulfate	10.12 mg/L	EPA 300.0	0.10 mg/L	4/19/23	QC64406	AMJ
<u>Dissolved</u>						
Mercury	ND	EPA 245.7	0.0002 mg/L	4/20/23	QC64398	MLT
Aluminum	0.001 mg/L	EPA 200.8	0.001 mg/L	4/21/23	QC64413	MBN
Antimony	ND	EPA 200.8	0.0012 mg/L	4/21/23	QC64413	MBN
Arsenic	ND	EPA 200.8	0.0006 mg/L	4/21/23	QC64413	MBN
Barium	0.0411 mg/L	EPA 200.8	0.0007 mg/L	4/21/23	QC64413	MBN
Beryllium	ND	EPA 200.8	0.0001 mg/L	4/21/23	QC64413	MBN
Cadmium	ND	EPA 200.8	0.0001 mg/L	4/21/23	QC64413	MBN
Chromium	ND	EPA 200.8	0.0015 mg/L	4/21/23	QC64413	MBN
Cobalt	ND	EPA 200.8	0.0002 mg/L	4/21/23	QC64413	MBN
Copper	ND	EPA 200.8	0.0008 mg/L	4/21/23	QC64413	MBN
Lead	0.0002 mg/L	EPA 200.8	0.0001 mg/L	4/21/23	QC64413	MBN
Manganese	0.0095 mg/L	EPA 200.8	0.0008 mg/L	4/21/23	QC64413	MBN
Molybdenum	0.0044 mg/L	EPA 200.8	0.0005 mg/L	4/21/23	QC64413	MBN
Nickel	ND	EPA 200.8	0.0009 mg/L	4/21/23	QC64413	MBN
Selenium	ND	EPA 200.8	0.0008 mg/L	4/21/23	QC64413	MBN

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations. (s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable



TASK NO: 230418115

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230418115

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 4/18/23 Date Reported: 5/22/23

Matrix: Water - Ground

Customer Sample ID Compliance 02

Sample Date/Time: 4/18/23 1:30 PM

Lab Number: 230418115-03

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Dissolved						
Silver	ND	EPA 200.8	0.0005 mg/L	4/21/23	QC64413	MBN
Thallium	ND	EPA 200.8	0.0002 mg/L	4/21/23	QC64413	MBN
Uranium	ND	EPA 200.8	0.0002 mg/L	4/21/23	QC64413	MBN
Vanadium	ND	EPA 200.8	0.001 mg/L	4/21/23	QC64413	MBN
Zinc	0.106 mg/L	EPA 200.8	0.001 mg/L	4/21/23	QC64413	MBN
Boron	ND	EPA 200.7	0.01 mg/L	4/19/23	QC64373	MAT
Calcium	16.8 mg/L	EPA 200.7	0.1 mg/L	4/19/23	QC64373	MAT
Iron	0.011 mg/L	EPA 200.7	0.005 mg/L	4/19/23	QC64373	MAT

Dissolved Metals filtered in the field by the customer

Abbreviations/ References:

RL = Reporting Limit = Minimum Level
mg/L = Milligrams Per Liter or PPM
ug/L = Micrograms Per Liter or PPB
mpn/100 mls = Most Probable Number Index/ 100 mls
Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations.
 (s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable



TASK NO: 230418115

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230418115

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 4/18/23 Date Reported: 5/22/23

Matrix: Water - Ground

Customer Sample ID Compliance 03

Sample Date/Time: 4/18/23 1:30 PM

Lab Number: 230418115-04

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Chloride	ND	EPA 300.0	0.10 mg	g/L 4/19/23	QC64405	AMJ
Cyanide-Free	ND	ASTM D4282-15	0.005 mg	g/L 4/19/23	QC64370	DPL
Fluoride	ND	EPA 300.0	1.00 mg	g/L 4/19/23	QC64402	AMJ
Nitrate Nitrogen	ND	EPA 300.0	0.50 mg	g/L 4/19/23	QC64403	AMJ
Nitrate/ Nitrite Nitrogen	ND	Calculation	0.05 mg	g/L 4/20/23	-	AMJ
Nitrite Nitrogen	ND	EPA 300.0	0.30 mg	g/L 4/19/23	QC64404	AMJ
Sulfate	ND	EPA 300.0	0.10 mg	g/L 4/19/23	QC64406	AMJ
Dissolved						
Mercury	ND	EPA 245.7	0.0002 mg	g/L 4/20/23	QC64398	MLT
Aluminum	ND	EPA 200.8	0.001 mg	g/L 4/21/23	QC64413	MBN
Antimony	ND	EPA 200.8	0.0012 mg	g/L 4/21/23	QC64413	MBN
Arsenic	ND	EPA 200.8	0.0006 mg	g/L 4/21/23	QC64413	MBN
Barium	ND	EPA 200.8	0.0007 mg	g/L 4/21/23	QC64413	MBN
Beryllium	ND	EPA 200.8	0.0001 mg	g/L 4/21/23	QC64413	MBN
Cadmium	ND	EPA 200.8	0.0001 mg	g/L 4/21/23	QC64413	MBN
Chromium	ND	EPA 200.8	0.0015 mg	g/L 4/21/23	QC64413	MBN
Cobalt	ND	EPA 200.8	0.0002 mg	g/L 4/21/23	QC64413	MBN
Copper	ND	EPA 200.8	0.0008 mg	g/L 4/21/23	QC64413	MBN
Lead	ND	EPA 200.8	0.0001 mg	g/L 4/21/23	QC64413	MBN
Manganese	ND	EPA 200.8	0.0008 mg	g/L 4/21/23	QC64413	MBN
Molybdenum	ND	EPA 200.8	0.0005 mg	g/L 4/21/23	QC64413	MBN
Nickel	ND	EPA 200.8	0.0009 mg	g/L 4/21/23	QC64413	MBN
Selenium	ND	EPA 200.8	0.0008 mg	g/L 4/21/23	QC64413	MBN

Abbreviations/ References:

RL = Reporting Limit = Minimum Level
mg/L = Milligrams Per Liter or PPM
ug/L = Micrograms Per Liter or PPB
mpn/100 mls = Most Probable Number Index/ 100 mls
Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations.
(s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable



TASK NO: 230418115

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230418115

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 4/18/23

Date Reported: 5/22/23

Matrix: Water - Ground

Customer Sample ID Compliance 03

Sample Date/Time: 4/18/23 1:30 PM

Lab Number: 230418115-04

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
<u>Dissolved</u>						
Silver	ND	EPA 200.8	0.0005 mg/L	4/21/23	QC64413	MBN
Thallium	ND	EPA 200.8	0.0002 mg/L	4/21/23	QC64413	MBN
Uranium	ND	EPA 200.8	0.0002 mg/L	4/21/23	QC64413	MBN
Vanadium	ND	EPA 200.8	0.001 mg/L	4/21/23	QC64413	MBN
Zinc	ND	EPA 200.8	0.001 mg/L	4/21/23	QC64413	MBN
Boron	0.01 mg/L	EPA 200.7	0.01 mg/L	4/19/23	QC64373	MAT
Calcium	ND	EPA 200.7	0.1 mg/L	4/19/23	QC64373	MAT
Iron	ND	EPA 200.7	0.005 mg/L	4/19/23	QC64373	MAT

Dissolved Metals filtered in the field by the customer

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations. (s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable



TASK NO: 230418115

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230418115

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 4/18/23 Date Reported: 5/22/23

Matrix: Water - Ground

Customer Sample ID Caribou Well

Sample Date/Time: 4/18/23 11:30 AM

Lab Number: 230418115-05

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
1001	Roduit	metriou	NL	Date Analyzed	QO Daton ID	Analyzed by
Chloride	0.42 mg/L	EPA 300.0	0.10 m	•	QC64405	AMJ
Cyanide-Free	ND	ASTM D4282-15	0.005 m	g/L 4/19/23	QC64370	DPL
Fluoride	ND	EPA 300.0	1.00 m	g/L 4/19/23	QC64402	AMJ
Nitrate Nitrogen	ND	EPA 300.0	0.50 m	g/L 4/19/23	QC64403	AMJ
Nitrate/ Nitrite Nitrogen	0.09 mg/L	Calculation	0.05 m	g/L 4/20/23	-	AMJ
Nitrite Nitrogen	ND	EPA 300.0	0.30 m	g/L 4/19/23	QC64404	AMJ
Sulfate	2.67 mg/L	EPA 300.0	0.10 m	g/L 4/19/23	QC64406	AMJ
Dissolved						
Mercury	ND	EPA 245.7	0.0002 m	g/L 4/20/23	QC64398	MLT
Aluminum	0.048 mg/L	EPA 200.8	0.001 m	g/L 4/21/23	QC64413	MBN
Antimony	ND	EPA 200.8	0.0012 m	g/L 4/21/23	QC64413	MBN
Arsenic	ND	EPA 200.8	0.0006 m	g/L 4/21/23	QC64413	MBN
Barium	0.0064 mg/L	EPA 200.8	0.0007 m	g/L 4/21/23	QC64413	MBN
Beryllium	ND	EPA 200.8	0.0001 m	g/L 4/21/23	QC64413	MBN
Cadmium	ND	EPA 200.8	0.0001 m	g/L 4/21/23	QC64413	MBN
Chromium	ND	EPA 200.8	0.0015 m	g/L 4/21/23	QC64413	MBN
Cobalt	ND	EPA 200.8	0.0002 m	g/L 4/21/23	QC64413	MBN
Copper	0.1625 mg/L	EPA 200.8	0.0008 m	g/L 4/21/23	QC64413	MBN
Lead	0.0006 mg/L	EPA 200.8	0.0001 m	g/L 4/21/23	QC64413	MBN
Manganese	ND	EPA 200.8	0.0008 m	g/L 4/21/23	QC64413	MBN
Molybdenum	ND	EPA 200.8	0.0005 m	g/L 4/21/23	QC64413	MBN
Nickel	ND	EPA 200.8	0.0009 m	g/L 4/21/23	QC64413	MBN
Selenium	ND	EPA 200.8	0.0008 m	g/L 4/21/23	QC64413	MBN

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations. (s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable



TASK NO: 230418115

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230418115

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 4/18/23 Date Reported: 5/22/23

Matrix: Water - Ground

Customer Sample ID Caribou Well

Sample Date/Time: 4/18/23 11:30 AM

Lab Number: 230418115-05

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Dissolved						
Silver	ND	EPA 200.8	0.0005 mg/L	4/21/23	QC64413	MBN
Thallium	ND	EPA 200.8	0.0002 mg/L	4/21/23	QC64413	MBN
Uranium	ND	EPA 200.8	0.0002 mg/L	4/21/23	QC64413	MBN
Vanadium	ND	EPA 200.8	0.001 mg/L	4/21/23	QC64413	MBN
Zinc	0.005 mg/L	EPA 200.8	0.001 mg/L	4/21/23	QC64413	MBN
Boron	ND	EPA 200.7	0.01 mg/L	4/19/23	QC64373	MAT
Calcium	3.7 mg/L	EPA 200.7	0.1 mg/L	4/19/23	QC64373	MAT
Iron	0.028 mg/L	EPA 200.7	0.005 mg/L	4/19/23	QC64373	MAT

Dissolved Metals filtered in the field by the customer

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations. (s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable



TASK NO: 230418115

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230418115

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 4/18/23 Date Reported: 5/22/23

Matrix: Water - Ground

Customer Sample ID Cross Portal

Sample Date/Time: 4/18/23 12:15 PM

Lab Number: 230418115-06

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
		•				
Chloride	0.65 mg/L	EPA 300.0	0.10 mg/l	4/19/23	QC64405	AMJ
Cyanide-Free	ND	ASTM D4282-15	0.005 mg/l	4/19/23	QC64370	DPL
Fluoride	ND	EPA 300.0	1.00 mg/l	4/19/23	QC64402	AMJ
Nitrate Nitrogen	ND	EPA 300.0	0.50 mg/l	4/19/23	QC64403	AMJ
Nitrate/ Nitrite Nitrogen	0.09 mg/L	Calculation	0.05 mg/l	4/20/23	-	AMJ
Nitrite Nitrogen	ND	EPA 300.0	0.30 mg/l	4/19/23	QC64404	AMJ
Sulfate	14.75 mg/L	EPA 300.0	0.10 mg/l	4/19/23	QC64406	AMJ
<u>Dissolved</u>						
Mercury	ND	EPA 245.7	0.0002 mg/l	4/20/23	QC64398	MLT
Aluminum	0.029 mg/L	EPA 200.8	0.001 mg/l	4/21/23	QC64413	MBN
Antimony	ND	EPA 200.8	0.0012 mg/l	4/21/23	QC64413	MBN
Arsenic	ND	EPA 200.8	0.0006 mg/l	4/21/23	QC64413	MBN
Barium	0.0724 mg/L	EPA 200.8	0.0007 mg/l	4/21/23	QC64413	MBN
Beryllium	ND	EPA 200.8	0.0001 mg/l	4/21/23	QC64413	MBN
Cadmium	0.0011 mg/L	EPA 200.8	0.0001 mg/l	4/21/23	QC64413	MBN
Chromium	ND	EPA 200.8	0.0015 mg/l	4/21/23	QC64413	MBN
Cobalt	ND	EPA 200.8	0.0002 mg/l	4/21/23	QC64413	MBN
Copper	0.0025 mg/L	EPA 200.8	0.0008 mg/l	4/21/23	QC64413	MBN
Lead	0.0022 mg/L	EPA 200.8	0.0001 mg/l	4/21/23	QC64413	MBN
Manganese	0.0124 mg/L	EPA 200.8	0.0008 mg/l	4/21/23	QC64413	MBN
Molybdenum	0.0065 mg/L	EPA 200.8	0.0005 mg/l	4/21/23	QC64413	MBN
Nickel	ND	EPA 200.8	0.0009 mg/l	4/21/23	QC64413	MBN
Selenium	0.0014 mg/L	EPA 200.8	0.0008 mg/l	4/21/23	QC64413	MBN

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations. (s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable



TASK NO: 230418115

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230418115

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 4/18/23 Date Reported: 5/22/23

Matrix: Water - Ground

Customer Sample ID Cross Portal

Sample Date/Time: 4/18/23 12:15 PM

Lab Number: 230418115-06

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Dissolved						
Silver	ND	EPA 200.8	0.0005 mg/L	4/21/23	QC64413	MBN
Thallium	ND	EPA 200.8	0.0002 mg/L	4/21/23	QC64413	MBN
Uranium	0.0009 mg/L	EPA 200.8	0.0002 mg/L	4/21/23	QC64413	MBN
Vanadium	ND	EPA 200.8	0.001 mg/L	4/21/23	QC64413	MBN
Zinc	0.239 mg/L	EPA 200.8	0.001 mg/L	4/21/23	QC64413	MBN
Boron	ND	EPA 200.7	0.01 mg/L	4/19/23	QC64373	MAT
Calcium	25.2 mg/L	EPA 200.7	0.1 mg/L	4/19/23	QC64373	MAT
Iron	0.030 mg/L	EPA 200.7	0.005 mg/L	4/19/23	QC64373	MAT

Dissolved Metals filtered in the field by the customer

Abbreviations/ References:

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TASK NO: 230418115

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230418115

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 4/18/23 Date Reported: 5/22/23

Matrix: Water - Ground

Customer Sample ID Caribou Portal

Sample Date/Time: 4/18/23 11:15 AM

Lab Number: 230418115-07

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Chloride	0.49 mg/L	EPA 300.0	0.10 mg/l	4/19/23	QC64405	AMJ
Cyanide-Free	ND	ASTM D4282-15	0.005 mg/l	4/19/23	QC64370	DPL
Fluoride	ND	EPA 300.0	1.00 mg/l	4/19/23	QC64402	AMJ
Nitrate Nitrogen	ND	EPA 300.0	0.50 mg/l	4/19/23	QC64403	AMJ
Nitrate/ Nitrite Nitrogen	0.08 mg/L	Calculation	0.05 mg/l	4/20/23	-	AMJ
Nitrite Nitrogen	ND	EPA 300.0	0.30 mg/l	4/19/23	QC64404	AMJ
Sulfate	9.71 mg/L	EPA 300.0	0.10 mg/l	4/19/23	QC64406	AMJ
<u>Dissolved</u>						
Mercury	ND	EPA 245.7	0.0002 mg/l	4/20/23	QC64398	MLT
Aluminum	0.001 mg/L	EPA 200.8	0.001 mg/l	4/21/23	QC64413	MBN
Antimony	ND	EPA 200.8	0.0012 mg/l	4/21/23	QC64413	MBN
Arsenic	ND	EPA 200.8	0.0006 mg/l	4/21/23	QC64413	MBN
Barium	0.0588 mg/L	EPA 200.8	0.0007 mg/l	4/21/23	QC64413	MBN
Beryllium	ND	EPA 200.8	0.0001 mg/l	4/21/23	QC64413	MBN
Cadmium	ND	EPA 200.8	0.0001 mg/l	4/21/23	QC64413	MBN
Chromium	ND	EPA 200.8	0.0015 mg/l	4/21/23	QC64413	MBN
Cobalt	ND	EPA 200.8	0.0002 mg/l	4/21/23	QC64413	MBN
Copper	ND	EPA 200.8	0.0008 mg/l	4/21/23	QC64413	MBN
Lead	0.0004 mg/L	EPA 200.8	0.0001 mg/l	4/21/23	QC64413	MBN
Manganese	ND	EPA 200.8	0.0008 mg/l	4/21/23	QC64413	MBN
Molybdenum	0.0065 mg/L	EPA 200.8	0.0005 mg/l	4/21/23	QC64413	MBN
Nickel	ND	EPA 200.8	0.0009 mg/l	4/21/23	QC64413	MBN
Selenium	ND	EPA 200.8	0.0008 mg/l	4/21/23	QC64413	MBN

Abbreviations/ References:

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TASK NO: 230418115

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230418115

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 4/18/23 Date Reported: 5/22/23

Matrix: Water - Ground

Customer Sample ID Caribou Portal

Sample Date/Time: 4/18/23 11:15 AM

Lab Number: 230418115-07

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Dissolved						
Silver	ND	EPA 200.8	0.0005 mg/L	4/21/23	QC64413	MBN
Thallium	ND	EPA 200.8	0.0002 mg/L	4/21/23	QC64413	MBN
Uranium	0.0059 mg/L	EPA 200.8	0.0002 mg/L	4/21/23	QC64413	MBN
Vanadium	ND	EPA 200.8	0.001 mg/L	4/21/23	QC64413	MBN
Zinc	0.006 mg/L	EPA 200.8	0.001 mg/L	4/21/23	QC64413	MBN
Boron	ND	EPA 200.7	0.01 mg/L	4/19/23	QC64373	MAT
Calcium	26.1 mg/L	EPA 200.7	0.1 mg/L	4/19/23	QC64373	MAT
Iron	0.009 mg/L	EPA 200.7	0.005 mg/L	4/19/23	QC64373	MAT

Dissolved Metals filtered in the field by the customer

Abbreviations/ References:

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TASK NO: 230418115

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230418115

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 4/18/23 Date Reported: 5/22/23

Matrix: Water - Ground

Customer Sample ID Caribou 02

Sample Date/Time: 4/18/23 11:15 AM

Lab Number: 230418115-08

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
1001	Roduit	metriou	NL	Date Analyzed	QO Daton ID	Allaryzed by
Chloride	0.47 mg/L	EPA 300.0	0.10 m	· ·	QC64405	AMJ
Cyanide-Free	ND	ASTM D4282-15	0.005 m	ng/L 4/19/23	QC64370	DPL
Fluoride	ND	EPA 300.0	1.00 m	ng/L 4/19/23	QC64402	AMJ
Nitrate Nitrogen	ND	EPA 300.0	0.50 m	ng/L 4/19/23	QC64403	AMJ
Nitrate/ Nitrite Nitrogen	0.07 mg/L	Calculation	0.05 m	ng/L 4/20/23	-	AMJ
Nitrite Nitrogen	ND	EPA 300.0	0.30 m	ng/L 4/19/23	QC64404	AMJ
Sulfate	9.63 mg/L	EPA 300.0	0.10 m	ng/L 4/19/23	QC64406	AMJ
<u>Dissolved</u>						
Mercury	ND	EPA 245.7	0.0002 m	ng/L 4/20/23	QC64398	MLT
Aluminum	0.004 mg/L	EPA 200.8	0.001 m	ng/L 4/21/23	QC64413	MBN
Antimony	ND	EPA 200.8	0.0012 m	ng/L 4/21/23	QC64413	MBN
Arsenic	ND	EPA 200.8	0.0006 m	ng/L 4/21/23	QC64413	MBN
Barium	0.0600 mg/L	EPA 200.8	0.0007 m	ng/L 4/21/23	QC64413	MBN
Beryllium	ND	EPA 200.8	0.0001 m	ng/L 4/21/23	QC64413	MBN
Cadmium	ND	EPA 200.8	0.0001 m	ng/L 4/21/23	QC64413	MBN
Chromium	ND	EPA 200.8	0.0015 m	ng/L 4/21/23	QC64413	MBN
Cobalt	ND	EPA 200.8	0.0002 m	ng/L 4/21/23	QC64413	MBN
Copper	ND	EPA 200.8	0.0008 m	ng/L 4/21/23	QC64413	MBN
Lead	0.0005 mg/L	EPA 200.8	0.0001 m	ng/L 4/21/23	QC64413	MBN
Manganese	ND	EPA 200.8	0.0008 m	ng/L 4/21/23	QC64413	MBN
Molybdenum	0.0066 mg/L	EPA 200.8	0.0005 m	ng/L 4/21/23	QC64413	MBN
Nickel	ND	EPA 200.8	0.0009 m	ng/L 4/21/23	QC64413	MBN
Selenium	ND	EPA 200.8	0.0008 m	-	QC64413	MBN

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed

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TASK NO: 230418115

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230418115

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 4/18/23 Date Reported: 5/22/23

Matrix: Water - Ground

Customer Sample ID Caribou 02

Sample Date/Time: 4/18/23 11:15 AM

Lab Number: 230418115-08

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Dissolved						
Silver	ND	EPA 200.8	0.0005 mg/L	4/21/23	QC64413	MBN
Thallium	ND	EPA 200.8	0.0002 mg/L	4/21/23	QC64413	MBN
Uranium	0.0062 mg/L	EPA 200.8	0.0002 mg/L	4/21/23	QC64413	MBN
Vanadium	ND	EPA 200.8	0.001 mg/L	4/21/23	QC64413	MBN
Zinc	0.006 mg/L	EPA 200.8	0.001 mg/L	4/21/23	QC64413	MBN
Boron	ND	EPA 200.7	0.01 mg/L	4/19/23	QC64373	MAT
Calcium	27.1 mg/L	EPA 200.7	0.1 mg/L	4/19/23	QC64373	MAT
Iron	0.010 mg/L	EPA 200.7	0.005 mg/L	4/19/23	QC64373	MAT

Dissolved Metals filtered in the field by the customer

Abbreviations/ References:

RL = Reporting Limit = Minimum Level
mg/L = Milligrams Per Liter or PPM
ug/L = Micrograms Per Liter or PPB
mpn/100 mls = Most Probable Number Index/ 100 mls
Date Analyzed = Date Test Completed

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(s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable



TASK NO: 230418115

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230418115

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 4/18/23 Date Reported: 5/22/23

Matrix: Water - Ground

Customer Sample ID Caribou 03

Sample Date/Time: 4/18/23 11:15 AM

Lab Number: 230418115-09

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
1031	Nesun	MELITOU	IXL.	Date Allalyzeu	QO Daton ID	Allalyzed by
Chloride	ND	EPA 300.0	0.10 mg	g/L 4/19/23	QC64405	AMJ
Cyanide-Free	ND	ASTM D4282-15	0.005 mg	g/L 4/19/23	QC64370	DPL
Fluoride	ND	EPA 300.0	1.00 mg	g/L 4/19/23	QC64402	AMJ
Nitrate Nitrogen	ND	EPA 300.0	0.50 mg	g/L 4/19/23	QC64403	AMJ
Nitrate/ Nitrite Nitrogen	ND	Calculation	0.05 mg	g/L 4/20/23	-	AMJ
Nitrite Nitrogen	ND	EPA 300.0	0.30 mg	g/L 4/19/23	QC64404	AMJ
Sulfate	ND	EPA 300.0	0.10 mg	g/L 4/19/23	QC64406	AMJ
Dissolved						
Mercury	ND	EPA 245.7	0.0002 mg	g/L 4/20/23	QC64398	MLT
Aluminum	ND	EPA 200.8	0.001 mg	g/L 4/21/23	QC64413	MBN
Antimony	ND	EPA 200.8	0.0012 mg	g/L 4/21/23	QC64413	MBN
Arsenic	ND	EPA 200.8	0.0006 mg	g/L 4/21/23	QC64413	MBN
Barium	ND	EPA 200.8	0.0007 mg	g/L 4/21/23	QC64413	MBN
Beryllium	ND	EPA 200.8	0.0001 mg	g/L 4/21/23	QC64413	MBN
Cadmium	ND	EPA 200.8	0.0001 mg	g/L 4/21/23	QC64413	MBN
Chromium	ND	EPA 200.8	0.0015 mg	g/L 4/21/23	QC64413	MBN
Cobalt	ND	EPA 200.8	0.0002 mg	g/L 4/21/23	QC64413	MBN
Copper	ND	EPA 200.8	0.0008 mg	g/L 4/21/23	QC64413	MBN
Lead	ND	EPA 200.8	0.0001 mg	g/L 4/21/23	QC64413	MBN
Manganese	ND	EPA 200.8	0.0008 mg	g/L 4/21/23	QC64413	MBN
Molybdenum	ND	EPA 200.8	0.0005 mg	g/L 4/21/23	QC64413	MBN
Nickel	ND	EPA 200.8	0.0009 mg	g/L 4/21/23	QC64413	MBN
Selenium	ND	EPA 200.8	0.0008 mg	g/L 4/21/23	QC64413	MBN

Abbreviations/ References:

RL = Reporting Limit = Minimum Level
mg/L = Milligrams Per Liter or PPM
ug/L = Micrograms Per Liter or PPB
mpn/100 mls = Most Probable Number Index/ 100 mls
Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations.
(s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable



TASK NO: 230418115

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230418115

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 4/18/23 Date Reported: 5/22/23

Matrix: Water - Ground

Customer Sample ID Caribou 03

Sample Date/Time: 4/18/23 11:15 AM

Lab Number: 230418115-09

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Dissolved						
Silver	ND	EPA 200.8	0.0005 mg/	4/21/23	QC64413	MBN
Thallium	ND	EPA 200.8	0.0002 mg/	4/21/23	QC64413	MBN
Uranium	ND	EPA 200.8	0.0002 mg/	4/21/23	QC64413	MBN
Vanadium	ND	EPA 200.8	0.001 mg/	4/21/23	QC64413	MBN
Zinc	ND	EPA 200.8	0.001 mg/	4/21/23	QC64413	MBN
Boron	ND	EPA 200.7	0.01 mg/	4/19/23	QC64373	MAT
Calcium	ND	EPA 200.7	0.1 mg/	L 4/19/23	QC64373	MAT
Iron	ND	EPA 200.7	0.005 mg/	4/19/23	QC64373	MAT

Dissolved Metals filtered in the field by the customer

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed

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Analytical QC Summary

TASK NO: 230418115

Report To: Patrick Delaney

Company: Grand Island Resources LLC

Receive Date: 4/18/23

Project Name: Monthly Groundwater

Test	QC Batch ID	QC Type	Result		Method	Prep Date
Chloride	QC64405	Blank	ND	·	EPA 300.0	4/18/23
Cyanide-Free	QC64370	Blank	ND	AS	STM D4282-15	4/19/23
Fluoride	QC64402	Blank	ND		EPA 300.0	4/18/23
Mercury	QC64398	Method Blank	ND		EPA 245.7	4/20/23
Aluminum	QC64413	Method Blank	ND		EPA 200.8	4/18/23
Antimony	QC64413	Method Blank	ND		EPA 200.8	4/18/23
Arsenic	QC64413	Method Blank	ND		EPA 200.8	4/18/23
Barium	QC64413	Method Blank	ND		EPA 200.8	4/18/23
Beryllium	QC64413	Method Blank	ND		EPA 200.8	4/18/23
Cadmium	QC64413	Method Blank	ND		EPA 200.8	4/18/23
Chromium	QC64413	Method Blank	ND		EPA 200.8	4/18/23
Cobalt	QC64413	Method Blank	ND		EPA 200.8	4/18/23
Copper	QC64413	Method Blank	ND		EPA 200.8	4/18/23
Lead	QC64413	Method Blank	ND		EPA 200.8	4/18/23
Manganese	QC64413	Method Blank	ND		EPA 200.8	4/18/23
Molybdenum	QC64413	Method Blank	ND		EPA 200.8	4/18/23
Nickel	QC64413	Method Blank	ND		EPA 200.8	4/18/23
Selenium	QC64413	Method Blank	ND		EPA 200.8	4/18/23
Silver	QC64413	Method Blank	ND		EPA 200.8	4/18/23
Thallium	QC64413	Method Blank	ND		EPA 200.8	4/18/23
Uranium	QC64413	Method Blank	ND		EPA 200.8	4/18/23
Vanadium	QC64413	Method Blank	ND		EPA 200.8	4/18/23
Zinc	QC64413	Method Blank	ND		EPA 200.8	4/18/23
Boron	QC64373	Method Blank	ND		EPA 200.7	4/18/23
Calcium	QC64373	Method Blank	ND		EPA 200.7	4/18/23
Iron	QC64373	Method Blank	ND		EPA 200.7	4/18/23
Nitrate Nitrogen	QC64403	Blank	ND		EPA 300.0	4/18/23
Nitrite Nitrogen	QC64404	Blank	ND		EPA 300.0	4/18/23
Sulfate	QC64406	Blank	ND		EPA 300.0	4/19/23
Test	QC Batch ID	QC Type	Limits	% Rec	RPD	Method
Chloride	QC64405	Duplicate	0 - 20	-	0.0	EPA 300.0
		LCS	90 - 110	101.4	-	
		MS	75 - 125	103.0	-	
Cyanide-Free	QC64370	Duplicate	0 - 20	-	0.0	ASTM D4282-15
		LCS	90 - 110	97.5	-	
		MS	75 - 125	108.5	-	
Fluoride	QC64402	Duplicate	0 - 20	-	0.0	EPA 300.0
		LCS	90 - 110	96.6	-	
		MS	75 - 125	99.5	-	
Mercury	QC64398	Duplicate	0 - 20	-	0.0	EPA 245.7

Abbreviations/ References:

RL = Reporting Limit = Minimum Level
mg/L = Milligrams Per Liter or PPM
ug/L = Micrograms Per Liter or PPB
mpn/100 mls = Most Probable Number Index/ 100 mls
Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations.
 (s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable

Test	QC Batch ID	QC Type	Limits	% Rec	RPD	Method
	<u> </u>	MS	80 - 120	98.0	-	
Aluminum	QC64413	LCS	90 - 110	105.6	-	EPA 200.8
		MS	70 - 130	112.9	-	
		MSD	0 - 10	-	5.3	
Antimony	QC64413	LCS	90 - 110	105.1	-	EPA 200.8
		MS	70 - 130	107.8	-	
		MSD	0 - 10	-	0.9	
Arsenic	QC64413	LCS	90 - 110	103.3	-	EPA 200.8
		MS	70 - 130	87.1	-	
		MSD	0 - 10	-	1.2	
Barium	QC64413	LCS	90 - 110	103.7	-	EPA 200.8
		MS	70 - 130	100.6	-	
		MSD	0 - 10	-	0.6	
Beryllium	QC64413	LCS	90 - 110	103.1	-	EPA 200.8
		MS	70 - 130	104.6	-	
		MSD	0 - 10	-	8.8	
Cadmium	QC64413	LCS	90 - 110	97.4	-	EPA 200.8
		MS	70 - 130	112.7	-	
		MSD	0 - 10	-	4.5	
Chromium	QC64413	LCS	90 - 110	104.8	-	EPA 200.8
		MS	70 - 130	105.3	-	
		MSD	0 - 10	-	2.8	
Cobalt	QC64413	LCS	90 - 110	105.3	-	EPA 200.8
		MS	70 - 130	100.4	-	
		MSD	0 - 10	-	1.0	
Copper	QC64413	LCS	90 - 110	101.4	-	EPA 200.8
		MS	70 - 130	119.5	-	
		MSD	0 - 10	-	2.3	
Lead	QC64413	LCS	90 - 110	100.0	-	EPA 200.8
		MS	70 - 130	97.9	-	
		MSD	0 - 10	-	7.1	
Manganese	QC64413	LCS	90 - 110	106.0	-	EPA 200.8
		MS	70 - 130	95.6	-	
		MSD	0 - 10	-	0.7	
Molybdenum	QC64413	LCS	90 - 110	101.7	-	EPA 200.8
		MS	70 - 130	121.4	-	
		MSD	0 - 10	-	1.3	
Nickel	QC64413	LCS	90 - 110	105.1	-	EPA 200.8
		MS	70 - 130	85.6	-	
		MSD	0 - 10	-	0.1	
Selenium	QC64413	LCS	90 - 110	99.9	-	EPA 200.8
		MS	70 - 130	108.8	-	
		MSD	0 - 10	-	8.8	
Silver	QC64413	LCS	90 - 110	104.8	-	EPA 200.8
		MS	70 - 130	102.3	-	
		MSD	0 - 10	-	1.8	
Thallium	QC64413	LCS	90 - 110	106.5	-	EPA 200.8
		MS	70 - 130	103.0	-	
		MSD	0 - 10	-	9.6	
Uranium	QC64413	LCS	90 - 110	102.3	-	EPA 200.8
		MS	70 - 130	109.3	-	

Abbreviations/ References:

RL = Reporting Limit = Minimum Level
mg/L = Milligrams Per Liter or PPM
ug/L = Micrograms Per Liter or PPB
mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations.

(s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable

Test Test	QC Batch ID	QC Type	Limits	% Rec	RPD	Method
	<u>'</u>	MSD	0 - 10	-	9.4	
Vanadium	QC64413	LCS	90 - 110	102.9	-	EPA 200.8
		MS	70 - 130	109.0	-	
		MSD	0 - 10	-	0.1	
Zinc	QC64413	LCS	90 - 110	106.3	-	EPA 200.8
		MS	70 - 130	101.8	-	
		MSD	0 - 10	-	0.0	
Boron	QC64373	Duplicate	0 - 20	-	0.0	EPA 200.7
		LCS	90 - 110	102.2	-	
		MS	75 - 125	108.0	-	
Calcium	QC64373	Duplicate	0 - 20	-	0.9	EPA 200.7
		LCS	90 - 110	94.1	-	
		MS	75 - 125	97.9	-	
Iron	QC64373	Duplicate	0 - 20	-	0.0	EPA 200.7
		LCS	90 - 110	97.5	-	
		MS	75 - 125	101.3	-	
Nitrate Nitrogen	QC64403	Duplicate	0 - 20	-	0.0	EPA 300.0
		LCS	90 - 110	97.5	-	
		MS	75 - 125	95.1	-	
Nitrite Nitrogen	QC64404	Duplicate	0 - 20	-	0.0	EPA 300.0
		LCS	90 - 110	90.6	-	
		MS	75 - 125	98.2	-	
Sulfate	QC64406	Duplicate	0 - 20	-	0.0	EPA 300.0
		LCS	90 - 110	102.1	-	
		MS	75 - 125	106.1	-	

All analyses were performed in accordance with approved methods under the latest revision to 40 CFR Part 136 unless otherwise identified. Based on my inquiry of the person or persons directly responsible for analyzing the wastewater samples and generating the report (s), the analyses, report, and information submitted are, to the best of my knowledge and belief, true, accurate, and complete.

DATA APPROVED FOR RELEASE BY

RL = Reporting Limit = Minimum Level
mg/L = Milligrams Per Liter or PPM
ug/L = Micrograms Per Liter or PPB
mpn/100 mls = Most Probable Number Index/ 100 mls
Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations.
(s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable

Chain of Custody Form

Report To Information	Bill To Information (If different from report to)	Project Name / Number
Company Name: Grand Island Resources	Company Name:	
Contact Name: Brooke Moran	Contact Name:	
Address: 12567 W. Cedar Rd Ste 251	Address:	Task Number (Lab Use Only)
City Lakewood State CO zip 80228	City State Zip	
Phone: 303-506-1618	Phone:	CAL Task
Email: bmolsonm@g.empor	NEQUI: edu	230418115
Sample Collector: BM		JML
Sample Collector Phone: 303-506-1618	PO No.:	



Commerce City Lab 10411 Heinz Way Commerce City CO 80640

<u>Lakewood Service Center</u> 610 Garrison Street, Unit E Lakewood CO 80215

Phone: 303-659-2313

Sample Collector: B	M ne:303-506-1618	PO No.:			JML				www.coloradolab.com						
									Те	sts Req	uested				
	Sample Matrix (Select Or	ie Only)		<u>\$</u>					_		_ ,	1			
Waste Water 🔲	Soil	Drinking Water	ers	O III	K	B	0	212	1015	00	01 l	4			
Ground Water 🔀	. Sludge 🗌	Dinking water	ntain	One	1		نک		-	11		>			
Surface Water			Col	eck	1	161	114	ea	Z	7/4	02	$ \gamma $			
			No. of Containers	Grab or (Check One Only) Composite	V	M	27	Hhh		VEN I	$\Delta H_{\rm U}$	hatte		[/]	
Date Time	Sam	ple ID	- 1	0 50		, , , ,		7				1001			
4/18/23/13:00	cross well		5	G											
4/18/2313:30	COMPHANCE	WELL	5	6											
1/18/22 13:30	COMPLIANCE		5	6									1-1		
4/8/22/3:30	COMPLIANCE		5	6							1		11	_	+-1
418/23/11:30	CARIBOU WET		5	6				1		1-1	-		++	-	+-1
177			15		+	\vdash	\dashv			++			+-+	-	+-
4/18/23 12:15		TAL	1	6	-	\vdash			-				4		4
4/18/23 11:15	CARIBOU PO	2TAL	5	6	1_		_}			1			+		
4/18/23 11=15	CARIBOU O	2	5	6	<u> </u>										
4/18/2311:15	CARIBOU 0:	3.	5	G											
Instructions: 1	FN03 60H10&P	adionuclide C/S Info:		^					Seals P	resent Yes	□ No □]			
bottle field	FNO3 bottle & P	Deliver Vía	. H	\cup			C/S`C	harge 🗌	Temp	1.3cm	ice V	Sample	Pres. Yes	VI No	
Relinquished By:	Date/Time: Received	By: P Amp Carlo Date/Time: F	Relingu	uished By:		,	D - 4 - 6	T'	- D	. 15		Sample	Date/		20
Religquished By:	14/18/2330	mgf 4/18/23 Page 22	of 22	canin	1	my	4/1	8/23 3	44 Ha	40 ro	う		9/1	0/7	名
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Customer ID: 20040H Account ID: Z01034 Lab Control ID: 23H01750 Received: Apr 21, 2023 Reported: May 19, 2023 Purchase Order No. None Received

Stuart Nielson Colorado Analytical Laboratories, Inc. 10411 Heinz Way Commerce City, CO 80640

ANALYTICAL REPORT

Report may only be copied in its entirety.
Results reported herein relate only to discrete samples submitted by the client. Hazen Research, Inc. does not warrant that the results are representative of anything other than the samples that were received in the laboratory

File: 23H01750 R1.pdf

Roxanne Sullivan
Analytical Laboratories Director

Michelle Stringer for



Lab Control ID: 23H01750

Received: Apr 21, 2023 Reported: May 19, 2023 Purchase Order No. None Received

Customer ID: 20040H Account ID: Z01034

ANALYTICAL REPORT

Stuart Nielson Colorado Analytical Laboratories, Inc.

La	ab Sam	ple ID	23H01750-001								
Customer Sample ID 230418115-01C - Monthly Groundwater - Cross Well											
sampled on 04/18/23 @ 1300											
				Precision*	sion* Detection Analysis						
Parameter	Units	Code	Result	+/-	Limit	Method	Date / Time	Analyst			
Gross Alpha	pCi/L	Т	0.2	0.9	0.1	SM 7110 B	5/10/23 @ 1159	VP			
Gross Beta	pCi/L	Т	<2.8	2.0	2.8	SM 7110 B	5/10/23 @ 1159	VP			

Lab Sample ID 23H01750-002 Customer Sample ID 230418115-02C - Monthly Groundwater - Compliance Well											
sampled on 04/18/23 @ 1330											
				Precision*	Detection	Analysis					
Parameter	Units	Code	Result	+/-	Limit	Method	Date / Time	Analyst			
Gross Alpha	pCi/L	Т	<0.1	0.8	0.1	SM 7110 B	5/10/23 @ 1201	VP			
Gross Beta	pCi/L	Т	<2.7	2.2	2.7	SM 7110 B	5/10/23 @ 1201	VP			

La	Lab Sample ID 23H01750-003							
Custom	ple ID	230418115-0	D3C - Month	ly Groundw	ater - Compliance 02			
sampled on 04/18/23 @ 1330								
				Precision*	Detection		Analysis	
Parameter	Units	Code	Result	+/-	Limit	Method	Date / Time	Analyst
Gross Alpha	pCi/L	T	0.4	0.9	0.1	SM 7110 B	5/10/23 @ 1203	VP
Gross Beta	pCi/L	Т	<2.8	2.0	2.8	SM 7110 B	5/10/23 @ 1203	VP

La	ab Sam	ple ID	23H01750-004					
Customer Sample ID			230418115-0)4C - Month	ly Groundw	ater - Compliance 03		
	sampled on 04/18/23 @ 1330							
				Precision*	Detection		Analysis	
Parameter	Units	Code	Result	+/-	Limit	Method	Date / Time	Analyst
Gross Alpha	pCi/L	Т	0.5	0.8	0.1	SM 7110 B	5/10/23 @ 1205	VP
Gross Beta	pCi/L	Т	<3.0	2.0	3.0	SM 7110 B	5/10/23 @ 1205	VP

La	ab Sam	iple ID	23H01750-005					
Customer Sample ID			230418115-0	5C - Month	ly Groundw	ater - Caribou Well		
	sampled on 04/18/23 @ 1130							
				Precision*	Detection		Analysis	
Parameter	Units	Code	Result	+/-	Limit	Method	Date / Time	Analyst
Gross Alpha	pCi/L	Т	0.2	0.9	0.1	SM 7110 B	5/10/23 @ 1207	VP
Gross Beta	pCi/L	Т	<3.0	2.0	3.0	SM 7110 B	5/10/23 @ 1207	VP

Certification ID's: CO/EPA CO00008

File: 23H01750 R1.pdf

Codes: (T) = Total (D) = Dissolved (S) = Suspended (R) = Replicate Sample (AR) = As Received <math>< = Less Than

^{*}Variability of the radioactive decay process (counting error) at the 95% confidence level, 1.96 sigma.

Lab Control ID: 23H01750

Received: Apr 21, 2023 Reported: May 19, 2023 Purchase Order No. None Received

Customer ID: 20040H Account ID: Z01034

ANALYTICAL REPORT

Stuart Nielson Colorado Analytical Laboratories, Inc.

La	ab Sam	ple ID	23H01750-006					
Customer Sample ID			230418115-0	OC - Month	ly Groundw	ater - Cross Portal		
	sampled on 04/18/23 @ 1215							
				Precision*	Detection		Analysis	
Parameter	Units	Code	Result	+/-	Limit	Method	Date / Time	Analyst
Gross Alpha	pCi/L	Т	1.5	1.4	0.1	SM 7110 B	5/10/23 @ 1209	VP
Gross Beta	pCi/L	Т	<3.0	2.1	3.0	SM 7110 B	5/10/23 @ 1209	VP

	Lab Sample ID 23H01750-007 Customer Sample ID 230418115-07C - Monthly Groundwater - Caribou Portal							
sampled on 04/18/23 @ 1115								
				Precision*	Detection		Analysis	
Parameter	Units	Code	Result	+/-	Limit	Method	Date / Time	Analyst
Gross Alpha	pCi/L	T	3.9	1.9	0.1	SM 7110 B	5/10/23 @ 1211	VP
Gross Beta	pCi/L	Т	4.0	2.4	3.0	SM 7110 B	5/10/23 @ 1211	VP

La	ab Sam	ple ID	23H01750-008					
Customer Sample ID			230418115-0	98C - Month	ly Groundw	ater - Caribou 02		
sampled on 04/18/23 @ 1115								
				Precision*	Detection		Analysis	
Parameter	Units	Code	Result	+/-	Limit	Method	Date / Time	Analyst
Gross Alpha	pCi/L	Т	5.5	2.2	0.1	SM 7110 B	5/10/23 @ 1213	VP
Gross Beta	pCi/L	T	4.1	2.4	2.7	SM 7110 B	5/10/23 @ 1213	VP

La	ab Sam	ple ID	23H01750-009					
Customer Sample ID			230418115-0	9C - Month	ly Groundw	ater - Caribou 03		
sampled on 04/18/23 @ 1115								
				Precision*	Detection		Analysis	
Parameter	Units	Code	Result	+/-	Limit	Method	Date / Time	Analyst
Gross Alpha	pCi/L	Т	<0.1	0.6	0.1	SM 7110 B	5/10/23 @ 1215	VP
Gross Beta	pCi/L	Т	<3.0	2.0	3.0	SM 7110 B	5/10/23 @ 1215	VP

Certification ID's: CO/EPA CO00008

File: 23H01750 R1.pdf

Codes: (T) = Total (D) = Dissolved (S) = Suspended (R) = Replicate Sample (AR) = As Received <math>< = Less Than

An Employee-Owned Company

^{*}Variability of the radioactive decay process (counting error) at the 95% confidence level, 1.96 sigma.

HAZEN RESEARCH, INC. RADIOCHEMISTRY LABORATORY

Batch QC Summary Form

Analyte: Gross Alpha

Control Standard/LFB: ID: C11a-04 pCi/mL: 57.4 (use 1 diluted)

Spike Solution: ID: C11a-04 pCi/mL: 57.4 (use 1 mL)

Spike Recovery Calculation: Sample: Tap*

Calculation: $(46.3) (1.000) - (0.0) (0.200) \times 100 = 81\%$

Date:

05/10/2023

Batch QC Evaluation:

Parameter	Criteria	Pass	Fail	N/A
Control Std./LFB	+/- 30 %	Х		
Spike Recovery	70 - 130 %	Х		
Blank	< or = 3 x Uncertainty	Х		
Duplicate 1	95% confidence interval overlap	Х		
Duplicate 2 *	95% confidence interval overlap	х		

^{*} Required for batch size greater than 10 samples.

(\cdot)	ncli	usio	ne
\sim		JOIG	113

Х	Batch QC Passes**
	Batch QC Fails
	Batch QC Passes, with exceptions**:
	Reruns Required:
	Narrative:

Batch Listing by Lab Control Number:

23H01743		
23H01744		
23H01706		
23H01707		
23H01717		Evaluator:
23H01745		
23H01747		Minhall Hair
23H01750		Michelle Stringer -
23H01466		V
		05/18/2023
	<u> </u>	Date

^{**}All QC data provided in this section of the report met the acceptance criteria specified in the analytical methods and procedures. State Maximum Contamination Levels (MCLs) are not evaluted in this report.

HAZEN RESEARCH, INC. RADIOCHEMISTRY LABORATORY

Batch QC Summary Form

Analyte: Gross Beta

Control Standard/LFB: ID: C11a-04 pCi/mL: 44 (use 1 diluted)

Spike Solution: ID: C11a-04 pCi/mL: 44 (use 1 mL)

Spike Recovery Calculation: Sample: Tap*

Calculation: $(37.3) (1.000) - (0.5) (0.200) \times 100 = 85\%$

Date:

05/10/2023

Batch QC Evaluation:

Parameter	Criteria	Pass	Fail	N/A
Control Std./LFB	+/- 20 %	Х		
Spike Recovery	80 - 120 %	Х		
Blank	< or = 3 x Uncertainty	Х		
Duplicate 1	95% confidence interval overlap	Х		
Duplicate 2 *	95% confidence interval overlap	Х		

^{*} Required for batch size greater than 10 samples.

(\cdot)	ncli	usio	ne
\sim		JOIG	113

Х	Batch QC Passes**
	Batch QC Fails
	Batch QC Passes, with exceptions**:
	Reruns Required:
	Narrative:

Batch Listing by Lab Control Number:

23H01743	
23H01744	
23H01706	
23H01707	
23H01717	 Evaluator:
23H01745	
23H01747	 Mighelle Chair
23H01750	 Michelle Stringer —
23H01466	 V
	 05/18/2023
· <u> </u>	 Date

page 5 of 6

^{**}All QC data provided in this section of the report met the acceptance criteria specified in the analytical methods and procedures. State Maximum Contamination Levels (MCLs) are not evaluted in this report.

23H01750

Ship To: Hazen Research

	Preserved: Y/(N)	
	HNO3 Lot #:	せ
	Date Preserved:	NAN
Bill To Information (If different from report to)	Project Name	5.
	Monthly Groundwater	

∾ ∾ % %

Yes Yes

Submit Data to CDPHE: Compliance Samples:

230418115 CAL TASK

Address:

stuartnielson@coloradolab.com

Commerce City, CO 80640

10411 Heinz Way

Address: E-Mail:

303-659-2313

Phone:

Company Name: Colorado Analytical Laboratory

Report To Information

Stuart Nielson

Report To:

LABORATORIES, INC.

JML

Tests Requested

Gross Alpha

				/Beta (S	
Sample Date/Time	e/Time	Sample ID	Matrix	ub)	Container Type
4/18/23	1:00 PM	1:00 PM 230418115-01C - Cross Well	Water - Ground		1L - Unpreserved
4/18/23	1:30 PM	1:30 PM 230418115-02C - Compliance Well	Water - Ground		1L - Unpreserved
4/18/23	1:30 PM	1:30 PM 230418115-03C - Compliance 02	Water - Ground		1L - Unpreserved
4/18/23		1:30 PM 230418115-04C - Compliance 03	Water - Ground		1L - Unpreserved
4/18/23	11:30 AM	4/18/23 11:30 AM 230418115-05C - Caribou Well	Water - Ground		1L - Unpreserved
4/18/23	12:15 PM	12:15 PM 230418115-06C - Cross Portal	Water - Ground		1L - Unpreserved
4/18/23		11:15 AM 230418115-07C - Caribou Portal	Water - Ground		1L - Unpreserved
4/18/23	1	11:15 AM 230418115-08C - Caribou 02	Water - Ground		1L - Unpreserved
4/18/23	1	11:15 AM 230418115-09C - Caribou 03	Water - Ground		1L - Unpreserved
Comment:		the state of the s			

Received by: (Signature)

4/19/83 Date: Time:

Time: Date:

Relinquished by: (Signature)

Date:

PECEIVED APR 2 1

Page 1 of 1

Relinquished by:

(Signature)

ANALYTICAL SUMMARY REPORT

May 04, 2023

Colorado Analytical Laboratories Inc

PO Box 507

Brighton, CO 80601-0507

Work Order: C23040617 Quote ID: C15681

Trust our People. Trust our Data.

www.energylab.com

Project Name: 230418115; Monthly Groundwater

Energy Laboratories, Inc. Casper WY received the following 9 samples for Colorado Analytical Laboratories Inc on 4/20/2023

for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C23040617-001	230418115-01D - Cross Well	04/18/23 13:00	0 04/20/23	Groundwater	Metals by ICP/ICPMS, Dissolved
C23040617-002	230418115-2D - Compliance Well	04/18/23 13:30	0 04/20/23	Groundwater	Same As Above
C23040617-003	230418115-3D - Compliance 02	04/18/23 13:30	0 04/20/23	Groundwater	Same As Above
C23040617-004	230418115-4D - Compliance 03	04/18/23 13:30	0 04/20/23	Groundwater	Same As Above
C23040617-005	230418115-5D - Caribou Well	04/18/23 11:30	0 04/20/23	Groundwater	Same As Above
C23040617-006	230418115-6D - Cross Portal	04/18/23 12:15	5 04/20/23	Groundwater	Same As Above
C23040617-007	230418115-7D - Caribou Portal	04/18/23 11:15	5 04/20/23	Groundwater	Same As Above
C23040617-008	230418115-8D - Caribou 02	04/18/23 11:15	5 04/20/23	Groundwater	Same As Above
C23040617-009	230418115-9D - Caribou 03	04/18/23 11:15	5 04/20/23	Groundwater	Same As Above

The analyses presented in this report were performed by Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601, unless otherwise noted. Any exceptions or problems with the analyses are noted in the report package. Any issues encountered during sample receipt are documented in the Work Order Receipt Checklist.

The results as reported relate only to the item(s) submitted for testing. This report shall be used or copied only in its entirety. Energy Laboratories, Inc. is not responsible for the consequences arising from the use of a partial report.

If you have any questions regarding these test results, please contact your Project Manager .

Report Approved By:

Billings, MT **800.735.4489** • Casper, WY **888.235.0515** Gillette, WY **866.686.7175** • Helena, MT **877.472.0711**

Report Date: 05/04/23

CLIENT: Colorado Analytical Laboratories Inc
Project: 230418115; Monthly Groundwater

Work Order: C23040617 CASE NARRATIVE

Tests associated with analyst identified as ELI-B were subcontracted to Energy Laboratories, 1120 S. 27th St., Billings, MT, EPA Number MT00005.





Client: Colorado Analytical Laboratories Inc **Project:** 230418115; Monthly Groundwater

Lab ID: C23040617-001

Client Sample ID: 230418115-01D - Cross Well

Report Date: 05/04/23

Collection Date: 04/18/23 13:00

DateReceived: 04/20/23

Matrix: Groundwater

Analyses	Result Units	Qualifiers	RL	MCL/ QCL Method	Analysis Date / By
METALS, DISSOLVED					
Lithium	ND mg/L	L	0.006	E200.8	04/24/23 17:43 / eli-b

Report RL - Analyte Reporting Limit

Definitions: QCL - Quality Control Limit

L - Lowest available reporting limit for the analytical

method used

MCL - Maximum Contaminant Level





LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Colorado Analytical Laboratories Inc Project: 230418115; Monthly Groundwater

Lab ID: C23040617-002

Client Sample ID: 230418115-2D - Compliance Well

Report Date: 05/04/23 Collection Date: 04/18/23 13:30 DateReceived: 04/20/23

Matrix: Groundwater

Analyses	Result Units	Qualifiers	RL	MCL/ QCL Method	Analysis Date / By
METALS, DISSOLVED Lithium	ND mg/L	L	0.006	E200.8	04/24/23 17:47 / eli-b

Report RL - Analyte Reporting Limit Definitions:

QCL - Quality Control Limit

L - Lowest available reporting limit for the analytical

method used

MCL - Maximum Contaminant Level





LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Colorado Analytical Laboratories Inc Project: 230418115; Monthly Groundwater

Lab ID: C23040617-003

Client Sample ID: 230418115-3D - Compliance 02

Report Date: 05/04/23 Collection Date: 04/18/23 13:30

DateReceived: 04/20/23 Matrix: Groundwater

Analyses	Result Units	Qualifiers	RL	MCL/ QCL Method	Analysis Date / By
METALS, DISSOLVED Lithium	ND mg/L	L	0.006	E200.8	04/24/23 17:52 / eli-b

Report RL - Analyte Reporting Limit Definitions:

QCL - Quality Control Limit

L - Lowest available reporting limit for the analytical

method used

MCL - Maximum Contaminant Level





LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Colorado Analytical Laboratories Inc Project: 230418115; Monthly Groundwater

Lab ID: C23040617-004

Client Sample ID: 230418115-4D - Compliance 03

Report Date: 05/04/23

Collection Date: 04/18/23 13:30

DateReceived: 04/20/23

Matrix: Groundwater

Analyses	Result Units	Qualifiers	RL	MCL/ QCL Method	Analysis Date / By
METALS, DISSOLVED					
Lithium	ND mg/L	L	0.006	E200.8	04/24/23 18:11 / eli-b

Report RL - Analyte Reporting Limit

Definitions: QCL - Quality Control Limit

L - Lowest available reporting limit for the analytical

method used

MCL - Maximum Contaminant Level





Client: Colorado Analytical Laboratories Inc Project: 230418115; Monthly Groundwater

Lab ID: C23040617-005

Client Sample ID: 230418115-5D - Caribou Well

Report Date: 05/04/23 Collection Date: 04/18/23 11:30

DateReceived: 04/20/23 Matrix: Groundwater

Analyses	Result Units	Qualifiers	RL	MCL/ QCL Method	Analysis Date / By
METALS, DISSOLVED Lithium	ND mg/L	L	0.006	E200.8	04/24/23 17:57 / eli-b

Report RL - Analyte Reporting Limit Definitions:

QCL - Quality Control Limit

L - Lowest available reporting limit for the analytical

method used

MCL - Maximum Contaminant Level





Client: Colorado Analytical Laboratories Inc Project: 230418115; Monthly Groundwater

Lab ID: C23040617-006

Client Sample ID: 230418115-6D - Cross Portal

Report Date: 05/04/23 Collection Date: 04/18/23 12:15

DateReceived: 04/20/23 Matrix: Groundwater

Analyses	Result Units	Qualifiers	RL	MCL/ QCL Method	Analysis Date / By
METALS, DISSOLVED Lithium	ND mg/L	L	0.006	E200.8	04/24/23 18:01 / eli-b

Report RL - Analyte Reporting Limit Definitions:

QCL - Quality Control Limit

L - Lowest available reporting limit for the analytical

method used

MCL - Maximum Contaminant Level





Client: Colorado Analytical Laboratories Inc Project: 230418115; Monthly Groundwater

Lab ID: C23040617-007

Client Sample ID: 230418115-7D - Caribou Portal

Report Date: 05/04/23 **Collection Date:** 04/18/23 11:15 **DateReceived:** 04/20/23

Matrix: Groundwater

Analyses	Result Units	Qualifiers	RL	MCL/ QCL Method	Analysis Date / By
METALS, DISSOLVED					
Lithium	ND mg/L	L	0.006	E200.8	04/24/23 18:06 / eli-b

Report RL - Analyte Reporting Limit

Definitions: QCL - Quality Control Limit

L - Lowest available reporting limit for the analytical

method used

MCL - Maximum Contaminant Level



Matrix: Groundwater



Prepared by Casper, WY Branch

Client: Colorado Analytical Laboratories Inc Project: 230418115; Monthly Groundwater

Lab ID: C23040617-008

Client Sample ID: 230418115-8D - Caribou 02

Report Date: 05/04/23 **Collection Date:** 04/18/23 11:15

DateReceived: 04/20/23

Analyses	Result Units	Qualifiers	RL	MCL/ QCL Method	Analysis Date / By
METALS, DISSOLVED	ND mg/L		0.006	E200.8	04/24/23 20:19 / eli-b

Report RL - Analyte Reporting Limit

Definitions: QCL - Quality Control Limit

L - Lowest available reporting limit for the analytical

method used

MCL - Maximum Contaminant Level

ND - Not detected at the Reporting Limit (RL)





Prepared by Casper, WY Branch

Client: Colorado Analytical Laboratories Inc **Project:** 230418115; Monthly Groundwater

Lab ID: C23040617-009

Client Sample ID: 230418115-9D - Caribou 03

Report Date: 05/04/23 **Collection Date:** 04/18/23 11:15 **DateReceived:** 04/20/23

Matrix: Groundwater

Analyses	Result Units	Qualifiers	RL	MCL/ QCL Method	Analysis Date / By
METALS, DISSOLVED Lithium	ND mg/L	L	0.006	E200.8	04/24/23 20:24 / eli-b

Report RL - Analyte Reporting Limit

Definitions: QCL - Quality Control Limit

JCL - Quality Control Limit

L - Lowest available reporting limit for the analytical

method used

MCL - Maximum Contaminant Level

ND - Not detected at the Reporting Limit (RL)



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc Work Order: C23040617 Report Date: 04/27/23

Analyte		Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	E200.8							Analytica	l Run: I	CPMS207-B	_230424A
Lab ID:	QCS	Initi	al Calibratio	on Verification Sta	andard					04/24	/23 17:28
Lithium			0.0506	mg/L	0.012	101	90	110			
Lab ID:	CCV	Cor	tinuing Cal	ibration Verification	on Standaı	d				04/24	/23 17:33
Lithium			0.624	mg/L	0.012	100	90	110			
Lab ID:	CCV	Cor	tinuing Cal	ibration Verification	on Standaı	d				04/24	/23 19:41
Lithium			0.626	mg/L	0.012	100	90	110			
Method:	E200.8									Batch:	R400949
Lab ID:	LRB	Met	hod Blank				Run: ICPM	S207-B_230424A	١	04/24	/23 12:05
Lithium			ND	mg/L	0.002						
Lab ID:	LFB	Lab	oratory For	tified Blank			Run: ICPM	S207-B_230424A	١	04/24	/23 12:15
Lithium			2.54	mg/L	0.013	102	85	115			
Lab ID:	C23040617-004AMS	San	nple Matrix	Spike			Run: ICPM	S207-B_230424A	\	04/24	/23 18:16
Lithium			2.60	mg/L	0.10	104	70	130			Е
Lab ID:	C23040617-004AMSI	D San	nple Matrix	Spike Duplicate			Run: ICPM	S207-B_230424A	١	04/24	/23 18:20
Lithium			2.56	mg/L	0.10	102	70	130	1.6	20	Е
Lab ID:	B23041532-004BMS	San	nple Matrix	Spike			Run: ICPM	S207-B_230424A	١	04/24	/23 21:02
Lithium			2.62	mg/L	0.10	104	70	130			E
Lab ID:	B23041532-004BMSI	D San	nple Matrix	Spike Duplicate			Run: ICPM	S207-B_230424A	١	04/24	/23 21:06
Lithium			2.63	mg/L	0.10	104	70	130	0.4	20	E

Work Order Receipt Checklist

Colorado Analytical Laboratories Inc C23040617

Login completed by: Hannah R. Johnson		Date Received: 4/20/2023				
Reviewed by: cjohnson		Rec	eived by: mar			
Reviewed Date: 4/21/2023		Carri	er name: FedEx			
Shipping container/cooler in good condition?	Yes 🗸	No 🗌	Not Present			
Custody seals intact on all shipping container(s)/cooler(s)?	Yes	No 🗌	Not Present 🗹			
Custody seals intact on all sample bottles?	Yes	No 🗌	Not Present 🗹			
Chain of custody present?	Yes ✓	No 🗌				
Chain of custody signed when relinquished and received?	Yes ✓	No 🗌				
Chain of custody agrees with sample labels?	Yes ✓	No 🗌				
Samples in proper container/bottle?	Yes ✓	No 🗌				
Sample containers intact?	Yes ✓	No 🗌				
Sufficient sample volume for indicated test?	Yes ✓	No 🗌				
All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res CI, Sulfite, Ferrous Iron, etc.)	Yes ✓	No 🗌				
Temp Blank received in all shipping container(s)/cooler(s)?	Yes	No 🗹	Not Applicable			
Container/Temp Blank temperature:	4.9°C No Ice					
Containers requiring zero headspace have no headspace or bubble that is <6mm (1/4").	Yes 🗌	No 🗌	No VOA vials submitted V			
Water - pH acceptable upon receipt?	Yes ✓	No 🗌	Not Applicable			

Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

The reference date for Radon analysis is the sample collection date. The reference date for all other Radiochemical analyses is the analysis date. Radiochemical precision results represent a 2-sigma Total Measurement Uncertainty.

Contact and Corrective Action Comments:

None



Ship To: Energy Labs

» o > 0 N Yes Yes Monthly Groundwater Submit Data to CDPHE: Compliance Samples: Project Name 230418115 CAL TASK JMC Sub-Lab Chain of Custody Form Bill To Information (If different from report to) Address: stuartnielson@coloradolab.com Company Name: Colorado Analytical Laboratory LABORATORIES, INC. Stuart Nielson Commerce City, CO 80640 303-659-2313 Report To Information 10411 Heinz Way Report To: Address: Phone: E-Mail:

Tests Requested

Metals (Sub)

Sample Date/Time	Time	Sample ID	Matrix	,	out registro
4/18/23	1:00 PM	1:00 PM 230418115-01D - Cross Well	Water - Ground	×	250 ml Cylinder - HNO3
4/18/23	1:30 PM	1:30 PM 230418115-02D - Compliance Well	Water - Ground		250 ml Cylinder - HNO3
4/18/23	1:30 PM	1:30 PM 230418115-03D - Compliance 02	Water - Ground		250 ml Cylinder - HNO3
4/18/23	1:30 PM	1.30 PM 230418115-04D - Compliance 03	Water - Ground		250 ml Cylinder - HNO3
4/18/23 11	11:30 AM	11:30 AM 230418115-05D - Caribou Well	Water - Ground		250 ml Cylinder - HNO3
4/18/23 12	12:15 PM	12:15 PM 230418115-06D - Cross Portal	Water - Ground		250 ml Cylinder - HNO3
4/18/23 11	11:15 AM	11:15 AM 230418115-07D - Caribou Portal	Water - Ground		250 ml Cylinder - HNO3
4/18/23 11	11:15 AM	11:15 AM 230418115-08D - Caribou 02	Water - Ground	2	250 ml Cylinder - HNO3
4/18/23	11:15 AM	11:15 AM 230418115-09D - Caribou 03	Water - Ground		250 ml Cylinder - HNO3

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by:	
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Time:	
Date:	
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Date:	
4/20/	•
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Date: 4/19	[2
Relinquished by: (Signature)	>

Page 1 of 2

Time:

Date:



Ship To: Energy Labs

Hnalytical	Sub-Lab Chain of Custody Form	Ci.	Most	
LABOHALORIES, INC.		8		
Report To Information	Bill To Information (If different from report to)	Project Name	ne	
Company Name: Colorado Analytical Laboratory Report To: Stuart Nielson		Monthly Groundwater	oundwater	
stuartnielson@coloradolab.com				_
Address:	Address: CAL	CAL TASK Compliance Samples:	amples: Yes No	_
10411 Heinz Way	23	230418115 Submit Data to CDPHE		_
Commerce City, CO 80640	JML			
Phone: <u>303-659-2313</u>				_
				-

		Container Type	
Tests Requested			
	Metals (Sub)		
		Matrix	old filtered
		Sample ID	Comment: 230418115-010 - Bun Dissolved Lithium-Sample was field filtered
		Sample Date/Time	Comment: 2304181

CONTROLL OF THE CONTROL PRODUCT CONTROL WAS HELD HILL FOR	
230418115-02D - Run Dissolved Lithium-Sample was field filtered.	
230418115-03D - Run Dissolved Lithium-Sample was field filtered.	
230418115-04D - Run Dissolved Lithium-Sample was field filtered.	
230418115-05D - Run Dissolved Lithium-Sample was field filtered.	
230418115-06D - Run Dissolved Lithium-Sample was field filtered.	
230418115-07D - Run Dissolved Lithium-Sample was field filtered.	
230418115-08D - Run Dissolved Lithium-Sample was field filtered.	
230418115-09D - Run Dissolved Lithium-Sample was field filtered.	

: Time:	f 2
Date	Page 2 of 2
Received by: (Signature)	
Date: Time:	
Date	
Relinquished by: (Signature)	
Walder Time:	1100
Received by: (Signature)	
Time:	
Date:	
Relinquished by: (Signature)	



TASK NO: 230418115

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230418115

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 4/18/23 Date Reported: 5/22/23

Matrix: Water - Ground

Customer Sample ID Cross Well

Sample Date/Time: 4/18/23 1:00 PM

Lab Number: 230418115-01

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Bicarbonate	62.4 mg/L as CaCO3	SM 2320-B	0.2 mg/L as CaCO3	4/21/23	-	DPL
Calcium as CaCO3	41.9 mg/L	EPA 200.7	0.1 mg/L	4/19/23	-	MAT
Carbonate	ND	SM 2320-B	0.2 mg/L as CaCO3	4/21/23	-	DPL
Hydroxide	ND	SM 2320-B	0.2 mg/L as CaCO3	4/21/23	-	DPL
Langelier Index	-2.40 units	SM 2330-B	units	4/25/23	-	SAN
рН	5.96 units	SM 4500-H-B	0.01 units	4/18/23	-	TAB
Temperature	20 °C	SM 4500-H-B	1 °C	4/18/23	-	TAB
Total Alkalinity	62.4 mg/L as CaCO3	SM 2320-B	4.0 mg/L as CaCO3	4/21/23	QC64455	DPL
Total Dissolved Solids	107 mg/L	SM 2540-C	5 mg/L	4/19/23	QC64347	ISG

Dissolved Metals filtered in the field by the customer

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations.

(s) Spike amount low relative to the sample amount.



TASK NO: 230418115

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230418115

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 4/18/23 Date Reported: 5/22/23

Matrix: Water - Ground

Customer Sample ID Compliance Well

Sample Date/Time: 4/18/23 1:30 PM

Lab Number: 230418115-02

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Bicarbonate	59.7 mg/L as CaCO3	SM 2320-B	0.2 mg/L as CaCO3	4/21/23	-	DPL
Calcium as CaCO3	41.1 mg/L	EPA 200.7	0.1 mg/L	4/19/23	-	MAT
Carbonate	ND	SM 2320-B	0.2 mg/L as CaCO3	4/21/23	-	DPL
Hydroxide	ND	SM 2320-B	0.2 mg/L as CaCO3	4/21/23	-	DPL
Langelier Index	-2.18 units	SM 2330-B	units	4/25/23	-	SAN
рН	6.21 units	SM 4500-H-B	0.01 units	4/18/23	-	TAB
Temperature	20 °C	SM 4500-H-B	1 °C	4/18/23	-	TAB
Total Alkalinity	59.7 mg/L as CaCO3	SM 2320-B	4.0 mg/L as CaCO3	4/21/23	QC64455	DPL
Total Dissolved Solids	115 mg/L	SM 2540-C	5 mg/L	4/19/23	QC64347	ISG

Dissolved Metals filtered in the field by the customer

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations.

(s) Spike amount low relative to the sample amount.



TASK NO: 230418115

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230418115

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 4/18/23 Date Reported: 5/22/23

Matrix: Water - Ground

Customer Sample ID Compliance 02

Sample Date/Time: 4/18/23 1:30 PM

Lab Number: 230418115-03

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Bicarbonate	59.5 mg/L as CaCO3	SM 2320-B	0.2 mg/L as CaCO3	4/21/23	-	DPL
Calcium as CaCO3	39.2 mg/L	EPA 200.7	0.1 mg/L	4/19/23	-	MAT
Carbonate	ND	SM 2320-B	0.2 mg/L as CaCO3	4/21/23	-	DPL
Hydroxide	ND	SM 2320-B	0.2 mg/L as CaCO3	4/21/23	-	DPL
Langelier Index	-2.21 units	SM 2330-B	units	4/25/23	-	SAN
рН	6.20 units	SM 4500-H-B	0.01 units	4/18/23	-	TAB
Temperature	20 °C	SM 4500-H-B	1 °C	4/18/23	-	TAB
Total Alkalinity	59.5 mg/L as CaCO3	SM 2320-B	4.0 mg/L as CaCO3	4/21/23	QC64455	DPL
Total Dissolved Solids	119 mg/L	SM 2540-C	5 mg/L	4/19/23	QC64347	ISG

Dissolved Metals filtered in the field by the customer

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations.

(s) Spike amount low relative to the sample amount.



TASK NO: 230418115

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230418115

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 4/18/23 Date Reported: 5/22/23

Matrix: Water - Ground

Customer Sample ID Compliance 03

Sample Date/Time: 4/18/23 1:30 PM

Lab Number: 230418115-04

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Bicarbonate	4.6 mg/L as CaCO3	SM 2320-B	0.2 mg/L as CaCO3	4/21/23	-	DPL
Calcium as CaCO3	0.1 mg/L	EPA 200.7	0.1 mg/L	4/19/23	-	MAT
Carbonate	ND	SM 2320-B	0.2 mg/L as CaCO3	4/21/23	-	DPL
Hydroxide	ND	SM 2320-B	0.2 mg/L as CaCO3	4/21/23	-	DPL
Langelier Index	-7.01 units	SM 2330-B	units	4/25/23	-	SAN
рН	5.03 units	SM 4500-H-B	0.01 units	4/18/23	-	TAB
Temperature	20 °C	SM 4500-H-B	1 °C	4/18/23	-	TAB
Total Alkalinity	4.6 mg/L as CaCO3	SM 2320-B	4.0 mg/L as CaCO3	4/21/23	QC64455	DPL
Total Dissolved Solids	ND	SM 2540-C	5 mg/L	4/19/23	QC64347	ISG

Dissolved Metals filtered in the field by the customer

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations.

(s) Spike amount low relative to the sample amount.



TASK NO: 230418115

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230418115

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 4/18/23 Date Reported: 5/22/23

Matrix: Water - Ground

Customer Sample ID Caribou Well

Sample Date/Time: 4/18/23 11:30 AM

Lab Number: 230418115-05

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Bicarbonate	18.2 mg/L as CaCO3	SM 2320-B	0.2 mg/L as CaCO3	4/21/23	-	DPL
Calcium as CaCO3	9.0 mg/L	EPA 200.7	0.1 mg/L	4/19/23	-	MAT
Carbonate	ND	SM 2320-B	0.2 mg/L as CaCO3	4/21/23	-	DPL
Hydroxide	ND	SM 2320-B	0.2 mg/L as CaCO3	4/21/23	-	DPL
Langelier Index	-4.02 units	SM 2330-B	units	4/25/23	-	SAN
рН	5.47 units	SM 4500-H-B	0.01 units	4/18/23	-	TAB
Temperature	20 °C	SM 4500-H-B	1 °C	4/18/23	-	TAB
Total Alkalinity	18.2 mg/L as CaCO3	SM 2320-B	4.0 mg/L as CaCO3	4/21/23	QC64455	DPL
Total Dissolved Solids	23 mg/L	SM 2540-C	5 mg/L	4/19/23	QC64347	ISG

Dissolved Metals filtered in the field by the customer

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations.

(s) Spike amount low relative to the sample amount.



TASK NO: 230418115

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230418115

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 4/18/23 Date Reported: 5/22/23

Matrix: Water - Ground

Customer Sample ID Cross Portal

Sample Date/Time: 4/18/23 12:15 PM

Lab Number: 230418115-06

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Bicarbonate	92.8 mg/L as CaCO3	SM 2320-B	0.2 mg/L as CaCO3	4/21/23	-	DPL
Calcium as CaCO3	61.4 mg/L	EPA 200.7	0.1 mg/L	4/19/23	-	MAT
Carbonate	ND	SM 2320-B	0.2 mg/L as CaCO3	4/21/23	-	DPL
Hydroxide	ND	SM 2320-B	0.2 mg/L as CaCO3	4/21/23	-	DPL
Langelier Index	-0.91 units	SM 2330-B	units	4/25/23	-	SAN
рН	7.11 units	SM 4500-H-B	0.01 units	4/18/23	-	TAB
Temperature	20 °C	SM 4500-H-B	1 °C	4/18/23	-	TAB
Total Alkalinity	92.8 mg/L as CaCO3	SM 2320-B	4.0 mg/L as CaCO3	4/21/23	QC64455	DPL
Total Dissolved Solids	133 mg/L	SM 2540-C	5 mg/L	4/19/23	QC64347	ISG

Dissolved Metals filtered in the field by the customer

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations.

(s) Spike amount low relative to the sample amount.



TASK NO: 230418115

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230418115

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 4/18/23 Date Reported: 5/22/23

Matrix: Water - Ground

Customer Sample ID Caribou Portal

Sample Date/Time: 4/18/23 11:15 AM

Lab Number: 230418115-07

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Bicarbonate	116.8 mg/L as CaCO3	SM 2320-B	0.2 mg/L as CaCO3	4/21/23	-	DPL
Calcium as CaCO3	63.8 mg/L	EPA 200.7	0.1 mg/L	4/19/23	-	MAT
Carbonate	ND	SM 2320-B	0.2 mg/L as CaCO3	4/21/23	-	DPL
Hydroxide	ND	SM 2320-B	0.2 mg/L as CaCO3	4/21/23	-	DPL
Langelier Index	-0.26 units	SM 2330-B	units	4/25/23	-	SAN
рН	7.65 units	SM 4500-H-B	0.01 units	4/18/23	-	TAB
Temperature	20 °C	SM 4500-H-B	1 °C	4/18/23	-	TAB
Total Alkalinity	116.8 mg/L as CaCO3	SM 2320-B	4.0 mg/L as CaCO3	4/21/23	QC64455	DPL
Total Dissolved Solids	147 mg/L	SM 2540-C	5 mg/L	4/19/23	QC64347	ISG

Dissolved Metals filtered in the field by the customer

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations.

(s) Spike amount low relative to the sample amount.



TASK NO: 230418115

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230418115

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 4/18/23 Date Reported: 5/22/23

Matrix: Water - Ground

Customer Sample ID Caribou 02

Sample Date/Time: 4/18/23

Lab Number: 230418115-08

11:15 AM

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Bicarbonate	129.4 mg/L as CaCO3	SM 2320-B	0.2 mg/L as CaCO3	4/21/23	-	DPL
Calcium as CaCO3	61.6 mg/L	EPA 200.7	0.1 mg/L	4/19/23	-	MAT
Carbonate	ND	SM 2320-B	0.2 mg/L as CaCO3	4/21/23	-	DPL
Hydroxide	ND	SM 2320-B	0.2 mg/L as CaCO3	4/21/23	-	DPL
Langelier Index	-0.14 units	SM 2330-B	units	4/25/23	-	SAN
рН	7.74 units	SM 4500-H-B	0.01 units	4/18/23	-	TAB
Temperature	20 °C	SM 4500-H-B	1 °C	4/18/23	-	TAB
Total Alkalinity	129.4 mg/L as CaCO3	SM 2320-B	4.0 mg/L as CaCO3	4/21/23	QC64455	DPL
Total Dissolved Solids	152 mg/L	SM 2540-C	5 mg/L	4/19/23	QC64347	ISG

Dissolved Metals filtered in the field by the customer

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations.

(s) Spike amount low relative to the sample amount.



TASK NO: 230418115

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230418115

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 4/18/23

Date Reported: 5/22/23

Matrix: Water - Ground

Customer Sample ID Caribou 03

Sample Date/Time: 4/18/23 11:15 AM

Lab Number: 230418115-09

Test	Result	Method	RL	Date Analyzed	te Analyzed QC Batch ID	
Bicarbonate	ND	SM 2320-B	0.2 mg/L as CaCO3	4/21/23	-	DPL
Calcium as CaCO3	0.2 mg/L	EPA 200.7	0.1 mg/L	4/19/23	-	MAT
Carbonate	ND	SM 2320-B	0.2 mg/L as CaCO3	4/21/23	-	DPL
Hydroxide	ND	SM 2320-B	0.2 mg/L as CaCO3	4/21/23	-	DPL
Langelier Index	-6.34 units	SM 2330-B	units	4/25/23	-	SAN
рН	5.65 units	SM 4500-H-B	0.01 units	4/18/23	-	TAB
Temperature	20 °C	SM 4500-H-B	1 °C	4/18/23	-	TAB
Total Alkalinity	ND	SM 2320-B	4.0 mg/L as CaCO3	4/21/23	QC64455	DPL
Total Dissolved Solids	ND	SM 2540-C	5 mg/L	4/19/23	QC64347	ISG

Dissolved Metals filtered in the field by the customer

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed (d) RPD acceptable due to low duplicate and sample concentrations.

(s) Spike amount low relative to the sample amount.



Analytical QC Summary

TASK NO: 230418115

Report To: Patrick Delaney

Company: Grand Island Resources LLC

Receive Date: 4/18/23

Project Name: Monthly Groundwater

Test	QC Batch ID	QC Type	Result		Method	Prep Date	
Total Alkalinity	QC64455	Blank	ND		SM 2320-B	4/21/23	
Total Dissolved Solids	QC64347	Blank	ND		SM 2540-C		
Test	QC Batch ID	QC Type	Limits	% Rec	RPD	Method	
Total Alkalinity	QC64455	Duplicate	0 - 20	-	1.3	SM 2320-B	
		LCS	90 - 110	97.9	-		
		LCS-2	90 - 110	98.2	-		
Total Dissolved Solids	QC64347	Duplicate	0 - 20	-	10.4	SM 2540-C	
		LCS	85 - 115	104.7	-		

All analyses were performed in accordance with approved methods under the latest revision to 40 CFR Part 136 unless otherwise identified. Based on my inquiry of the person or persons directly responsible for analyzing the wastewater samples and generating the report (s), the analyses, report, and information submitted are, to the best of my knowledge and belief, true, accurate, and complete.

DATA APPROVED FOR RELEASE BY

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed

Chain of Custody Form

Report To Information	Bill To Information (If different from report to)	Project Name / Number
Company Name: Grand Island Resources	Company Name:	
Contact Name: Brooke Moran	Contact Name:	
Address: 12567 W. Cedar Rd Ste 251	Address:	Task Number (Lab Use Only)
City Lakewood State CO zip 80228	City State Zip	
Phone: 303-506-1618	Phone:	CAL Task
Email: bmolsonm@g.empor	NEQUI: edu	230418115
Sample Collector: BM		JML
Sample Collector Phone: 303-506-1618	PO No.:	



Commerce City Lab 10411 Heinz Way Commerce City CO 80640

<u>Lakewood Service Center</u> 610 Garrison Street, Unit E Lakewood CO 80215

Phone: 303-659-2313

Email: bmolso	Email: bmolsonn@g.emportebail: edu					230418115										
Sample Collector: 13/	Λ							IML	j			ww	w.colo	<u>radol</u> e	ıb.con	<u>n</u>
Sample Collector Phone	e:303-506-1618 PO	No.:														
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Date Time	Sample II)	No.	Grab or (Check One Only) Composite	1	ΜŁ	77	Hh	14	TVE	7UN	dy	10th	20		
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APPENDIX A.2 MAY 2023 GROUNDWATER AND EFFLUENT ANALYTICAL RESULTS



TASK NO: 230516111

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230516111

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 5/16/23 Date Reported: 6/29/23

Matrix: Water - Ground

Customer Sample ID Cross Well

Sample Date/Time: 5/16/23 1:00 PM Lab Number: 230516111-01

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
		l .				
Chloride	4.54 mg/L	EPA 300.0	0.10 m	g/L 5/17/23	QC65069	NRP
Cyanide-Free	ND	ASTM D4282-15	0.005 m	g/L 5/17/23	QC65038	DPL
Fluoride	ND	EPA 300.0	1.00 m	g/L 5/17/23	QC65070	NRP
Nitrate Nitrogen	ND	EPA 300.0	0.50 m	g/L 5/17/23	QC65071	NRP
Nitrate/ Nitrite Nitrogen	0.42 mg/L	Calculation	0.05 m	g/L 5/19/23	-	AMJ
Nitrite Nitrogen	ND	EPA 300.0	0.30 m	g/L 5/17/23	QC65072	NRP
Sulfate	8.85 mg/L	EPA 300.0	0.10 m	g/L 5/17/23	QC65073	NRP
<u>Dissolved</u>						
Mercury	ND	EPA 245.7	0.0002 m	g/L 5/23/23	QC65164	MAT
Aluminum	0.008 mg/L	EPA 200.8	0.001 m	g/L 5/17/23	QC65041	MBN
Antimony	ND	EPA 200.8	0.0012 m	g/L 5/17/23	QC65041	MBN
Arsenic	ND	EPA 200.8	0.0006 m	g/L 5/17/23	QC65041	MBN
Barium	0.0282 mg/L	EPA 200.8	0.0007 m	g/L 5/17/23	QC65041	MBN
Beryllium	ND	EPA 200.8	0.0001 m	g/L 5/17/23	QC65041	MBN
Cadmium	0.0002 mg/L	EPA 200.8	0.0001 m	g/L 5/17/23	QC65041	MBN
Chromium	ND	EPA 200.8	0.0015 m	g/L 5/17/23	QC65041	MBN
Cobalt	ND	EPA 200.8	0.0002 m	g/L 5/17/23	QC65041	MBN
Copper	0.0079 mg/L	EPA 200.8	0.0008 m	g/L 5/17/23	QC65041	MBN
Lead	0.0005 mg/L	EPA 200.8	0.0001 m	g/L 5/17/23	QC65041	MBN
Manganese	0.0012 mg/L	EPA 200.8	0.0008 m	g/L 5/17/23	QC65041	MBN
Molybdenum	0.0005 mg/L	EPA 200.8	0.0005 m	g/L 5/17/23	QC65041	MBN
Nickel	ND	EPA 200.8	0.0009 m	g/L 5/17/23	QC65041	MBN
Selenium	ND	EPA 200.8	0.0008 m	g/L 5/17/23	QC65041	MBN

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations. (s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable



TASK NO: 230516111

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230516111

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 5/16/23 Date Reported: 6/29/23

Matrix: Water - Ground

Customer Sample ID Cross Well

Sample Date/Time: 5/16/23 1:00 PM

Lab Number: 230516111-01

Test	Result	Method	RL	Date Analyzed	te Analyzed QC Batch ID	
Dissolved						
Silver	ND	EPA 200.8	0.0005 mg/L	5/17/23	QC65041	MBN
Thallium	ND	EPA 200.8	0.0002 mg/L	5/17/23	QC65041	MBN
Uranium	ND	EPA 200.8	0.0002 mg/L	5/17/23	QC65041	MBN
Vanadium	ND	EPA 200.8	0.001 mg/L	5/17/23	QC65041	MBN
Zinc	1.75 mg/L	EPA 200.8	0.001 mg/L	5/17/23	QC65041	MBN
Boron	ND	EPA 200.7	0.05 mg/L	5/18/23	QC65087	MAT
Calcium	16.4 mg/L	EPA 200.7	0.1 mg/L	5/18/23	QC65087	MAT
Iron	0.006 mg/L	EPA 200.7	0.005 mg/L	5/18/23	QC65087	MAT

Dissolved Metals filtered in the field by the customer

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations. (s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable



TASK NO: 230516111

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230516111

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 5/16/23 Date Reported: 6/29/23

Matrix: Water - Ground

Customer Sample ID Compliance Well

Sample Date/Time: 5/16/23

Lab Number: 230516111-02

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
	Hoodit	momou		Salo / mary 200	23 24101112	a.yzou by
Chloride	0.96 mg/L	EPA 300.0	0.10 mg		QC65069	NRP
Cyanide-Free	ND	ASTM D4282-15	0.005 mg	•	QC65038	DPL
Fluoride	ND	EPA 300.0	1.00 mg	g/L 5/17/23	QC65070	NRP
Nitrate Nitrogen	ND	EPA 300.0	0.50 mg	g/L 5/17/23	QC65071	NRP
Nitrate/ Nitrite Nitrogen	0.32 mg/L	Calculation	0.05 mg	g/L 5/19/23	-	AMJ
Nitrite Nitrogen	ND	EPA 300.0	0.30 mg	g/L 5/17/23	QC65072	NRP
Sulfate	4.86 mg/L	EPA 300.0	0.10 mg	g/L 5/17/23	QC65073	NRP
<u>Dissolved</u>						
Mercury	ND	EPA 245.7	0.0002 mg	g/L 5/23/23	QC65164	MAT
Aluminum	0.115 mg/L	EPA 200.8	0.001 mg	g/L 5/17/23	QC65041	MBN
Antimony	ND	EPA 200.8	0.0012 mg	g/L 5/17/23	QC65041	MBN
Arsenic	ND	EPA 200.8	0.0006 mg	g/L 5/17/23	QC65041	MBN
Barium	0.0299 mg/L	EPA 200.8	0.0007 mg	g/L 5/17/23	QC65041	MBN
Beryllium	ND	EPA 200.8	0.0001 mg	g/L 5/17/23	QC65041	MBN
Cadmium	ND	EPA 200.8	0.0001 mg	g/L 5/17/23	QC65041	MBN
Chromium	ND	EPA 200.8	0.0015 mg	g/L 5/17/23	QC65041	MBN
Cobalt	ND	EPA 200.8	0.0002 mg	g/L 5/17/23	QC65041	MBN
Copper	ND	EPA 200.8	0.0008 mg	g/L 5/17/23	QC65041	MBN
Lead	0.0003 mg/L	EPA 200.8	0.0001 mg	g/L 5/17/23	QC65041	MBN
Manganese	0.0079 mg/L	EPA 200.8	0.0008 mg	g/L 5/17/23	QC65041	MBN
Molybdenum	0.0034 mg/L	EPA 200.8	0.0005 mg	g/L 5/17/23	QC65041	MBN
Nickel	ND	EPA 200.8	0.0009 mg	g/L 5/17/23	QC65041	MBN
Selenium	ND	EPA 200.8	0.0008 mg	g/L 5/17/23	QC65041	MBN

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations. (s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable



TASK NO: 230516111

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230516111

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 5/16/23 Date Reported: 6/29/23

Matrix: Water - Ground

Customer Sample ID Compliance Well

Sample Date/Time: 5/16/23

Lab Number: 230516111-02

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
<u>Dissolved</u>						
Silver	ND	EPA 200.8	0.0005 mg/L	5/17/23	QC65041	MBN
Thallium	ND	EPA 200.8	0.0002 mg/L	5/17/23	QC65041	MBN
Uranium	ND	EPA 200.8	0.0002 mg/L	5/17/23	QC65041	MBN
Vanadium	ND	EPA 200.8	0.001 mg/L	5/17/23	QC65041	MBN
Zinc	0.086 mg/L	EPA 200.8	0.001 mg/L	5/17/23	QC65041	MBN
Boron	ND	EPA 200.7	0.05 mg/L	5/18/23	QC65087	MAT
Calcium	10.1 mg/L	EPA 200.7	0.1 mg/L	5/18/23	QC65087	MAT
Iron	0.046 mg/L	EPA 200.7	0.005 mg/L	5/18/23	QC65087	MAT

Dissolved Metals filtered in the field by the customer

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations. (s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable



TASK NO: 230516111

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230516111

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 5/16/23 Date Reported: 6/29/23

Matrix: Water - Ground

Customer Sample ID Compliance 02

Sample Date/Time: 5/16/23 1:30 PM

Lab Number: 230516111-03

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Chloride	0.83 mg/L	EPA 300.0	0.10 mg/L	5/17/23	QC65069	NRP
Cyanide-Free	ND	ASTM D4282-15	0.005 mg/L	5/17/23	QC65038	DPL
Fluoride	ND	EPA 300.0	1.00 mg/L	5/17/23	QC65070	NRP
Nitrate Nitrogen	ND	EPA 300.0	0.50 mg/L	5/17/23	QC65071	NRP
Nitrate/ Nitrite Nitrogen	0.30 mg/L	Calculation	0.05 mg/L	5/19/23	-	AMJ
Nitrite Nitrogen	ND	EPA 300.0	0.30 mg/L	5/17/23	QC65072	NRP
Sulfate	4.79 mg/L	EPA 300.0	0.10 mg/L	5/17/23	QC65073	NRP
<u>Dissolved</u>						
Mercury	ND	EPA 245.7	0.0002 mg/L	5/23/23	QC65164	MAT
Aluminum	0.090 mg/L	EPA 200.8	0.001 mg/L	5/17/23	QC65041	MBN
Antimony	ND	EPA 200.8	0.0012 mg/L	5/17/23	QC65041	MBN
Arsenic	ND	EPA 200.8	0.0006 mg/L	5/17/23	QC65041	MBN
Barium	0.0291 mg/L	EPA 200.8	0.0007 mg/L	5/17/23	QC65041	MBN
Beryllium	ND	EPA 200.8	0.0001 mg/L	5/17/23	QC65041	MBN
Cadmium	ND	EPA 200.8	0.0001 mg/L	5/17/23	QC65041	MBN
Chromium	ND	EPA 200.8	0.0015 mg/L	5/17/23	QC65041	MBN
Cobalt	ND	EPA 200.8	0.0002 mg/L	5/17/23	QC65041	MBN
Copper	ND	EPA 200.8	0.0008 mg/L	5/17/23	QC65041	MBN
Lead	0.0003 mg/L	EPA 200.8	0.0001 mg/L	5/17/23	QC65041	MBN
Manganese	0.0077 mg/L	EPA 200.8	0.0008 mg/L	5/17/23	QC65041	MBN
Molybdenum	0.0036 mg/L	EPA 200.8	0.0005 mg/L	5/17/23	QC65041	MBN
Nickel	ND	EPA 200.8	0.0009 mg/L	5/17/23	QC65041	MBN
Selenium	ND	EPA 200.8	0.0008 mg/L	5/17/23	QC65041	MBN

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations. (s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable



TASK NO: 230516111

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230516111

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 5/16/23

Date Reported: 6/29/23

Matrix: Water - Ground

Customer Sample ID Compliance 02

Sample Date/Time: 5/16/23 1:30 PM

Lab Number: 230516111-03

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Dissolved						
Silver	ND	EPA 200.8	0.0005 mg/L	5/17/23	QC65041	MBN
Thallium	ND	EPA 200.8	0.0002 mg/L	5/17/23	QC65041	MBN
Uranium	ND	EPA 200.8	0.0002 mg/L	5/17/23	QC65041	MBN
Vanadium	ND	EPA 200.8	0.001 mg/L	5/17/23	QC65041	MBN
Zinc	0.087 mg/L	EPA 200.8	0.001 mg/L	5/17/23	QC65041	MBN
Boron	ND	EPA 200.7	0.05 mg/L	5/18/23	QC65087	MAT
Calcium	9.8 mg/L	EPA 200.7	0.1 mg/L	5/18/23	QC65087	MAT
Iron	0.040 mg/L	EPA 200.7	0.005 mg/L	5/18/23	QC65087	MAT

Dissolved Metals filtered in the field by the customer

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations. (s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable



TASK NO: 230516111

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230516111

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 5/16/23 **Date Reported:** 6/29/23

Matrix: Water - Ground

Customer Sample ID Compliance 03

Sample Date/Time: 5/16/23 1:30 PM

Lab Number: 230516111-04

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Chloride	ND	EPA 300.0	0.10 m	ng/L 5/17/23	QC65069	NRP
Cyanide-Free	ND	ASTM D4282-15	0.005 m	ng/L 5/17/23	QC65038	DPL
Fluoride	ND	EPA 300.0	1.00 m	ng/L 5/17/23	QC65070	NRP
Nitrate Nitrogen	ND	EPA 300.0	0.50 m	ng/L 5/17/23	QC65071	NRP
Nitrate/ Nitrite Nitrogen	ND	Calculation	0.05 m	ng/L 5/19/23	-	AMJ
Nitrite Nitrogen	ND	EPA 300.0	0.30 m	ng/L 5/17/23	QC65072	NRP
Sulfate	ND	EPA 300.0	0.10 m	ng/L 5/17/23	QC65073	NRP
<u>Dissolved</u>						
Mercury	ND	EPA 245.7	0.0002 m	ng/L 5/23/23	QC65164	MAT
Aluminum	ND	EPA 200.8	0.001 m	ng/L 5/17/23	QC65041	MBN
Antimony	ND	EPA 200.8	0.0012 m	ng/L 5/17/23	QC65041	MBN
Arsenic	ND	EPA 200.8	0.0006 m	ng/L 5/17/23	QC65041	MBN
Barium	ND	EPA 200.8	0.0007 m	ng/L 5/17/23	QC65041	MBN
Beryllium	ND	EPA 200.8	0.0001 m	ng/L 5/17/23	QC65041	MBN
Cadmium	ND	EPA 200.8	0.0001 m	ng/L 5/17/23	QC65041	MBN
Chromium	ND	EPA 200.8	0.0015 m	ng/L 5/17/23	QC65041	MBN
Cobalt	ND	EPA 200.8	0.0002 m	ng/L 5/17/23	QC65041	MBN
Copper	ND	EPA 200.8	0.0008 m	ng/L 5/17/23	QC65041	MBN
Lead	ND	EPA 200.8	0.0001 m	ng/L 5/17/23	QC65041	MBN
Manganese	ND	EPA 200.8	0.0008 m	ng/L 5/17/23	QC65041	MBN
Molybdenum	ND	EPA 200.8	0.0005 m	ng/L 5/17/23	QC65041	MBN
Nickel	ND	EPA 200.8	0.0009 m	ng/L 5/17/23	QC65041	MBN
Selenium	ND	EPA 200.8	0.0008 m	ng/L 5/17/23	QC65041	MBN

Abbreviations/ References:

RL = Reporting Limit = Minimum Level
mg/L = Milligrams Per Liter or PPM
ug/L = Micrograms Per Liter or PPB
mpn/100 mls = Most Probable Number Index/ 100 mls
Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations.
(s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable



TASK NO: 230516111

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230516111

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 5/16/23

Date Reported: 6/29/23

Matrix: Water - Ground

Customer Sample ID Compliance 03

Sample Date/Time: 5/16/23 1:30 PM

Lab Number: 230516111-04

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Dissolved						
Silver	ND	EPA 200.8	0.0005 mg/L	5/17/23	QC65041	MBN
Thallium	ND	EPA 200.8	0.0002 mg/L	5/17/23	QC65041	MBN
Uranium	ND	EPA 200.8	0.0002 mg/L	5/17/23	QC65041	MBN
Vanadium	ND	EPA 200.8	0.001 mg/L	5/17/23	QC65041	MBN
Zinc	ND	EPA 200.8	0.001 mg/L	5/17/23	QC65041	MBN
Boron	ND	EPA 200.7	0.05 mg/L	5/18/23	QC65087	MAT
Calcium	ND	EPA 200.7	0.1 mg/L	5/18/23	QC65087	MAT
Iron	ND	EPA 200.7	0.005 mg/L	5/18/23	QC65087	MAT

Dissolved Metals filtered in the field by the customer

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations. (s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable



TASK NO: 230516111

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230516111

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 5/16/23 Date Reported: 6/29/23

Matrix: Water - Ground

Customer Sample ID Caribou Well

Sample Date/Time: 5/16/23 11:30 AM

Lab Number: 230516111-05

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Chloride	0.52 mg/L	EPA 300.0	0.10 mg/L	5/17/23	QC65069	NRP
Cyanide-Free	ND	ASTM D4282-15	0.005 mg/L	5/17/23	QC65038	DPL
Fluoride	ND	EPA 300.0	1.00 mg/L	5/17/23	QC65070	NRP
Nitrate Nitrogen	ND	EPA 300.0	0.50 mg/L	5/17/23	QC65071	NRP
Nitrate/ Nitrite Nitrogen	0.12 mg/L	Calculation	0.05 mg/L	5/19/23	-	AMJ
Nitrite Nitrogen	ND	EPA 300.0	0.30 mg/L	5/17/23	QC65072	NRP
Sulfate	2.72 mg/L	EPA 300.0	0.10 mg/L	5/17/23	QC65073	NRP
<u>Dissolved</u>						
Mercury	ND	EPA 245.7	0.0002 mg/L	5/23/23	QC65164	MAT
Aluminum	0.093 mg/L	EPA 200.8	0.001 mg/L	5/17/23	QC65041	MBN
Antimony	ND	EPA 200.8	0.0012 mg/L	5/17/23	QC65041	MBN
Arsenic	ND	EPA 200.8	0.0006 mg/L	. 5/17/23	QC65041	MBN
Barium	0.0068 mg/L	EPA 200.8	0.0007 mg/L	. 5/17/23	QC65041	MBN
Beryllium	ND	EPA 200.8	0.0001 mg/L	. 5/17/23	QC65041	MBN
Cadmium	ND	EPA 200.8	0.0001 mg/L	. 5/17/23	QC65041	MBN
Chromium	ND	EPA 200.8	0.0015 mg/L	. 5/17/23	QC65041	MBN
Cobalt	ND	EPA 200.8	0.0002 mg/L	. 5/17/23	QC65041	MBN
Copper	0.1118 mg/L	EPA 200.8	0.0008 mg/L	. 5/17/23	QC65041	MBN
Lead	0.0005 mg/L	EPA 200.8	0.0001 mg/L	. 5/17/23	QC65041	MBN
Manganese	0.0016 mg/L	EPA 200.8	0.0008 mg/L	. 5/17/23	QC65041	MBN
Molybdenum	ND	EPA 200.8	0.0005 mg/L	. 5/17/23	QC65041	MBN
Nickel	ND	EPA 200.8	0.0009 mg/L	. 5/17/23	QC65041	MBN
Selenium	ND	EPA 200.8	0.0008 mg/L	5/17/23	QC65041	MBN

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations. (s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable



TASK NO: 230516111

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230516111

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 5/16/23 Date Reported: 6/29/23

Matrix: Water - Ground

Customer Sample ID Caribou Well

Sample Date/Time: 5/16/23 11:30 AM

Lab Number: 230516111-05

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Dissolved						
Silver	ND	EPA 200.8	0.0005 mg/L	5/17/23	QC65041	MBN
Thallium	ND	EPA 200.8	0.0002 mg/L	5/17/23	QC65041	MBN
Uranium	ND	EPA 200.8	0.0002 mg/L	5/17/23	QC65041	MBN
Vanadium	ND	EPA 200.8	0.001 mg/L	5/17/23	QC65041	MBN
Zinc	0.008 mg/L	EPA 200.8	0.001 mg/L	5/17/23	QC65041	MBN
Boron	ND	EPA 200.7	0.05 mg/L	5/18/23	QC65087	MAT
Calcium	3.8 mg/L	EPA 200.7	0.1 mg/L	5/18/23	QC65087	MAT
Iron	0.045 mg/L	EPA 200.7	0.005 mg/L	5/18/23	QC65087	MAT

Dissolved Metals filtered in the field by the customer

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations. (s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable



TASK NO: 230516111

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230516111

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 5/16/23 **Date Reported:** 6/29/23

Matrix: Water - Ground

Customer Sample ID Cross Portal

Sample Date/Time: 5/16/23 12:15 PM

Lab Number: 230516111-06

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Chloride	0.86 mg/L	EPA 300.0	0.10 mg/l	5/17/23	QC65069	NRP
Cyanide-Free	ND	ASTM D4282-15	0.005 mg/l	5/17/23	QC65038	DPL
Fluoride	ND	EPA 300.0	1.00 mg/l	5/17/23	QC65070	NRP
Nitrate Nitrogen	ND	EPA 300.0	0.50 mg/l	5/17/23	QC65071	NRP
Nitrate/ Nitrite Nitrogen	0.21 mg/L	Calculation	0.05 mg/l	5/19/23	-	AMJ
Nitrite Nitrogen	ND	EPA 300.0	0.30 mg/l	5/17/23	QC65072	NRP
Sulfate	11.98 mg/L	EPA 300.0	0.10 mg/l	5/17/23	QC65073	NRP
<u>Dissolved</u>						
Mercury	ND	EPA 245.7	0.0002 mg/l	5/23/23	QC65164	MAT
Aluminum	0.037 mg/L	EPA 200.8	0.001 mg/l	5/17/23	QC65041	MBN
Antimony	ND	EPA 200.8	0.0012 mg/l	5/17/23	QC65041	MBN
Arsenic	ND	EPA 200.8	0.0006 mg/l	5/17/23	QC65041	MBN
Barium	0.0504 mg/L	EPA 200.8	0.0007 mg/l	5/17/23	QC65041	MBN
Beryllium	ND	EPA 200.8	0.0001 mg/l	5/17/23	QC65041	MBN
Cadmium	0.0009 mg/L	EPA 200.8	0.0001 mg/l	5/17/23	QC65041	MBN
Chromium	ND	EPA 200.8	0.0015 mg/l	5/17/23	QC65041	MBN
Cobalt	ND	EPA 200.8	0.0002 mg/l	5/17/23	QC65041	MBN
Copper	0.0021 mg/L	EPA 200.8	0.0008 mg/l	5/17/23	QC65041	MBN
Lead	0.0021 mg/L	EPA 200.8	0.0001 mg/l	5/17/23	QC65041	MBN
Manganese	0.0113 mg/L	EPA 200.8	0.0008 mg/l	5/17/23	QC65041	MBN
Molybdenum	0.0033 mg/L	EPA 200.8	0.0005 mg/l	5/17/23	QC65041	MBN
Nickel	ND	EPA 200.8	0.0009 mg/l	5/17/23	QC65041	MBN
Selenium	ND	EPA 200.8	0.0008 mg/l	5/17/23	QC65041	MBN

Abbreviations/ References:

RL = Reporting Limit = Minimum Level
mg/L = Milligrams Per Liter or PPM
ug/L = Micrograms Per Liter or PPB
mpn/100 mls = Most Probable Number Index/ 100 mls
Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations.
(s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable



TASK NO: 230516111

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230516111

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 5/16/23 Date Reported: 6/29/23

Matrix: Water - Ground

Customer Sample ID Cross Portal

Sample Date/Time: 5/16/23 12:15 PM

Lab Number: 230516111-06

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Dissolved						
Silver	ND	EPA 200.8	0.0005 mg/L	5/17/23	QC65041	MBN
Thallium	ND	EPA 200.8	0.0002 mg/L	5/17/23	QC65041	MBN
Uranium	0.0004 mg/L	EPA 200.8	0.0002 mg/L	5/17/23	QC65041	MBN
Vanadium	ND	EPA 200.8	0.001 mg/L	5/17/23	QC65041	MBN
Zinc	0.179 mg/L	EPA 200.8	0.001 mg/L	5/17/23	QC65041	MBN
Boron	ND	EPA 200.7	0.05 mg/L	5/18/23	QC65087	MAT
Calcium	18.7 mg/L	EPA 200.7	0.1 mg/L	5/18/23	QC65087	MAT
Iron	0.026 mg/L	EPA 200.7	0.005 mg/L	5/18/23	QC65087	MAT

Dissolved Metals filtered in the field by the customer

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations. (s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable



TASK NO: 230516111

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230516111

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 5/16/23 **Date Reported:** 6/29/23

Matrix: Water - Ground

Customer Sample ID Caribou Portal

Sample Date/Time: 5/16/23 11:15 AM

Lab Number: 230516111-07

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
		·				
Chloride	0.30 mg/L	EPA 300.0	0.10 mg/L	. 5/17/23	QC65069	NRP
Cyanide-Free	ND	ASTM D4282-15	0.005 mg/L	5/17/23	QC65038	DPL
Fluoride	ND	EPA 300.0	1.00 mg/L	5/17/23	QC65070	NRP
Nitrate Nitrogen	ND	EPA 300.0	0.50 mg/L	5/17/23	QC65071	NRP
Nitrate/ Nitrite Nitrogen	0.29 mg/L	Calculation	0.05 mg/L	5/19/23	-	AMJ
Nitrite Nitrogen	ND	EPA 300.0	0.30 mg/L	5/17/23	QC65072	NRP
Sulfate	1.44 mg/L	EPA 300.0	0.10 mg/L	5/17/23	QC65073	NRP
Dissolved						
Mercury	ND	EPA 245.7	0.0002 mg/L	5/23/23	QC65164	MAT
Aluminum	0.239 mg/L	EPA 200.8	0.001 mg/L	5/17/23	QC65041	MBN
Antimony	ND	EPA 200.8	0.0012 mg/L	5/17/23	QC65041	MBN
Arsenic	ND	EPA 200.8	0.0006 mg/L	5/17/23	QC65041	MBN
Barium	0.0055 mg/L	EPA 200.8	0.0007 mg/L	5/17/23	QC65041	MBN
Beryllium	ND	EPA 200.8	0.0001 mg/L	5/17/23	QC65041	MBN
Cadmium	ND	EPA 200.8	0.0001 mg/L	5/17/23	QC65041	MBN
Chromium	ND	EPA 200.8	0.0015 mg/L	5/17/23	QC65041	MBN
Cobalt	ND	EPA 200.8	0.0002 mg/L	5/17/23	QC65041	MBN
Copper	0.0012 mg/L	EPA 200.8	0.0008 mg/L	5/17/23	QC65041	MBN
Lead	0.0010 mg/L	EPA 200.8	0.0001 mg/L	5/17/23	QC65041	MBN
Manganese	0.0023 mg/L	EPA 200.8	0.0008 mg/L	5/17/23	QC65041	MBN
Molybdenum	ND	EPA 200.8	0.0005 mg/L	5/17/23	QC65041	MBN
Nickel	ND	EPA 200.8	0.0009 mg/L	5/17/23	QC65041	MBN
Selenium	ND	EPA 200.8	0.0008 mg/L	5/17/23	QC65041	MBN

Abbreviations/ References:

RL = Reporting Limit = Minimum Level
mg/L = Milligrams Per Liter or PPM
ug/L = Micrograms Per Liter or PPB
mpn/100 mls = Most Probable Number Index/ 100 mls
Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations.
(s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable



TASK NO: 230516111

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230516111

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 5/16/23 Date Reported: 6/29/23

Matrix: Water - Ground

Customer Sample ID Caribou Portal

Sample Date/Time: 5/16/23 11:15 AM

Lab Number: 230516111-07

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Dissolved						
Silver	ND	EPA 200.8	0.0005 mg/L	5/17/23	QC65041	MBN
Thallium	ND	EPA 200.8	0.0002 mg/L	5/17/23	QC65041	MBN
Uranium	ND	EPA 200.8	0.0002 mg/L	5/17/23	QC65041	MBN
Vanadium	ND	EPA 200.8	0.001 mg/L	5/17/23	QC65041	MBN
Zinc	0.014 mg/L	EPA 200.8	0.001 mg/L	5/17/23	QC65041	MBN
Boron	ND	EPA 200.7	0.05 mg/L	5/18/23	QC65087	MAT
Calcium	3.0 mg/L	EPA 200.7	0.1 mg/L	5/18/23	QC65087	MAT
Iron	0.087 mg/L	EPA 200.7	0.005 mg/L	5/18/23	QC65087	MAT

Dissolved Metals filtered in the field by the customer

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations. (s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable



TASK NO: 230516111

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230516111

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 5/16/23 **Date Reported:** 6/29/23

Matrix: Water - Ground

Customer Sample ID Caribou 02

Sample Date/Time: 5/16/23 11:15 AM

Lab Number: 230516111-08

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Chloride	0.34 mg/L	EPA 300.0	0.10 mg/l	5/17/23	QC65069	NRP
Cyanide-Free	ND	ASTM D4282-15	0.005 mg/l	5/17/23	QC65038	DPL
Fluoride	ND	EPA 300.0	1.00 mg/l	5/17/23	QC65070	NRP
Nitrate Nitrogen	ND	EPA 300.0	0.50 mg/l	5/17/23	QC65071	NRP
Nitrate/ Nitrite Nitrogen	0.45 mg/L	Calculation	0.05 mg/l	5/19/23	-	AMJ
Nitrite Nitrogen	ND	EPA 300.0	0.30 mg/l	5/17/23	QC65072	NRP
Sulfate	1.46 mg/L	EPA 300.0	0.10 mg/l	5/17/23	QC65073	NRP
Dissolved						
Mercury	ND	EPA 245.7	0.0002 mg/l	5/23/23	QC65164	MAT
Aluminum	0.318 mg/L	EPA 200.8	0.001 mg/l	5/17/23	QC65041	MBN
Antimony	ND	EPA 200.8	0.0012 mg/l	5/17/23	QC65041	MBN
Arsenic	ND	EPA 200.8	0.0006 mg/l	5/17/23	QC65041	MBN
Barium	0.0059 mg/L	EPA 200.8	0.0007 mg/l	5/17/23	QC65041	MBN
Beryllium	ND	EPA 200.8	0.0001 mg/l	5/17/23	QC65041	MBN
Cadmium	ND	EPA 200.8	0.0001 mg/l	5/17/23	QC65041	MBN
Chromium	ND	EPA 200.8	0.0015 mg/l	5/17/23	QC65041	MBN
Cobalt	ND	EPA 200.8	0.0002 mg/l	5/17/23	QC65041	MBN
Copper	0.0014 mg/L	EPA 200.8	0.0008 mg/l	5/17/23	QC65041	MBN
Lead	0.0012 mg/L	EPA 200.8	0.0001 mg/l	5/17/23	QC65041	MBN
Manganese	0.0030 mg/L	EPA 200.8	0.0008 mg/l	5/17/23	QC65041	MBN
Molybdenum	ND	EPA 200.8	0.0005 mg/l	5/17/23	QC65041	MBN
Nickel	ND	EPA 200.8	0.0009 mg/l	5/17/23	QC65041	MBN
Selenium	ND	EPA 200.8	0.0008 mg/l	5/17/23	QC65041	MBN

Abbreviations/ References:

RL = Reporting Limit = Minimum Level
mg/L = Milligrams Per Liter or PPM
ug/L = Micrograms Per Liter or PPB
mpn/100 mls = Most Probable Number Index/ 100 mls
Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations.
(s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable



TASK NO: 230516111

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230516111

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 5/16/23 Date Reported: 6/29/23

Matrix: Water - Ground

Customer Sample ID Caribou 02

Sample Date/Time: 5/16/23 11:15 AM

Lab Number: 230516111-08

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Dissolved						
Silver	ND	EPA 200.8	0.0005 mg/L	5/17/23	QC65041	MBN
Thallium	ND	EPA 200.8	0.0002 mg/L	5/17/23	QC65041	MBN
Uranium	ND	EPA 200.8	0.0002 mg/L	5/17/23	QC65041	MBN
Vanadium	ND	EPA 200.8	0.001 mg/L	5/17/23	QC65041	MBN
Zinc	0.021 mg/L	EPA 200.8	0.001 mg/L	5/17/23	QC65041	MBN
Boron	ND	EPA 200.7	0.05 mg/L	5/18/23	QC65087	MAT
Calcium	3.1 mg/L	EPA 200.7	0.1 mg/L	5/18/23	QC65087	MAT
Iron	0.099 mg/L	EPA 200.7	0.005 mg/L	5/18/23	QC65087	MAT

Dissolved Metals filtered in the field by the customer

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations. (s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable



TASK NO: 230516111

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230516111

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 5/16/23 Date Reported: 6/29/23

Matrix: Water - Ground

Customer Sample ID Caribou 03

Sample Date/Time: 5/16/23 11:15 AM

Lab Number: 230516111-09

Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
ND	EPA 300.0	0.10 mg	g/L 5/17/23	QC65069	NRP
ND	ASTM D4282-15	0.005 mg	g/L 5/17/23	QC65038	DPL
ND	EPA 300.0	1.00 mg	g/L 5/17/23	QC65070	NRP
ND	EPA 300.0	0.50 mg	g/L 5/17/23	QC65071	NRP
ND	Calculation	0.05 mg	g/L 5/19/23	-	AMJ
ND	EPA 300.0	0.30 mg	g/L 5/17/23	QC65072	NRP
ND	EPA 300.0	0.10 mg	g/L 5/17/23	QC65073	NRP
ND	EPA 245.7	0.0002 mg	g/L 5/23/23	QC65164	MAT
ND	EPA 200.8	0.001 mg	g/L 5/17/23	QC65041	MBN
ND	EPA 200.8	0.0012 mg	g/L 5/17/23	QC65041	MBN
ND	EPA 200.8	0.0006 mg	g/L 5/17/23	QC65041	MBN
ND	EPA 200.8	0.0007 mg	g/L 5/17/23	QC65041	MBN
ND	EPA 200.8	0.0001 mg	g/L 5/17/23	QC65041	MBN
ND	EPA 200.8	0.0001 mg	g/L 5/17/23	QC65041	MBN
ND	EPA 200.8	0.0015 mg	g/L 5/17/23	QC65041	MBN
ND	EPA 200.8	0.0002 mg	g/L 5/17/23	QC65041	MBN
ND	EPA 200.8	0.0008 mg	g/L 5/17/23	QC65041	MBN
ND	EPA 200.8	0.0001 mg	g/L 5/17/23	QC65041	MBN
ND	EPA 200.8	0.0008 mg	g/L 5/17/23	QC65041	MBN
ND	EPA 200.8	0.0005 mg	g/L 5/17/23	QC65041	MBN
ND	EPA 200.8	0.0009 mg	g/L 5/17/23	QC65041	MBN
ND	EPA 200.8	0.0008 mg	g/L 5/17/23	QC65041	MBN
	ND N	ND EPA 300.0 ND ASTM D4282-15 ND EPA 300.0 ND EPA 200.8	ND EPA 300.0 0.10 mg ND ASTM D4282-15 0.005 mg ND EPA 300.0 1.00 mg ND EPA 300.0 0.50 mg ND Calculation 0.05 mg ND EPA 300.0 0.30 mg ND EPA 300.0 0.10 mg ND EPA 300.0 0.10 mg ND EPA 200.8 0.0012 mg ND EPA 200.8 0.0006 mg ND EPA 200.8 0.0007 mg ND EPA 200.8 0.0001 mg ND EPA 200.8 0.00001 mg ND EPA 200.8 0.0001 mg	ND EPA 300.0 0.10 mg/L 5/17/23 ND ASTM D4282-15 0.005 mg/L 5/17/23 ND EPA 300.0 1.00 mg/L 5/17/23 ND EPA 300.0 0.50 mg/L 5/17/23 ND Calculation 0.05 mg/L 5/19/23 ND EPA 300.0 0.30 mg/L 5/17/23 ND EPA 300.0 0.30 mg/L 5/17/23 ND EPA 245.7 0.0002 mg/L 5/23/23 ND EPA 200.8 0.001 mg/L 5/17/23 ND EPA 200.8 0.0012 mg/L 5/17/23 ND EPA 200.8 0.0006 mg/L 5/17/23 ND EPA 200.8 0.0007 mg/L 5/17/23 ND EPA 200.8 0.0001 mg/L 5/17/23 ND EPA 200.8 0.0001 mg/L 5/17/23 ND EPA 200.8 0.0002 mg/L 5/17/23 ND EPA 200.8 0.0002 mg/L 5/17/23 ND EPA 200.8 0.0008 mg/L 5/17/23 ND EPA 200.8 0.0001 mg/L 5/17/23 ND <td>ND EPA 300.0 0.10 mg/L 5/17/23 QC65069 ND ASTM D4282-15 0.005 mg/L 5/17/23 QC65038 ND EPA 300.0 1.00 mg/L 5/17/23 QC65070 ND EPA 300.0 0.50 mg/L 5/17/23 QC65071 ND Calculation 0.05 mg/L 5/19/23 - ND EPA 300.0 0.30 mg/L 5/17/23 QC65072 ND EPA 300.0 0.30 mg/L 5/17/23 QC65072 ND EPA 200.8 0.001 mg/L 5/17/23 QC65072 ND EPA 200.8 0.001 mg/L 5/17/23 QC65041 ND EPA 200.8 0.001 mg/L 5/17/23 QC65041 ND EPA 200.8 0.0006 mg/L 5/17/23 QC65041 ND EPA 200.8 0.0007 mg/L 5/17/23 QC65041 ND EPA 200.8 0.0001 mg/L 5/17/23 QC65041 ND EPA 200.8 0.0001 mg/L 5/17/23 QC65041 ND</td>	ND EPA 300.0 0.10 mg/L 5/17/23 QC65069 ND ASTM D4282-15 0.005 mg/L 5/17/23 QC65038 ND EPA 300.0 1.00 mg/L 5/17/23 QC65070 ND EPA 300.0 0.50 mg/L 5/17/23 QC65071 ND Calculation 0.05 mg/L 5/19/23 - ND EPA 300.0 0.30 mg/L 5/17/23 QC65072 ND EPA 300.0 0.30 mg/L 5/17/23 QC65072 ND EPA 200.8 0.001 mg/L 5/17/23 QC65072 ND EPA 200.8 0.001 mg/L 5/17/23 QC65041 ND EPA 200.8 0.001 mg/L 5/17/23 QC65041 ND EPA 200.8 0.0006 mg/L 5/17/23 QC65041 ND EPA 200.8 0.0007 mg/L 5/17/23 QC65041 ND EPA 200.8 0.0001 mg/L 5/17/23 QC65041 ND EPA 200.8 0.0001 mg/L 5/17/23 QC65041 ND

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations. (s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable



TASK NO: 230516111

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230516111

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 5/16/23 Date Reported: 6/29/23

Matrix: Water - Ground

Customer Sample ID Caribou 03

Sample Date/Time: 5/16/23 11:15 AM

Lab Number: 230516111-09

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Dissolved						
Silver	ND	EPA 200.8	0.0005 mg/L	5/17/23	QC65041	MBN
Thallium	ND	EPA 200.8	0.0002 mg/L	5/17/23	QC65041	MBN
Uranium	ND	EPA 200.8	0.0002 mg/L	5/17/23	QC65041	MBN
Vanadium	ND	EPA 200.8	0.001 mg/L	5/17/23	QC65041	MBN
Zinc	ND	EPA 200.8	0.001 mg/L	5/17/23	QC65041	MBN
Boron	ND	EPA 200.7	0.05 mg/L	5/18/23	QC65087	MAT
Calcium	ND	EPA 200.7	0.1 mg/L	5/18/23	QC65087	MAT
Iron	ND	EPA 200.7	0.005 mg/L	5/18/23	QC65087	MAT

Dissolved Metals filtered in the field by the customer

Abbreviations/ References:

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(d) RPD acceptable due to low duplicate and sample concentrations. (s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable



Analytical QC Summary

TASK NO: 230516111

Report To: Patrick Delaney Receive Date: 5/16/23

Company: Grand Island Resources LLC Project Name: Monthly Groundwater

Test	QC Batch ID	QC Type	Result		Method	Prep Date
Chloride	QC65069	Blank	ND		EPA 300.0	5/17/23
Cyanide-Free	QC65038	Blank	ND		ASTM D4282-15	5/17/23
Fluoride	QC65070	Blank	ND		EPA 300.0	5/17/23
Mercury	QC65164	Method Blank	ND		EPA 245.7	5/23/23
Aluminum	QC65041	Method Blank	ND		EPA 200.8	5/16/23
Antimony	QC65041	Method Blank	ND		EPA 200.8	5/16/23
Arsenic	QC65041	Method Blank	ND		EPA 200.8	5/16/23
Barium	QC65041	Method Blank	ND		EPA 200.8	5/16/23
Beryllium	QC65041	Method Blank	ND		EPA 200.8	5/16/23
Cadmium	QC65041	Method Blank	ND		EPA 200.8	5/16/23
Chromium	QC65041	Method Blank	ND		EPA 200.8	5/16/23
Cobalt	QC65041	Method Blank	ND		EPA 200.8	5/16/23
Copper	QC65041	Method Blank	ND		EPA 200.8	5/16/23
Lead	QC65041	Method Blank	ND		EPA 200.8	5/16/23
Manganese	QC65041	Method Blank	ND		EPA 200.8	5/16/23
Molybdenum	QC65041	Method Blank	ND		EPA 200.8	5/16/23
Nickel	QC65041	Method Blank	ND		EPA 200.8	5/16/23
Selenium	QC65041	Method Blank	ND		EPA 200.8	5/16/23
Silver	QC65041	Method Blank	ND		EPA 200.8	5/16/23
Thallium	QC65041	Method Blank	ND		EPA 200.8	5/16/23
Uranium	QC65041	Method Blank	ND		EPA 200.8	5/16/23
Vanadium	QC65041	Method Blank	ND		EPA 200.8	5/16/23
Zinc	QC65041	Method Blank	ND		EPA 200.8	5/16/23
Boron	QC65087	Method Blank	ND		EPA 200.7	5/16/23
Calcium	QC65087	Method Blank	ND		EPA 200.7	5/16/23
Iron	QC65087	Method Blank	ND		EPA 200.7	5/16/23
Nitrate Nitrogen	QC65071	Blank	ND		EPA 300.0	5/17/23
Nitrite Nitrogen	QC65072	Blank	ND		EPA 300.0	5/17/23
Sulfate	QC65073	Blank	ND		EPA 300.0	5/17/23
Test	QC Batch ID	QC Type	Limits	% Rec	RPD	Method
Chloride	QC65069	Duplicate	0 - 20	-	3.1	EPA 300.0
		LCS	90 - 110	104.9	-	
		MS	75 - 125	103.3	-	
Cyanide-Free	QC65038	Duplicate	0 - 20	-	0.0	ASTM D4282-15
		LCS	90 - 110	100.3	=	
		MS	75 - 125	107.5	=	
Fluoride	QC65070	Duplicate	0 - 20	-	7.7	EPA 300.0
		LCS	90 - 110	98.3	-	
		MS	75 - 125	98.2	-	
Mercury	QC65164	Duplicate	0 - 20	-	0.0	EPA 245.7
•		LCS	90 - 110	106.4	-	

Abbreviations/ References:

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 (s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable

Test	QC Batch ID	QC Type	Limits	% Rec	RPD	Method
	•	MS	80 - 120	102.0	-	
Aluminum	QC65041	LCS	90 - 110	105.7	-	EPA 200.8
		MS	70 - 130	112.1	-	
		MSD	0 - 10	-	4.8	
Antimony	QC65041	LCS	90 - 110	109.6	-	EPA 200.8
		MS	70 - 130	111.2	-	
		MSD	0 - 10	-	2.5	
Arsenic	QC65041	LCS	90 - 110	104.9	-	EPA 200.8
		MS	70 - 130	107.5	-	
		MSD	0 - 10	-	4.8	
Barium	QC65041	LCS	90 - 110	106.2	-	EPA 200.8
		MS	70 - 130	104.3	-	
		MSD	0 - 10	-	2.5	
Beryllium	QC65041	LCS	90 - 110	107.6	-	EPA 200.8
		MS	70 - 130	105.2	-	
		MSD	0 - 10	-	4.9	
Cadmium	QC65041	LCS	90 - 110	103.0	-	EPA 200.8
		MS	70 - 130	110.3	-	
		MSD	0 - 10	-	1.8	
Chromium	QC65041	LCS	90 - 110	107.5	-	EPA 200.8
		MS	70 - 130	106.7	-	
		MSD	0 - 10	-	3.1	
Cobalt	QC65041	LCS	90 - 110	108.4	-	EPA 200.8
		MS	70 - 130	107.1	-	
		MSD	0 - 10	-	3.3	
Copper	QC65041	LCS	90 - 110	103.8	-	EPA 200.8
		MS	70 - 130	103.2	-	
		MSD	0 - 10	-	1.3	
Lead	QC65041	LCS	90 - 110	102.8	-	EPA 200.8
		MS	70 - 130	103.5	-	
		MSD	0 - 10	-	2.2	
Manganese	QC65041	LCS	90 - 110	108.9	-	EPA 200.8
		MS	70 - 130	108.7	-	
		MSD	0 - 10	-	3.5	
Molybdenum	QC65041	LCS	90 - 110	101.1	-	EPA 200.8
		MS	70 - 130	93.5	-	
		MSD	0 - 10	-	0.4	
Nickel	QC65041	LCS	90 - 110	105.3	-	EPA 200.8
		MS	70 - 130	105.9	-	
		MSD	0 - 10	-	4.5	
Selenium	QC65041	LCS	90 - 110	94.9	-	EPA 200.8
		MS	70 - 130	104.6	-	
		MSD	0 - 10	-	0.8	
Silver	QC65041	LCS	90 - 110	97.4	-	EPA 200.8
		MS	70 - 130	101.7	-	
		MSD	0 - 10	-	0.1	
Thallium	QC65041	LCS	90 - 110	107.9	-	EPA 200.8
		MS	70 - 130	108.6	-	
		MSD	0 - 10	-	0.3	
Uranium	QC65041	LCS	90 - 110	104.9	-	EPA 200.8
		MS	70 - 130	102.4	-	

Abbreviations/ References:

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Test Test	QC Batch ID	QC Type	Limits	% Rec	RPD	Method
	'	MSD	0 - 10	-	3.6	
Vanadium	QC65041	LCS	90 - 110	104.7	-	EPA 200.8
		MS	70 - 130	107.2	-	
		MSD	0 - 10	-	5.0	
Zinc	QC65041	LCS	90 - 110	107.8	-	EPA 200.8
		MS	70 - 130	127.2	-	
		MSD	0 - 10	-	0.2	
Boron	QC65087	Duplicate	0 - 20	-	15.4	EPA 200.7
		LCS	90 - 110	103.7	-	
		MS	75 - 125	113.5	-	
Calcium	QC65087	Duplicate	0 - 20	-	8.0	EPA 200.7
		LCS	90 - 110	96.3	-	
		MS	75 - 125	106.5	-	
Iron	QC65087	Duplicate	0 - 20	-	1.1	EPA 200.7
		LCS	90 - 110	96.9	-	
		MS	75 - 125	106.8	-	
Nitrate Nitrogen	QC65071	Duplicate	0 - 20	-	6.6	EPA 300.0
		LCS	90 - 110	101.1	-	
		MS	75 - 125	93.9	-	
Nitrite Nitrogen	QC65072	Duplicate	0 - 20	-	0.0	EPA 300.0
		LCS	90 - 110	93.6	-	
		MS	75 - 125	100.5	-	
Sulfate	QC65073	Duplicate	0 - 20	-	1.5	EPA 300.0
		LCS	90 - 110	103.8	-	
		MS	75 - 125	105.0	-	

All analyses were performed in accordance with approved methods under the latest revision to 40 CFR Part 136 unless otherwise identified. Based on my inquiry of the person or persons directly responsible for analyzing the wastewater samples and generating the report (s), the analyses, report, and information submitted are, to the best of my knowledge and belief, true, accurate, and complete.

DATA APPROVED FOR RELEASE BY

RL = Reporting Limit = Minimum Level
mg/L = Milligrams Per Liter or PPM
ug/L = Micrograms Per Liter or PPB
mpn/100 mls = Most Probable Number Index/ 100 mls
Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations.
(s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable

Chain of Custody Form

Report To Information	Bill To Information (If different from report to)	Project Name / Number
Company Name: 61R	Company Name:	
Contact Name: Brooke Moran	Contact Name:	
Address: 12567 W Cedar Rd Ste 251	Address:	Task Number (Lab Use Only)
City Lakewood State CO zip 80228	City State Zip	
303-506-1618	a phone:	CAL Task
Email: Sergio, rivera Onovame	Email:	230516111
Sample Collector: BM	jallix, com	ARF
Sample Collector Phone: 303 506-16(8	PO No.:	/



Commerce City Lab 10411 Heinz Way Commerce City CO 80640

<u>Lakewood Service Center</u> 12860 W. Cedar Dr, Suite 100A Lakewood CO 80228

Phone: 303-659-2313

www.coloradolab.com

											Те	sts R	eque	sted				
	Sample Matrix (Select One Only)			3													
Waste Water 🔲	Soil 🗌	Drie	nking Water 🔲	iers	Onl		0					-			<u> </u>			
Ground Water 💢	Sludge 🗌		iking water	ntair	One	。 。	QB	0	2	2	0 5		$ \mathcal{O} $		47			
Surface Water 🗌				f Co	heck	posit	REV	115	EI	5	31	120	2	3				
Date Time		Sample ID		No. of Containers	Grab or (Check One Only)	Com	- 1	don		tU	1	diR1	bul	S	WA	HT	\mathbb{R}	4
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11 13:30	COMPLIAN	CE 02		4	6													
11 13:30	COMPLIAN	GE 03		Ÿ	6													
11:30	CARMBO			4	6													
" 12:15	CROSS PI	ORTAL		4	6													
11 11:15	CARIBOU	PORTAL		4	6													
" 11:15	CARIBOL	02		4	6													
" 11:15	CARIBO	U 03		4	6													
Instructions: HNO	3 & 6ROSS/	LIPHA	C/S Info:								Seals P		Yes 🔲	N₀ Z				
ROTHES FIR	EUD FILTER	(E)	Deliver Via	. ∤	ton	ď		C/S`	Charge	п	Temp.	.07 .	C/Ìce	Y	Sample	Pres. Yes	PÍ No	n
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Karen Lapa	7 05/16/23	A. Forh	5114115 Page 22	2 of 24	1													
	2:05PM									-								



CAL Task 230516111

ARF

Bottle Order Test Detail

Order ID: QBO22050014

Date Created: 5/4/22

Grand Island Resources LLC Ship To:

65 Arikaree Circle

Nederland CO 80466

Attention: Brooke Molson-Moran

Verify All Shipping Addresses

Shipping Options:

Customer Pickup Ship Via:

Chain of Custody

Drinking Water:

Standard: 1

Cooler: Yes

Customer Needs By: 5/4/23

Ships From: Lakewood

Project:

Monthly Groundwater

Qty. 8	Bottle / Preservative / Test 1L - Unpreserved Gross Alpha/Beta (Sub) - Water - Ground
8	500 ml Cylinder - HNO3 Hg - Water - Ground Metals (Sub) - Water - Ground
8	500 ml Cylinder - NaOH Cyanide - Free - Water - Ground

500 ml Cylinder - Unpreserved

Ag - Dis - Water - Ground

Al - Dis - Water - Ground

As - Dis - Water - Ground

B - Dis - Water - Ground

Ba - Dis - Water - Ground Be - Dis - Water - Ground

Ca - Dis - Water - Ground

Cd - Dis - Water - Ground

Chloride - Water - Ground

Co - Dis - Water - Ground

Cr - Dis - Water - Ground

Cu - Dis - Water - Ground

Internal Shipping Instructions:		
internal omponing modulationer		

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507

^{**}Samples should be shipped or hand delivered the same day they are collected. Orders that require sub-lab analysis should be delivered to the lab Monday thru Wednesday only.**

Ship To:	Grand Island Resources LLC		Shipping Options:				
	65 Arikaree Circle	CAL Task	Ship Via: Customer Pickup Cooler: Yes				
	Nederland CO 80466 2305	230516111	Drinking Water: Chain of Custody Standard: 1				
Attention: Brooke Molson-Moran	ARF	Customer Needs By: 5/4/23 Ships From: Lakewood					
Verify All Shipping Addresses			Project:				
	, ,, ,		Monthly Groundwater				

Qty. Bottle / Preservative / Test Fe - Dis - Water - Ground Fluoride - Water - Ground Langelier Index - Water - Ground Mn - Dis - Water - Ground Mo - Dis - Water - Ground Ni - Dis - Water - Ground Nitrate Nitrogen - Water - Ground Nitrate/ Nitrite Nitrogen - Water - Ground Nitrite Nitrogen - Water - Ground Pb - Dis - Water - Ground Sb - Dis - Water - Ground Se - Dis - Water - Ground Sulfate - Water - Ground TI - Dis - Water - Ground U - Dis - Water - Ground V - Dis - Water - Ground

Zn - Dis - Water - Ground

Internal Shipping Instructions:	

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507

^{**}Samples should be shipped or hand delivered the same day they are collected. Orders that require sub-lab analysis should be delivered to the lab Monday thru Wednesday only.**

ANALYTICAL SUMMARY REPORT

June 01, 2023

Colorado Analytical Laboratories Inc

PO Box 507

Brighton, CO 80601-0507

Work Order: C23050735 Quote ID: C15681

Trust our People. Trust our Data.

www.energylab.com

Project Name: 230516111; Monthly Groundwater

Energy Laboratories, Inc. Casper WY received the following 9 samples for Colorado Analytical Laboratories Inc on 5/18/2023

•		
tor	วทว	lvsis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C23050735-001	230516111-01D - Cross Well	05/16/23 13:00	05/18/23	Groundwater	Metals by ICP/ICPMS, Dissolved
C23050735-002	230516111-02D - Compliance Well	05/16/23 13:30	05/18/23	Groundwater	Same As Above
C23050735-003	230516111-03D - Compliance 02	05/16/23 13:30	05/18/23	Groundwater	Same As Above
C23050735-004	230516111-04D - Compliance 03	05/16/23 13:30	05/18/23	Groundwater	Same As Above
C23050735-005	230516111-05D - Caribou Well	05/16/23 11:30	05/18/23	Groundwater	Same As Above
C23050735-006	230516111-06D - Cross Portal	05/16/23 12:15	5 05/18/23	Groundwater	Same As Above
C23050735-007	230516111-07D - Caribou Portal	05/16/23 11:15	5 05/18/23	Groundwater	Same As Above
C23050735-008	230516111-08D - Caribou 02	05/16/23 11:15	5 05/18/23	Groundwater	Same As Above
C23050735-009	230516111-09D - Caribou 03	05/16/23 11:15	5 05/18/23	Groundwater	Same As Above

The analyses presented in this report were performed by Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601, unless otherwise noted. Any exceptions or problems with the analyses are noted in the report package. Any issues encountered during sample receipt are documented in the Work Order Receipt Checklist.

The results as reported relate only to the item(s) submitted for testing. This report shall be used or copied only in its entirety. Energy Laboratories, Inc. is not responsible for the consequences arising from the use of a partial report.

If you have any questions regarding these test results, please contact your Project Manager .

Report Approved By:

Billings, MT **800.735.4489** • Casper, WY **888.235.0515** Gillette, WY **866.686.7175** • Helena, MT **877.472.0711**

Report Date: 06/01/23

CLIENT: Colorado Analytical Laboratories Inc

Project: 230516111; Monthly Groundwater

Work Order: C23050735 CASE NARRATIVE

Tests associated with analyst identified as ELI-B were subcontracted to Energy Laboratories, 1120 S. 27th St., Billings, MT, EPA Number MT00005.





LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Colorado Analytical Laboratories Inc Project: 230516111; Monthly Groundwater

Lab ID: C23050735-001

Client Sample ID: 230516111-01D - Cross Well

Report Date: 06/01/23 Collection Date: 05/16/23 13:00 DateReceived: 05/18/23

Matrix: Groundwater

Analyses	Result Units	Qualifiers	RL	MCL/ QCL Method	Analysis Date / By
METALS, DISSOLVED Lithium	ND mg/L	L	0.006	E200.8	05/25/23 12:20 / eli-b

Report RL - Analyte Reporting Limit Definitions:

QCL - Quality Control Limit

L - Lowest available reporting limit for the analytical

method used

MCL - Maximum Contaminant Level





LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Colorado Analytical Laboratories Inc Project: 230516111; Monthly Groundwater

Lab ID: C23050735-002

Client Sample ID: 230516111-02D - Compliance Well

Report Date: 06/01/23 Collection Date: 05/16/23 13:30 DateReceived: 05/18/23

Matrix: Groundwater

Analyses	Result Units	Qualifiers	RL	MCL/ QCL Method	Analysis Date / By
METALS, DISSOLVED Lithium	ND mg/L	L	0.006	E200.8	05/25/23 12:27 / eli-b

Report RL - Analyte Reporting Limit Definitions: QCL - Quality Control Limit

L - Lowest available reporting limit for the analytical

method used

MCL - Maximum Contaminant Level





Client: Colorado Analytical Laboratories Inc Project: 230516111; Monthly Groundwater

Lab ID: C23050735-003

Client Sample ID: 230516111-03D - Compliance 02

Report Date: 06/01/23 Collection Date: 05/16/23 13:30 DateReceived: 05/18/23

Matrix: Groundwater

Analyses	Result Units	Qualifiers	RL	MCL/ QCL Method	Analysis Date / By
METALS, DISSOLVED Lithium	ND mg/L	L	0.006	E200.8	05/25/23 12:33 / eli-b

Report RL - Analyte Reporting Limit Definitions:

QCL - Quality Control Limit

L - Lowest available reporting limit for the analytical

method used

MCL - Maximum Contaminant Level





LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Colorado Analytical Laboratories Inc Project: 230516111; Monthly Groundwater

Lab ID: C23050735-004

Client Sample ID: 230516111-04D - Compliance 03

Report Date: 06/01/23 Collection Date: 05/16/23 13:30 DateReceived: 05/18/23

Matrix: Groundwater

Analyses	Result Units	Qualifiers	RL	MCL/ QCL Method	Analysis Date / By
METALS, DISSOLVED Lithium	ND mg/L	L	0.006	E200.8	05/25/23 12:39 / eli-b

Report RL - Analyte Reporting Limit Definitions:

QCL - Quality Control Limit

L - Lowest available reporting limit for the analytical

method used

MCL - Maximum Contaminant Level





Client: Colorado Analytical Laboratories Inc **Project:** 230516111; Monthly Groundwater

Lab ID: C23050735-005

Client Sample ID: 230516111-05D - Caribou Well

Report Date: 06/01/23 **Collection Date:** 05/16/23 11:30

DateReceived: 05/18/23

Matrix: Groundwater

Analyses	Result Units	Qualifiers	RL	MCL/ QCL Method	Analysis Date / By
METALS, DISSOLVED Lithium	ND mg/L	L	0.006	E200.8	05/25/23 12:45 / eli-b

Report RL - Analyte Reporting Limit

Definitions: QCL - Quality Control Limit

L - Lowest available reporting limit for the analytical

method used

MCL - Maximum Contaminant Level





Client: Colorado Analytical Laboratories Inc Project: 230516111; Monthly Groundwater

Lab ID: C23050735-006

Client Sample ID: 230516111-06D - Cross Portal

Report Date: 06/01/23 **Collection Date:** 05/16/23 12:15 DateReceived: 05/18/23

Matrix: Groundwater

Analyses	Result Units	Qualifiers	RL	MCL/ QCL Method	Analysis Date / By
METALS, DISSOLVED Lithium	ND mg/L	L	0.006	E200.8	05/25/23 12:52 / eli-b

Report RL - Analyte Reporting Limit Definitions: QCL - Quality Control Limit

L - Lowest available reporting limit for the analytical

method used

MCL - Maximum Contaminant Level





Client: Colorado Analytical Laboratories Inc **Project:** 230516111; Monthly Groundwater

Lab ID: C23050735-007

Client Sample ID: 230516111-07D - Caribou Portal

Report Date: 06/01/23 **Collection Date:** 05/16/23 11:15 **DateReceived:** 05/18/23

Matrix: Groundwater

Analyses	Result Units	Qualifiers	RL	MCL/ QCL Method	Analysis Date / By
METALS, DISSOLVED Lithium	ND mg/L	L	0.006	E200.8	05/25/23 12:58 / eli-b

Report RL - Analyte Reporting Limit

Definitions: QCL - Quality Control Limit

L - Lowest available reporting limit for the analytical

method used

MCL - Maximum Contaminant Level





LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Colorado Analytical Laboratories Inc Project: 230516111; Monthly Groundwater

Lab ID: C23050735-008

Client Sample ID: 230516111-08D - Caribou 02

Report Date: 06/01/23 **Collection Date:** 05/16/23 11:15

DateReceived: 05/18/23

Matrix: Groundwater

Analyses	Result Units	Qualifiers	RL	MCL/ QCL Method	Analysis Date / By
METALS, DISSOLVED Lithium	ND mg/L	L	0.006	E200.8	05/25/23 13:24 / eli-b

Report RL - Analyte Reporting Limit Definitions: QCL - Quality Control Limit

L - Lowest available reporting limit for the analytical

method used

MCL - Maximum Contaminant Level





Client: Colorado Analytical Laboratories Inc Project: 230516111; Monthly Groundwater

Lab ID: C23050735-009

Client Sample ID: 230516111-09D - Caribou 03

Report Date: 06/01/23 **Collection Date:** 05/16/23 11:15 **DateReceived:** 05/18/23

Matrix: Groundwater

Analyses	Result Units	Qualifiers	RL	MCL/ QCL Method	Analysis Date / By
METALS, DISSOLVED	ND mg/L		0.006	E200.8	05/25/23 13:49 / eli-b

Report RL - Analyte Reporting Limit

Definitions: QCL - Quality Control Limit

L - Lowest available reporting limit for the analytical

method used

MCL - Maximum Contaminant Level



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc Work Order: C23050735 Report Date: 05/31/23

Analyte		Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	E200.8							Analytica	al Run: I	CPMS208-B	_230524B
Lab ID:	QCS	Initi	al Calibration	on Verification St	andard					05/25/	23 01:27
Lithium			0.0486	mg/L	0.0062	97	90	110			
Lab ID:	CCV	Cor	ntinuing Cal	ibration Verificati	on Standa	rd				05/25/	23 11:49
Lithium			0.654	mg/L	0.0062	105	90	110			
Lab ID:	CCV	Cor	ntinuing Cal	ibration Verificati	on Standa	rd				05/25/	23 13:11
Lithium			0.661	mg/L	0.0062	106	90	110			
Method:	E200.8									Batch:	R402638
Lab ID:	LRB	Met	thod Blank				Run: ICPM	S208-B_230524	В	05/24/	23 15:06
Lithium			ND	mg/L	0.003						
Lab ID:	LFB	Lab	oratory For	tified Blank			Run: ICPM	S208-B_230524	В	05/24/	/23 15:19
Lithium			2.41	mg/L	0.0064	96	85	115			
Lab ID:	B23051834-004BMS	Sar	nple Matrix	Spike			Run: ICPM	S208-B_230524	В	05/25/	/23 11:36
Lithium			2.54	mg/L	0.10	100	70	130			Е
Lab ID:	B23051834-004BMSI	D Sar	nple Matrix	Spike Duplicate			Run: ICPM	S208-B_230524	В	05/25/	23 11:43
Lithium			2.48	mg/L	0.10	97	70	130	2.5	20	Е
Lab ID:	C23050735-008AMS	Sar	mple Matrix	Spike			Run: ICPM	S208-B_230524	В	05/25/	23 13:30
Lithium			2.69	mg/L	0.10	108	70	130			E
Lab ID:	C23050735-008AMSI) Sar	nple Matrix	Spike Duplicate			Run: ICPM	S208-B_230524	В	05/25/	23 13:36
Lithium			2.75	mg/L	0.10	110	70	130	2.0	20	E

Work Order Receipt Checklist

Colorado Analytical Laboratories Inc C23050735

Login completed by: So	elena J. Fowler	Date Received: 5/18/2023				
Reviewed by: cj	ohnson		Rec	eived by: tsa		
Reviewed Date: 5/	/22/2023		Carri	er name: FedEx		
Shipping container/cooler in goo	od condition?	Yes √	No 🗌	Not Present		
Custody seals intact on all shipp	ping container(s)/cooler(s)?	Yes	No 🗌	Not Present ✓		
Custody seals intact on all sample bottles?		Yes	No 🗌	Not Present 🗹		
Chain of custody present?		Yes ✓	No 🗌			
Chain of custody signed when re	elinquished and received?	Yes ✓	No 🗌			
Chain of custody agrees with sa	imple labels?	Yes ✓	No 🗌			
Samples in proper container/bot	tle?	Yes ✓	No 🗌			
Sample containers intact?		Yes ✓	No 🗌			
Sufficient sample volume for ind	licated test?	Yes ✓	No 🗌			
All samples received within hold (Exclude analyses that are cons such as pH, DO, Res CI, Sulfite	idered field parameters	Yes ✓	No 🗌			
Temp Blank received in all shipp	ping container(s)/cooler(s)?	Yes	No 🗸	Not Applicable		
Container/Temp Blank temperat	ure:	4.3°C On Ice				
Containers requiring zero heads bubble that is <6mm (1/4").	pace have no headspace or	Yes 🗸	No 🗌	No VOA vials submitted		
Water - pH acceptable upon rec	eipt?	Yes ✓	No 🗌	Not Applicable		

Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

The reference date for Radon analysis is the sample collection date. The reference date for all other Radiochemical analyses is the analysis date. Radiochemical precision results represent a 2-sigma Total Measurement Uncertainty.

Contact and Corrective Action Comments:

None



Ship To: Energy Labs

(23050435

Sub-Lab Chain of Custody Form

Report To Information	Bill To Information (If different from report to)		Project Name		
Company Name: Colorado Analytical Laboratory Report To: Stuart Nielson			Monthly Groundwater		
E-Mail: stuartnielson@coloradolab.com					
Address:	Address:	CAL TASK	Compliance Samples: Yes	Yes No V	
10411 Heinz Way		230516111	Submit Data to CDPHE: Yes No	No N	
Commerce City, CO 80640		ARF			
Phone: 303-659-2313					
		Toete Doginetod	poteon		
		ומסום ואמו	ממפונים		

250 ml Cylinder - HNO3 250 ml Cylinder - HNO 250 ml Cylinder - HNO: 250 ml Cylinder - HNO Container Type Metals (Sub) Matrix Water - Ground Nater - Ground Nater - Ground Water - Ground Nater - Ground Nater - Ground Nater - Ground Water - Ground Water - Ground Sample ID 1:30 PM 230516111-02D - Compliance Well 1:30 PM 230516111-03D - Compliance 02 1:30 PM 230516111-04D - Compliance 03 11:15 AM 230516111-07D - Caribou Portal 11:30 AM 230516111-05D - Caribou Well 12:15 PM 230516111-06D - Cross Portal 1:00 PM 230516111-01D - Cross Well 11:15 AM 230516111-08D - Caribou 02 11:15 AM 230516111-09D - Caribou 03 Sample Date/Time 5/16/23 5/16/23 5/16/23 5/16/23 5/16/23 5/16/23 5/16/23 5/16/23 5/16/23

Date: Time: Page 1 of 2 runor Received by: (Signature) 10:00 5/18/2023 Relinquished by: (Signature) Date: Time: Received by: (Signature)

Page 14 of 15



Ship To: Energy Labs

C33220432

Sub-Lab Chain of Custody Form

Project Name		CAL TASK Compliance Samples: Yes No ▼ 230516111 Submit Data to CDPHE: Yes No ▼	Tests Requested		Container Type	
	Information (If different from report to)			Metals (Sub)	Matrix	ield filtered. ield filtered. field filtered. field filtered.
LABORAL CITIES, INC.	Orado Analytical Laboratory lart Nielson	stuartnielson@coloradolab.com Address: O 80640	9-2313		Sample ID	230516111-01D - Run Dissolved Lithium-Sample was field filtered. 230516111-02D - Run Dissolved Lithium-Sample was field filtered. 230516111-03D - Run Dissolved Lithium-Sample was field filtered. 230516111-04D - Run Dissolved Lithium-Sample was field filtered.
	Report To Information Company Name: Col Report To: Stu	E-Mail: stuartnis Address: 10411 Heinz Way Commerce City, CO 80640	Phone: <u>303-659-2313</u>		Sample Date/Time	Comment: 23051 23051 23051 23051

Date: IIIIe.		Page 2 of 2
Date: Time: Received by:		
Time: Delinquished by:	(Signature)	
	: Received by: (Signature)	
	Date: Time:	5/17/23
	Relinquished by: (Signature)	A. Fard

230516111-06D - Run Dissolved Lithium-Sample was field filtered. 230516111-07D - Run Dissolved Lithium-Sample was field filtered. 230516111-08D - Run Dissolved Lithium-Sample was field filtered. 230516111-09D - Run Dissolved Lithium-Sample was field filtered.



TASK NO: 230516111

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230516111

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 5/16/23 Date Reported: 6/29/23

Matrix: Water - Ground

Customer Sample ID Cross Well

Sample Date/Time: 5/16/23 1:00 PM

Lab Number: 230516111-01

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Bicarbonate	60.2 mg/L as CaCO3	SM 2320-B	0.2 mg/L as CaCO3	5/18/23	-	DPL
Calcium as CaCO3	40.7 mg/L	EPA 200.7	0.1 mg/L	5/18/23	-	MAT
Carbonate	ND	SM 2320-B	0.2 mg/L as CaCO3	5/18/23	-	DPL
Hydroxide	ND	SM 2320-B	0.2 mg/L as CaCO3	5/18/23	-	DPL
Langelier Index	-1.45 units	SM 2330-B	units	5/23/23	-	SAN
рН	6.87 units	SM 4500-H-B	0.01 units	5/16/23	-	AKF
Temperature	20 °C	SM 4500-H-B	1 °C	5/16/23	-	AKF
Total Alkalinity	60.2 mg/L as CaCO3	SM 2320-B	4.0 mg/L as CaCO3	5/18/23	QC65055	DPL
Total Dissolved Solids	89 mg/L	SM 2540-C	5 mg/L	5/18/23	QC65045	ISG

Dissolved Metals filtered in the field by the customer

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed (d) RPD acceptable due to low duplicate and sample concentrations.

(s) Spike amount low relative to the sample amount.



TASK NO: 230516111

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230516111

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 5/16/23 Date Reported: 6/29/23

Matrix: Water - Ground

Customer Sample ID Compliance Well

Sample Date/Time: 5/16/23 1:30 PM

Lab Number: 230516111-02

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Bicarbonate	41.6 mg/L as CaCO3	SM 2320-B	0.2 mg/L as CaCO3	5/18/23	-	DPL
Calcium as CaCO3	24.5 mg/L	EPA 200.7	0.1 mg/L	5/18/23	-	MAT
Carbonate	ND	SM 2320-B	0.2 mg/L as CaCO3	5/18/23	-	DPL
Hydroxide	ND	SM 2320-B	0.2 mg/L as CaCO3	5/18/23	-	DPL
Langelier Index	-1.68 units	SM 2330-B	units	5/23/23	-	SAN
рН	7.02 units	SM 4500-H-B	0.01 units	5/16/23	-	AKF
Temperature	20 °C	SM 4500-H-B	1 °C	5/16/23	-	AKF
Total Alkalinity	41.6 mg/L as CaCO3	SM 2320-B	4.0 mg/L as CaCO3	5/18/23	QC65055	DPL
Total Dissolved Solids	69 mg/L	SM 2540-C	5 mg/L	5/18/23	QC65045	ISG

Dissolved Metals filtered in the field by the customer

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed (d) RPD acceptable due to low duplicate and sample concentrations.

(s) Spike amount low relative to the sample amount.



TASK NO: 230516111

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230516111

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 5/16/23

Date Reported: 6/29/23

Matrix: Water - Ground

Customer Sample ID Compliance 02

1:30 PM Sample Date/Time: 5/16/23

Lab Number: 230516111-03

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Bicarbonate	41.6 mg/L as CaCO3	SM 2320-B	0.2 mg/L as CaCO3	5/18/23	-	DPL
Calcium as CaCO3	24.5 mg/L	EPA 200.7	0.1 mg/L	5/18/23	-	MAT
Carbonate	ND	SM 2320-B	0.2 mg/L as CaCO3	5/18/23	-	DPL
Hydroxide	ND	SM 2320-B	0.2 mg/L as CaCO3	5/18/23	-	DPL
Langelier Index	-1.74 units	SM 2330-B	units	5/23/23	-	SAN
рН	6.96 units	SM 4500-H-B	0.01 units	5/16/23	-	AKF
Temperature	20 °C	SM 4500-H-B	1 °C	5/16/23	-	AKF
Total Alkalinity	41.6 mg/L as CaCO3	SM 2320-B	4.0 mg/L as CaCO3	5/18/23	QC65055	DPL
Total Dissolved Solids	45 mg/L	SM 2540-C	5 mg/L	5/18/23	QC65045	ISG

Dissolved Metals filtered in the field by the customer

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations.

(s) Spike amount low relative to the sample amount.



TASK NO: 230516111

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230516111

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 5/16/23 Date Reported: 6/29/23

Matrix: Water - Ground

Customer Sample ID Compliance 03

Sample Date/Time: 5/16/23 1:30 PM

Lab Number: 230516111-04

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Bicarbonate	ND	SM 2320-B	0.2 mg/L as CaCO3	5/18/23	-	DPL
Calcium as CaCO3	ND	EPA 200.7	0.1 mg/L	5/18/23	-	MAT
Carbonate	ND	SM 2320-B	0.2 mg/L as CaCO3	5/18/23	-	DPL
Hydroxide	ND	SM 2320-B	0.2 mg/L as CaCO3	5/18/23	-	DPL
Langelier Index	-7.18 units	SM 2330-B	units	5/23/23	-	SAN
рН	6.03 units	SM 4500-H-B	0.01 units	5/16/23	-	AKF
Temperature	20 °C	SM 4500-H-B	1 °C	5/16/23	-	AKF
Total Alkalinity	ND	SM 2320-B	4.0 mg/L as CaCO3	5/18/23	QC65055	DPL
Total Dissolved Solids	ND	SM 2540-C	5 mg/L	5/18/23	QC65045	ISG

Dissolved Metals filtered in the field by the customer

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations.

(s) Spike amount low relative to the sample amount.



TASK NO: 230516111

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230516111

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 5/16/23

Date Reported: 6/29/23

Matrix: Water - Ground

Customer Sample ID Caribou Well

Sample Date/Time: 5/16/23 11:30 AM

Lab Number: 230516111-05

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Bicarbonate	18.9 mg/L as CaCO3	SM 2320-B	0.2 mg/L as CaCO3	5/18/23	-	DPL
Calcium as CaCO3	9.2 mg/L	EPA 200.7	0.1 mg/L	5/18/23	-	MAT
Carbonate	ND	SM 2320-B	0.2 mg/L as CaCO3	5/18/23	-	DPL
Hydroxide	ND	SM 2320-B	0.2 mg/L as CaCO3	5/18/23	-	DPL
Langelier Index	-3.51 units	SM 2330-B	units	5/23/23	-	SAN
рН	5.96 units	SM 4500-H-B	0.01 units	5/16/23	-	AKF
Temperature	20 °C	SM 4500-H-B	1 °C	5/16/23	-	AKF
Total Alkalinity	18.9 mg/L as CaCO3	SM 2320-B	4.0 mg/L as CaCO3	5/18/23	QC65055	DPL
Total Dissolved Solids	40 mg/L	SM 2540-C	5 mg/L	5/18/23	QC65045	ISG

Dissolved Metals filtered in the field by the customer

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations.

(s) Spike amount low relative to the sample amount.



TASK NO: 230516111

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230516111

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 5/16/23 Date Reported: 6/29/23

Matrix: Water - Ground

Customer Sample ID Cross Portal

Sample Date/Time: 5/16/23 12:15 PM

Lab Number: 230516111-06

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Bicarbonate	68.6 mg/L as CaCO3	SM 2320-B	0.2 mg/L as CaCO3	5/18/23	-	DPL
Calcium as CaCO3	47.0 mg/L	EPA 200.7	0.1 mg/L	5/18/23	-	MAT
Carbonate	ND	SM 2320-B	0.2 mg/L as CaCO3	5/18/23	-	DPL
Hydroxide	ND	SM 2320-B	0.2 mg/L as CaCO3	5/18/23	-	DPL
Langelier Index	-0.98 units	SM 2330-B	units	5/23/23	-	SAN
рН	7.22 units	SM 4500-H-B	0.01 units	5/16/23	-	AKF
Temperature	20 °C	SM 4500-H-B	1 °C	5/16/23	-	AKF
Total Alkalinity	68.6 mg/L as CaCO3	SM 2320-B	4.0 mg/L as CaCO3	5/18/23	QC65055	DPL
Total Dissolved Solids	85 mg/L	SM 2540-C	5 mg/L	5/18/23	QC65045	ISG

Dissolved Metals filtered in the field by the customer

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations.

(s) Spike amount low relative to the sample amount.



TASK NO: 230516111

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230516111

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 5/16/23 Date Reported: 6/29/23

Matrix: Water - Ground

Customer Sample ID Caribou Portal

Sample Date/Time: 5/16/23 11:15 AM

Lab Number: 230516111-07

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Bicarbonate	14.7 mg/L as CaCO3	SM 2320-B	0.2 mg/L as CaCO3	5/18/23	-	DPL
Calcium as CaCO3	7.8 mg/L	EPA 200.7	0.1 mg/L	5/18/23	-	MAT
Carbonate	ND	SM 2320-B	0.2 mg/L as CaCO3	5/18/23	-	DPL
Hydroxide	ND	SM 2320-B	0.2 mg/L as CaCO3	5/18/23	-	DPL
Langelier Index	-2.68 units	SM 2330-B	units	5/23/23	-	SAN
рН	6.97 units	SM 4500-H-B	0.01 units	5/16/23	-	AKF
Temperature	20 °C	SM 4500-H-B	1 °C	5/16/23	-	AKF
Total Alkalinity	14.7 mg/L as CaCO3	SM 2320-B	4.0 mg/L as CaCO3	5/18/23	QC65055	DPL
Total Dissolved Solids	31 mg/L	SM 2540-C	5 mg/L	5/18/23	QC65045	ISG

Dissolved Metals filtered in the field by the customer

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations.

(s) Spike amount low relative to the sample amount.



TASK NO: 230516111

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230516111

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 5/16/23

Date Reported: 6/29/23

Matrix: Water - Ground

Customer Sample ID Caribou 02

Sample Date/Time: 5/16/23 11:15 AM

Lab Number: 230516111-08

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Bicarbonate	13.9 mg/L as CaCO3	SM 2320-B	0.2 mg/L as CaCO3	5/18/23	-	DPL
Calcium as CaCO3	8.1 mg/L	EPA 200.7	0.1 mg/L	5/18/23	-	MAT
Carbonate	ND	SM 2320-B	0.2 mg/L as CaCO3	5/18/23	-	DPL
Hydroxide	ND	SM 2320-B	0.2 mg/L as CaCO3	5/18/23	-	DPL
Langelier Index	-2.88 units	SM 2330-B	units	5/23/23	-	SAN
рН	6.78 units	SM 4500-H-B	0.01 units	5/16/23	-	AKF
Temperature	20 °C	SM 4500-H-B	1 °C	5/16/23	-	AKF
Total Alkalinity	13.9 mg/L as CaCO3	SM 2320-B	4.0 mg/L as CaCO3	5/18/23	QC65055	DPL
Total Dissolved Solids	31 mg/L	SM 2540-C	5 mg/L	5/18/23	QC65045	ISG

Dissolved Metals filtered in the field by the customer

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations.

(s) Spike amount low relative to the sample amount.



TASK NO: 230516111

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230516111

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 5/16/23

Date Reported: 6/29/23

Matrix: Water - Ground

Customer Sample ID Caribou 03

11:15 AM

Sample Date/Time: 5/16/23

Lab Number: 230516111-09

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Bicarbonate	ND	SM 2320-B	0.2 mg/L as CaCO3	5/18/23	-	DPL
Calcium as CaCO3	ND	EPA 200.7	0.1 mg/L	5/18/23	-	MAT
Carbonate	ND	SM 2320-B	0.2 mg/L as CaCO3	5/18/23	-	DPL
Hydroxide	ND	SM 2320-B	0.2 mg/L as CaCO3	5/18/23	-	DPL
Langelier Index	-7.19 units	SM 2330-B	units	5/23/23	-	SAN
рН	6.44 units	SM 4500-H-B	0.01 units	5/16/23	-	AKF
Temperature	20 °C	SM 4500-H-B	1 °C	5/16/23	-	AKF
Total Alkalinity	ND	SM 2320-B	4.0 mg/L as CaCO3	5/18/23	QC65055	DPL
Total Dissolved Solids	ND	SM 2540-C	5 mg/L	5/18/23	QC65045	ISG

Dissolved Metals filtered in the field by the customer

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations.

(s) Spike amount low relative to the sample amount.



Analytical QC Summary

TASK NO: 230516111

Report To: Patrick Delaney

Company: Grand Island Resources LLC

Receive Date: 5/16/23

Project Name: Monthly Groundwater

Test	QC Batch ID	QC Type	Result		Method	Prep Date
Total Alkalinity	QC65055	Blank	ND		SM 2320-B	5/18/23
Total Dissolved Solids	QC65045	Blank	ND		SM 2540-C	5/17/23
Test	QC Batch ID	QC Type	Limits	% Rec	RPD	Method
Total Alkalinity	QC65055	Duplicate	0 - 20	=	2.6	SM 2320-B
		LCS	90 - 110	101.4	-	
		LCS-2	90 - 110	98.8	-	
Total Dissolved Solids	QC65045	Duplicate	0 - 20	-	5.0	SM 2540-C
		LCS	85 - 115	103.1	-	

All analyses were performed in accordance with approved methods under the latest revision to 40 CFR Part 136 unless otherwise identified. Based on my inquiry of the person or persons directly responsible for analyzing the wastewater samples and generating the report (s), the analyses, report, and information submitted are, to the best of my knowledge and belief, true, accurate, and complete.

DATA APPROVED FOR RELEASE BY

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed

(s) Spike amount low relative to the sample amount.

Chain of Custody Form

Report To Information	Bill To Information (If different from report to)	Project Name / Number
Company Name: 61R	Company Name:	
Contact Name: Brooke Moran	Contact Name:	
Address: 12567 W Cedar Rd Ste 251	Address:	Task Number (Lab Use Only)
City Lakewood State CO zip 80228	City State Zip	
303-506-1618	a phone:	CAL Task
Email: Sergio, rivera Onovame	Email:	230516111
Sample Collector: BM	jallix, com	ARF
Sample Collector Phone: 303 506-16(8	PO No.:	/



Commerce City Lab 10411 Heinz Way Commerce City CO 80640

<u>Lakewood Service Center</u> 12860 W. Cedar Dr, Suite 100A Lakewood CO 80228

Phone: 303-659-2313

www.coloradolab.com

							Tes	ts Re	queste	d						
	Sample Matrix (Select One Only)			<u>\{ \}</u>											
Waste Water 🔲	Soil 🗌	Drin	king Water 🗌	ners	Onl	0		0	<u>م</u> ار		0					
Ground Water 💢	Sludge 🗌		g	ntair	One	Q B	0	22	2/1	0 5	1 1	\cup	14			
Surface Water				J _C	heck	RF	VIS	EL	>	31	20	12/2				
Date Time		Sample ID		No. of Containers	Grab or (Check One Only) Composite	1	MON	M		1 6	RE	SU N	J DW	ATE	F) {	-1
ALL - CED - VA CAS SEE MARK ARREST TO SEE MARK SEE SEE	CROSS	and the second s		4	6		-			•	 		+++	+		-
1.0102				+ +					+					_		
		ICE WELL		14	6				_							
11 13:30 (COMPLIAN	CE 02		4	6											
11 13:30 C	OMPLIAN	GE 03		14	6											
	CARPBO			4	6											
" 12:15	CROSS PI	ORTAL		4	6											
11:15	CARIBOU	PORTAL		4	6											
	CARIBOL			4	6											
	CARIBO			14	6											{
		4.7		1												
Instructions: HNO3	& GROSS I	ALPHA	C/S Info:					<u>.</u>				es 🗆 No	Ø '			
BOTLES FIÉ	UD FILTER		Deliver Via	}	tound		C/S`	Charge		十. Temp.		:/Ice	√ Sampl	e Pres. Ye	sÆ N	。
					uished By:			/Time:			ved B		/	Date	Time	_
Kren Lapa	5 4 0 5 Page 11	of 13	3									1				
	2:05pm															



CAL Task 230516111

ARF

Bottle Order Test Detail

Order ID: QBO22050014

Date Created: 5/4/22

Grand Island Resources LLC Ship To:

Attention: Brooke Molson-Moran

65 Arikaree Circle

Nederland CO 80466

Shipping Options:

Customer Pickup Ship Via:

Cooler: Yes

Chain of Custody

Drinking Water:

Standard: 1

Customer Needs By: 5/4/23

Ships From: Lakewood

Verify All Shipping Addresses

Project:

Monthly Groundwater

Qty. 8	Bottle / Preservative / Test 1L - Unpreserved Gross Alpha/Beta (Sub) - Water - Ground
8	500 ml Cylinder - HNO3 Hg - Water - Ground Metals (Sub) - Water - Ground
8	500 ml Cylinder - NaOH Cyanide - Free - Water - Ground

500 ml Cylinder - Unpreserved

Ag - Dis - Water - Ground

Al - Dis - Water - Ground

As - Dis - Water - Ground

B - Dis - Water - Ground

Ba - Dis - Water - Ground

Be - Dis - Water - Ground

Ca - Dis - Water - Ground

Cd - Dis - Water - Ground Chloride - Water - Ground

Co - Dis - Water - Ground

Cr - Dis - Water - Ground

Cu - Dis - Water - Ground

Internal	Shipping	Instr	<u>uctions:</u>

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507

^{**}Samples should be shipped or hand delivered the same day they are collected. Orders that require sub-lab analysis should be delivered to the lab Monday thru Wednesday only.**

Ship To:	Grand Island Resources LLC		Shipping Options:					
	65 Arikaree Circle	CAL Task	Ship Via: Customer Pickup Cooler: Yes					
	Nederland CO 80466	230516111	Drinking Water: Chain of Custody Standard: 1					
	Brooke Molson-Moran	ARF	Customer Needs By: 5/4/23 Ships From: Lakewood					
	Verify All Shipping Addres	sses	Project: Monthly Groundwater					
	, ,, ,							

Qty. Bottle / Preservative / Test Fe - Dis - Water - Ground Fluoride - Water - Ground Langelier Index - Water - Ground Mn - Dis - Water - Ground Mo - Dis - Water - Ground Ni - Dis - Water - Ground Nitrate Nitrogen - Water - Ground Nitrate/ Nitrite Nitrogen - Water - Ground Nitrite Nitrogen - Water - Ground Pb - Dis - Water - Ground Sb - Dis - Water - Ground Se - Dis - Water - Ground Sulfate - Water - Ground TI - Dis - Water - Ground U - Dis - Water - Ground V - Dis - Water - Ground

Zn - Dis - Water - Ground

Internal Shipping Instructions:	

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507

^{**}Samples should be shipped or hand delivered the same day they are collected. Orders that require sub-lab analysis should be delivered to the lab Monday thru Wednesday only.**



Customer ID: 20040H Account ID: Z01034 Lab Control ID: 23H01903 Received: May 17, 2023 Reported: Jun 27, 2023 Purchase Order No. None Received

Rebecca Manzanares Colorado Analytical Laboratories, Inc. 10411 Heinz Way Commerce City, CO 80640

ANALYTICAL REPORT

Report may only be copied in its entirety.
Results reported herein relate only to discrete samples submitted by the client. Hazen Research, Inc. does not warrant that the results are representative of anything other than the samples that were received in the laboratory

File: 23H01903 R1.pdf

: Royanns Sullivan
Roxanne Sullivan
Analytical Laboratories Director

An Employee-Owned Company



Lab Control ID: 23H01903 Received: May 17, 2023

> Reported: Jun 27, 2023 Purchase Order No. None Received

Customer ID: 20040H Account ID: Z01034

ANALYTICAL REPORT

Rebecca Manzanares Colorado Analytical Laboratories, Inc.

La	ab Sam	ple ID	23H01903-001					
Custom	er Sam	ple ID	230516111-0	1C - Month	ly Groundw	ater - Cross Well		
				sampled or	n 05/16/23 (@ 1300		
				Precision*	Detection		Analysis	
Parameter	Units	Code	Result	+/-	Limit	Method	Date / Time	Analyst
Gross Alpha	pCi/L	Т	0.6	1.2	0.1	SM 7110 B	6/19/23 @ 1444	KT
Gross Beta	pCi/L	Т	<3.2	2.3	3.2	SM 7110 B	6/19/23 @ 1444	KT

Customer Sample ID 23H01903-002 Customer Sample ID 230516111-02C - Monthly Groundwater - Compliance Well sampled on 05/16/23 @ 1330								
				Precision*	Detection		Analysis	
Parameter	Units	Code	Result	+/-	Limit	Method	Date / Time	Analyst
Gross Alpha	pCi/L	Т	1.3	1.4	0.1	SM 7110 B	6/19/23 @ 1446	KŤ
Gross Beta	pCi/L	T	<3.5	2.3	3.5	SM 7110 B	6/19/23 @ 1446	KT

La	ab Sam	ple ID	23H01903-003					
Custom	er Sam	ple ID	230516111-0	3C - Month	ly Groundw	ater - Compliance 02		
				sampled or	n 05/16/23 (@ 1330		
				Precision*	Detection		Analysis	
Parameter	Units	Code	Result	+/-	Limit	Method	Date / Time	Analyst
Gross Alpha	pCi/L	Т	<0.1	1.1	0.1	SM 7110 B	6/19/23 @ 1447	KT
Gross Beta	pCi/L	Т	<3.5	2.3	3.5	SM 7110 B	6/19/23 @ 1447	KT

La	ab Sam	ple ID	23H01903-004					
Custom	er Sam	iple ID	230516111-0	94C - Month	ly Groundw	ater - Compliance 03		
				sampled or	n 05/16/23 (@ 1330		
				Precision*	Detection		Analysis	
Parameter	Units	Code	Result	+/-	Limit	Method	Date / Time	Analyst
Gross Alpha	pCi/L	Т	0.7	1.0	0.1	SM 7110 B	6/19/23 @ 1448	KT
Gross Beta	pCi/L	Т	<3.4	2.1	3.4	SM 7110 B	6/19/23 @ 1448	KT

La Custom			23H01903-005 230516111- 0	5C - Month	ly Groundw	ater - Caribou Well		
				sampled or	05/16/23	@ 1130		
				Precision*	Detection		Analysis	
Parameter	Units	Code	Result	+/-	Limit	Method	Date / Time	Analyst
Gross Alpha	pCi/L	Т	<0.1	0.8	0.1	SM 7110 B	6/19/23 @ 1449	KT
Gross Beta	pCi/L	Т	<3.5	2.3	3.5	SM 7110 B	6/19/23 @ 1449	KT

Certification ID's: CO/EPA CO00008

File: 23H01903 R1.pdf

Codes: (T) = Total (D) = Dissolved (S) = Suspended (R) = Replicate Sample (AR) = As Received < = Less Than

^{*}Variability of the radioactive decay process (counting error) at the 95% confidence level, 1.96 sigma.

Customer ID: 20040H Account ID: Z01034 Lab Control ID: 23H01903 Received: May 17, 2023 Reported: Jun 27, 2023 Purchase Order No. None Received

ANALYTICAL REPORT

Rebecca Manzanares Colorado Analytical Laboratories, Inc.

La	ab Sam	ple ID	23H01903-006						
Customer Sample ID		ple ID	230516111-0	230516111-06C - Monthly Groundwater - Cross Portal					
	sampled on 05/16/23 @ 1215								
				Precision*	Detection		Analysis		
Parameter	Units	Code	Result	+/-	Limit	Method	Date / Time	Analyst	
Gross Alpha	pCi/L	Т	1.6	1.5	0.1	SM 7110 B	6/19/23 @ 1450	KT	
Gross Beta	pCi/L	Т	3.3	2.5	3.0	SM 7110 B	6/19/23 @ 1450	KT	

Lab Sample ID 2 Customer Sample ID				7C - Month	ly Groundw	ater - Caribou Portal		
	sampled on 05/16/23 @ 1115							
				Precision*	Detection		Analysis	
Parameter	Units	Code	Result	+/-	Limit	Method	Date / Time	Analyst
Gross Alpha	pCi/L	T	0.9	1.2	0.1	SM 7110 B	6/19/23 @ 1451	KT
Gross Beta	pCi/L	Т	<3.2	2.6	3.2	SM 7110 B	6/19/23 @ 1451	KT

La	ab Sam	ple ID	23H01903-008					
Customer Sample ID		230516111-0	8C - Month	ly Groundw	ater - Caribou 02			
	sampled on 05/16/23 @ 1115							
				Precision*	Detection		Analysis	
Parameter	Units	Code	Result	+/-	Limit	Method	Date / Time	Analyst
Gross Alpha	pCi/L	Т	0.1	0.9	0.1	SM 7110 B	6/19/23 @ 1452	KT
Gross Beta	pCi/L	Т	<3.2	2.4	3.2	SM 7110 B	6/19/23 @ 1452	KT

La	ab Sam	ple ID	23H01903-009						
Customer Sample ID		ple ID	230516111-0	230516111-09C - Monthly Groundwater - Caribou 03					
	sampled on 05/16/23 @ 1115								
				Precision*	Detection		Analysis		
Parameter	Units	Code	Result	+/-	Limit	Method	Date / Time	Analyst	
Gross Alpha	pCi/L	Т	0.5	0.9	0.1	SM 7110 B	6/19/23 @ 1453	KT	
Gross Beta	pCi/L	Т	<3.1	2.3	3.1	SM 7110 B	6/19/23 @ 1453	KT	

Certification ID's: CO/EPA CO00008

File: 23H01903 R1.pdf

Codes: (T) = Total (D) = Dissolved (S) = Suspended (R) = Replicate Sample (AR) = As Received <= Less Than

An Employee-Owned Company

^{*}Variability of the radioactive decay process (counting error) at the 95% confidence level, 1.96 sigma.

HAZEN RESEARCH, INC. RADIOCHEMISTRY LABORATORY

Batch QC Summary Form

Analyte: (Gross	Alpha
------------	-------	-------

Control Standard/LFB: ID: C11a-004 pCi/mL: 57.4 (use 1 diluted)

Spike Solution: ID: C11a-004 pCi/mL: 57.4 (use 1 mL)

Spike Recovery Calculation: Sample: Tap*

Calculation: (58.4) (1.000) - (0.5) (0.200) x 100 = 102%

Date:

06/16/2023

Batch QC Evaluation:

Parameter	Criteria	Pass	Fail	N/A
Control Std./LFB	+/- 30 %	Х		
Spike Recovery	70 - 130 %	Х		
Blank	< or = 3 x Uncertainty	Х		
Duplicate 1	95% confidence interval overlap	Х		
Duplicate 2 *	95% confidence interval overlap	х		

^{*} Required for batch size greater than 10 samples.

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\sim		JOIG	113

X	Batch QC Passes**
	Batch QC Fails
	Batch QC Passes, with exceptions**:
	Reruns Required:
	Narrativo

Batch Listing by Lab Control Number:

23H01851 23H01853 23H01875	
23H01901 23H01904	 Evaluator:
23H01906 23H01903	
201101303	 Michelle Stringer —
	 06/26/2023 Date

^{**}All QC data provided in this section of the report met the acceptance criteria specified in the analytical methods and procedures. State Maximum Contamination Levels (MCLs) are not evaluted in this report.

HAZEN RESEARCH, INC.	
RADIOCHEMISTRY LABORATOR	Y

Batch QC Summary Form

Analyte: Gross Beta

Control Standard/LFB: ID: C11a-004 pCi/mL: 44 (use 1 diluted)

Spike Solution: ID: C11a-004 pCi/mL: 44 (use 1 mL)

Spike Recovery Calculation: Sample: Tap*

Calculation: (43.9) (1.000) - (0.5) (0.200) x 100 = 100%

Date:

06/16/2023

Batch QC Evaluation:

Parameter	Criteria	Pass	Fail	N/A
Control Std./LFB	+/- 20 %	Х		
Spike Recovery	80 - 120 %	Х		
Blank	< or = 3 x Uncertainty	Х		
Duplicate 1	95% confidence interval overlap	Х		
Duplicate 2 *	95% confidence interval overlap	Х		

^{*} Required for batch size greater than 10 samples.

(\cdot)	ncli	usio	ne
\sim		JOIG	113

X	Batch QC Passes**
	Batch QC Fails
	Batch QC Passes, with exceptions**:
	Reruns Required:
	Narrative:

Batch Listing by Lab Control Number:

23H01851		
23H01853		
23H01875		
23H01901		
23H01904		Evaluator:
23H01906	<u> </u>	
23H01903		Mighalla Chaire
		Michelle Stringer —
		V
		06/26/2023
		Date

page 5 of 6

^{**}All QC data provided in this section of the report met the acceptance criteria specified in the analytical methods and procedures. State Maximum Contamination Levels (MCLs) are not evaluted in this report.

Date: Time:

Ship To: Hazen Research

23 HO19 03

Preserved: Y /(N) HNO3 Lot #:

> > ŝ ž Yes Yes Date Preserved: Monthly Groundwater Submit Data to CDPHE: Compliance Samples: Project Name 230516111 CAL TASK ARF Bill To Information (If different from report to) Address: stuartnielson@coloradolab.com Company Name: Colorado Analytical Laboratory LABORATORIES, INC. Stuart Nielson Commerce City, CO 80640 303-659-2313 Report To Information 10411 Heinz Way Report To: Address: E-Mail: Phone:

Tests Requested

	Container Type	1L - Unpreserved	1L - Unpreserved	1L - Unpreserved	1L - Unpreserved	1L - Unpreserved	1L - Unpreserved	1L - Unpreserved	1L - Unpreserved	1L - Unpreserved	115 (23 1400 BK 177 (73 1950 BK ED MAY 17 2023	, , , ,
	Con			11						11	PYTSTYNATION & TON 5 118 173 1400 BILL A 11 PYTSTYLL ON 5 177 173 1550 BILL A 11 PYTSTYLL RECEIVED MAY 17 2023 3	
Gross Alpha/Beta (Si	Matrix (q	ymn y	y.'. pund	- Suna	X	y puna	✓ puno	puno	, pund	pund X		
	Sample ID	01C - Cross Well Water - Ground	1:30 PM 230516111-02C - Compliance Well Water - Ground	03C - Compliance 02 Water - Ground	04C - Compliance 03 Water - Ground	05C - Caribou Well Water - Ground	06C - Cross Portal Water - Ground	07C - Caribou Portal Water - Ground	08C - Caribou 02 Water - Ground	09C - Caribou 03 Water - Ground		
	Sample Date/Time	5/16/23 1:00 PM 230516111-01C - Cross Well	5/16/23 1:30 PM 230516111-0	5/16/23 1:30 PM 230516111-03C - Compliance 02	5/16/23 1:30 PM 230516111-04C - Compliance 03	5/16/23 11:30 AM 230516111-05C - Caribou Well	5/16/23 12:15 PM 230516111-06C - Cross Portal	5/16/23 11:15 AM 230516111-07C - Caribou Portal	5/16/23 11:15 AM 230516111-08C - Caribou 02	5/16/23 11:15 AM 230516111-09C - Caribou 03	Comment:	

RECEIVED MAY 16 2023 Received by: Time: Date: Relinquished by: (Signature) Time: Date: Received by: (Signature) 5/17/23 1100 Date: Time: Relinquished by: Signature)

page 6 of 6

APPENDIX A.3 JUNE 2023 GROUNDWATER AND EFFLUENT ANALYTICAL RESULTS



TASK NO: 230614146

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230614146

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 6/14/23 Date Reported: 7/24/23

Matrix: Water - Ground

Customer Sample ID Cross Well

Sample Date/Time: 6/14/23 1:00 PM

Lab Number: 230614146-01

Test	Result / Units	Method	RL	MDL	Date Analyzed	QC Batch ID	Analyzed By
Chloride	3.11 mg/L	EPA 300.0	0.10	0.013	6/14/23	QC65721	AMJ
Cyanide-Free	ND mg/L	ASTM D4282-15	0.005	0.0005	6/16/23	QC65771	DN
Fluoride	ND mg/L	EPA 300.0	1.00	0.024	6/14/23	QC65723	AMJ
Nitrate Nitrogen	ND mg/L	EPA 300.0	0.50	0.02	6/14/23	QC65724	AMJ
Nitrate/ Nitrite Nitrogen	0.37 mg/L	Calculation	0.05	0.02	6/16/23	-	AMJ
Nitrite Nitrogen	ND mg/L	EPA 300.0	0.30	0.01	6/14/23	QC65725	AMJ
Sulfate	10.48 mg/L	EPA 300.0	0.10	0.02	6/14/23	QC65726	AMJ
<u>Dissolved</u>							
Mercury	ND mg/L	EPA 245.7	0.0002	0.00002	6/20/23	QC65820	MAT
Aluminum	ND mg/L	EPA 200.8	0.001	0.00003	6/19/23	QC65774	MBN
Antimony	ND mg/L	EPA 200.8	0.0012	0.00012	6/19/23	QC65774	MBN
Arsenic	ND mg/L	EPA 200.8	0.0006	0.00006	6/19/23	QC65774	MBN
Barium	0.0306 mg/L	EPA 200.8	0.0007	0.00007	6/19/23	QC65774	MBN
Beryllium	ND mg/L	EPA 200.8	0.0001	0.000008	6/19/23	QC65774	MBN
Cadmium	0.0001 mg/L	EPA 200.8	0.0001	0.000006	6/19/23	QC65774	MBN
Chromium	ND mg/L	EPA 200.8	0.0015	0.00015	6/19/23	QC65774	MBN
Cobalt	ND mg/L	EPA 200.8	0.0002	0.00005	6/19/23	QC65774	MBN
Copper	0.0022 mg/L	EPA 200.8	0.0008	0.00001	6/19/23	QC65774	MBN
Lead	0.0008 mg/L	EPA 200.8	0.0001	0.000006	6/19/23	QC65774	MBN
Manganese	0.0051 mg/L	EPA 200.8	0.0008	0.00001	6/19/23	QC65774	MBN
Molybdenum	0.0023 mg/L	EPA 200.8	0.0005	0.00005	6/19/23	QC65774	MBN
Nickel	ND mg/L	EPA 200.8	0.0009	0.00005	6/19/23	QC65774	MBN
Selenium	ND mg/L	EPA 200.8	0.0008	0.00008	6/19/23	QC65774	MBN
Silver	ND mg/L	EPA 200.8	0.0005	0.000003	6/19/23	QC65774	MBN

Abbreviations/ References:

RL = Reporting Limit = Minimum Level MDL = Method Detection Limit mg/L = Milligrams Per Liter or PPM

ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls

Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations.

(s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable



TASK NO: 230614146

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230614146

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 6/14/23

Date Reported: 7/24/23

Matrix: Water - Ground

Customer Sample ID Cross Well

Sample Date/Time: 6/14/23 1:00 PM

Lab Number: 230614146-01

Test	Result / Units	Method	RL	MDL	Date Analyzed	QC Batch ID	Analyzed By
<u>Dissolved</u>							
Thallium	ND mg/L	EPA 200.8	0.0002	0.000003	6/19/23	QC65774	MBN
Uranium	ND mg/L	EPA 200.8	0.0002	0.000002	6/19/23	QC65774	MBN
Vanadium	ND mg/L	EPA 200.8	0.001	0.0001	6/19/23	QC65774	MBN
Zinc	1.31 mg/L	EPA 200.8	0.001	0.00003	6/19/23	QC65774	MBN
Boron	ND mg/L	EPA 200.7	0.05	0.01	6/16/23	QC65753	MBN
Calcium	21.0 mg/L	EPA 200.7	0.1	0.01	6/16/23	QC65753	MBN
Iron	0.080 mg/L	EPA 200.7	0.005	0.0005	6/16/23	QC65753	MBN

Dissolved Metals filtered in the field by the customer

Abbreviations/ References:

RL = Reporting Limit = Minimum Level MDL = Method Detection Limit mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB

mpn/100 mls = Most Probable Number Index/ 100 mls

Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations.

(s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable



TASK NO: 230614146

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230614146

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 6/14/23 Date Reported: 7/24/23

Matrix: Water - Ground

Customer Sample ID Compliance Well

Sample Date/Time: 6/14/23

Lab Number: 230614146-02

Test	Result / Units	Method	RL	MDL	Date Analyzed	QC Batch ID	Analyzed By
Chloride	0.65 mg/L	EPA 300.0	0.10	0.013	6/14/23	QC65721	AMJ
Cyanide-Free	ND mg/L	ASTM D4282-15	0.005	0.0005	6/16/23	QC65771	DN
Fluoride	ND mg/L	EPA 300.0	1.00	0.024	6/14/23	QC65723	AMJ
Nitrate Nitrogen	ND mg/L	EPA 300.0	0.50	0.02	6/14/23	QC65724	AMJ
Nitrate/ Nitrite Nitrogen	0.18 mg/L	Calculation	0.05	0.02	6/16/23	-	AMJ
Nitrite Nitrogen	ND mg/L	EPA 300.0	0.30	0.01	6/14/23	QC65725	AMJ
Sulfate	3.70 mg/L	EPA 300.0	0.10	0.02	6/14/23	QC65726	AMJ
<u>Dissolved</u>							
Mercury	ND mg/L	EPA 245.7	0.0002	0.00002	6/20/23	QC65820	MAT
Aluminum	0.017 mg/L	EPA 200.8	0.001	0.00003	6/19/23	QC65774	MBN
Antimony	ND mg/L	EPA 200.8	0.0012	0.00012	6/19/23	QC65774	MBN
Arsenic	ND mg/L	EPA 200.8	0.0006	0.00006	6/19/23	QC65774	MBN
Barium	0.0267 mg/L	EPA 200.8	0.0007	0.00007	6/19/23	QC65774	MBN
Beryllium	ND mg/L	EPA 200.8	0.0001	0.000008	6/19/23	QC65774	MBN
Cadmium	ND mg/L	EPA 200.8	0.0001	0.000006	6/19/23	QC65774	MBN
Chromium	ND mg/L	EPA 200.8	0.0015	0.00015	6/19/23	QC65774	MBN
Cobalt	ND mg/L	EPA 200.8	0.0002	0.00005	6/19/23	QC65774	MBN
Copper	ND mg/L	EPA 200.8	0.0008	0.00001	6/19/23	QC65774	MBN
Lead	0.0002 mg/L	EPA 200.8	0.0001	0.000006	6/19/23	QC65774	MBN
Manganese	0.0084 mg/L	EPA 200.8	0.0008	0.00001	6/19/23	QC65774	MBN
Molybdenum	0.0040 mg/L	EPA 200.8	0.0005	0.00005	6/19/23	QC65774	MBN
Nickel	ND mg/L	EPA 200.8	0.0009	0.00005	6/19/23	QC65774	MBN
Selenium	ND mg/L	EPA 200.8	0.0008	0.00008	6/19/23	QC65774	MBN
Silver	ND mg/L	EPA 200.8	0.0005	0.000003	6/19/23	QC65774	MBN

Abbreviations/ References:

RL = Reporting Limit = Minimum Level MDL = Method Detection Limit mg/L = Milligrams Per Liter or PPM

ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls

Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations.

(s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable



TASK NO: 230614146

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230614146

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 6/14/23 Date Reported: 7/24/23

Matrix: Water - Ground

Customer Sample ID Compliance Well Sample Date/Time: 6/14/23 1:3

Lab Number: 230614146-02

Test	Result / Units	Method	RL	MDL	Date Analyzed	QC Batch ID	Analyzed By
Dissolved							
Thallium	ND mg/L	EPA 200.8	0.0002	0.000003	6/19/23	QC65774	MBN
Uranium	ND mg/L	EPA 200.8	0.0002	0.000002	6/19/23	QC65774	MBN
Vanadium	ND mg/L	EPA 200.8	0.001	0.0001	6/19/23	QC65774	MBN
Zinc	0.147 mg/L	EPA 200.8	0.001	0.00003	6/19/23	QC65774	MBN
Boron	ND mg/L	EPA 200.7	0.05	0.01	6/16/23	QC65753	MBN
Calcium	9.6 mg/L	EPA 200.7	0.1	0.01	6/16/23	QC65753	MBN
Iron	0.014 mg/L	EPA 200.7	0.005	0.0005	6/16/23	QC65753	MBN

Dissolved Metals filtered in the field by the customer

Abbreviations/ References:

RL = Reporting Limit = Minimum Level MDL = Method Detection Limit

mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB

mpn/100 mls = Most Probable Number Index/ 100 mls

Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations.

(s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable



TASK NO: 230614146

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230614146

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 6/14/23 Date Reported: 7/24/23

Matrix: Water - Ground

Customer Sample ID Compliance 02

Sample Date/Time: 6/14/23 1:30 PM

Lab Number: 230614146-03

Test	Result / Units	Method	RL	MDL	Date Analyzed	QC Batch ID	Analyzed By
Chloride	0.49 mg/L	EPA 300.0	0.10	0.013	6/14/23	QC65721	AMJ
Cyanide-Free	ND mg/L	ASTM D4282-15	0.005	0.0005	6/16/23	QC65771	DN
Fluoride	ND mg/L	EPA 300.0	1.00	0.024	6/14/23	QC65723	AMJ
Nitrate Nitrogen	ND mg/L	EPA 300.0	0.50	0.02	6/14/23	QC65724	AMJ
Nitrate/ Nitrite Nitrogen	0.18 mg/L	Calculation	0.05	0.02	6/16/23	-	AMJ
Nitrite Nitrogen	ND mg/L	EPA 300.0	0.30	0.01	6/14/23	QC65725	AMJ
Sulfate	3.90 mg/L	EPA 300.0	0.10	0.02	6/14/23	QC65726	AMJ
Dissolved							
Mercury	ND mg/L	EPA 245.7	0.0002	0.00002	6/20/23	QC65820	MAT
Aluminum	0.021 mg/L	EPA 200.8	0.001	0.00003	6/19/23	QC65774	MBN
Antimony	ND mg/L	EPA 200.8	0.0012	0.00012	6/19/23	QC65774	MBN
Arsenic	ND mg/L	EPA 200.8	0.0006	0.00006	6/19/23	QC65774	MBN
Barium	0.0261 mg/L	EPA 200.8	0.0007	0.00007	6/19/23	QC65774	MBN
Beryllium	ND mg/L	EPA 200.8	0.0001	0.000008	6/19/23	QC65774	MBN
Cadmium	ND mg/L	EPA 200.8	0.0001	0.000006	6/19/23	QC65774	MBN
Chromium	ND mg/L	EPA 200.8	0.0015	0.00015	6/19/23	QC65774	MBN
Cobalt	ND mg/L	EPA 200.8	0.0002	0.00005	6/19/23	QC65774	MBN
Copper	ND mg/L	EPA 200.8	0.0008	0.00001	6/19/23	QC65774	MBN
Lead	0.0002 mg/L	EPA 200.8	0.0001	0.000006	6/19/23	QC65774	MBN
Manganese	0.0082 mg/L	EPA 200.8	0.0008	0.00001	6/19/23	QC65774	MBN
Molybdenum	0.0040 mg/L	EPA 200.8	0.0005	0.00005	6/19/23	QC65774	MBN
Nickel	ND mg/L	EPA 200.8	0.0009	0.00005	6/19/23	QC65774	MBN
Selenium	ND mg/L	EPA 200.8	0.0008	0.00008	6/19/23	QC65774	MBN
Silver	ND mg/L	EPA 200.8	0.0005	0.000003	6/19/23	QC65774	MBN

Abbreviations/ References:

RL = Reporting Limit = Minimum Level MDL = Method Detection Limit mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB

mpn/100 mls = Most Probable Number Index/ 100 mls

Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations.

(s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable



TASK NO: 230614146

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230614146

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 6/14/23 Date Reported: 7/24/23

Matrix: Water - Ground

Customer Sample ID Compliance 02

Sample Date/Time: 6/14/23 1:30 PM

Lab Number: 230614146-03

Test	Result / Units	Method	RL	MDL	Date Analyzed	QC Batch ID	Analyzed By
Dissolved							
Thallium	ND mg/L	EPA 200.8	0.0002	0.000003	6/19/23	QC65774	MBN
Uranium	ND mg/L	EPA 200.8	0.0002	0.000002	6/19/23	QC65774	MBN
Vanadium	ND mg/L	EPA 200.8	0.001	0.0001	6/19/23	QC65774	MBN
Zinc	0.144 mg/L	EPA 200.8	0.001	0.00003	6/19/23	QC65774	MBN
Boron	ND mg/L	EPA 200.7	0.05	0.01	6/16/23	QC65753	MBN
Calcium	9.5 mg/L	EPA 200.7	0.1	0.01	6/16/23	QC65753	MBN
Iron	0.019 mg/L	EPA 200.7	0.005	0.0005	6/16/23	QC65753	MBN

Dissolved Metals filtered in the field by the customer

Abbreviations/ References:

RL = Reporting Limit = Minimum Level MDL = Method Detection Limit mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls

Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations. (s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable



TASK NO: 230614146

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230614146

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 6/14/23 Date Reported: 7/24/23

Matrix: Water - Ground

Customer Sample ID Compliance 03

Sample Date/Time: 6/14/23 1:30 PM

Lab Number: 230614146-04

Test	Result / Units	Method	RL	MDL	Date Analyzed	QC Batch ID	Analyzed By
	_						
Chloride	ND mg/L	EPA 300.0	0.10	0.013	6/14/23	QC65721	AMJ
Cyanide-Free	ND mg/L	ASTM D4282-15	0.005	0.0005	6/16/23	QC65771	DN
Fluoride	ND mg/L	EPA 300.0	1.00	0.024	6/14/23	QC65723	AMJ
Nitrate Nitrogen	ND mg/L	EPA 300.0	0.50	0.02	6/14/23	QC65724	AMJ
Nitrate/ Nitrite Nitrogen	ND mg/L	Calculation	0.05	0.02	6/16/23	-	AMJ
Nitrite Nitrogen	ND mg/L	EPA 300.0	0.30	0.01	6/14/23	QC65725	AMJ
Sulfate	ND mg/L	EPA 300.0	0.10	0.02	6/14/23	QC65726	AMJ
<u>Dissolved</u>							
Mercury	ND mg/L	EPA 245.7	0.0002	0.00002	6/20/23	QC65820	MAT
Aluminum	ND mg/L	EPA 200.8	0.001	0.00003	6/19/23	QC65774	MBN
Antimony	ND mg/L	EPA 200.8	0.0012	0.00012	6/19/23	QC65774	MBN
Arsenic	ND mg/L	EPA 200.8	0.0006	0.00006	6/19/23	QC65774	MBN
Barium	ND mg/L	EPA 200.8	0.0007	0.00007	6/19/23	QC65774	MBN
Beryllium	ND mg/L	EPA 200.8	0.0001	0.000008	6/19/23	QC65774	MBN
Cadmium	ND mg/L	EPA 200.8	0.0001	0.000006	6/19/23	QC65774	MBN
Chromium	ND mg/L	EPA 200.8	0.0015	0.00015	6/19/23	QC65774	MBN
Cobalt	ND mg/L	EPA 200.8	0.0002	0.00005	6/19/23	QC65774	MBN
Copper	ND mg/L	EPA 200.8	0.0008	0.00001	6/19/23	QC65774	MBN
Lead	ND mg/L	EPA 200.8	0.0001	0.000006	6/19/23	QC65774	MBN
Manganese	ND mg/L	EPA 200.8	0.0008	0.00001	6/19/23	QC65774	MBN
Molybdenum	ND mg/L	EPA 200.8	0.0005	0.00005	6/19/23	QC65774	MBN
Nickel	ND mg/L	EPA 200.8	0.0009	0.00005	6/19/23	QC65774	MBN
Selenium	ND mg/L	EPA 200.8	0.0008	0.00008	6/19/23	QC65774	MBN
Silver	ND mg/L	EPA 200.8	0.0005	0.000003	6/19/23	QC65774	MBN

Abbreviations/ References:

RL = Reporting Limit = Minimum Level MDL = Method Detection Limit mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB

mpn/100 mls = Most Probable Number Index/ 100 mls

Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations.

(s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable



TASK NO: 230614146

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230614146

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 6/14/23 Date Reported: 7/24/23

Matrix: Water - Ground

Customer Sample ID Compliance 03

Sample Date/Time: 6/14/23 1:30 PM

Lab Number: 230614146-04

Test	Result / Units	Method	RL	MDL	Date Analyzed	QC Batch ID	Analyzed By
Dissolved							
Thallium	ND mg/L	EPA 200.8	0.0002	0.000003	6/19/23	QC65774	MBN
Uranium	ND mg/L	EPA 200.8	0.0002	0.000002	6/19/23	QC65774	MBN
Vanadium	ND mg/L	EPA 200.8	0.001	0.0001	6/19/23	QC65774	MBN
Zinc	ND mg/L	EPA 200.8	0.001	0.00003	6/19/23	QC65774	MBN
Boron	ND mg/L	EPA 200.7	0.05	0.01	6/16/23	QC65753	MBN
Calcium	ND mg/L	EPA 200.7	0.1	0.01	6/16/23	QC65753	MBN
Iron	ND mg/L	EPA 200.7	0.005	0.0005	6/16/23	QC65753	MBN

Dissolved Metals filtered in the field by the customer

Abbreviations/ References:

RL = Reporting Limit = Minimum Level
MDL = Method Detection Limit
mg/L = Milligrams Per Liter or PPM
ug/L = Micrograms Per Liter or PPB
mpn/100 mls = Most Probable Number Index/ 100 mls
Date Analyzed = Date Test Completed

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TASK NO: 230614146

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230614146

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 6/14/23 Date Reported: 7/24/23

Matrix: Water - Ground

Customer Sample ID Caribou Well

Sample Date/Time: 6/14/23 11:30 AM

Lab Number: 230614146-05

Test	Result / Units	Method	RL	MDL	Date Analyzed	QC Batch ID	Analyzed By
Chloride	0.47 mg/L	EPA 300.0	0.10	0.013	6/15/23	QC65721	AMJ
Cyanide-Free	ND mg/L	ASTM D4282-15	0.005	0.0005	6/16/23	QC65771	DN
Fluoride	ND mg/L	EPA 300.0	1.00	0.024	6/15/23	QC65723	AMJ
Nitrate Nitrogen	ND mg/L	EPA 300.0	0.50	0.02	6/15/23	QC65724	AMJ
Nitrate/ Nitrite Nitrogen	0.16 mg/L	Calculation	0.05	0.02	6/16/23	-	AMJ
Nitrite Nitrogen	ND mg/L	EPA 300.0	0.30	0.01	6/15/23	QC65725	AMJ
Sulfate	2.80 mg/L	EPA 300.0	0.10	0.02	6/15/23	QC65726	AMJ
<u>Dissolved</u>							
Mercury	ND mg/L	EPA 245.7	0.0002	0.00002	6/20/23	QC65820	MAT
Aluminum	0.022 mg/L	EPA 200.8	0.001	0.00003	6/19/23	QC65774	MBN
Antimony	ND mg/L	EPA 200.8	0.0012	0.00012	6/19/23	QC65774	MBN
Arsenic	ND mg/L	EPA 200.8	0.0006	0.00006	6/19/23	QC65774	MBN
Barium	0.0064 mg/L	EPA 200.8	0.0007	0.00007	6/19/23	QC65774	MBN
Beryllium	ND mg/L	EPA 200.8	0.0001	0.000008	6/19/23	QC65774	MBN
Cadmium	ND mg/L	EPA 200.8	0.0001	0.000006	6/19/23	QC65774	MBN
Chromium	ND mg/L	EPA 200.8	0.0015	0.00015	6/19/23	QC65774	MBN
Cobalt	ND mg/L	EPA 200.8	0.0002	0.00005	6/19/23	QC65774	MBN
Copper	0.2949 mg/L	EPA 200.8	0.0008	0.00001	6/19/23	QC65774	MBN
Lead	0.0005 mg/L	EPA 200.8	0.0001	0.000006	6/19/23	QC65774	MBN
Manganese	0.0023 mg/L	EPA 200.8	0.0008	0.00001	6/19/23	QC65774	MBN
Molybdenum	ND mg/L	EPA 200.8	0.0005	0.00005	6/19/23	QC65774	MBN
Nickel	ND mg/L	EPA 200.8	0.0009	0.00005	6/19/23	QC65774	MBN
Selenium	ND mg/L	EPA 200.8	0.0008	0.00008	6/19/23	QC65774	MBN
Silver	ND mg/L	EPA 200.8	0.0005	0.000003	6/19/23	QC65774	MBN

Abbreviations/ References:

RL = Reporting Limit = Minimum Level MDL = Method Detection Limit mg/L = Milligrams Per Liter or PPM

ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls

Date Analyzed = Date Test Completed

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(s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable



TASK NO: 230614146

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230614146

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 6/14/23 Date Reported: 7/24/23

Matrix: Water - Ground

Customer Sample ID Caribou Well

Sample Date/Time: 6/14/23 11:30 AM

Lab Number: 230614146-05

Test	Result / Units	Method	RL	MDL	Date Analyzed	QC Batch ID	Analyzed By
Dissolved							
Thallium	ND mg/L	EPA 200.8	0.0002	0.000003	6/19/23	QC65774	MBN
Uranium	ND mg/L	EPA 200.8	0.0002	0.000002	6/19/23	QC65774	MBN
Vanadium	ND mg/L	EPA 200.8	0.001	0.0001	6/19/23	QC65774	MBN
Zinc	0.005 mg/L	EPA 200.8	0.001	0.00003	6/19/23	QC65774	MBN
Boron	ND mg/L	EPA 200.7	0.05	0.01	6/16/23	QC65753	MBN
Calcium	4.0 mg/L	EPA 200.7	0.1	0.01	6/16/23	QC65753	MBN
Iron	0.020 mg/L	EPA 200.7	0.005	0.0005	6/16/23	QC65753	MBN

Dissolved Metals filtered in the field by the customer

Abbreviations/ References:

RL = Reporting Limit = Minimum Level MDL = Method Detection Limit mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB

mpn/100 mls = Most Probable Number Index/ 100 mls

Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations.

(s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable



TASK NO: 230614146

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230614146

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 6/14/23 Date Reported: 7/24/23

Matrix: Water - Ground

Customer Sample ID Cross Portal

Sample Date/Time: 6/14/23 12:15 PM

Lab Number: 230614146-06

Test	Result / Units	Method	RL	MDL	Date Analyzed	QC Batch ID	Analyzed By
Chloride	0.88 mg/L	EPA 300.0	0.10	0.013	6/15/23	QC65721	AMJ
Cyanide-Free	ND mg/L	ASTM D4282-15	0.005	0.0005	6/16/23	QC65771	DN
Fluoride	ND mg/L	EPA 300.0	1.00	0.024	6/15/23	QC65723	AMJ
Nitrate Nitrogen	ND mg/L	EPA 300.0	0.50	0.02	6/15/23	QC65724	AMJ
Nitrate/ Nitrite Nitrogen	0.18 mg/L	Calculation	0.05	0.02	6/16/23	-	AMJ
Nitrite Nitrogen	ND mg/L	EPA 300.0	0.30	0.01	6/15/23	QC65725	AMJ
Sulfate	7.70 mg/L	EPA 300.0	0.10	0.02	6/15/23	QC65726	AMJ
<u>Dissolved</u>							
Mercury	ND mg/L	EPA 245.7	0.0002	0.00002	6/20/23	QC65820	MAT
Aluminum	0.015 mg/L	EPA 200.8	0.001	0.00003	6/19/23	QC65774	MBN
Antimony	ND mg/L	EPA 200.8	0.0012	0.00012	6/19/23	QC65774	MBN
Arsenic	ND mg/L	EPA 200.8	0.0006	0.00006	6/19/23	QC65774	MBN
Barium	0.0431 mg/L	EPA 200.8	0.0007	0.00007	6/19/23	QC65774	MBN
Beryllium	ND mg/L	EPA 200.8	0.0001	0.000008	6/19/23	QC65774	MBN
Cadmium	0.0010 mg/L	EPA 200.8	0.0001	0.000006	6/19/23	QC65774	MBN
Chromium	ND mg/L	EPA 200.8	0.0015	0.00015	6/19/23	QC65774	MBN
Cobalt	ND mg/L	EPA 200.8	0.0002	0.00005	6/19/23	QC65774	MBN
Copper	0.0024 mg/L	EPA 200.8	0.0008	0.00001	6/19/23	QC65774	MBN
Lead	0.0018 mg/L	EPA 200.8	0.0001	0.000006	6/19/23	QC65774	MBN
Manganese	0.0085 mg/L	EPA 200.8	0.0008	0.00001	6/19/23	QC65774	MBN
Molybdenum	0.0030 mg/L	EPA 200.8	0.0005	0.00005	6/19/23	QC65774	MBN
Nickel	ND mg/L	EPA 200.8	0.0009	0.00005	6/19/23	QC65774	MBN
Selenium	ND mg/L	EPA 200.8	0.0008	0.00008	6/19/23	QC65774	MBN
Silver	ND mg/L	EPA 200.8	0.0005	0.000003	6/19/23	QC65774	MBN

Abbreviations/ References:

RL = Reporting Limit = Minimum Level MDL = Method Detection Limit mg/L = Milligrams Per Liter or PPM

ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls

Date Analyzed = Date Test Completed

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TASK NO: 230614146

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230614146

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 6/14/23 Date Reported: 7/24/23

Matrix: Water - Ground

Customer Sample ID Cross Portal

pie ib

Sample Date/Time: 6/14/23 12:15 PM

Lab Number: 230614146-06

Test	Result / Units	Method	RL	MDL	Date Analyzed	QC Batch ID	Analyzed By
Dissolved							
Thallium	ND mg/L	EPA 200.8	0.0002	0.000003	6/19/23	QC65774	MBN
Uranium	0.0004 mg/L	EPA 200.8	0.0002	0.000002	6/19/23	QC65774	MBN
Vanadium	ND mg/L	EPA 200.8	0.001	0.0001	6/19/23	QC65774	MBN
Zinc	0.215 mg/L	EPA 200.8	0.001	0.00003	6/19/23	QC65774	MBN
Boron	ND mg/L	EPA 200.7	0.05	0.01	6/16/23	QC65753	MBN
Calcium	17.3 mg/L	EPA 200.7	0.1	0.01	6/16/23	QC65753	MBN
Iron	0.017 mg/L	EPA 200.7	0.005	0.0005	6/16/23	QC65753	MBN

Dissolved Metals filtered in the field by the customer

Abbreviations/ References:

RL = Reporting Limit = Minimum Level MDL = Method Detection Limit

mg/L = Milligrams Per Liter or PPM

ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls

Date Analyzed = Date Test Completed

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TASK NO: 230614146

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230614146

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 6/14/23 Date Reported: 7/24/23

Matrix: Water - Ground

Customer Sample ID Caribou Portal

Sample Date/Time: 6/14/23 11:15 AM

Lab Number: 230614146-07

Test	Result / Units	Method	RL	MDL	Date Analyzed	QC Batch ID	Analyzed By
Chloride	0.38 mg/L	EPA 300.0	0.10	0.013	6/15/23	QC65721	AMJ
Cyanide-Free	ND mg/L	ASTM D4282-15	0.005	0.0005	6/16/23	QC65771	DN
Fluoride	ND mg/L	EPA 300.0	1.00	0.024	6/15/23	QC65723	AMJ
Nitrate Nitrogen	ND mg/L	EPA 300.0	0.50	0.02	6/15/23	QC65724	AMJ
Nitrate/ Nitrite Nitrogen	0.25 mg/L	Calculation	0.05	0.02	6/16/23	-	AMJ
Nitrite Nitrogen	ND mg/L	EPA 300.0	0.30	0.01	6/15/23	QC65725	AMJ
Sulfate	7.15 mg/L	EPA 300.0	0.10	0.02	6/15/23	QC65726	AMJ
<u>Dissolved</u>							
Mercury	ND mg/L	EPA 245.7	0.0002	0.00002	6/20/23	QC65820	MAT
Aluminum	0.028 mg/L	EPA 200.8	0.001	0.00003	6/19/23	QC65774	MBN
Antimony	ND mg/L	EPA 200.8	0.0012	0.00012	6/19/23	QC65774	MBN
Arsenic	ND mg/L	EPA 200.8	0.0006	0.00006	6/19/23	QC65774	MBN
Barium	0.0266 mg/L	EPA 200.8	0.0007	0.00007	6/19/23	QC65774	MBN
Beryllium	ND mg/L	EPA 200.8	0.0001	0.000008	6/19/23	QC65774	MBN
Cadmium	ND mg/L	EPA 200.8	0.0001	0.000006	6/19/23	QC65774	MBN
Chromium	ND mg/L	EPA 200.8	0.0015	0.00015	6/19/23	QC65774	MBN
Cobalt	ND mg/L	EPA 200.8	0.0002	0.00005	6/19/23	QC65774	MBN
Copper	ND mg/L	EPA 200.8	0.0008	0.00001	6/19/23	QC65774	MBN
Lead	0.0007 mg/L	EPA 200.8	0.0001	0.000006	6/19/23	QC65774	MBN
Manganese	0.0053 mg/L	EPA 200.8	0.0008	0.00001	6/19/23	QC65774	MBN
Molybdenum	0.0029 mg/L	EPA 200.8	0.0005	0.00005	6/19/23	QC65774	MBN
Nickel	ND mg/L	EPA 200.8	0.0009	0.00005	6/19/23	QC65774	MBN
Selenium	ND mg/L	EPA 200.8	0.0008	0.00008	6/19/23	QC65774	MBN
Silver	ND mg/L	EPA 200.8	0.0005	0.000003	6/19/23	QC65774	MBN

Abbreviations/ References:

RL = Reporting Limit = Minimum Level MDL = Method Detection Limit mg/L = Milligrams Per Liter or PPM

ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls

Date Analyzed = Date Test Completed

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TASK NO: 230614146

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230614146

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 6/14/23 Date Reported: 7/24/23

Matrix: Water - Ground

Customer Sample ID Caribou Portal

Sample Date/Time: 6/14/23 11:15 AM

Lab Number: 230614146-07

Test	Result / Units	Method	RL	MDL	Date Analyzed	QC Batch ID	Analyzed By
Dissolved							
Thallium	ND mg/L	EPA 200.8	0.0002	0.000003	6/19/23	QC65774	MBN
Uranium	0.0018 mg/L	EPA 200.8	0.0002	0.000002	6/19/23	QC65774	MBN
Vanadium	ND mg/L	EPA 200.8	0.001	0.0001	6/19/23	QC65774	MBN
Zinc	0.014 mg/L	EPA 200.8	0.001	0.00003	6/19/23	QC65774	MBN
Boron	ND mg/L	EPA 200.7	0.05	0.01	6/16/23	QC65753	MBN
Calcium	14.1 mg/L	EPA 200.7	0.1	0.01	6/16/23	QC65753	MBN
Iron	0.033 mg/L	EPA 200.7	0.005	0.0005	6/16/23	QC65753	MBN

Dissolved Metals filtered in the field by the customer

Abbreviations/ References:

RL = Reporting Limit = Minimum Level MDL = Method Detection Limit mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB

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TASK NO: 230614146

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230614146

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 6/14/23 Date Reported: 7/24/23

Matrix: Water - Ground

Customer Sample ID Caribou 02

Sample Date/Time: 6/14/23 11:15 AM

Lab Number: 230614146-08

Test	Result / Units	Method	RL	MDL	Date Analyzed	QC Batch ID	Analyzed By
Chloride	0.40 mg/L	EPA 300.0	0.10	0.013	6/15/23	QC65721	AMJ
Cyanide-Free	ND mg/L	ASTM D4282-15	0.005	0.0005	6/16/23	QC65771	DN
Fluoride	ND mg/L	EPA 300.0	1.00	0.024	6/15/23	QC65723	AMJ
Nitrate Nitrogen	ND mg/L	EPA 300.0	0.50	0.02	6/15/23	QC65724	AMJ
Nitrate/ Nitrite Nitrogen	0.27 mg/L	Calculation	0.05	0.02	6/16/23	-	AMJ
Nitrite Nitrogen	ND mg/L	EPA 300.0	0.30	0.01	6/15/23	QC65725	AMJ
Sulfate	6.50 mg/L	EPA 300.0	0.10	0.02	6/15/23	QC65726	AMJ
<u>Dissolved</u>							
Mercury	ND mg/L	EPA 245.7	0.0002	0.00002	6/20/23	QC65820	MAT
Aluminum	0.034 mg/L	EPA 200.8	0.001	0.00003	6/19/23	QC65774	MBN
Antimony	ND mg/L	EPA 200.8	0.0012	0.00012	6/19/23	QC65774	MBN
Arsenic	ND mg/L	EPA 200.8	0.0006	0.00006	6/19/23	QC65774	MBN
Barium	0.0263 mg/L	EPA 200.8	0.0007	0.00007	6/19/23	QC65774	MBN
Beryllium	ND mg/L	EPA 200.8	0.0001	0.000008	6/19/23	QC65774	MBN
Cadmium	ND mg/L	EPA 200.8	0.0001	0.000006	6/19/23	QC65774	MBN
Chromium	ND mg/L	EPA 200.8	0.0015	0.00015	6/19/23	QC65774	MBN
Cobalt	ND mg/L	EPA 200.8	0.0002	0.00005	6/19/23	QC65774	MBN
Copper	0.0008 mg/L	EPA 200.8	0.0008	0.00001	6/19/23	QC65774	MBN
Lead	0.0007 mg/L	EPA 200.8	0.0001	0.000006	6/19/23	QC65774	MBN
Manganese	0.0054 mg/L	EPA 200.8	0.0008	0.00001	6/19/23	QC65774	MBN
Molybdenum	0.0030 mg/L	EPA 200.8	0.0005	0.00005	6/19/23	QC65774	MBN
Nickel	ND mg/L	EPA 200.8	0.0009	0.00005	6/19/23	QC65774	MBN
Selenium	ND mg/L	EPA 200.8	0.0008	0.00008	6/19/23	QC65774	MBN
Silver	ND mg/L	EPA 200.8	0.0005	0.000003	6/19/23	QC65774	MBN

Abbreviations/ References:

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ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls

Date Analyzed = Date Test Completed

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TASK NO: 230614146

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230614146

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 6/14/23 Date Reported: 7/24/23

Matrix: Water - Ground

Customer Sample ID Caribou 02

Sample Date/Time: 6/14/23 11:15 AM

Lab Number: 230614146-08

Test	Result / Units	Method	RL	MDL	Date Analyzed	QC Batch ID	Analyzed By
<u>Dissolved</u>							
Thallium	ND mg/L	EPA 200.8	0.0002	0.000003	6/19/23	QC65774	MBN
Uranium	0.0018 mg/L	EPA 200.8	0.0002	0.000002	6/19/23	QC65774	MBN
Vanadium	ND mg/L	EPA 200.8	0.001	0.0001	6/19/23	QC65774	MBN
Zinc	0.015 mg/L	EPA 200.8	0.001	0.00003	6/19/23	QC65774	MBN
Boron	ND mg/L	EPA 200.7	0.05	0.01	6/16/23	QC65753	MBN
Calcium	14.1 mg/L	EPA 200.7	0.1	0.01	6/16/23	QC65753	MBN
Iron	0.035 mg/L	EPA 200.7	0.005	0.0005	6/16/23	QC65753	MBN

Dissolved Metals filtered in the field by the customer

Abbreviations/ References:

RL = Reporting Limit = Minimum Level MDL = Method Detection Limit mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB

mpn/100 mls = Most Probable Number Index/ 100 mls

Date Analyzed = Date Test Completed

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TASK NO: 230614146

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230614146

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 6/14/23 Date Reported: 7/24/23

Matrix: Water - Ground

Customer Sample ID Caribou 03

Sample Date/Time: 6/14/23 11:15 AM

Lab Number: 230614146-09

Test	Result / Units	Method	RL	MDL	Date Analyzed	QC Batch ID	Analyzed By
	_						
Chloride	ND mg/L	EPA 300.0	0.10	0.013	6/15/23	QC65721	AMJ
Cyanide-Free	ND mg/L	ASTM D4282-15	0.005	0.0005	6/16/23	QC65771	DN
Fluoride	ND mg/L	EPA 300.0	1.00	0.024	6/15/23	QC65723	AMJ
Nitrate Nitrogen	ND mg/L	EPA 300.0	0.50	0.02	6/15/23	QC65724	AMJ
Nitrate/ Nitrite Nitrogen	ND mg/L	Calculation	0.05	0.02	6/16/23	-	AMJ
Nitrite Nitrogen	ND mg/L	EPA 300.0	0.30	0.01	6/15/23	QC65725	AMJ
Sulfate	ND mg/L	EPA 300.0	0.10	0.02	6/15/23	QC65726	AMJ
<u>Dissolved</u>							
Mercury	ND mg/L	EPA 245.7	0.0002	0.00002	6/20/23	QC65820	MAT
Aluminum	ND mg/L	EPA 200.8	0.001	0.00003	6/19/23	QC65774	MBN
Antimony	ND mg/L	EPA 200.8	0.0012	0.00012	6/19/23	QC65774	MBN
Arsenic	ND mg/L	EPA 200.8	0.0006	0.00006	6/19/23	QC65774	MBN
Barium	ND mg/L	EPA 200.8	0.0007	0.00007	6/19/23	QC65774	MBN
Beryllium	ND mg/L	EPA 200.8	0.0001	0.000008	6/19/23	QC65774	MBN
Cadmium	ND mg/L	EPA 200.8	0.0001	0.000006	6/19/23	QC65774	MBN
Chromium	ND mg/L	EPA 200.8	0.0015	0.00015	6/19/23	QC65774	MBN
Cobalt	ND mg/L	EPA 200.8	0.0002	0.00005	6/19/23	QC65774	MBN
Copper	ND mg/L	EPA 200.8	0.0008	0.00001	6/19/23	QC65774	MBN
Lead	ND mg/L	EPA 200.8	0.0001	0.000006	6/19/23	QC65774	MBN
Manganese	ND mg/L	EPA 200.8	0.0008	0.00001	6/19/23	QC65774	MBN
Molybdenum	ND mg/L	EPA 200.8	0.0005	0.00005	6/19/23	QC65774	MBN
Nickel	ND mg/L	EPA 200.8	0.0009	0.00005	6/19/23	QC65774	MBN
Selenium	ND mg/L	EPA 200.8	0.0008	0.00008	6/19/23	QC65774	MBN
Silver	ND mg/L	EPA 200.8	0.0005	0.000003	6/19/23	QC65774	MBN

Abbreviations/ References:

RL = Reporting Limit = Minimum Level MDL = Method Detection Limit mg/L = Milligrams Per Liter or PPM

ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls

Date Analyzed = Date Test Completed

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(s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable



TASK NO: 230614146

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230614146

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 6/14/23 Date Reported: 7/24/23

Matrix: Water - Ground

Customer Sample ID Caribou 03

Sample Date/Time: 6/14/23 11:15 AM

Lab Number: 230614146-09

Test	Result / Units	Method	RL	MDL	Date Analyzed	QC Batch ID	Analyzed By
Dissolved							
Thallium	ND mg/L	EPA 200.8	0.0002	0.000003	6/19/23	QC65774	MBN
Uranium	ND mg/L	EPA 200.8	0.0002	0.000002	6/19/23	QC65774	MBN
Vanadium	ND mg/L	EPA 200.8	0.001	0.0001	6/19/23	QC65774	MBN
Zinc	ND mg/L	EPA 200.8	0.001	0.00003	6/19/23	QC65774	MBN
Boron	ND mg/L	EPA 200.7	0.05	0.01	6/16/23	QC65753	MBN
Calcium	ND mg/L	EPA 200.7	0.1	0.01	6/16/23	QC65753	MBN
Iron	ND mg/L	EPA 200.7	0.005	0.0005	6/16/23	QC65753	MBN

Dissolved Metals filtered in the field by the customer

Abbreviations/ References:

RL = Reporting Limit = Minimum Level MDL = Method Detection Limit mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB

mpn/100 mls = Most Probable Number Index/ 100 mls

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Analytical QC Summary

TASK NO: 230614146

Report To: Patrick Delaney

Company: Grand Island Resources LLC

Receive Date: 6/14/23

Project Name: Monthly Groundwater

Test	QC Batch ID	QC Type	Result		Method	Prep Date
Chloride	QC65721	Blank	ND	•	EPA 300.0	6/14/23
Cyanide-Free	QC65771	Blank	ND	Α	STM D4282-15	6/16/23
Fluoride	QC65723	Blank	ND		EPA 300.0	6/14/23
Mercury	QC65820	Method Blank	ND		EPA 245.7	6/20/23
Aluminum	QC65774	Method Blank	ND		EPA 200.8	6/14/23
Antimony	QC65774	Method Blank	ND		EPA 200.8	6/14/23
Arsenic	QC65774	Method Blank	ND		EPA 200.8	6/14/23
Barium	QC65774	Method Blank	ND		EPA 200.8	6/14/23
Beryllium	QC65774	Method Blank	ND		EPA 200.8	6/14/23
Cadmium	QC65774	Method Blank	ND		EPA 200.8	6/14/23
Chromium	QC65774	Method Blank	ND		EPA 200.8	6/14/23
Cobalt	QC65774	Method Blank	ND		EPA 200.8	6/14/23
Copper	QC65774	Method Blank	ND		EPA 200.8	6/14/23
_ead	QC65774	Method Blank	ND		EPA 200.8	6/14/23
Vanganese	QC65774	Method Blank	ND		EPA 200.8	6/14/23
Molybdenum	QC65774	Method Blank	ND		EPA 200.8	6/14/23
Nickel	QC65774	Method Blank	ND		EPA 200.8	6/14/23
Selenium	QC65774	Method Blank	ND		EPA 200.8	6/14/23
Silver	QC65774	Method Blank	ND		EPA 200.8	6/14/23
Гhallium	QC65774	Method Blank	ND		EPA 200.8	6/14/23
Jranium	QC65774	Method Blank	ND		EPA 200.8	6/14/23
Vanadium	QC65774	Method Blank	ND		EPA 200.8	6/14/23
Zinc	QC65774	Method Blank	ND		EPA 200.8	6/14/23
Boron	QC65753	Method Blank	ND		EPA 200.7	6/14/23
Calcium	QC65753	Method Blank	ND		EPA 200.7	6/14/23
ron	QC65753	Method Blank	ND		EPA 200.7	6/14/23
Nitrate Nitrogen	QC65724	Blank	ND		EPA 300.0	6/14/23
Nitrite Nitrogen	QC65725	Blank	ND		EPA 300.0	6/14/23
Sulfate	QC65726	Blank	ND		EPA 300.0	6/14/23
Test	QC Batch ID	QC Type	Limits	% Rec	RPD	Method
Chloride	QC65721	Duplicate	0 - 20	-	1.9	EPA 300.0
		LCS	90 - 110	100.1	-	
		MS	75 - 125	99.7	-	
Cyanide-Free	QC65771	Duplicate	0 - 20	-	0.0	ASTM D4282-15
-		LCS	90 - 110	94.6	-	
		MS	75 - 125	104.8	-	
		-				
Fluoride	QC65723	Duplicate	0 - 20	-	5.7	EPA 300.0
_ Fluoride	QC65723	Duplicate LCS	0 - 20 90 - 110	- 100.0	5.7 -	EPA 300.0
Fluoride	QC65723	LCS	90 - 110	- 100.0 96.5	5.7 - -	EPA 300.0
Fluoride	QC65723 QC65820	•		100.0 96.5	5.7 0.0	EPA 300.0 EPA 245.7

Abbreviations/ References:

RL = Reporting Limit = Minimum Level MDL = Method Detection Limit
mg/L = Milligrams Per Liter or PPM

ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls

Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations.

(s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable

Test	QC Batch ID	QC Type	Limits	% Rec	RPD	Method
	<u>'</u>	MS	80 - 120	88.0	-	
Aluminum	QC65774	LCS	90 - 110	109.0	-	EPA 200.8
		MS	70 - 130	116.9	-	
		MSD	0 - 10	-	2.6	
Antimony	QC65774	LCS	90 - 110	102.3	-	EPA 200.8
		MS	70 - 130	113.1	-	
		MSD	0 - 10	-	0.4	
Arsenic	QC65774	LCS	90 - 110	98.4	-	EPA 200.8
		MS	70 - 130	121.6	-	
		MSD	0 - 10	-	2.6	
Barium	QC65774	LCS	90 - 110	97.7	-	EPA 200.8
		MS	70 - 130	107.1	-	
		MSD	0 - 10	-	0.6	
Beryllium	QC65774	LCS	90 - 110	96.5	-	EPA 200.8
		MS	70 - 130	113.1	-	
		MSD	0 - 10	-	3.0	
Cadmium	QC65774	LCS	90 - 110	95.8	-	EPA 200.8
		MS	70 - 130	112.5	-	
		MSD	0 - 10	-	1.4	
Chromium	QC65774	LCS	90 - 110	102.0	-	EPA 200.8
		MS	70 - 130	113.9	-	
		MSD	0 - 10	-	0.3	
Cobalt	QC65774	LCS	90 - 110	104.2	-	EPA 200.8
		MS	70 - 130	112.2	-	
		MSD	0 - 10	-	0.8	
Copper	QC65774	LCS	90 - 110	99.2	-	EPA 200.8
		MS	70 - 130	115.5	-	
		MSD	0 - 10	-	0.9	
Lead	QC65774	LCS	90 - 110	95.5	-	EPA 200.8
		MS	70 - 130	102.9	-	
		MSD	0 - 10	-	2.9	
Manganese	QC65774	LCS	90 - 110	102.1	-	EPA 200.8
		MS	70 - 130	116.1	-	
		MSD	0 - 10	-	0.7	
Molybdenum	QC65774	LCS	90 - 110	96.7	=	EPA 200.8
		MS	70 - 130	105.4	-	
		MSD	0 - 10	-	2.4	
Nickel	QC65774	LCS	90 - 110	103.4	-	EPA 200.8
		MS	70 - 130	114.0	-	
		MSD	0 - 10	-	0.8	
Selenium	QC65774	LCS	90 - 110	98.5	-	EPA 200.8
		MS	70 - 130	116.6	-	
		MSD	0 - 10		2.5	
Silver	QC65774	LCS	90 - 110	90.3	-	EPA 200.8
		MS	70 - 130	93.7	-	
		MSD	0 - 10	-	8.0	
Thallium	QC65774	LCS	90 - 110	98.8	-	EPA 200.8
		MS	70 - 130	105.2	-	
		MSD	0 - 10		1.7	
Uranium	QC65774	LCS	90 - 110	94.9	-	EPA 200.8
		MS	70 - 130	96.9	-	

Abbreviations/ References:

RL = Reporting Limit = Minimum Level
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mg/L = Milligrams Per Liter or PPM
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mpn/100 mls = Most Probable Number Index/ 100 mls

Date Analyzed = Date Test Completed

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Test Test	QC Batch ID	QC Type	Limits	% Rec	RPD	Method
	'	MSD	0 - 10	-	3.5	
Vanadium	QC65774	LCS	90 - 110	102.3	-	EPA 200.8
		MS	70 - 130	115.7	-	
		MSD	0 - 10	-	1.3	
Zinc	QC65774	LCS	90 - 110	103.8	-	EPA 200.8
		MS	70 - 130	117.4	-	
		MSD	0 - 10	-	0.6	
Boron	QC65753	Duplicate	0 - 20	-	2.5	EPA 200.7
		LCS	90 - 110	100.9	-	
		MS	75 - 125	102.1	-	
Calcium	QC65753	Duplicate	0 - 20	-	1.2	EPA 200.7
		LCS	90 - 110	97.2	-	
		MS	75 - 125	97.4	-	
Iron	QC65753	Duplicate	0 - 20	-	3.2	EPA 200.7
		LCS	90 - 110	97.2	-	
		MS	75 - 125	96.0	-	
Nitrate Nitrogen	QC65724	Duplicate	0 - 20	-	2.6	EPA 300.0
		LCS	90 - 110	95.8	-	
		MS	75 - 125	87.5	-	
Nitrite Nitrogen	QC65725	Duplicate	0 - 20	-	0.0	EPA 300.0
		LCS	90 - 110	91.5	-	
		MS	75 - 125	93.4	-	
Sulfate	QC65726	Duplicate	0 - 20	-	0.4	EPA 300.0
		LCS	90 - 110	97.6	-	
		MS	75 - 125	95.5	-	

All analyses were performed in accordance with approved methods under the latest revision to 40 CFR Part 136 unless otherwise identified. Based on my inquiry of the person or persons directly responsible for analyzing the wastewater samples and generating the report (s), the analyses, report, and information submitted are, to the best of my knowledge and belief, true, accurate, and complete.

DATA APPROVED FOR RELEASE BY

Abbreviations/ References:

RL = Reporting Limit = Minimum Level
MDL = Method Detection Limit
mg/L = Milligrams Per Liter or PPM
ug/L = Micrograms Per Liter or PPB
mpn/100 mls = Most Probable Number Index/ 100 mls
Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations.(s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable

Chain of Custody Form

Report To Information	Bill To Information (If different from report to	Project Name / Number
Company Name: Grand Island Resou	MCC Company Name:	
Contact Name: Brooke Moran	Contact Name:	· · · · · · · · · · · · · · · · · · ·
Address: 12567 W. Cedar Rd Ste 2	Si Address:	Task Number (Lab Use Only)
city Lakewood State CO zip 8022		OAL Tools
Phone: 303-506-1618	Phone:	CAL Task 230614146
Email: bmolson m@g-emp	or Lemail: Cau	
Sample Collector: BM		JAK
Sample Collector Phone: 303-506-160	PO No.:	



Commerce City Lab 10411 Heinz Way Commerce City CO 80640

Lakewood Service Center 610 Garrison Street, Unit E Lakewood CO 80215

Phone: 303-659-2313

www.coloradolab.com

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TASK NO: 230614146

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230614146

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 6/14/23 Date Reported: 7/24/23

Matrix: Water - Ground

Customer Sample ID Cross Well

Sample Date/Time: 6/14/23 1:00 PM

Lab Number: 230614146-01

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Bicarbonate	75.5 mg/L as CaCO3	SM 2320-B	0.2 mg/L as CaCO3	6/19/23	-	DN
Calcium as CaCO3	52.2 mg/L	EPA 200.7	0.1 mg/L	6/16/23	-	MBN
Carbonate	ND mg/L as CaCO3	SM 2320-B	0.2 mg/L as CaCO3	6/19/23	-	DN
Hydroxide	ND mg/L as CaCO3	SM 2320-B	0.2 mg/L as CaCO3	6/19/23	-	DN
Langelier Index	-1.73 units	SM 2330-B	units	6/23/23	-	SAN
рН	6.45 units	SM 4500-H-B	0.01 units	6/14/23	-	AKF
Temperature	20 °C	SM 4500-H-B	1 °C	6/14/23	-	AKF
Total Alkalinity	75.5 mg/L as CaCO3	SM 2320-B	4.0 mg/L as CaCO3	6/19/23	QC65794	DN
Total Dissolved Solids	112 mg/L	SM 2540-C	5 mg/L	6/20/23	QC65797	ISG

Dissolved Metals filtered in the field by the customer

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations.

(s) Spike amount low relative to the sample amount.



TASK NO: 230614146

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230614146

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 6/14/23

Date Reported: 7/24/23

Matrix: Water - Ground

Customer Sample ID Compliance Well

Sample Date/Time: 6/14/23 1:30 PM

Lab Number: 230614146-02

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Bicarbonate	38.2 mg/L as CaCO3	SM 2320-B	0.2 mg/L as CaCO3	6/19/23	-	DN
Calcium as CaCO3	23.7 mg/L	EPA 200.7	0.1 mg/L	6/16/23	-	MBN
Carbonate	ND mg/L as CaCO3	SM 2320-B	0.2 mg/L as CaCO3	6/19/23	-	DN
Hydroxide	ND mg/L as CaCO3	SM 2320-B	0.2 mg/L as CaCO3	6/19/23	-	DN
Langelier Index	-2.19 units	SM 2330-B	units	6/23/23	-	SAN
рН	6.56 units	SM 4500-H-B	0.01 units	6/14/23	-	AKF
Temperature	20 °C	SM 4500-H-B	1 °C	6/14/23	-	AKF
Total Alkalinity	38.2 mg/L as CaCO3	SM 2320-B	4.0 mg/L as CaCO3	6/19/23	QC65794	DN
Total Dissolved Solids	55 mg/L	SM 2540-C	5 mg/L	6/20/23	QC65797	ISG

Dissolved Metals filtered in the field by the customer

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(d) RPD acceptable due to low duplicate and sample concentrations.

(s) Spike amount low relative to the sample amount.



TASK NO: 230614146

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230614146

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 6/14/23 Date Reported: 7/24/23

Matrix: Water - Ground

Customer Sample ID Compliance 02

Sample Date/Time: 6/14/23 1:30 PM

Lab Number: 230614146-03

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Bicarbonate	38.7 mg/L as CaCO3	SM 2320-B	0.2 mg/L as CaCO3	6/19/23	-	DN
Calcium as CaCO3	23.5 mg/L	EPA 200.7	0.1 mg/L	6/16/23	-	MBN
Carbonate	ND mg/L as CaCO3	SM 2320-B	0.2 mg/L as CaCO3	6/19/23	-	DN
Hydroxide	ND mg/L as CaCO3	SM 2320-B	0.2 mg/L as CaCO3	6/19/23	-	DN
Langelier Index	-2.14 units	SM 2330-B	units	6/23/23	-	SAN
рН	6.61 units	SM 4500-H-B	0.01 units	6/14/23	-	AKF
Temperature	20 °C	SM 4500-H-B	1 °C	6/14/23	-	AKF
Total Alkalinity	38.7 mg/L as CaCO3	SM 2320-B	4.0 mg/L as CaCO3	6/19/23	QC65794	DN
Total Dissolved Solids	45 mg/L	SM 2540-C	5 mg/L	6/20/23	QC65797	ISG

Dissolved Metals filtered in the field by the customer

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(d) RPD acceptable due to low duplicate and sample concentrations.

(s) Spike amount low relative to the sample amount.



TASK NO: 230614146

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230614146

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 6/14/23 Date Reported: 7/24/23

Matrix: Water - Ground

Customer Sample ID Compliance 03

Sample Date/Time: 6/14/23 1:30 PM

Lab Number: 230614146-04

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Bicarbonate	ND mg/L as CaCO3	SM 2320-B	0.2 mg/L as CaCO3	6/19/23	-	DN
Calcium as CaCO3	ND mg/L	EPA 200.7	0.1 mg/L	6/16/23	-	MBN
Carbonate	ND mg/L as CaCO3	SM 2320-B	0.2 mg/L as CaCO3	6/19/23	-	DN
Hydroxide	ND mg/L as CaCO3	SM 2320-B	0.2 mg/L as CaCO3	6/19/23	-	DN
Langelier Index	-6.39 units	SM 2330-B	units	6/23/23	-	SAN
рН	6.12 units	SM 4500-H-B	0.01 units	6/14/23	-	AKF
Temperature	20 °C	SM 4500-H-B	1 °C	6/14/23	-	AKF
Total Alkalinity	ND mg/L as CaCO3	SM 2320-B	4.0 mg/L as CaCO3	6/19/23	QC65794	DN
Total Dissolved Solids	ND mg/L	SM 2540-C	5 mg/L	6/20/23	QC65797	ISG

Dissolved Metals filtered in the field by the customer

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(d) RPD acceptable due to low duplicate and sample concentrations.

(s) Spike amount low relative to the sample amount.



TASK NO: 230614146

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230614146

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 6/14/23 Date Reported: 7/24/23

Matrix: Water - Ground

Customer Sample ID Caribou Well

11:30 AM Sample Date/Time: 6/14/23

Lab Number: 230614146-05

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Bicarbonate	18.0 mg/L as CaCO3	SM 2320-B	0.2 mg/L as CaCO3	6/19/23	-	DN
Calcium as CaCO3	9.7 mg/L	EPA 200.7	0.1 mg/L	6/16/23	-	MBN
Carbonate	ND mg/L as CaCO3	SM 2320-B	0.2 mg/L as CaCO3	6/19/23	-	DN
Hydroxide	ND mg/L as CaCO3	SM 2320-B	0.2 mg/L as CaCO3	6/19/23	-	DN
Langelier Index	-3.19 units	SM 2330-B	units	6/23/23	-	SAN
рН	6.28 units	SM 4500-H-B	0.01 units	6/14/23	-	AKF
Temperature	20 °C	SM 4500-H-B	1 °C	6/14/23	-	AKF
Total Alkalinity	18.0 mg/L as CaCO3	SM 2320-B	4.0 mg/L as CaCO3	6/19/23	QC65794	DN
Total Dissolved Solids	22 mg/L	SM 2540-C	5 mg/L	6/20/23	QC65797	ISG

Dissolved Metals filtered in the field by the customer

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(d) RPD acceptable due to low duplicate and sample concentrations.

(s) Spike amount low relative to the sample amount.



TASK NO: 230614146

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230614146

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 6/14/23 Date Reported: 7/24/23

Matrix: Water - Ground

Customer Sample ID Cross Portal

Sample Date/Time: 6/14/23 12:15 PM

Lab Number: 230614146-06

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Bicarbonate	57.0 mg/L as CaCO3	SM 2320-B	0.2 mg/L as CaCO3	6/19/23	-	DN
Calcium as CaCO3	42.1 mg/L	EPA 200.7	0.1 mg/L	6/16/23	-	MBN
Carbonate	ND mg/L as CaCO3	SM 2320-B	0.2 mg/L as CaCO3	6/19/23	-	DN
Hydroxide	ND mg/L as CaCO3	SM 2320-B	0.2 mg/L as CaCO3	6/19/23	-	DN
Langelier Index	-1.21 units	SM 2330-B	units	6/23/23	-	SAN
рН	7.12 units	SM 4500-H-B	0.01 units	6/14/23	-	AKF
Temperature	20 °C	SM 4500-H-B	1 °C	6/14/23	-	AKF
Total Alkalinity	57.0 mg/L as CaCO3	SM 2320-B	4.0 mg/L as CaCO3	6/19/23	QC65794	DN
Total Dissolved Solids	82 mg/L	SM 2540-C	5 mg/L	6/20/23	QC65797	ISG

Dissolved Metals filtered in the field by the customer

Abbreviations/ References:

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(d) RPD acceptable due to low duplicate and sample concentrations.

(s) Spike amount low relative to the sample amount.



TASK NO: 230614146

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230614146

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 6/14/23 Date Reported: 7/24/23

Matrix: Water - Ground

Customer Sample ID Caribou Portal

Sample Date/Time: 6/14/23 11:15 AM

Lab Number: 230614146-07

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Bicarbonate	72.6 mg/L as CaCO3	SM 2320-B	0.2 mg/L as CaCO3	6/19/23	-	DN
Calcium as CaCO3	45.4 mg/L	EPA 200.7	0.1 mg/L	6/16/23	-	MBN
Carbonate	ND mg/L as CaCO3	SM 2320-B	0.2 mg/L as CaCO3	6/19/23	-	DN
Hydroxide	ND mg/L as CaCO3	SM 2320-B	0.2 mg/L as CaCO3	6/19/23	-	DN
Langelier Index	-0.29 units	SM 2330-B	units	6/23/23	-	SAN
рН	7.90 units	SM 4500-H-B	0.01 units	6/14/23	-	AKF
Temperature	20 °C	SM 4500-H-B	1 °C	6/14/23	-	AKF
Total Alkalinity	72.6 mg/L as CaCO3	SM 2320-B	4.0 mg/L as CaCO3	6/19/23	QC65794	DN
Total Dissolved Solids	94 mg/L	SM 2540-C	5 mg/L	6/20/23	QC65797	ISG

Dissolved Metals filtered in the field by the customer

Abbreviations/ References:

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(s) Spike amount low relative to the sample amount.



TASK NO: 230614146

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230614146

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 6/14/23 Date Reported: 7/24/23

Matrix: Water - Ground

Customer Sample ID Caribou 02

Sample Date/Time: 6/14/23 11:15 AM

Lab Number: 230614146-08

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Bicarbonate	67.7 mg/L as CaCO3	SM 2320-B	0.2 mg/L as CaCO3	6/19/23	-	DN
Calcium as CaCO3	43.1 mg/L	EPA 200.7	0.1 mg/L	6/16/23	-	MBN
Carbonate	ND mg/L as CaCO3	SM 2320-B	0.2 mg/L as CaCO3	6/19/23	-	DN
Hydroxide	ND mg/L as CaCO3	SM 2320-B	0.2 mg/L as CaCO3	6/19/23	-	DN
Langelier Index	-0.39 units	SM 2330-B	units	6/23/23	-	SAN
рН	7.85 units	SM 4500-H-B	0.01 units	6/14/23	-	AKF
Temperature	20 °C	SM 4500-H-B	1 °C	6/14/23	-	AKF
Total Alkalinity	67.7 mg/L as CaCO3	SM 2320-B	4.0 mg/L as CaCO3	6/19/23	QC65794	DN
Total Dissolved Solids	87 mg/L	SM 2540-C	5 mg/L	6/20/23	QC65797	ISG

Dissolved Metals filtered in the field by the customer

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations.

(s) Spike amount low relative to the sample amount.



TASK NO: 230614146

Report To: Patrick Delaney

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Bill To: Accounts Payable

Company: Grand Island Resources LLC

12567 W Cedar Dr

Suite 250

Lakewood CO 80228

Task No.: 230614146

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 6/14/23 Date Reported: 7/24/23

Matrix: Water - Ground

Customer Sample ID Caribou 03

Sample Date/Time: 6/14/23

11:15 AM Lab Number: 230614146-09

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Bicarbonate	ND mg/L as CaCO3	SM 2320-B	0.2 mg/L as CaCO3	6/19/23	-	DN
Calcium as CaCO3	0.1 mg/L	EPA 200.7	0.1 mg/L	6/16/23	-	MBN
Carbonate	ND mg/L as CaCO3	SM 2320-B	0.2 mg/L as CaCO3	6/19/23	-	DN
Hydroxide	ND mg/L as CaCO3	SM 2320-B	0.2 mg/L as CaCO3	6/19/23	-	DN
Langelier Index	-5.83 units	SM 2330-B	units	6/23/23	-	SAN
рН	6.50 units	SM 4500-H-B	0.01 units	6/14/23	-	AKF
Temperature	20 °C	SM 4500-H-B	1 °C	6/14/23	-	AKF
Total Alkalinity	ND mg/L as CaCO3	SM 2320-B	4.0 mg/L as CaCO3	6/19/23	QC65794	DN
Total Dissolved Solids	ND mg/L	SM 2540-C	5 mg/L	6/20/23	QC65797	ISG

Dissolved Metals filtered in the field by the customer

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations.

(s) Spike amount low relative to the sample amount.



Analytical QC Summary

TASK NO: 230614146

Report To: Patrick Delaney

Company: Grand Island Resources LLC

Receive Date: 6/14/23

Project Name: Monthly Groundwater

Test	QC Batch ID	QC Type	Result		Method	Prep Date
Total Alkalinity	QC65794	Blank	ND		SM 2320-B	6/19/23
Total Dissolved Solids	QC65797	Blank	ND		SM 2540-C	6/19/23
Test	QC Batch ID	QC Type	Limits	% Rec	RPD	Method
Total Alkalinity	QC65794	Duplicate	0 - 20	-	0.6	SM 2320-B
		LCS	90 - 110	101.0	-	
		LCS-2	90 - 110	103.2	-	
Total Dissolved Solids	QC65797	Duplicate	0 - 20	=	1.4	SM 2540-C
		LCS	85 - 115	97.4	-	

All analyses were performed in accordance with approved methods under the latest revision to 40 CFR Part 136 unless otherwise identified. Based on my inquiry of the person or persons directly responsible for analyzing the wastewater samples and generating the report (s), the analyses, report, and information submitted are, to the best of my knowledge and belief, true, accurate, and complete.

DATA APPROVED FOR RELEASE BY

Abbreviations/ References:

RL = Reporting Limit = Minimum Level
mg/L = Milligrams Per Liter or PPM
ug/L = Micrograms Per Liter or PPB
mpn/100 mls = Most Probable Number Index/ 100 mls
Date Analyzed = Date Test Completed

Chain of Custody Form

Report To Information	Bill To Information (If different from report to	Project Name / Number
Company Name: Grand Island Resou	NCC Company Name:	
Contact Name: Brooke Moran	Contact Name:	· · · · · · · · · · · · · · · · · · ·
Address: 12567 W. Cedar Rd Ste 29	Address:	Task Number (Lab Use Only)
City Lakewood State CO zip 8022		
Phone: 303-506-1618	Phone:	CAL Task 230614146
Email: bmolsonm@g-emp	or Lemail: Cat	
Sample Collector: BM		JAK
Sample Collector Phone: 303-506-160	PO No.:	



Commerce City Lab 10411 Heinz Way Commerce City CO 80640

Lakewood Service Center 610 Garrison Street, Unit E Lakewood CO 80215

Phone: 303-659-2313

www.coloradolab.com

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		Sa	mple Matrix (Select One On	ly)			(<i>(</i>							T							
Ground	Water □ I Water ⊠ e Water □		Soil Sludge	Drinking Water		No. of Containers	In O on O look	or (Check One Only) Composite	Q		- 1	•	2 e0		3/2) l	43				
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Date	Time		Sample I				- 0	o O			/ / / /		TVI	17	10		φυ		W	at	4	
6/14/23	13:00		CROSS WELL	•		5	6							_	_ _							
i į	13:30	Co	MPLIANCE W	ELL		5	6															
11	11	CC	MPLIANCE	02		5	6															
11	11	CO	MPLIANCE	03		5	6															
Ų	11:30	C	ARIBOU WEL	4		5	G															
11	12:15	C	ROSS PORT	AL		5	6	!														
11	11:15	Ci	ARIBOU POR	TAL		5	6															
11	11:15	C	ARIBOU 02			5	6															
11	11:15	C	ARIBOU 0	3		5	6	•														
Instructio	ons: Carron	s HI pho	- Samples received	in 1-liter	C/S Info:	·				·				Seals	Presen	t Yes [] No □	<u> </u>				
	ns cept	wher.	containers. beliebs	JR	Deliver Via:	F)				C/S°	Charge	<u>: 🗆</u>	Temn	5	°C/Ice	. 4	Sam	iple Pr	es. Yes	FΩ.) []
Relinquis	hed By:	Dat	e/Time: Received By:	Date/Time	e: Ro	_	ished	By:	_			/Tim		Re	eived	By:			Ī	Date/T	ime:	
$\leq M$	oran	1 15	e/Time: /22 Received By: /25/22	16/14/	Page 11	of 1	1															
				, , , ,	1476	-																

ANALYTICAL SUMMARY REPORT

July 07, 2023

Colorado Analytical Laboratories Inc

PO Box 507

Brighton, CO 80601-0507

Work Order: C23060668 Quote ID: C15681

Project Name: 230614146; Monthly Groundwater

Energy Laboratories, Inc. Casper WY received the following 9 samples for Colorado Analytical Laboratories Inc on 6/16/2023

for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C23060668-001	230614146-01D - Cross Well	06/14/23 13:00	0 06/16/23	Groundwater	Metals by ICP/ICPMS, Dissolved
C23060668-002	230614146-02D - Compliance Well	06/14/23 13:30	0 06/16/23	Groundwater	Same As Above
C23060668-003	230614146-03D - Complance 02	06/14/23 13:30	0 06/16/23	Groundwater	Same As Above
C23060668-004	230614146-04D - Complance 03	06/14/23 13:30	0 06/16/23	Groundwater	Same As Above
C23060668-005	230614146-05D - Caribou Well	06/14/23 0:00	06/16/23	Groundwater	Same As Above
C23060668-006	230614146-06D - Cross Portal	06/14/23 12:15	5 06/16/23	Groundwater	Same As Above
C23060668-007	230614146-07D - Caribou Portal	06/14/23 11:15	5 06/16/23	Groundwater	Same As Above
C23060668-008	230614146-08D - Caribou 02	06/14/23 11:15	5 06/16/23	Groundwater	Same As Above
C23060668-009	230614146-09D - Caribou 03	06/14/23 11:15	5 06/16/23	Groundwater	Same As Above

The analyses presented in this report were performed by Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601, unless otherwise noted. Any exceptions or problems with the analyses are noted in the report package. Any issues encountered during sample receipt are documented in the Work Order Receipt Checklist.

The results as reported relate only to the item(s) submitted for testing. This report shall be used or copied only in its entirety. Energy Laboratories, Inc. is not responsible for the consequences arising from the use of a partial report.

If you have any questions regarding these test results, please contact your Project Manager .

Report Approved By:

Billings, MT **800.735.4489** • Casper, WY **888.235.0515** Gillette, WY **866.686.7175** • Helena, MT **877.472.0711**

Report Date: 07/07/23

CLIENT: Colorado Analytical Laboratories Inc

Project: 230614146; Monthly Groundwater

Work Order: C23060668 CASE NARRATIVE

Tests associated with analyst identified as ELI-H were subcontracted to Energy Laboratories, 3161 E.Lyndale Ave., Helena, MT, EPA Number MT00945.



Prepared by Casper, WY Branch

Client: Colorado Analytical Laboratories Inc **Project:** 230614146; Monthly Groundwater

Lab ID: C23060668-001

Client Sample ID: 230614146-01D - Cross Well

Report Date: 07/07/23 **Collection Date:** 06/14/23 13:00 **DateReceived:** 06/16/23

Matrix: Groundwater

Analyses	Result Units	Qualifiers	RL	MCL/ QCL Method	Analysis Date / By
METALS, DISSOLVED Lithium	ND mg/L		0.001	E200.8	06/28/23 13:49 / eli-h

Report RL - Analyte Reporting Limit

Definitions: QCL - Quality Control Limit

MCL - Maximum Contaminant Level



LABORATORY ANALYTICAL REPORT Prepared by Casper, WY Branch

Client: Colorado Analytical Laboratories Inc Project: 230614146; Monthly Groundwater

Lab ID: C23060668-002

Client Sample ID: 230614146-02D - Compliance Well

Report Date: 07/07/23 **Collection Date:** 06/14/23 13:30

DateReceived: 06/16/23

Matrix: Groundwater

Analyses	Result Units	Qualifiers	RL	MCL/ QCL Method	Analysis Date / By
METALS, DISSOLVED Lithium	ND mg/L		0.001	E200.8	06/28/23 13:53 / eli-h

Report RL - Analyte Reporting Limit

Definitions: QCL - Quality Control Limit

MCL - Maximum Contaminant Level



Prepared by Casper, WY Branch

Client: Colorado Analytical Laboratories Inc Project: 230614146; Monthly Groundwater

Lab ID: C23060668-003

Client Sample ID: 230614146-03D - Complance 02

Report Date: 07/07/23 **Collection Date:** 06/14/23 13:30

DateReceived: 06/16/23

Matrix: Groundwater

Analyses	Result Units	Qualifiers	RL	MCL/ QCL Method	Analysis Date / By
METALS, DISSOLVED Lithium	ND mg/L		0.001	E200.8	06/28/23 13:57 / eli-h

Report RL - Analyte Reporting Limit

Definitions: QCL - Quality Control Limit

MCL - Maximum Contaminant Level



LABORATORY ANALYTICAL REPORT
Prepared by Casper, WY Branch

Client: Colorado Analytical Laboratories Inc Project: 230614146; Monthly Groundwater

Lab ID: C23060668-004

Client Sample ID: 230614146-04D - Complance 03

Report Date: 07/07/23 **Collection Date:** 06/14/23 13:30

DateReceived: 06/16/23 **Matrix:** Groundwater

Analyses	Result Units	Qualifiers	RL	MCL/ QCL Method	Analysis Date / By
METALS, DISSOLVED Lithium	ND mg/L		0.001	E200.8	06/28/23 14:01 / eli-h

Report RL - Analyte Reporting Limit

Definitions: QCL - Quality Control Limit

MCL - Maximum Contaminant Level



Prepared by Casper, WY Branch

Client: Colorado Analytical Laboratories Inc Project: 230614146; Monthly Groundwater Lab ID: C23060668-005

Client Sample ID: 230614146-05D - Caribou Well

Report Date: 07/07/23
Collection Date: 06/14/23
DateReceived: 06/16/23

Matrix: Groundwater

Analyses	Result Units	Qualifiers	RL	MCL/ QCL Method	Analysis Date / By
METALS, DISSOLVED Lithium	ND mg/L		0.001	E200.8	06/28/23 14:05 / eli-h

Report RL - Analyte Reporting Limit

Definitions: QCL - Quality Control Limit

MCL - Maximum Contaminant Level

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Colorado Analytical Laboratories Inc Project: 230614146; Monthly Groundwater

Lab ID: C23060668-006

Client Sample ID: 230614146-06D - Cross Portal

Report Date: 07/07/23

Collection Date: 06/14/23 12:15

DateReceived: 06/16/23

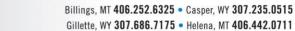
Matrix: Groundwater

Analyses	Result Units	Qualifiers	RL	MCL/ QCL Method	Analysis Date / By
METALS, DISSOLVED Lithium	ND mg/L		0.001	E200.8	06/28/23 14:09 / eli-h

Report RL - Analyte Reporting Limit

Definitions: QCL - Quality Control Limit

MCL - Maximum Contaminant Level





Prepared by Casper, WY Branch

Client: Colorado Analytical Laboratories Inc Project: 230614146; Monthly Groundwater

Lab ID: C23060668-007

Client Sample ID: 230614146-07D - Caribou Portal

Report Date: 07/07/23 **Collection Date:** 06/14/23 11:15

Matrix: Groundwater

DateReceived: 06/16/23

Analyses	Result Units	Qualifiers RL	MCL/ QCL Method	Analysis Date / By
METALS, DISSOLVED				
Lithium	ND mg/L	0.001	E200.8	06/28/23 14:28 / eli-h

Report RL - Analyte Reporting Limit

Definitions: QCL - Quality Control Limit

MCL - Maximum Contaminant Level



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Colorado Analytical Laboratories Inc Project: 230614146; Monthly Groundwater

Lab ID: C23060668-008

Client Sample ID: 230614146-08D - Caribou 02

Report Date: 07/07/23 **Collection Date:** 06/14/23 11:15

Matrix: Groundwater

DateReceived: 06/16/23

Analyses	Result Units	Qualifiers	RL	MCL/ QCL Method	Analysis Date / By
METALS, DISSOLVED Lithium	ND mg/L		0.001	E200.8	06/28/23 15:10 / eli-h

Report RL - Analyte Reporting Limit

Definitions: QCL - Quality Control Limit

MCL - Maximum Contaminant Level



Prepared by Casper, WY Branch

Client: Colorado Analytical Laboratories Inc Project: 230614146; Monthly Groundwater

Lab ID: C23060668-009

Client Sample ID: 230614146-09D - Caribou 03

Report Date: 07/07/23 **Collection Date:** 06/14/23 11:15

DateReceived: 06/16/23

Matrix: Groundwater

Analyses	Result Units	Qualifiers	RL	MCL/ QCL Method	Analysis Date / By
METALS, DISSOLVED Lithium	ND mg/L		0.001	E200.8	06/28/23 15:14 / eli-h

Report RL - Analyte Reporting Limit

Definitions: QCL - Quality Control Limit

MCL - Maximum Contaminant Level



QA/QC Summary Report

Prepared by Helena, MT Branch

Client: Colorado Analytical Laboratories Inc Work Order: C23060668 Report Date: 06/30/23

Analyte		Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	E200.8							Analytica	al Run: IC	CPMS205-H_	_230627A
Lab ID:	ICV	Initi	al Calibratio	on Verification S	Standard					06/27/	23 12:48
Lithium			0.0619	mg/L	0.10	103	90	110			
Lab ID:	ccv	Cor	ntinuing Cal	ibration Verifica	ation Standar	d				06/28/	23 13:13
Lithium			0.633	mg/L	0.10	101	90	110			
Lab ID:	ccv	Cor	ntinuing Cal	ibration Verifica	ation Standar	d				06/28/	23 14:20
Lithium			0.607	mg/L	0.10	97	90	110			
Method:	E200.8									Batch:	R185788
Lab ID:	LRB	Met	thod Blank				Run: ICPM	S205-H_230627/	A	06/27/	23 13:50
Lithium			ND	mg/L	0.001						
Lab ID:	LFB	Lab	oratory For	tified Blank			Run: ICPM	S205-H_230627	A	06/27/	23 13:53
Lithium			0.0521	mg/L	0.10	104	85	115			
Lab ID:	C23060668-006AMS	Sar	mple Matrix	Spike			Run: ICPM	S205-H_230627	A	06/28/	23 14:12
Lithium			0.0594	mg/L	0.10	119	70	130			
Lab ID:	C23060668-006AMS	D Sar	mple Matrix	Spike Duplicat	е		Run: ICPM	S205-H_230627	A	06/28/	23 14:16
Lithium			0.0518	mg/L	0.10	104	70	130		20	

Qualifiers:

RL - Analyte Reporting Limit

Work Order Receipt Checklist

Colorado Analytical Laboratories Inc C23060668

Login completed by: Hannah R. J	ohnson	D	ate Received: 6/16/2023	}
Reviewed by: cjohnson			Received by: meh	
Reviewed Date: 6/19/2023			Carrier name: FedEx	
Shipping container/cooler in good condition?	Yes [✓ No □	Not Present	
Custody seals intact on all shipping container(s)/cooler(s)? Yes [□ No □	Not Present ✓	
Custody seals intact on all sample bottles?	Yes [□ No □	Not Present ✓	
Chain of custody present?	Yes [✓ No □		
Chain of custody signed when relinquished an	d received? Yes [✓ No □		
Chain of custody agrees with sample labels?	Yes [✓ No □		
Samples in proper container/bottle?	Yes [✓ No □		
Sample containers intact?	Yes [✓ No □		
Sufficient sample volume for indicated test?	Yes [✓ No □		
All samples received within holding time? (Exclude analyses that are considered field pa such as pH, DO, Res Cl, Sulfite, Ferrous Iron.		√ No □		
Temp Blank received in all shipping container(s)/cooler(s)? Yes [No ✓	Not Applicable	
Container/Temp Blank temperature:	11.4°C	No Ice		
Containers requiring zero headspace have no bubble that is <6mm (1/4").	headspace or Yes [□ No □	No VOA vials submitted	$\overline{\checkmark}$
Water - pH acceptable upon receipt?	Yes [-	☑ No □	Not Applicable	

Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

The reference date for Radon analysis is the sample collection date. The reference date for all other Radiochemical analyses is the analysis date. Radiochemical precision results represent a 2-sigma Total Measurement Uncertainty.

Contact and Corrective Action Comments:

None

Ship To: Energy Labs

Sub-Lab Chain of Custody Form

LABORATORIES, INC.

Report To Information	Bill To Information: (If different from report to)	Project Name
Company Name Colorado Analytical Laboratory Report To: Rebecca Manzanares		Monthly Groundwater
E-Mail: rebeccamanzanares@coloradolab.com		
Address:	Address: CAL TASK	Compliance Samples: Yes No
10411 Heinz Way	230614146	
Commerce City, CO 80640	JAK	Submit Data to CDFTE: Tes No
Phone: <u>303-659-2313</u>		

Tests Requested

Metals (Sub)

Sample Date/Time	te/Time	Sample ID	Matrix		
					Container Type
6/14/23		1:00 PM 230614146-01D - Cross Well	Water - Ground		250 ml Cylinder - HNO3
6/14/23		1:30 PM 230614146-02D - Compliance Well	Water - Ground		250 ml Cylinder - HNO3
6/14/23		1:30 PM 230614146-03D - Compliance 02	Water - Ground		250 ml Cylinder - HNO3
6/14/23		1:30 PM 230614146-04D - Compliance 03	Water - Ground	9	250 ml Cylinder - HNO3
6/14/23		11:30 AM 230614146-05D - Caribou Well	Water - Ground		250 ml Cylinder - HNO3
6/14/23		12:15 PM 230614146-06D - Cross Portal	Water - Ground		250 ml Cylinder - HNO3
6/14/23		11:15 AM 230614146-07D - Caribou Portal	Water - Ground		250 ml Cylinder - HNO3
6/14/23		11:15 AM 230814146-08D - Caribou 02	Water - Ground	×	250 ml Cylinder - HNO3
6/14/23		11:15 AM 230614146-09D - Caribou 03	Water - Ground		250 ml Cylinder - HNO3

Date: Time:	Dage 1 of 2
Received by: (Signature)	
Date: Time:	
Relinquished by: (Signature)	
Date: Time: 6/10/23 11:05	
Received by: (Signature)	1
Date: Time:	1200
Relinquished by: (Signature)	•

Page 1 of 2



Ship To. Lucigy Labs

Sub-Lab Chain of Custody Form

			06000	2	
Report To Information	Bill To Information: (If different from report to)		Project Name	3	1
Company Name Colorado Analytical Laboratory Report To: Rebecca Manzanares			Monthly Groundwater		
-Mail: rebeccamanzanares@coloradolab.com					
ddress:	Address: CA	CAL TASK	Compliance Samples:	Yes No 🗸	
0411 Heinz Way	23	230614146	,a		
Commerce City, CO 80640	70	JAK	Sublim Data to CDFDE.	NO NO	
hone: <u>303-659-2313</u>	î.				

Tests Requested

Metals (Sub)

Container Type

Sample Date/Time	e/Time	Sample ID	Matrix	
Comment:	23061	Comment: 230614146-01D - Run Dissolved Lithium-Sample was field filtered.	ld filtered.	
	230614	230614146-02D - Run Dissolved Lithium-Sample was field filtered.	ld filtered.	
	230614	230614146-03D - Run Dissolved Lithium-Sample was field filtered.	ld filtered.	
	230614	230614146-04D - Run Dissolved Lithium-Sample was field filtered.	ld filtered.	
	230614	230614146-05D - Run Dissolved Lithium-Sample was field filtered.	ld filtered.	
	230614	230614146-06D - Run Dissolved Lithium-Sample was field filtered.	ld filtered.	
	230614	230614146-07D - Run Dissolved Lithium-Sample was field filtered.	ld filtered.	
	230614	230614146-08D - Run Dissolved Lithium-Sample was field filtered.	ld filtered.	
	230614	230614146-09D - Burn Discolond Lithium Cample was field filtered	1	

Time: Page 2 of 2 Date: Received by: (Signature) Time: Date: Relinquished by: (Signature) Date: Time: Received by: (Signature) Date: Time: 6/15/23 Relinquished by: (Signature)



Customer ID: 05377Z Account ID: Z01034 Lab Control ID: 23H02083 Received: Jun 15, 2023 Reported: Jul 21, 2023 Purchase Order No. None Received

Rebecca Manzanares Colorado Analytical Laboratories, Inc. 10411 Heinz Way Commerce City, CO 80640

ANALYTICAL REPORT

Report may only be copied in its entirety.
Results reported herein relate only to discrete samples submitted by the client. Hazen Research, Inc. does not warrant that the results are representative of anything other than the samples that were received in the laboratory

File: 23H02083 R1.pdf

r: Royanns Sullivan
Roxanne Sullivan
Analytical Laboratories Director

An Employee-Owned Company

Customer ID: 05377Z Account ID: Z01034 Lab Control ID: 23H02083 Received: Jun 15, 2023 Reported: Jul 21, 2023 Purchase Order No. None Received

ANALYTICAL REPORT

Rebecca Manzanares Colorado Analytical Laboratories, Inc.

La Custom		•	23H02083-001 230614146- 0)1C - Month	lv Groundw	ater - Cross Well		
				sampled or	•			
				Precision*	Detection		Analysis	
Parameter	Units	Code	Result	+/-	Limit	Method	Date / Time	Analyst
Gross Alpha	pCi/L	Т	0.9	1.2	0.1	SM 7110 B	7/18/23 @ 0850	KT
Gross Beta	pCi/L	Т	<3.4	2.3	3.4	SM 7110 B	7/18/23 @ 0850	KT

La	ab Sam	ple ID	23H02083-002					
Custom	er Sam	ple ID	230614146-0	D2C - Month	ly Groundw	ater - Compliance Well		
				sampled or	า 06/14/23 (@ 1330		
				Precision*	Detection		Analysis	
Parameter	Units	Code	Result	+/-	Limit	Method	Date / Time	Analyst
Gross Alpha	pCi/L	Т	0.7	1.1	0.1	SM 7110 B	7/18/23 @ 0852	KT
Gross Beta	pCi/L	Т	<3.4	2.3	3.4	SM 7110 B	7/18/23 @ 0852	KT

			23H02083-003	Nac Marth	h . C	otor Compliance 02		
Custom	er Sam	וטו ipie	230614146-0		-	ater - Compliance 02		
				sampled or	า 06/14/23 (@ 1330		
				Precision*	Detection		Analysis	
Parameter	Units	Code	Result	+/-	Limit	Method	Date / Time	Analyst
Gross Alpha	pCi/L	Т	1.2	1.2	0.1	SM 7110 B	7/18/23 @ 0853	KT
Gross Beta	pCi/L	Т	<3.4	2.3	3.4	SM 7110 B	7/18/23 @ 0853	KT

La	ab Sam	ple ID	23H02083-004					
Custom	er Sam	ple ID	230614146-0	94C - Month	ly Groundw	ater - Compliance 03		
				sampled or	n 06/14/23 (@ 1330		
				Precision*	Detection		Analysis	
Parameter	Units	Code	Result	+/-	Limit	Method	Date / Time	Analyst
Gross Alpha	pCi/L	Т	0.5	8.0	0.1	SM 7110 B	7/18/23 @ 0854	KT
Gross Beta	pCi/L	Т	<3.0	2.2	3.0	SM 7110 B	7/18/23 @ 0854	KT

La	ab Sam	ple ID	23H02083-005					
Custom	er Sam	ple ID	230614146-0)5C - Month	ly Groundw	ater - Caribou Well		
				sampled or	n 06/14/23 (@ 1130		
				Precision*	Detection		Analysis	
Parameter	Units	Code	Result	+/-	Limit	Method	Date / Time	Analyst
Gross Alpha	pCi/L	Т	0.5	1.0	0.1	SM 7110 B	7/18/23 @ 0856	KT
Gross Beta	pCi/L	Т	<3.1	2.3	3.1	SM 7110 B	7/18/23 @ 0856	KT

Certification ID's: CO/EPA CO00008

File: 23H02083 R1.pdf

Codes: (T) = Total (D) = Dissolved (S) = Suspended (R) = Replicate Sample (AR) = As Received < = Less Than

^{*}Variability of the radioactive decay process (counting error) at the 95% confidence level, 1.96 sigma.

Customer ID: 05377Z Account ID: Z01034 Lab Control ID: 23H02083 Received: Jun 15, 2023 Reported: Jul 21, 2023 Purchase Order No. None Received

ANALYTICAL REPORT

Rebecca Manzanares Colorado Analytical Laboratories, Inc.

La Custom			23H02083-006	16C - Month	ly Groundw	ater - Cross Portal		
Oustoni	ci Gaii	ipic iD	250014140-0	sampled or	•			
				Precision*	Detection		Analysis	
Parameter	Units	Code	Result	+/-	Limit	Method	Date / Time	Analyst
Gross Alpha	pCi/L	Т	0.7	1.1	0.1	SM 7110 B	7/18/23 @ 0857	KŤ
Gross Beta	pCi/L	T	3.1	2.4	2.8	SM 7110 B	7/18/23 @ 0857	KT

La	ab Sam	ple ID	23H02083-007					
Custom	er Sam	ple ID	230614146-0	7C - Month	ly Groundw	ater - Caribou Portal		
				sampled or	n 06/14/23 (@ 1115		
				Precision*	Detection		Analysis	
Parameter	Units	Code	Result	+/-	Limit	Method	Date / Time	Analyst
Gross Alpha	pCi/L	Т	3.4	1.9	0.1	SM 7110 B	7/18/23 @ 0858	KT
Gross Beta	pCi/L	Т	<3.0	2.1	3.0	SM 7110 B	7/18/23 @ 0858	KT

La	ab Sam	ple ID	23H02083-008					
Custom	er Sam	ple ID	230614146-0	D8C - Month	ly Groundw	ater - Caribou 02		
				sampled or	า 06/14/23 (@ 1115		
				Precision*	Detection		Analysis	
Parameter	Units	Code	Result	+/-	Limit	Method	Date / Time	Analyst
Gross Alpha	pCi/L	Т	1.9	1.5	0.1	SM 7110 B	7/18/23 @ 0859	KT
Gross Beta	pCi/L	Т	<3.0	2.3	3.0	SM 7110 B	7/18/23 @ 0859	KT

La Custom			23H02083-009 230614146- 0	9C - Month	ly Groundw	ater - Caribou 03		
				sampled or	06/14/23	@ 1115		
				Precision*	Detection		Analysis	
Parameter	Units	Code	Result	+/-	Limit	Method	Date / Time	Analyst
Gross Alpha	pCi/L	Т	<0.1	0.7	0.1	SM 7110 B	7/18/23 @ 0900	KT
Gross Beta	pCi/L	Т	<3.0	2.2	3.0	SM 7110 B	7/18/23 @ 0900	KT

Certification ID's: CO/EPA CO00008

Codes: (T) = Total (D) = Dissolved (S) = Suspended (R) = Replicate Sample (AR) = As Received < = Less Than

File: 23H02083 R1.pdf An Employee-Owned Company

^{*}Variability of the radioactive decay process (counting error) at the 95% confidence level, 1.96 sigma.

HAZEN RESEARCH, INC. RADIOCHEMISTRY LABORATORY

Batch QC Summary Form

Analyte: Gross Alpha

Control Standard/LFB: ID: C11a-004 pCi/mL: 57.4 (use 1 diluted)

Spike Solution: ID: C11a-004 pCi/mL: 57.4 (use 1 mL)

Spike Recovery Calculation: Sample: Tap*

Calculation: $(56.1) (1.000) - (0.0) (0.200) \times 100 = 98\%$

Date:

07/18/2023

Batch QC Evaluation:

Parameter	Criteria	Pass	Fail	N/A
Control Std./LFB	+/- 30 %	Х		
Spike Recovery	70 - 130 %	Х		
Blank	< or = 3 x Uncertainty	Х		
Duplicate 1	95% confidence interval overlap	Х		
Duplicate 2 *	95% confidence interval overlap			х

^{*} Required for batch size greater than 10 samples.

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X	Batch QC Passes**
	Batch QC Fails
	Batch QC Passes, with exceptions**:
	Reruns Required:
	Narrative:

Batch Listing by Lab Control Number:

23H02083	
23H02090	
23H02091	
23H02049	
23H02092	 Evaluator:
23H01697	
23H01733	 Locame Sallwen -
23H01848	 E Lyane carecon
23H01949	
	 07/20/2023
	 Date

page 4 of 6

^{**}All QC data provided in this section of the report met the acceptance criteria specified in the analytical methods and procedures. State Maximum Contamination Levels (MCLs) are not evaluted in this report.

HAZEN RESEARCH, INC. RADIOCHEMISTRY LABORATORY

Batch QC Summary Form

Analyte: Gross Beta

Control Standard/LFB: ID: C11a-004 pCi/mL: 44 (use 1 diluted)

Spike Solution: ID: C11a-004 pCi/mL: 44 (use 1 mL)

Spike Recovery Calculation: Sample: Tap*

Calculation: (42.7) (1.000) - (0.8) (0.200) x 100 = 97%

Date:

07/18/2023

Batch QC Evaluation:

Parameter	Criteria	Pass	Fail	N/A
Control Std./LFB	+/- 20 %	Х		
Spike Recovery	80 - 120 %	Х		
Blank	< or = 3 x Uncertainty	Х		
Duplicate 1	95% confidence interval overlap	Х		
Duplicate 2 *	95% confidence interval overlap			х

^{*} Required for batch size greater than 10 samples.

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Cond	JIUO	เบเเอ	١,

Х	Batch QC Passes**
	Batch QC Fails
	Batch QC Passes, with exceptions**:
	Reruns Required:
	Narrative:

Batch Listing by Lab Control Number:

23H02083		
23H02090		
23H02091		
23H02049		
23H02092	 Evaluator:	
23H01697		
23H01733	 Logame Sullwer -	
23H01848	 - Koxame Caraco	
23H01949		
	 07/20/2023	
	 Date	

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^{**}All QC data provided in this section of the report met the acceptance criteria specified in the analytical methods and procedures. State Maximum Contamination Levels (MCLs) are not evaluted in this report.

13H11083 Ship To: Hazen-Research Preserved: Y (N HNO3 Lot #:

Date Preserved:

> <u>></u> ۷ Yes Yes Monthly Groundwater Submit Data to CDPHE: Compliance Samples: Project Name CAL TASK 230614146 JAK Bill To Information: (If different from report to) Address: rebeccamanzanares@coloradolab.com Company Name Colorado Analytical Laboratory Rebecca Manzanares Commerce City, CO 80640 303-659-2313 Report To Information 10411 Heinz Way Report To:

Tests Requested

Phone:

E-Mail: Address: Gross Alpha/Beta

				(S						
Sample Date/Time	te/Time	Sample ID	Matrix	ub)					ပ်	Container Type
6/14/23		1:00 PM 230614146-01C - Cross Well	Water - Ground	X		 	 		=	1L - Unpreserved
6/14/23	1	1:30 PM 230614146-02C - Compliance Well	Water - Ground	X				ļ	=	1L - Unpreserved
6/14/23		1:30 PM 230614146-03C - Compliance 02	Water - Ground	ヌ					7	IL - Unpreserved
6/14/23		1:30 PM 230614146-04C - Compliance 03	Water - Ground	X					=	1L - Unpreserved
6/14/23	I	11:30 AM 230614146-05C - Caribou Well	Water - Ground	X					7	L - Unpreserved
6/14/23		12:15 PM 230614146-06C - Cross Portal	Water - Ground	×					=======================================	1L - Unpreserved
6/14/23		11:15 AM 230614146-07C - Caribou Portal	Water - Ground	X					==	1L - Unpreserved
6/14/23	11:15 AM	6/14/23 11:15 AM 230614146-08C - Caribou 02	Water - Ground	X	······································			**********	T-	1L - Unpreserved
6/14/23	11:15 AM	11:15 AM 230614146-09C - Caribou 03	Water - Ground	X					7	1L - Unpreserved
Comment:										

AT PPERVICE AN WIIG 123 1530 greservation V SK WIW 173 1215 Received by: (Signature)

RECEIVED JUN 15 2023

Date: Time:

Relinquished by: (Signature)

Date: Time:

Page 1 of 1

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Relinquished by: (Signature)

6/15/a3

Received by: (Signature)

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APPENDIX B OUTFALL-001 ANALYTICAL RESULTS

APPENDIX B.1 APRIL 2023 OUTFALL-001 ANALYTICAL RESULTS

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ANALYTICAL REPORT

PREPARED FOR

Attn: Patrick Delaney GS Mining Company LLC 422 Gregory Street Central City, Colorado 80427

Generated 4/26/2023 2:20:29 PM

JOB DESCRIPTION

Nederland, CO

JOB NUMBER

280-174860-1

Eurofins Denver 4955 Yarrow Street Arvada CO 80002



Eurofins Denver

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

Authorization

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Authorized for release by Dylan Bieniulis, Project Manager I Dylan.Bieniulis@et.eurofinsus.com (303)736-0138

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Definitions/Glossary

Client: GS Mining Company LLC

Project/Site: Nederland, CO

Job ID: 280-174860-1

Qualifiers

Metals

Qualifier Qualifier Description

B Compound was found in the blank and sample.

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

H Sample was prepped or analyzed beyond the specified holding time

HF Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins Denver

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Case Narrative

Client: GS Mining Company LLC Project/Site: Nederland, CO

Job ID: 280-174860-1

Job ID: 280-174860-1

Laboratory: Eurofins Denver

Narrative

CASE NARRATIVE

Client: GS Mining Company LLC

Project: Nederland, CO

Report Number: 280-174860-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 04/11/2023; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 5.5 C.

Two plastic 500ml bottles of nitric acid preserved sample volume, one plastic 250ml bottle of unpreserved volume & two unpreserved VOA vial containers of sample volume were received without container labels. As only one sample ID is referenced the chain of custody the containers were logged as OUTFALL-001 (280-174860-1). The client was notified.

TOTAL RECOVERABLE METALS (ICP)

Sample OUTFALL-001 (280-174860-1) was analyzed for Total Recoverable Metals (ICP) in accordance with EPA Method 200.7. The samples were prepared on 04/13/2023 and analyzed on 04/15/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

POTENTIALLY DISSOLVED METALS (ICPMS)

Sample OUTFALL-001 (280-174860-1) was analyzed for potentially dissolved metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared on 04/17/2023 and analyzed on 04/18/2023.

This report includes Reporting Limits (RLs) for 200.8 Potentially Dissolved Silver that are less than Eurofins TestAmerica Denver's standard reporting limit. The reported sample results and associated reporting limits are being used specifically to meet the needs of this project. Note that data are not normally reported to these levels without qualification because they are inherently less reliable and potentially less defensible than required by the latest industry standards.

Lead and Manganese were detected in method blank MB 280-608620/1-B at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL RECOVERABLE METALS (ICPMS)

Sample OUTFALL-001 (280-174860-1) was analyzed for total recoverable metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared on 04/12/2023 and analyzed on 04/13/2023.

Case Narrative

Client: GS Mining Company LLC
Project/Site: Nederland, CO

Job ID: 280-174860-1 (Continued)

Laboratory: Eurofins Denver (Continued)

Copper was detected in method blank MB 280-608367/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL MERCURY (CVAA)

Sample OUTFALL-001 (280-174860-1) was analyzed for total mercury (CVAA) in accordance with EPA Method 245.1. The samples were prepared and analyzed on 04/14/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TRIVALENT CHROMIUM - POTENTIALLY DISSOLVED

Sample OUTFALL-001 (280-174860-1) was analyzed for Trivalent Chromium - Potentially Dissolved in accordance with SM3500_CR3_B. The samples were analyzed on 04/26/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TRIVALENT CHROMIUM - TOTAL RECOVERABLE

Sample OUTFALL-001 (280-174860-1) was analyzed for Trivalent Chromium - Total Recoverable in accordance with SM3500_CR3_B. The samples were analyzed on 04/26/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SPECIFIC CONDUCTIVITY

Sample OUTFALL-001 (280-174860-1) was analyzed for specific conductivity in accordance with SM20 2510B. The samples were analyzed on 04/12/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL SUSPENDED SOLIDS

Sample OUTFALL-001 (280-174860-1) was analyzed for total suspended solids in accordance with SM20 2540D. The samples were analyzed on 04/13/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED HEXAVALENT CHROMIUM

Sample OUTFALL-001 (280-174860-1) was analyzed for dissolved hexavalent chromium in accordance with SM 3500 CR B. The samples were analyzed on 04/11/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HEXAVALENT CHROMIUM

Sample OUTFALL-001 (280-174860-1) was analyzed for hexavalent chromium in accordance with 3500_CR_B. The samples were analyzed on 04/11/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

CORROSIVITY (PH)

Sample OUTFALL-001 (280-174860-1) was analyzed for corrosivity (pH) in accordance with SM20 4500 H+ B. The samples were analyzed on 04/12/2023.

The following samples did not equilibrate to within 0.05 pH units after three measurements but its duplicate did therefore the sample was not rerun: OUTFALL-001 (280-174860-1) and (280-174860-C-1 DU). Data has been reported with this narration.

Job ID: 280-174860-1

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Case Narrative

Client: GS Mining Company LLC Project/Site: Nederland, CO

Job ID: 280-174860-1

Job ID: 280-174860-1 (Continued)

Laboratory: Eurofins Denver (Continued)

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SULFIDE

Sample OUTFALL-001 (280-174860-1) was analyzed for sulfide in accordance with SM20 4500 S2 D. The samples were analyzed on 04/14/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HYDROGEN SULFIDE

Sample OUTFALL-001 (280-174860-1) was analyzed for Hydrogen Sulfide in accordance with SM20 4500 S2 H. The samples were analyzed on 04/18/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

LOW LEVEL MERCURY

Sample OUTFALL-001 (280-174860-1) was analyzed for Low Level Mercury in accordance with EPA 1631. The samples were prepared on 04/13/2023 and analyzed on 04/20/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Detection Summary

Client: GS Mining Company LLC Project/Site: Nederland, CO

Job ID: 280-174860-1

Client Sample ID: OUTFALL-001

Lab Sample ID: 280-174860-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac [Method	Prep Type
Mercury	3.2		0.50	0.20	ng/L	1	1631E	Total/NA
Iron	24	J	100	9.1	ug/L	1	200.7 Rev 4.4	Total
Load	0.96		1.0	0.00	/1	4	200.8	Recoverable
Lead	0.86	J	1.0	0.23	ug/L	1	200.6	Total Recoverable
Zinc	2.4	J	10	2.0	ug/L	1	200.8	Total
					_			Recoverable
Lead	1.2	В	1.0	0.23	ug/L	1	200.8	Potentially
								Dissolved
Manganese	0.73	JB	3.0	0.51	ug/L	1	200.8	Potentially
								Dissolved
Zinc	6.2	J	10	2.0	ug/L	1	200.8	Potentially
								Dissolved
Specific Conductance	230		2.0	2.0	umhos/cm	1	SM 2510B	Total/NA
pH adj. to 25 deg C	7.7	HF	0.1	0.1	SU	1	SM 4500 H+ B	Total/NA
Temperature	21.6	HF	1.0	1.0	Degrees C	1	SM 4500 H+ B	Total/NA
Field pH	7.7		1.0	1.0	SU	1	SM4500 S2 H	Total/NA
Field Temperature	22		1.0	1.0	Celsius	1	SM4500 S2 H	Total/NA
Specific Conductance	230		2.0	2.0	umhos/cm	1	SM4500 S2 H	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: GS Mining Company LLC Project/Site: Nederland, CO

Job ID: 280-174860-1

Method	Method Description	Protocol	Laboratory
1631E	Mercury, Low Level (CVAFS)	EPA	EET PEN
200.7 Rev 4.4	Metals (ICP)	EPA	EET DEN
200.8	Metals (ICP/MS)	EPA	EET DEN
245.1	Mercury (CVAA)	EPA	EET DEN
SM 2510B	Conductivity, Specific Conductance	SM	EET DEN
SM 2540D	Solids, Total Suspended (TSS)	SM	EET DEN
SM 3500 CR B	Chromium, Hexavalent	SM	EET DEN
SM 4500 H+ B	рН	SM	EET DEN
SM 4500 S2 D	Sulfide, Total	SM	EET DEN
SM3500 CR B	Chromium, Trivalent	SM	EET DEN
SM4500 S2 H	Unionized Hydrogen Sulfide	SM	EET DEN
1631E	Preparation, Mercury, Low Level	EPA	EET PEN
200.7	Preparation, Total Recoverable Metals	EPA	EET DEN
200.8	Preparation, Total Recoverable Metals	EPA	EET DEN
245.1	Preparation, Mercury	EPA	EET DEN
FILTRATION	Sample Filtration	None	EET DEN
Poten_Diss_Met	Filtration for Potentially Dissolved Metals	EPA	EET DEN

Protocol References:

EPA = US Environmental Protection Agency

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100 EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Eurofins Denver

4/26/2023

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Sample Summary

Client: GS Mining Company LLC Project/Site: Nederland, CO

 Lab Sample ID
 Client Sample ID
 Matrix
 Collected
 Received

 280-174860-1
 OUTFALL-001
 Water
 04/11/23 13:00
 04/11/23 15:10

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Job ID: 280-174860-1

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Client Sample Results

Client: GS Mining Company LLC Project/Site: Nederland, CO

Job ID: 280-174860-1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Client Sample ID: OUTFALL-001 Lab Sample ID: 280-174860-1 Date Collected: 04/11/23 13:00 **Matrix: Water**

Date Received: 04/11/23 15:10

RL Analyte Result Qualifier **MDL** Unit D Prepared Analyzed Dil Fac 0.50 Mercury 0.20 ng/L 04/13/23 16:30 04/20/23 11:58 3.2

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Client Sample ID: OUTFALL-001 Lab Sample ID: 280-174860-1 Date Collected: 04/11/23 13:00 **Matrix: Water**

Date Received: 04/11/23 15:10

Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac 100 9.1 ug/L 04/13/23 07:56 04/15/23 05:37 Iron 24 J

Method: EPA 200.8 - Metals (ICP/MS) - Total Recoverable

Client Sample ID: OUTFALL-001 Lab Sample ID: 280-174860-1 Date Collected: 04/11/23 13:00 **Matrix: Water**

Date Received: 04/11/23 15:10

Analyte Result Qualifier **MDL** Unit Dil Fac RL Prepared Analyzed Arsenic $\overline{\mathsf{ND}}$ 5.0 0.50 04/12/23 14:38 04/13/23 01:12 ug/L Cadmium ND 1.0 0.19 ug/L 04/12/23 14:38 04/13/23 01:12 Chromium ND 3.0 0.50 ug/L 04/12/23 14:38 04/13/23 01:12 Copper ND 20 0.71 ug/L 04/12/23 14:38 04/13/23 01:12 Lead 0.86 J 1.0 0.23 ug/L 04/12/23 14:38 04/13/23 01:12 **Zinc** 2.4 J 10 2.0 ug/L 04/12/23 14:38 04/13/23 01:12

Method: EPA 200.8 - Metals (ICP/MS) - Potentially Dissolved

Client Sample ID: OUTFALL-001 Lab Sample ID: 280-174860-1 Date Collected: 04/11/23 13:00 **Matrix: Water**

Date Received: 04/11/23 15:10

Analyte Result Qualifier RI MDI Unit Prepared Analyzed Dil Fac Arsenic ND 5.0 0.50 ug/L 04/17/23 15:03 04/18/23 09:19 Cadmium ND 1.0 0.19 ug/L 04/17/23 15:03 04/18/23 09:19 ND 04/17/23 15:03 04/18/23 09:19 Chromium 3.0 0.50 ug/L Copper ND 2.0 0.71 ug/L 04/17/23 15:03 04/18/23 09:19 0.23 ug/L 04/17/23 15:03 04/18/23 09:19 Lead 1.2 B 1.0 Manganese 0.73 JB 3.0 0.51 ug/L 04/17/23 15:03 04/18/23 09:19 04/17/23 15:03 04/18/23 09:19 Nickel ND 3.0 0.83 ug/L Selenium ND 5.0 1.0 ug/L 04/17/23 15:03 04/18/23 09:19 Silver ND 0.50 0.045 ug/L 04/17/23 15:03 04/18/23 09:19 **Zinc** 10 04/17/23 15:03 04/18/23 09:19 2.0 ug/L

Method: EPA 245.1 - Mercury (CVAA)

Client Sample ID: OUTFALL-001 Lab Sample ID: 280-174860-1

Date Collected: 04/11/23 13:00

Date Received: 04/11/23 15:10 Analyte Result Qualifier RL MDL Unit Prepared Dil Fac Analyzed ND 0.20 0.061 ug/L 04/14/23 16:24 04/14/23 22:17 Mercury

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Matrix: Water

Client Sample Results

Client: GS Mining Company LLC Job ID: 280-174860-1 Project/Site: Nederland, CO

General Chemistry

Client Sample ID: OUTFALL-001	Lab Sample ID: 280-174860-1
Date Collected: 04/11/23 13:00	Matrix: Water

Date Received: 04/11/23 15:10

Date Neceived. 04/11/25 15.10									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (SM 2510B)	230		2.0	2.0	umhos/cm			04/12/23 12:39	1
Total Suspended Solids (SM 2540D)	ND		4.0	1.1	mg/L			04/13/23 14:40	1
Chromium, hexavalent (SM 3500 CR B)	ND		0.020	0.0040	mg/L			04/11/23 18:48	1
pH adj. to 25 deg C (SM 4500 H+ B	7.7	HF	0.1	0.1	SU			04/12/23 12:48	1
Temperature (SM 4500 H+ B)	21.6	HF	1.0	1.0	Degrees C			04/12/23 12:48	1
Sulfide (SM 4500 S2 D)	ND		0.050	0.022	mg/L			04/14/23 15:40	1
Un-ionized Hydrogen Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			04/18/23 16:37	1
Field pH (SM4500 S2 H)	7.7		1.0	1.0	SU			04/18/23 16:37	1
Field Temperature (SM4500 S2 H)	22		1.0	1.0	Celsius			04/18/23 16:37	1
Specific Conductance (SM4500 S2 H)	230		2.0	2.0	umhos/cm			04/18/23 16:37	1
Sulfide (SM4500 S2 H)	ND		4.0	4.0	mg/L			04/18/23 16:37	1

General Chemistry - Total Recoverable

Client Sample ID: OUTFALL-001	Lab Sample ID: 280-174860-1
Date Collected: 04/11/23 13:00	Matrix: Water

Date Received: 04/11/23 15:10

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Chromium, trivalent (SM3500 CR B) 0.020 ND H 0.020 mg/L 04/26/23 12:30

General Chemistry - Dissolved

Client Sample ID: OUTFALL-001 Lab Sample ID: 280-174860-1 Date Collected: 04/11/23 13:00 **Matrix: Water**

Date Received: 04/11/23 15:10

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Chromium, hexavalent (SM 3500 CR ND 0.020 0.0040 mg/L 04/11/23 19:08

General Chemistry - Potentially Dissolved

Client Sample ID: OUTFALL-001 Lab Sample ID: 280-174860-1 **Matrix: Water**

Date Collected: 04/11/23 13:00

Date Received: 04/11/23 15:10 Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Chromium, trivalent (dissolved) ND 0.020 0.020 mg/L 04/26/23 12:32

(SM3500 CR B)

Client: GS Mining Company LLC Job ID: 280-174860-1

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 400-621558/3-A Client Sample ID: Method Blank

Matrix: Water

Project/Site: Nederland, CO

Analysis Batch: 621683

MB MB Result Qualifier RL **MDL** Unit Analyzed Dil Fac Analyte Prepared 0.50 04/19/23 16:40 04/20/23 10:11 Mercury ND 0.20 ng/L

Lab Sample ID: LCS 400-621558/4-A **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA **Prep Batch: 621558 Analysis Batch: 621683**

Spike LCS LCS %Rec Added Result Qualifier D %Rec Limits Analyte Unit 5.00 79 - 121 Mercury 4.75 ng/L 95

Lab Sample ID: LCSD 400-621558/5-A Client Sample ID: Lab Control Sample Dup **Matrix: Water** Prep Type: Total/NA **Analysis Batch: 621683 Prep Batch: 621558** Spike LCSD LCSD %Rec **RPD** Added Result Qualifier Limits **RPD** Limit Analyte Unit %Rec

5.00

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 280-608363/1-A Client Sample ID: Method Blank **Prep Type: Total Recoverable**

4.68

ng/L

Matrix: Water

Mercury

Analysis Batch: 608933 MB MB

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Iron $\overline{\mathsf{ND}}$ 100 9.1 ug/L 04/13/23 07:56 04/15/23 05:01

Lab Sample ID: LCS 280-608363/2-A **Client Sample ID: Lab Control Sample Matrix: Water Prep Type: Total Recoverable**

Analysis Batch: 608933

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Iron 5000 5480 ug/L 110 85 - 115

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 280-608367/1-A Client Sample ID: Method Blank **Matrix: Water Prep Type: Total Recoverable**

Analysis Batch: 608553

MB MB Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Arsenic $\overline{\mathsf{ND}}$ 5.0 0.50 ug/L 04/12/23 14:38 04/13/23 00:15 04/12/23 14:38 04/13/23 00:15 Cadmium ND 1.0 0.19 ug/L Chromium ND 3.0 0.50 ug/L 04/12/23 14:38 04/13/23 00:15 Copper 2.0 0.71 ug/L 04/12/23 14:38 04/13/23 00:15 1 17 Lead ND 1.0 0.23 ug/L 04/12/23 14:38 04/13/23 00:15 Zinc ND 10 04/12/23 14:38 04/13/23 00:15 2.0 ug/L

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Prep Type: Total/NA

Prep Batch: 621558

94

79 - 121

Prep Batch: 608363

Prep Batch: 608363

Prep Batch: 608367

Job ID: 280-174860-1

Client: GS Mining Company LLC Project/Site: Nederland, CO

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 280-608367/2-A

Matrix: Water

Analysis Batch: 608553

Client Sample ID: Lab Control Sample Prep Type: Total Recoverable

Prep Batch: 608367

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Arsenic	40.0	36.9		ug/L		92	89 - 111	
Cadmium	40.0	37.9		ug/L		95	89 - 111	
Chromium	40.0	37.0		ug/L		92	86 - 115	
Copper	40.0	37.5		ug/L		94	90 - 115	
Lead	40.0	38.7		ug/L		97	88 - 115	
Zinc	40.0	39.0		ug/L		98	88 - 115	

Lab Sample ID: LCSD 280-608367/3-A

Matrix: Water

Analysis Batch: 608553

Client Sample ID: Lab Control Sample Dup Prep Type: Total Recoverable

Prep Batch: 608367

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-	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Arsenic	40.0	35.7		ug/L		89	89 - 111	3	20
Cadmium	40.0	40.3		ug/L		101	89 - 111	6	20
Chromium	40.0	36.7		ug/L		92	86 - 115	1	20
Copper	40.0	36.8		ug/L		92	90 - 115	2	20
Lead	40.0	39.2		ug/L		98	88 - 115	1	20
Zinc	40.0	37.5		ug/L		94	88 - 115	4	20

Lab Sample ID: MB 280-608620/1-B

Matrix: Water

Analysis Batch: 609083

Client Sample ID: Method Blank **Prep Type: Potentially Dissolved**

Prep Batch: 608892

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		04/17/23 15:03	04/18/23 09:01	1
Cadmium	ND		1.0	0.19	ug/L		04/17/23 15:03	04/18/23 09:01	1
Chromium	ND		3.0	0.50	ug/L		04/17/23 15:03	04/18/23 09:01	1
Copper	ND		2.0	0.71	ug/L		04/17/23 15:03	04/18/23 09:01	1
Lead	0.310	J	1.0	0.23	ug/L		04/17/23 15:03	04/18/23 09:01	1
Manganese	0.586	J	3.0	0.51	ug/L		04/17/23 15:03	04/18/23 09:01	1
Nickel	ND		3.0	0.83	ug/L		04/17/23 15:03	04/18/23 09:01	1
Selenium	ND		5.0	1.0	ug/L		04/17/23 15:03	04/18/23 09:01	1
Silver	ND		0.50	0.045	ug/L		04/17/23 15:03	04/18/23 09:01	1
Zinc	ND		10	2.0	ug/L		04/17/23 15:03	04/18/23 09:01	1

Lab Sample ID: LCS 280-608620/2-B

Matrix: Water

Analysis Batch: 609083

Client Sample ID: Lab Control Sample Prep Type: Potentially Dissolved

Prep Batch: 608892

	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Arsenic	40.0	38.2		ug/L		96	89 - 111
Cadmium	40.0	37.0		ug/L		93	89 - 111
Chromium	40.0	39.3		ug/L		98	86 - 115
Copper	40.0	40.6		ug/L		102	90 - 115
Lead	40.0	37.4		ug/L		93	88 - 115
Manganese	40.0	39.8		ug/L		99	87 - 115
Nickel	40.0	37.9		ug/L		95	86 - 115
Selenium	40.0	37.8		ug/L		95	85 - 114
Silver	40.0	39.0		ug/L		97	90 - 114

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Client: GS Mining Company LLC Job ID: 280-174860-1 Project/Site: Nederland, CO

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 280-608620/2-B **Client Sample ID: Lab Control Sample Matrix: Water Prep Type: Potentially Dissolved Analysis Batch: 609083 Prep Batch: 608892** LCS LCS %Rec Spike

Analyte Added Result Qualifier Unit %Rec Limits Zinc 40.0 40 4 ug/L 101 88 - 115

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 280-608762/1-A Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA **Analysis Batch: 608923 Prep Batch: 608762** MB MB

Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Mercury ND 0.20 0.061 ug/L 04/14/23 16:24 04/14/23 21:41

Lab Sample ID: LCS 280-608762/2-A **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 608923 **Prep Batch: 608762** LCS LCS Spike %Rec

Added Analyte Result Qualifier Unit %Rec Limits 5.00 5.22 Mercury ug/L 104 90 - 110

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: MB 280-608432/31 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 608432

MB MB Result Qualifier RL **MDL** Unit Analyte D Prepared Analyzed Dil Fac Specific Conductance 20 04/12/23 12:39 ND 2.0 umhos/cm

Lab Sample ID: LCS 280-608432/30 Client Sample ID: Lab Control Sample Prep Type: Total/NA

Matrix: Water

Analysis Batch: 608432

Spike LCS LCS %Rec Analyte Added Result Qualifier %Rec Limits Unit Specific Conductance 1410 1440 umhos/cm 102 90 - 110

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 280-608627/2 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 608627

MB MB Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Total Suspended Solids ND 4.0 1.1 mg/L 04/13/23 14:40

Lab Sample ID: LCS 280-608627/1 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 608627

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits **Total Suspended Solids** 501 453 mg/L 91 79 - 114

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4/26/2023

Client: GS Mining Company LLC Project/Site: Nederland, CO

Job ID: 280-174860-1

Prep Type: Total/NA

Client Sample ID: Method Blank

Client Sample ID: OUTFALL-001

Client Sample ID: OUTFALL-001

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Dissolved

Prep Type: Dissolved

Method: SM 3500 CR B - Chromium, Hexavalent

Lab Sample ID: MB 280-608335/10

Matrix: Water

Analysis Batch: 608335

MB MB

Result Qualifier RL **MDL** Unit Analyzed Dil Fac Analyte D Prepared 0.020 04/11/23 18:47 Chromium, hexavalent ND 0.0040 mg/L

Lab Sample ID: LCS 280-608335/8 Client Sample ID: Lab Control Sample **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 608335

Spike LCS LCS %Rec Added Result Qualifier D %Rec Limits Unit 0.100 Chromium, hexavalent 0.0986 mg/L 99 91 - 112

Lab Sample ID: LCSD 280-608335/9 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Matrix: Water

Analysis Batch: 608335

Spike LCSD LCSD %Rec **RPD** Added Result Qualifier Limits **RPD** Analyte Unit %Rec Limit Chromium, hexavalent 0.100 0.0987 99 mg/L

Lab Sample ID: 280-174860-1 MS Client Sample ID: OUTFALL-001 **Matrix: Water Prep Type: Total/NA**

Analysis Batch: 608335

Spike MS MS Sample Sample %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 0.100 0.0973 Chromium, hexavalent ND mg/L 91 - 112

Lab Sample ID: 280-174860-1 MSD

Matrix: Water

Analysis Batch: 608335

MSD MSD RPD Sample Sample Spike %Rec Result Qualifier Added Analyte Result Qualifier Unit %Rec Limits Limit Chromium, hexavalent ND 0.100 98 91 - 112 0.0981 mg/L

Lab Sample ID: 280-174860-1 DU

Matrix: Water

Analysis Batch: 608335

DU DU Sample Sample **RPD** Result Qualifier Result Qualifier **RPD** Analyte Unit Limit Chromium, hexavalent ND ND mg/L NC

Lab Sample ID: MB 280-608328/3-A

Matrix: Water

Analysis Batch: 608335

MB MB

Result Qualifier RL **MDL** Unit Dil Fac Prepared Analyzed 0.020 Chromium, hexavalent ND 0.0040 mg/L 04/11/23 19:07

Lab Sample ID: LCS 280-608328/1-A

Matrix: Water

Analysis Batch: 608335

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit %Rec Limits 91 - 112 Chromium, hexavalent 0.100 0.0972 mg/L 97

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Client: GS Mining Company LLC Job ID: 280-174860-1 Project/Site: Nederland, CO

Method: SM 3500 CR B - Chromium, Hexavalent

Lab Sample ID: LCSD 280-608328/2-A Client Sample ID: Lab Control Sample Dup

Matrix: Water Prep Type: Dissolved

Analysis Batch: 608335

LCSD LCSD Spike %Rec **RPD** Added Result Qualifier Unit %Rec Limits RPD Limit Analyte D 0.100 Chromium, hexavalent 0.100 mg/L 100 91 - 112

Lab Sample ID: 280-174860-1 MS Client Sample ID: OUTFALL-001 **Prep Type: Dissolved**

Matrix: Water

Analysis Batch: 608335

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Unit D %Rec Limits 0.100 Chromium, hexavalent NΠ 0.0987 mg/L 99 91 - 112

Lab Sample ID: 280-174860-1 MSD Client Sample ID: OUTFALL-001 **Prep Type: Dissolved**

Matrix: Water

Analysis Batch: 608335

Sample Sample Spike MSD MSD %Rec **RPD** Result Qualifier Added Result Qualifier Limits RPD Limit Analyte Unit %Rec Chromium, hexavalent ND 0.100 0.0981 98 91 - 112 mg/L

Lab Sample ID: 280-174860-1 DU Client Sample ID: OUTFALL-001 **Prep Type: Dissolved**

Matrix: Water

Analysis Batch: 608335

DU DU **RPD** Sample Sample Analyte Result Qualifier Result Qualifier Unit **RPD** Limit ND ND Chromium, hexavalent mg/L 20

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 280-608533/5

Matrix: Water

Analysis Batch: 608533

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits pH adj. to 25 deg C 7.00 7.1 SU 101 99 - 101

Lab Sample ID: 280-174860-1 DU Client Sample ID: OUTFALL-001

Matrix: Water

Analysis Batch: 608533

DU DU RPD Sample Sample Result Qualifier Result Qualifier RPD Limit Analyte Unit D pH adj. to 25 deg C 7.7 HF 7.9 SU 5 Temperature 21.6 HF 21.9 Degrees C 10

Method: SM 4500 S2 D - Sulfide, Total

Lab Sample ID: MB 280-608797/11 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 608797

MB MB

Result Qualifier Analyte RL MDL Unit Prepared Analyzed Dil Fac Sulfide ND 0.050 0.022 mg/L 04/14/23 15:37

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Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Type: Total/NA

QC Sample Results

Client: GS Mining Company LLC Job ID: 280-174860-1 Project/Site: Nederland, CO

Method: SM 4500 S2 D - Sulfide, Total (Continued)

Lab Sample ID: LCS 280-608797/9	Client Sample ID: Lab Control Sample
Matrix: Water	Prep Type: Total/NA

Matrix: Water

Analysis Batch: 608797 LCS LCS Spike %Rec Added Analyte Result Qualifier Unit D %Rec Limits Sulfide 0.502 0.488 mg/L 97 81 - 122

Lab Sample ID: LCSD 280-608797/10 **Client Sample ID: Lab Control Sample Dup Matrix: Water** Prep Type: Total/NA

Analysis Batch: 608797

RPD Spike LCSD LCSD %Rec Limits Analyte Added Result Qualifier Unit D %Rec RPD Limit Sulfide 0.502 0.504 100 mg/L 81 - 122 3 10

Method: SM4500 S2 H - Unionized Hydrogen Sulfide

Lab Sample ID: MB 280-609182/4 **Client Sample ID: Method Blank Matrix: Water** Prep Type: Total/NA

Analysis Batch: 609182

		MB	MB							
Analyte		Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Un-ionized Hydroge	en Sulfide	ND		1.0	1.0	mg/L			04/18/23 16:37	1
Field pH		ND		1.0	1.0	SU			04/18/23 16:37	1
Field Temperature		ND		1.0	1.0	Celsius			04/18/23 16:37	1
Specific Conductan	ce	ND		2.0	2.0	umhos/cm			04/18/23 16:37	1
Sulfide		ND		4.0	4.0	mg/L			04/18/23 16:37	1

Client: GS Mining Company LLC Project/Site: Nederland, CO

Job ID: 280-174860-1

Metals

Prep Batch: 608363

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-174860-1	OUTFALL-001	Total Recoverable	Water	200.7	
MB 280-608363/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 280-608363/2-A	Lab Control Sample	Total Recoverable	Water	200.7	

Prep Batch: 608367

Lab Sample ID 280-174860-1	Client Sample ID OUTFALL-001	Prep Type Total Recoverable	Matrix Water	Method 200.8	Prep Batch
MB 280-608367/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-608367/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
LCSD 280-608367/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	

Analysis Batch: 608553

Lab Sample ID 280-174860-1	Client Sample ID OUTFALL-001	Prep Type Total Recoverable	Matrix Water	Method 200.8	Prep Batch 608367
MB 280-608367/1-A	Method Blank	Total Recoverable	Water	200.8	608367
LCS 280-608367/2-A	Lab Control Sample	Total Recoverable	Water	200.8	608367
LCSD 280-608367/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	608367

Filtration Batch: 608620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-608620/1-B	Method Blank	Potentially Dissolved	Water	FILTRATION	
LCS 280-608620/2-B	Lab Control Sample	Potentially Dissolvec	Water	FILTRATION	

Prep Batch: 608762

Lab Sample ID 280-174860-1	Client Sample ID OUTFALL-001	Prep Type Total/NA	Matrix Water	Method 245.1	Prep Batch
MB 280-608762/1-A	Method Blank	Total/NA	Water	245.1	
LCS 280-608762/2-A	Lab Control Sample	Total/NA	Water	245.1	

Filtration Batch: 608831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-174860-1	OUTFALL-001	Potentially Dissolved	Water	Poten_Diss_Met	

Prep Batch: 608892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-174860-1	OUTFALL-001	Potentially Dissolved	Water	200.8	608831
MB 280-608620/1-B	Method Blank	Potentially Dissolved	Water	200.8	608620
LCS 280-608620/2-B	Lab Control Sample	Potentially Dissolvec	Water	200.8	608620

Analysis Batch: 608923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-174860-1	OUTFALL-001	Total/NA	Water	245.1	608762
MB 280-608762/1-A	Method Blank	Total/NA	Water	245.1	608762
LCS 280-608762/2-A	Lab Control Sample	Total/NA	Water	245.1	608762

Analysis Batch: 608933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-174860-1	OUTFALL-001	Total Recoverable	Water	200.7 Rev 4.4	608363
MB 280-608363/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	608363
LCS 280-608363/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	608363

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Client: GS Mining Company LLC Project/Site: Nederland, CO

Job ID: 280-174860-1

Metals

Analysis Batch: 609083

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-174860-1	OUTFALL-001	Potentially Dissolved	Water	200.8	608892
MB 280-608620/1-B	Method Blank	Potentially Dissolvec	Water	200.8	608892
LCS 280-608620/2-B	Lab Control Sample	Potentially Dissolvec	Water	200.8	608892

Prep Batch: 621558

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-174860-1	OUTFALL-001	Total/NA	Water	1631E	
MB 400-621558/3-A	Method Blank	Total/NA	Water	1631E	
LCS 400-621558/4-A	Lab Control Sample	Total/NA	Water	1631E	
LCSD 400-621558/5-A	Lab Control Sample Dup	Total/NA	Water	1631E	

Analysis Batch: 621683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-174860-1	OUTFALL-001	Total/NA	Water	1631E	621558
MB 400-621558/3-A	Method Blank	Total/NA	Water	1631E	621558
LCS 400-621558/4-A	Lab Control Sample	Total/NA	Water	1631E	621558
LCSD 400-621558/5-A	Lab Control Sample Dup	Total/NA	Water	1631E	621558

General Chemistry

Filtration Batch: 608328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-174860-1	OUTFALL-001	Dissolved	Water	FILTRATION	
MB 280-608328/3-A	Method Blank	Dissolved	Water	FILTRATION	
LCS 280-608328/1-A	Lab Control Sample	Dissolved	Water	FILTRATION	
LCSD 280-608328/2-A	Lab Control Sample Dup	Dissolved	Water	FILTRATION	
280-174860-1 MS	OUTFALL-001	Dissolved	Water	FILTRATION	
280-174860-1 MSD	OUTFALL-001	Dissolved	Water	FILTRATION	
280-174860-1 DU	OUTFALL-001	Dissolved	Water	FILTRATION	

Analysis Batch: 608335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-174860-1	OUTFALL-001	Dissolved	Water	SM 3500 CR B	608328
280-174860-1	OUTFALL-001	Total/NA	Water	SM 3500 CR B	
MB 280-608328/3-A	Method Blank	Dissolved	Water	SM 3500 CR B	608328
MB 280-608335/10	Method Blank	Total/NA	Water	SM 3500 CR B	
LCS 280-608328/1-A	Lab Control Sample	Dissolved	Water	SM 3500 CR B	608328
LCS 280-608335/8	Lab Control Sample	Total/NA	Water	SM 3500 CR B	
LCSD 280-608328/2-A	Lab Control Sample Dup	Dissolved	Water	SM 3500 CR B	608328
LCSD 280-608335/9	Lab Control Sample Dup	Total/NA	Water	SM 3500 CR B	
280-174860-1 MS	OUTFALL-001	Dissolved	Water	SM 3500 CR B	608328
280-174860-1 MS	OUTFALL-001	Total/NA	Water	SM 3500 CR B	
280-174860-1 MSD	OUTFALL-001	Dissolved	Water	SM 3500 CR B	608328
280-174860-1 MSD	OUTFALL-001	Total/NA	Water	SM 3500 CR B	
280-174860-1 DU	OUTFALL-001	Dissolved	Water	SM 3500 CR B	608328
280-174860-1 DU	OUTFALL-001	Total/NA	Water	SM 3500 CR B	

Analysis Batch: 608432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-174860-1	OUTFALL-001	Total/NA	Water	SM 2510B	
MB 280-608432/31	Method Blank	Total/NA	Water	SM 2510B	

Eurofins Denver

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4/26/2023

Client: GS Mining Company LLC Project/Site: Nederland, CO

Job ID: 280-174860-1

General Chemistry (Continued)

Analysis Batch: 608432 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 280-608432/30	Lab Control Sample	Total/NA	Water	SM 2510B	

Analysis Batch: 608533

Lab Sample ID 280-174860-1	Client Sample ID OUTFALL-001	Prep Type Total/NA	Matrix Water	Method SM 4500 H+ B	Prep Batch
LCS 280-608533/5	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
280-174860-1 DU	OUTFALL-001	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 608627

Lab Sample ID 280-174860-1	Client Sample ID OUTFALL-001	Prep Type Total/NA	Matrix Water	Method SM 2540D	Prep Batch
MB 280-608627/2	Method Blank	Total/NA	Water	SM 2540D	
LCS 280-608627/1	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 608797

Lab Sample ID 280-174860-1	Client Sample ID OUTFALL-001	Prep Type Total/NA	Matrix Water	Method SM 4500 S2 D	Prep Batch
MB 280-608797/11	Method Blank	Total/NA	Water	SM 4500 S2 D	
LCS 280-608797/9	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
LCSD 280-608797/10	D Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 D	

Analysis Batch: 609182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-174860-1	OUTFALL-001	Total/NA	Water	SM4500 S2 H	
MB 280-609182/4	Method Blank	Total/NA	Water	SM4500 S2 H	

Analysis Batch: 610203

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-174860-1	OUTFALL-001	Total Recoverable	Water	SM3500 CR B	

Analysis Batch: 610205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-174860-1	OUTFALL-001	Potentially Dissolved	Water	SM3500 CR B	

Lab Chronicle

Client: GS Mining Company LLC Job ID: 280-174860-1 Project/Site: Nederland, CO

Client Sample ID: OUTFALL-001

Lab Sample ID: 280-174860-1 Date Collected: 04/11/23 13:00 **Matrix: Water** Date Received: 04/11/23 15:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			40 mL	40 mL	621558	04/13/23 16:30	VLC	EET PEN
							Completed:	04/14/23 10:00	1	
Total/NA	Analysis	1631E		1			621683	04/20/23 11:58	VLC	EET PEN
Total Recoverable	Prep	200.7			50 mL	50 mL	608363	04/13/23 07:56	LJS	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			608933	04/15/23 05:37	KRP	EET DEN
Potentially Dissolved	Filtration	Poten_Diss_Met			250 mL	250 mL	608831	04/15/23 00:30	LRD	EET DEN
Potentially Dissolved	Prep	200.8			50 mL	50 mL	608892	04/17/23 15:03	LJS	EET DEN
Potentially Dissolved	Analysis	200.8		1			609083	04/18/23 09:19	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	608367	04/12/23 14:38	LJS	EET DEN
Total Recoverable	Analysis	200.8		1			608553	04/13/23 01:12	LMT	EET DEN
Total/NA	Prep	245.1			30 mL	50 mL	608762	04/14/23 16:24	PFM	EET DEN
Total/NA	Analysis	245.1		1			608923	04/14/23 22:17	PFM	EET DEN
Total/NA	Analysis	SM 2510B		1			608432	04/12/23 12:39	KEG	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	608627	04/13/23 14:40	MCR	EET DEN
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	608328	04/11/23 18:22	SJD	EET DEN
Dissolved	Analysis	SM 3500 CR B		1	2 mL	2 mL	608335	04/11/23 19:08	SJD	EET DEN
Total/NA	Analysis	SM 3500 CR B		1	2 mL	2 mL	608335	04/11/23 18:48	SJD	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			608533	04/12/23 12:48	KEG	EET DEN
Total/NA	Analysis	SM 4500 S2 D		1	2 mL	2 mL	608797	04/14/23 15:40	SL	EET DEN
Potentially Dissolved	Analysis	SM3500 CR B		1			610205	04/26/23 12:32	RMS	EET DEN
Total Recoverable	Analysis	SM3500 CR B		1			610203	04/26/23 12:30	RMS	EET DEN
Total/NA	Analysis	SM4500 S2 H		1			609182	04/18/23 16:37	ZPM	EET DEN

¹ Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Accreditation/Certification Summary

Client: GS Mining Company LLC Project/Site: Nederland, CO

Job ID: 280-174860-1

Laboratory: Eurofins Denver

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	10-31-23
A2LA	ISO/IEC 17025	2907.01	10-31-23
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-08-24
Arizona	State	AZ0713	12-20-23
Arkansas DEQ	State	19-047-0	05-31-23
California	State	2513	01-08-24
Connecticut	State	PH-0686	09-30-22 *
Florida	NELAP	E87667-57	06-30-23
Georgia	State	4025-011	01-08-24
Illinois	NELAP	2000172019-1	04-30-23
lowa	State	IA#370	12-01-24
Kansas	NELAP	E-10166	04-30-23
Kentucky (WW)	State	KY98047	12-31-23
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-23
Louisiana (All)	NELAP	30785	06-30-23
Minnesota	NELAP	1788752	12-31-23
Nevada	State	CO000262020-1	07-31-23
New Hampshire	NELAP	205319	04-28-23
New Jersey	NELAP	190002	06-30-23
North Carolina (WW/SW)	State	358	12-31-22 *
North Dakota	State	R-034	01-08-23 *
Oklahoma	NELAP	8614	08-31-23
Oklahoma	State	2018-006	08-31-23
Oregon	NELAP	4025-011	01-10-24
Pennsylvania	NELAP	013	07-31-23
South Carolina	State	72002001	01-08-23 *
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	09-30-23
US Fish & Wildlife	US Federal Programs	058448	07-31-23
USDA	US Federal Programs	P330-20-00065	12-19-25
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-23
Virginia	NELAP	12037	06-14-23
Washington	State	C583-19	08-03-23
West Virginia DEP	State	354	11-30-23
Wisconsin	State	999615430	08-31-23
Wyoming (UST)	A2LA	2907.01	10-31-22 *

Laboratory: Eurofins Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-23
ANAB	ISO/IEC 17025	L2471	02-22-26
Arkansas DEQ	State	88-0689	09-01-23
California	State	2510	06-30-23
Florida	NELAP	E81010	06-30-23
Georgia	State	E81010(FL)	06-30-23

^{*} Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Denver

Accreditation/Certification Summary

Client: GS Mining Company LLC
Project/Site: Nederland, CO

Job ID: 280-174860-1

Laboratory: Eurofins Pensacola (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	200041	10-09-23
Kansas	NELAP	E-10253	10-31-23
Kentucky (UST)	State	53	06-30-23
Louisiana (All)	NELAP	30976	06-30-23
Louisiana (DW)	State	LA017	12-31-23
Maryland	State	233	09-30-23
Michigan	State	9912	06-30-23
North Carolina (WW/SW)	State	314	12-31-23
Oklahoma	NELAP	9810	08-31-23
Pennsylvania	NELAP	68-00467	01-31-24
South Carolina	State	96026	06-30-23
Tennessee	State	TN02907	06-30-23
Texas	NELAP	T104704286	09-30-23
US Fish & Wildlife	US Federal Programs	A22340	06-30-23
USDA	US Federal Programs	FLGNV23001	01-08-26
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-23
West Virginia DEP	State	136	03-31-24

Client tricomation	g No(s):
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💸 eurofins	COC No: 280-651543.1	Page: Page 1 of 1	Job #: 280-174860-1	Preservation Codes:	A - HCL B - NaOH C - Zn Acetate	D - Nitric Acid E - NaHSO4				Other:		Special				125	Table 1		of-custody. If the labo tion status should be I	are retained longer than	Archive For			33 वाष			C 450	5
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Eurofins Denver 4955 Yarrow Street Arvada, CO 80002 Phone: 303-736-0100 Fax: 303-431-7171	Client Information (Sub Contract Lab)	Client Contact: Shipping/Receiving	Company: Eurofins Environment Testing Southeast,	Address: 3355 McLemore Drive,	City: Pensacola	State, Zip: FL, 32514	Phone: 850-474-1001(Tel) 850-478-2671(Fax)	Email:	Project Name: Nederland, CO	Site:		D (Lab ID)		OUTFALL-001 (280-174860-1)					Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compiliance maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Test TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compiliance to	Possible Hazard Identification	Unconfirmed	Deliverable Kequested: I, II, III, IV, Other (specify)	Empty Kit Relinquished by:	Relinquished by:	Relinquished by:	Relinquished by:	Custody Seals Intact: Custody Seal No.: Δ Yes Δ No	

Login Sample Receipt Checklist

Client: GS Mining Company LLC Job Number: 280-174860-1

Login Number: 174860 List Source: Eurofins Denver

List Number: 1

Creator: Rystrom, Joshua R

Creator: Rystrom, Joshua R		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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Client: GS Mining Company LLC

Job Number: 280-174860-1

List Source: Eurofins Pensacola
List Number: 2
List Creation: 04/13/23 12:54 PM

Creator: Peckinpaugh, Marshall

oreator. Feckinpaugn, maisnaii		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.4°C IR10
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Patrick Delaney GS Mining Company LLC 422 Gregory Street Central City, Colorado 80427

Generated 5/8/2023 11:13:26 AM

JOB DESCRIPTION

Nederland, CO

JOB NUMBER

280-175722-1

Eurofins Denver 4955 Yarrow Street Arvada CO 80002



Eurofins Denver

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

Authorization

5/8/2023 11:13:26 AM

Authorized for release by Dylan Bieniulis, Project Manager I Dylan.Bieniulis@et.eurofinsus.com (303)736-0138

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Definitions/Glossary

Client: GS Mining Company LLC
Project/Site: Nederland, CO
Job ID: 280-175722-1

Qualifiers

Metals

Qualifier Qualifier Description

B Compound was found in the blank and sample.

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

A	bbreviation	These commonly used abbreviations may or may not be present in this report.
¤		Listed under the "D" column to designate that the result is reported on a dry weight basis
%	R	Percent Recovery
_		

CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins Denver

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Case Narrative

Client: GS Mining Company LLC Project/Site: Nederland, CO

Job ID: 280-175722-1

Job ID: 280-175722-1

Laboratory: Eurofins Denver

Narrative

CASE NARRATIVE

Client: GS Mining Company LLC

Project: Nederland, CO

Report Number: 280-175722-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 04/27/2023; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 4.8 C.

POTENTIALLY DISSOLVED METALS (ICPMS)

Sample OUTFALL-001 (280-175722-1) was analyzed for potentially dissolved metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared on 05/02/2023 and analyzed on 05/03/2023.

This report includes Reporting Limits (RLs) for 200.8 Potentially Dissolved Silver that are less than Eurofins TestAmerica Denver's standard reporting limit. The reported sample results and associated reporting limits are being used specifically to meet the needs of this project. Note that data are not normally reported to these levels without qualification because they are inherently less reliable and potentially less defensible than required by the latest industry standards.

Copper was detected in method blank MB 280-610632/1-B at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL RECOVERABLE METALS (ICPMS)

Sample OUTFALL-001 (280-175722-1) was analyzed for total recoverable metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared and analyzed on 05/02/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Eurofins Denver 5/8/2023

Detection Summary

Client: GS Mining Company LLC Project/Site: Nederland, CO

Job ID: 280-175722-1

Client Sample ID: OUTFALL-001

Lab Sample ID: 280-175722-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	1.1	J	2.0	0.71	ug/L		_	200.8	Total
									Recoverable
Lead	1.8		1.0	0.23	ug/L	1		200.8	Total
									Recoverable
Copper	0.94	JB	2.0	0.71	ug/L	1		200.8	Potentially
									Dissolved
Lead	1.6		1.0	0.23	ug/L	1		200.8	Potentially
									Dissolved
Zinc	5.7	J	10	2.0	ug/L	1		200.8	Potentially
									Dissolved

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Method Summary

Client: GS Mining Company LLC Project/Site: Nederland, CO

Job ID: 280-175722-1

Method	Method Description	Protocol	Laboratory
200.8	Metals (ICP/MS)	EPA	EET DEN
200.8	Preparation, Total Recoverable Metals	EPA	EET DEN
Poten_Diss_Met	Filtration for Potentially Dissolved Metals	EPA	EET DEN

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

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Sample Summary

Client: GS Mining Company LLC Project/Site: Nederland, CO

Job ID: 280-175722-1

 Lab Sample ID
 Client Sample ID
 Matrix
 Collected
 Received

 280-175722-1
 OUTFALL-001
 Water
 04/27/23 13:00
 04/27/23 15:33

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Client Sample Results

Client: GS Mining Company LLC
Project/Site: Nederland, CO

Job ID: 280-175722-1

Method: EPA 200.8 - Metals (ICP/MS) - Total Recoverable

Client Sample ID: OUTFALL-001

Date Collected: 04/27/23 13:00

Lab Sample ID: 280-175722-1

Matrix: Water

Date Received: 04/27/23 15:33

Lead

Silver

Zinc

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	1.1 J	2.0	0.71	ug/L		05/02/23 08:08	05/02/23 19:05	1
Lead	1.8	1.0	0.23	ug/L		05/02/23 08:08	05/02/23 19:05	1

Method: EPA 200.8 - Metals (ICP/MS) - Potentially Dissolved

1.6 ND

5.7 J

Client Sample ID: OUTFALL-001 Date Collected: 04/27/23 13:00							Lab Samı	ole ID: 280-17 Matrix:	
Date Received: 04/27/23 15:33									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		1.0	0.19	ug/L		05/02/23 15:00	05/03/23 09:19	1
Copper	0.94	JB	2.0	0.71	ua/L		05/02/23 15:00	05/03/23 09:19	1

1.0

0.50

10

0.23 ug/L

0.045 ug/L

2.0 ug/L

05/02/23 15:00 05/03/23 09:19

05/02/23 15:00 05/03/23 09:19

05/02/23 15:00 05/03/23 09:19

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Eurofins Denver

Job ID: 280-175722-1

Client: GS Mining Company LLC Project/Site: Nederland, CO

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 280-610522/1-A

Matrix: Water

Analysis Batch: 611022

Client Sample ID: Method Blank Prep Type: Total Recoverable Prep Batch: 610522

Client Sample ID: Lab Control Sample

Client Sample ID: OUTFALL-001

Client Sample ID: OUTFALL-001

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		2.0	0.71	ug/L		05/02/23 08:08	05/02/23 19:01	1
Lead	ND		1.0	0.23	ug/L		05/02/23 08:08	05/02/23 19:01	1

Lab Sample ID: LCS 280-610522/2-A

Matrix: Water			Prep Type: Total Recoverable
Analysis Batch: 611022			Prep Batch: 610522
	Spike	LCS LCS	%Rec

1								,	
	Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
	Copper	40.0	40.7		ug/L		102	90 - 115	
	Lead	40.0	40.3		ug/L		101	88 - 115	

Lab Sample ID: 280-175722-1 MS

Matrix: Water		Prep Type: Total Recoverable
Analysis Batch: 611022		Prep Batch: 610522
	 •	 0/ 5

	Sample	Sample	Spike	IVIO	IVIO				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Copper	1.1	J	40.0	41.2		ug/L		100	90 - 115	
Lead	1.8		40.0	42.5		ug/L		102	88 - 115	

Lab Sample ID: 280-175722-1 MSD

Matrix: Water							F	rep Ty	pe: Total	Recove	erable
Analysis Batch: 611022									Prep Ba	atch: 6	10522
-	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Copper	1.1	J	40.0	41.4		ug/L		101	90 - 115	0	20
Lead	1.8		40.0	42.4		ug/L		101	88 - 115	0	20

Lab Sample ID: MB 280-610632/1-B

Matrix: Water

Analysis Batch: 611069

Client Sample ID: Method Blank Prep Type: Potentially Dissolved

Prep Batch: 610866

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		1.0	0.19	ug/L		05/02/23 15:00	05/03/23 08:54	1
Copper	0.952	J	2.0	0.71	ug/L		05/02/23 15:00	05/03/23 08:54	1
Lead	ND		1.0	0.23	ug/L		05/02/23 15:00	05/03/23 08:54	1
Silver	ND		0.50	0.045	ug/L		05/02/23 15:00	05/03/23 08:54	1
Zinc.	ND		10	2.0	ua/l		05/02/23 15:00	05/03/23 08:54	1

Lab Sample ID: LCS 280-610632/2-B

Matrix: Water

Analysis Batch: 611069

Client Sample ID: Lab Control Sample
Prep Type: Potentially Dissolved
Pron Ratch: 610866

Analysis Baton. 911000	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Cadmium	40.0	38.8		ug/L		97	89 - 111
Copper	40.0	39.3		ug/L		98	90 - 115
Lead	40.0	39.4		ug/L		99	88 - 115
Silver	40.0	39.7		ug/L		99	90 - 114
Zinc	40.0	38.9		ug/L		97	88 - 115

Eurofins Denver

5/8/2023

Page 10 of 15

Client: GS Mining Company LLC Project/Site: Nederland, CO

Job ID: 280-175722-1

Metals

Prep Batch: 610522

Lab Sample ID 280-175722-1	Client Sample ID OUTFALL-001	Prep Type Total Recoverable	Matrix Water	Method 200.8	Prep Batch
MB 280-610522/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-610522/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
280-175722-1 MS	OUTFALL-001	Total Recoverable	Water	200.8	
280-175722-1 MSD	OUTFALL-001	Total Recoverable	Water	200.8	

Filtration Batch: 610632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-175722-1	OUTFALL-001	Potentially Dissolved	Water	Poten_Diss_Met	
MB 280-610632/1-B	Method Blank	Potentially Dissolvec	Water	Poten_Diss_Met	
LCS 280-610632/2-B	Lab Control Sample	Potentially Dissolvec	Water	Poten_Diss_Met	

Prep Batch: 610866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Pro	ep Batch
280-175722-1	OUTFALL-001	Potentially Dissolved	Water	200.8	610632
MB 280-610632/1-B	Method Blank	Potentially Dissolved	Water	200.8	610632
LCS 280-610632/2-B	Lab Control Sample	Potentially Dissolved	Water	200.8	610632

Analysis Batch: 611022

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-175722-1	OUTFALL-001	Total Recoverable	Water	200.8	610522
MB 280-610522/1-A	Method Blank	Total Recoverable	Water	200.8	610522
LCS 280-610522/2-A	Lab Control Sample	Total Recoverable	Water	200.8	610522
280-175722-1 MS	OUTFALL-001	Total Recoverable	Water	200.8	610522
280-175722-1 MSD	OUTFALL-001	Total Recoverable	Water	200.8	610522

Analysis Batch: 611069

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Pr	ep Batch
280-175722-1	OUTFALL-001	Potentially Dissolved	Water	200.8	610866
MB 280-610632/1-B	Method Blank	Potentially Dissolved	Water	200.8	610866
LCS 280-610632/2-B	Lab Control Sample	Potentially Dissolvec	Water	200.8	610866

Lab Chronicle

Job ID: 280-175722-1 Client: GS Mining Company LLC

Project/Site: Nederland, CO

Client Sample ID: OUTFALL-001 Lab Sample ID: 280-175722-1

Date Collected: 04/27/23 13:00 **Matrix: Water** Date Received: 04/27/23 15:33

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Potentially Dissolved	Filtration	Poten_Diss_Met			100 mL	100 mL	610632	04/28/23 18:30	LRD	EET DEN
Potentially Dissolved	Prep	200.8			50 mL	50 mL	610866	05/02/23 15:00	LJS	EET DEN
Potentially Dissolved	Analysis	200.8		1			611069	05/03/23 09:19	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	610522	05/02/23 08:08	LJS	EET DEN
Total Recoverable	Analysis	200.8		1			611022	05/02/23 19:05	LMT	EET DEN

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Accreditation/Certification Summary

Client: GS Mining Company LLC
Project/Site: Nederland, CO

Job ID: 280-175722-1

Laboratory: Eurofins Denver

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	10-31-23
A2LA	ISO/IEC 17025	2907.01	10-31-23
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-08-24
Arizona	State	AZ0713	12-20-23
Arkansas DEQ	State	19-047-0	05-31-23
California	State	2513	01-08-24
Connecticut	State	PH-0686	09-30-24
Florida	NELAP	E87667-57	06-30-23
Georgia	State	4025-011	01-08-24
lowa	State	IA#370	12-01-24
Kansas	NELAP	E-10166	04-30-24
Kentucky (WW)	State	KY98047	12-31-23
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-23
Louisiana (All)	NELAP	30785	06-30-23
Minnesota	NELAP	1788752	12-31-23
Nevada	State	CO000262020-1	07-31-23
New Jersey	NELAP	190002	06-30-23
New York	NELAP	59923	03-31-24
North Carolina (WW/SW)	State	358	12-31-23
North Dakota	State	R-034	01-08-23 *
Oklahoma	NELAP	8614	08-31-23
Oklahoma	State	2018-006	08-31-23
Oregon	NELAP	4025-011	01-10-24
Pennsylvania	NELAP	013	07-31-23
South Carolina	State	72002001	01-08-23 *
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	09-30-23
US Fish & Wildlife	US Federal Programs	058448	07-31-23
USDA	US Federal Programs	P330-20-00065	12-19-25
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-23
Virginia	NELAP	12037	06-14-23
Washington	State	C583-19	08-03-23
West Virginia DEP	State	354	11-30-23
Wisconsin	State	999615430	08-31-23
Wyoming (UST)	A2LA	2907.01	10-31-22 *

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 $^{^{\}star}\,\text{Accreditation/Certification renewal pending - accreditation/certification considered valid}.$

Eurofins Denver

Chain of Custody Record

Seurofins | Environment Testing | America

Eurofins TestAmerica, Denver 4955 Yarrow Street Arvada, CO 80002 Phone (303) 736-0100 Phone (303) 431-7171

	Sampler: 1 _ /	Lab PM:	Carrier Tracking No(s):	Jo/e).	, chi	Γ
Client Information	ا <u>ا</u> ا	Bieníulis, Dylan T		./6/2/		
Cilent Conlact: Patrick Delaney	Phone:	E-Mail: Dylan.Bieniulis@Eurofinset.com	State of Origin:		Page:	T
Company: Grand Island Resources	PWSID:		Analysis Requested		Job #:	Т
Address: 12567 West Cedar Road Suite 250	Due Date Requested:	\vdash			Preservation Codes:	т
Oity: Lakewood	TAT Requested (days):				A - HCL M - Hexane B - NaOH N - None	
State, Zip: CO, 80466	Compliance Project: A Yes A No					
Phone: 315-414-6986	t Require	uosə <u>s)</u>			F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4	
olackfoxmining.com	:#OM	(o) Sletals		_		
Project Name: Wastewater Discharge - Nederland, CO	Project #: 28022821	pəvio		tainera		
Sile: second half of the month event	SSOW#:	So () (ly Disa ()			Other:	
Sample Identification	Sample Date Time G=crab) R	Matrix Matrix Ossession Ossession Ossession Districts Distri		otal Number o	e de la constant de l	T
	Preserva			· X	Special filstructions/Note:	1
OUTTALL - 001	4/27/23/3:00 6	×			*Second half of the month potentially dissolved metals permit list = 200 8 (Cd	T
4.0					Cu, Pb, Ag, Zn)	
f 45					*Second half of the month total recoverable metals permit list = 200.8 (Cu, Pb)	m
				Ša.	DH=	
					Lemp =	Τ
				•	9	
						_
		280-175722 C	Chain of Custody			
Iden		Sample Disposal (Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	nples are retaine	d longer thạn 1 month)	_
le Skin Irritant	Poison B Unknown Radiological	Return To Client	ent Disposal By Lab	Archi	Archive For Months	
Deliverable (Specify)		Special Instructions/QC Requirements:	QC Requirements:			
Empty Kit Relinquished by:	Date:	Time:	Wethod of Shipment:	hipment:		т-
Relinquished by:		Company Received by		Date/Time:	Сотрапу	т —
Relinquished by:	Date/Time:	Company Received by:		Date/Time:	Сотрапу	Т
0	Date (Time: 127 3: 35)	Company C Received to	July 1	Date/Tips 7/5	51533 EMYPE	
Custody Seals Intact: Custody Seal No.:		Cooler Temperature	Cobler Temperature(s) °C and Other Remarks:	7 (P.14	1.03	T

Login Sample Receipt Checklist

Client: GS Mining Company LLC Job Number: 280-175722-1

Login Number: 175722 List Source: Eurofins Denver

List Number: 1

Creator: Roehsner, Karen P

Creator: Roensner, Karen P		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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APPENDIX B.2 MAY 2023 OUTFALL-001 ANALYTICAL RESULTS

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ANALYTICAL REPORT

PREPARED FOR

Attn: Patrick Delaney GS Mining Company LLC 422 Gregory Street Central City, Colorado 80427

Generated 6/15/2023 1:27:11 PM

JOB DESCRIPTION

Nederland, CO

JOB NUMBER

280-176346-1

Eurofins Denver 4955 Yarrow Street Arvada CO 80002



Eurofins Denver

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

Authorization

6/15/2023 1:27:11 PM

Authorized for release by Dylan Bieniulis, Project Manager I Dylan.Bieniulis@et.eurofinsus.com (303)736-0138

Page 2 of 24

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Certification Summary	22
Chain of Custody	23
Receipt Checklists	24

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Definitions/Glossary

Client: GS Mining Company LLC Job ID: 280-176346-1 Project/Site: Nederland, CO

Qualifiers

Metals

Qualifier **Qualifier Description**

В Compound was found in the blank and sample.

Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. J

General Chemistry

Qualifier **Qualifier Description** *+ LCS and/or LCSD is outside acceptance limits, high biased.

Н Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.

HF Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery **CFL** Contains Free Liquid CFU Colony Forming Unit **CNF** Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DΙ Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

Estimated Detection Limit (Dioxin) **EDL** LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level" MCL MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit Minimum Level (Dioxin) MI MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

Not Detected at the reporting limit (or MDL or EDL if shown) ND

NEG Negative / Absent POS Positive / Present

Practical Quantitation Limit PQL

PRES Presumptive **Quality Control** QC

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin) TEQ

TNTC Too Numerous To Count

Eurofins Denver

Page 4 of 24 6/15/2023

Client: GS Mining Company LLC Project/Site: Nederland, CO

Job ID: 280-176346-1

Job ID: 280-176346-1

Laboratory: Eurofins Denver

Narrative

CASE NARRATIVE

Client: GS Mining Company LLC

Project: Nederland, CO

Report Number: 280-176346-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 05/11/2023; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 5.9 C.

TOTAL RECOVERABLE METALS (ICP)

Sample OUTFALL 001 (280-176346-1) was analyzed for Total Recoverable Metals (ICP) in accordance with EPA Method 200.7. The samples were prepared on 05/12/2023 and analyzed on 05/18/2023.

Iron was detected in method blank MB 280-612163/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

POTENTIALLY DISSOLVED METALS (ICPMS)

Sample OUTFALL 001 (280-176346-1) was analyzed for potentially dissolved metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared on 05/15/2023 and analyzed on 05/16/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL RECOVERABLE METALS (ICPMS)

Sample OUTFALL 001 (280-176346-1) was analyzed for total recoverable metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared on 05/12/2023 and analyzed on 05/19/2023.

Chromium was detected in method blank MB 280-612163/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL MERCURY (CVAA)

Sample OUTFALL 001 (280-176346-1) was analyzed for total mercury (CVAA) in accordance with EPA Method 245.1. The samples were

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Client: GS Mining Company LLC Project/Site: Nederland, CO

Job ID: 280-176346-1

Job ID: 280-176346-1 (Continued)

Laboratory: Eurofins Denver (Continued)

prepared on 05/23/2023 and analyzed on 05/24/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TRIVALENT CHROMIUM - POTENTIALLY DISSOLVED

Sample OUTFALL 001 (280-176346-1) was analyzed for Trivalent Chromium - Potentially Dissolved in accordance with SM3500_CR3_B. The samples were analyzed on 05/26/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TRIVALENT CHROMIUM - TOTAL RECOVERABLE

Sample OUTFALL 001 (280-176346-1) was analyzed for Trivalent Chromium - Total Recoverable in accordance with SM3500_CR3_B. The samples were analyzed on 05/22/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SPECIFIC CONDUCTIVITY

Sample OUTFALL 001 (280-176346-1) was analyzed for specific conductivity in accordance with SM20 2510B. The samples were analyzed on 05/23/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL SUSPENDED SOLIDS

Sample OUTFALL 001 (280-176346-1) was analyzed for total suspended solids in accordance with SM20 2540D. The samples were analyzed on 05/17/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED HEXAVALENT CHROMIUM

Sample OUTFALL 001 (280-176346-1) was analyzed for dissolved hexavalent chromium in accordance with SM 3500 CR B. The samples were analyzed on 05/11/2023.

Chromium, hexavalent failed the recovery criteria high for LCS 280-612154/3-A. The analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported. Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HEXAVALENT CHROMIUM

Sample OUTFALL 001 (280-176346-1) was analyzed for hexavalent chromium in accordance with 3500_CR_B. The samples were analyzed on 05/11/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

CORROSIVITY (PH)

Sample OUTFALL 001 (280-176346-1) was analyzed for corrosivity (pH) in accordance with SM20 4500 H+ B. The samples were analyzed on 05/19/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SULFIDE

Sample OUTFALL 001 (280-176346-1) was analyzed for sulfide in accordance with SM20 4500 S2 D. The samples were analyzed on 05/17/2023.

Sulfide was detected in method blank MB 280-612886/11 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL,

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Client: GS Mining Company LLC Project/Site: Nederland, CO

Job ID: 280-176346-1

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Job ID: 280-176346-1 (Continued)

Laboratory: Eurofins Denver (Continued)

the result has been flagged. Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HYDROGEN SULFIDE

Sample OUTFALL 001 (280-176346-1) was analyzed for Hydrogen Sulfide in accordance with SM20 4500 S2 H. The samples were analyzed on 05/24/2023.

 $No \ analytical \ or \ quality \ issues \ were \ noted, \ other \ than \ those \ described \ above \ or \ in \ the \ Definitions/Glossary \ page.$

Detection Summary

Client: GS Mining Company LLC Project/Site: Nederland, CO

Job ID: 280-176346-1

Client Sample ID: OUTFALL 001

Lab Sample ID: 280-176346-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	80	J B	100	9.1	ug/L	1	_	200.7 Rev 4.4	Total
									Recoverable
Chromium	1.1	JB	3.0	0.50	ug/L	1		200.8	Total
									Recoverable
Copper	1.4	J	2.0	0.71	ug/L	1		200.8	Total
									Recoverable
Lead	2.5		1.0	0.23	ug/L	1		200.8	Total
									Recoverable
Zinc	3.9	J	10	2.0	ug/L	1		200.8	Total
									Recoverable
Copper	0.88	J	2.0	0.71	ug/L	1		200.8	Potentially
									Dissolved
Lead	2.1		1.0	0.23	ug/L	1		200.8	Potentially
7	40		40	0.0	/1			000 0	Dissolved
Zinc	10		10	2.0	ug/L	1		200.8	Potentially
Specific Conductores	180		2.0	2.0	umhos/cm	1		SM 2510B	Dissolved
Specific Conductance									Total/NA
pH adj. to 25 deg C		HF	0.1	0.1		1		SM 4500 H+ B	Total/NA
Temperature	20.1	HF	1.0	1.0	Degrees C	1		SM 4500 H+ B	Total/NA
Field pH	8.1		1.0	1.0	SU	1		SM4500 S2 H	Total/NA
Field Temperature	20		1.0	1.0	Celsius	1		SM4500 S2 H	Total/NA
Specific Conductance	180		2.0	2.0	umhos/cm	1		SM4500 S2 H	Total/NA

This Detection Summary does not include radiochemical test results.

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Method Summary

Client: GS Mining Company LLC Project/Site: Nederland, CO

Job ID: 280-176346-1

Method	Method Description	Protocol	Laboratory
200.7 Rev 4.4	Metals (ICP)	EPA	EET DEN
200.8	Metals (ICP/MS)	EPA	EET DEN
245.1	Mercury (CVAA)	EPA	EET DEN
SM 2510B	Conductivity, Specific Conductance	SM	EET DEN
SM 2540D	Solids, Total Suspended (TSS)	SM	EET DEN
SM 3500 CR B	Chromium, Hexavalent	SM	EET DEN
SM 4500 H+ B	рН	SM	EET DEN
SM 4500 S2 D	Sulfide, Total	SM	EET DEN
SM3500 CR B	Chromium, Trivalent	SM	EET DEN
SM4500 S2 H	Unionized Hydrogen Sulfide	SM	EET DEN
200.7	Preparation, Total Recoverable Metals	EPA	EET DEN
200.8	Preparation, Total Recoverable Metals	EPA	EET DEN
245.1	Preparation, Mercury	EPA	EET DEN
ILTRATION	Sample Filtration	None	EET DEN
Poten Diss Met	Filtration for Potentially Dissolved Metals	EPA	EET DEN

Protocol References:

EPA = US Environmental Protection Agency

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Eurofins Denver

6/15/2023

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Sample Summary

Client: GS Mining Company LLC Project/Site: Nederland, CO

Job ID: 280-176346-1

 Lab Sample ID
 Client Sample ID
 Matrix
 Collected
 Received

 280-176346-1
 OUTFALL 001
 Water
 05/11/23 09:45
 05/11/23 13:10

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Client: GS Mining Company LLC Job ID: 280-176346-1 Project/Site: Nederland, CO

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Client Sample ID: OUTFALL 001 Lab Sample ID: 280-176346-1 Date Collected: 05/11/23 09:45 **Matrix: Water**

Date Received: 05/11/23 13:10

Analyte RL **MDL** Unit Prepared Dil Fac Result Qualifier D Analyzed 100 9.1 ug/L 05/12/23 07:43 05/18/23 13:35 Iron 80 JB

Method: EPA 200.8 - Metals (ICP/MS) - Total Recoverable

Client Sample ID: OUTFALL 001 Lab Sample ID: 280-176346-1 Date Collected: 05/11/23 09:45 **Matrix: Water**

Date Received: 05/11/23 13:10									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		05/12/23 07:43	05/19/23 03:28	1
Cadmium	ND		1.0	0.19	ug/L		05/12/23 07:43	05/19/23 03:28	1
Chromium	1.1	JB	3.0	0.50	ug/L		05/12/23 07:43	05/19/23 03:28	1
Copper	1.4	J	2.0	0.71	ug/L		05/12/23 07:43	05/19/23 03:28	1
Lead	2.5		1.0	0.23	ug/L		05/12/23 07:43	05/19/23 03:28	1
Zinc	3.9	J	10	2.0	ug/L		05/12/23 07:43	05/19/23 03:28	1

Method: EPA 200.8 - Metals (ICP/MS) - Potentially Dissolved

Client Sample ID: OUTFALL 001 Lab Sample ID: 280-176346-1 Date Collected: 05/11/23 09:45 **Matrix: Water**

Date Received: 05/11/23								Matrix	· · · · · ·
Analyte	Result C	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND ND		5.0	0.50	ug/L		05/15/23 14:55	05/16/23 00:45	1
Cadmium	ND		1.0	0.19	ug/L		05/15/23 14:55	05/16/23 00:45	1
Chromium	ND		3.0	0.50	ug/L		05/15/23 14:55	05/16/23 00:45	1
Copper	0.88 J	J	2.0	0.71	ug/L		05/15/23 14:55	05/16/23 00:45	1
Lead	2.1		1.0	0.23	ug/L		05/15/23 14:55	05/16/23 00:45	1
Manganese	ND		3.0	0.51	ug/L		05/15/23 14:55	05/16/23 00:45	1
Nickel	ND		3.0	0.83	ug/L		05/15/23 14:55	05/16/23 00:45	1
Selenium	ND		5.0	1.0	ug/L		05/15/23 14:55	05/16/23 00:45	1
Silver	ND		0.50	0.045	ug/L		05/15/23 14:55	05/16/23 00:45	1
Zinc	10		10	2.0	ug/L		05/15/23 14:55	05/16/23 00:45	1

Method: EPA 245.1 - Mercury (CVAA)

Client Sample ID: OUTFALL 001 Lab Sample ID: 280-176346-1 **Matrix: Water**

Date Collected: 05/11/23 09:45 Date Received: 05/11/23 13:10

Analyte Result Qualifier RL Dil Fac **MDL** Unit Prepared Analyzed 05/23/23 17:26 05/24/23 01:07 Mercury ND 0.20 0.061 ug/L

General Chemistry

Client Sample ID: OUTFALL 001 Lab Sample ID: 280-176346-1 Date Collected: 05/11/23 09:45 **Matrix: Water**

Date Received: 05/11/23 13:10									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (SM 2510B)	180		2.0	2.0	umhos/cm			05/23/23 10:58	1
Total Suspended Solids (SM 2540D)	ND		4.0	1.1	mg/L			05/17/23 18:34	1
Chromium, hexavalent (SM 3500 CR B)	ND		0.020	0.0040	mg/L			05/11/23 15:45	1
pH adj. to 25 deg C (SM 4500 H+ B	8.1	HF	0.1	0.1	SU			05/19/23 15:35	1
Temperature (SM 4500 H+ B)	20.1	HF	1.0	1.0	Degrees C			05/19/23 15:35	1

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Client Sample Results

Client: GS Mining Company LLC Job ID: 280-176346-1 Project/Site: Nederland, CO

General Chemistry (Continued)

Client Sample ID: OUTFALL 001	Lab Sample ID: 280-176346-1
Date Collected: 05/11/23 09:45	Matrix: Water

Date Received: 05/11/23 13:10

Date Received. 05/11/25 15.10									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 D)	ND		0.050	0.022	mg/L			05/17/23 18:29	1
Un-ionized Hydrogen Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			05/24/23 13:58	1
Field pH (SM4500 S2 H)	8.1		1.0	1.0	SU			05/24/23 13:58	1
Field Temperature (SM4500 S2 H)	20		1.0	1.0	Celsius			05/24/23 13:58	1
Specific Conductance (SM4500 S2 H)	180		2.0	2.0	umhos/cm			05/24/23 13:58	1
Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			05/24/23 13:58	1

General Chemistry - Total Recoverable

Client Sample ID: OUTFALL 001	Lab Sample ID: 280-176346-1
Date Collected: 05/11/23 09:45	Matrix: Water

Date Collected: 05/11/23 09:45 Date Received: 05/11/23 13:10

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Chromium, trivalent (SM3500 CR B) ND H 0.020 0.020 mg/L 05/22/23 10:36

General Chemistry - Dissolved

Client Sample ID: OUTFALL 001	Lab Sample ID: 280-176346-1
Date Collected: 05/11/23 09:45	Matrix: Water

Date Received: 05/11/23 13:10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent (SM 3500 CR	ND	*+	0.020	0.0040	mg/L			05/11/23 15:45	1
B)									

General Chemistry - Potentially Dissolved

Client Sample ID: OUTFALL 001	Lab Sample ID: 280-176346-1
Date Collected: 05/11/23 09:45	Matrix: Water

Date Received: 05/11/23 13:10

Date Received, 05/11/25 15.10									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, trivalent (dissolved)	ND		0.020	0.020	mg/L			05/26/23 06:59	1
(SM3500 CR B)									

Eurofins Denver

Client: GS Mining Company LLC Job ID: 280-176346-1 Project/Site: Nederland, CO

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Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 280-612163/1-A

Matrix: Water

Analyte

Analyte

Iron

Iron

Iron

Analysis Batch: 613111

Client Sample ID: Method Blank **Prep Type: Total Recoverable Prep Batch: 612163**

05/12/23 07:43 05/18/23 13:26

Client Sample ID: Lab Control Sample

Analyzed Dil Fac Prepared

Lab Sample ID: LCS 280-612163/2-A

Matrix: Water

Analysis Batch: 613111

Spike Added 10000

LCS LCS 10700

Result Qualifier

MDL Unit

9.1 ug/L

Unit D %Rec ug/L

85 - 115

%Rec

Limits

%Rec

Limits

70 - 130

107

Prep Type: Total Recoverable

Prep Batch: 612163

Lab Sample ID: 280-176346-1 MS Client Sample ID: OUTFALL 001 **Matrix: Water Prep Type: Total Recoverable**

Matrix: Water

Analysis Batch: 613111

Analyte

Sample Sample Spike Result Qualifier Added 80 JB 10000

MB MB Result Qualifier

11.1 J

10500

MS MS Result Qualifier Unit ug/L

%Rec

Client Sample ID: OUTFALL 001 Prep Type: Total Recoverable

Prep Batch: 612163

Analysis Batch: 613111 Prep Batch: 612163 Spike MSD MSD %Rec **RPD** Sample Sample %Rec Analyte Result Qualifier Added Result Qualifier Unit Limits **RPD** Limit 80 JB 10000 10800 Iron ug/L 107 70 - 130 20

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: 280-176346-1 MSD

Lab Sample ID: MB 280-612163/1-A

Matrix: Water

Analysis Batch: 613118

Client Sample ID: Method Blank **Prep Type: Total Recoverable Prep Batch: 612163**

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		05/12/23 07:43	05/19/23 03:24	1
Cadmium	ND		1.0	0.19	ug/L		05/12/23 07:43	05/19/23 03:24	1
Chromium	1.01	J	3.0	0.50	ug/L		05/12/23 07:43	05/19/23 03:24	1
Copper	ND		2.0	0.71	ug/L		05/12/23 07:43	05/19/23 03:24	1
Lead	ND		1.0	0.23	ug/L		05/12/23 07:43	05/19/23 03:24	1
Zinc	ND		10	2.0	ug/L		05/12/23 07:43	05/19/23 03:24	1

Lab Sample ID: LCS 280-612163/20-A

Matrix: Water

Analysis Batch: 613118

Client Sample ID: Lab Control Sample Prep Type: Total Recoverable

Spike LCS LCS %Rec Added Analyte Result Qualifier D Limits Unit %Rec 40.0 Arsenic 39.3 ug/L 98 89 - 111 Cadmium 40.0 40.5 ug/L 101 89 - 111 43.0 40.0 ug/L 107 Chromium 86 - 115 39.2 Copper 40.0 ug/L 98 90 - 115 Lead 40 0 41.7 ug/L 104 88 - 115 Zinc 40.0 41.0 ug/L 103 88 - 115

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Prep Batch: 612163

Job ID: 280-176346-1

Client: GS Mining Company LLC Project/Site: Nederland, CO

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: 280-176346-1 MS

Matrix: Water

Analysis Batch: 613118

Client Sample ID: OUTFALL 001 **Prep Type: Total Recoverable**

Prep Batch: 612163

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Arsenic	ND		40.0	41.3		ug/L		103	79 - 120	
Cadmium	ND		40.0	41.4		ug/L		104	89 - 111	
Chromium	1.1	JB	40.0	42.2		ug/L		103	86 - 115	
Copper	1.4	J	40.0	40.5		ug/L		98	90 - 115	
Lead	2.5		40.0	43.9		ug/L		103	88 - 115	
Zinc	3.9	J	40.0	41.6		ug/L		94	88 - 115	

Lab Sample ID: 280-176346-1 MSD Client Sample ID: OUTFALL 001

Matrix: Water

Analysis Batch: 613118

Prep Type: Total Recoverable

Prep Batch: 612163

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	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Arsenic	ND		40.0	40.8		ug/L		102	79 - 120	1	20
Cadmium	ND		40.0	39.6		ug/L		99	89 - 111	5	20
Chromium	1.1	JB	40.0	42.0		ug/L		102	86 - 115	0	20
Copper	1.4	J	40.0	39.3		ug/L		95	90 - 115	3	20
Lead	2.5		40.0	43.8		ug/L		103	88 - 115	0	20
Zinc	3.9	J	40.0	43.3		ug/L		98	88 - 115	4	20

Lab Sample ID: MB 280-612179/1-B Client Sample ID: Method Blank **Matrix: Water Prep Type: Potentially Dissolved Analysis Batch: 612609**

Prep Batch: 612430 MR MR

	11.0	1410							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		05/15/23 14:55	05/16/23 00:18	1
Cadmium	ND		1.0	0.19	ug/L		05/15/23 14:55	05/16/23 00:18	1
Chromium	ND		3.0	0.50	ug/L		05/15/23 14:55	05/16/23 00:18	1
Copper	ND		2.0	0.71	ug/L		05/15/23 14:55	05/16/23 00:18	1
Lead	ND		1.0	0.23	ug/L		05/15/23 14:55	05/16/23 00:18	1
Manganese	ND		3.0	0.51	ug/L		05/15/23 14:55	05/16/23 00:18	1
Nickel	ND		3.0	0.83	ug/L		05/15/23 14:55	05/16/23 00:18	1
Selenium	ND		5.0	1.0	ug/L		05/15/23 14:55	05/16/23 00:18	1
Silver	ND		0.50	0.045	ug/L		05/15/23 14:55	05/16/23 00:18	1
Zinc	ND		10	2.0	ug/L		05/15/23 14:55	05/16/23 00:18	1

Lab Sample ID: LCS 280-612179/2-B

Matrix: Water

Analysis Batch: 612609

Client Sample ID: Lab Control Sample Prep Type: Potentially Dissolved

Prep Batch: 612430

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Arsenic	40.0	38.9		ug/L		97	89 - 111	
Cadmium	40.0	39.8		ug/L		99	89 - 111	
Chromium	40.0	39.2		ug/L		98	86 - 115	
Copper	40.0	38.4		ug/L		96	90 - 115	
Lead	40.0	39.7		ug/L		99	88 - 115	
Manganese	40.0	39.9		ug/L		100	87 - 115	
Nickel	40.0	37.7		ug/L		94	86 - 115	
Selenium	40.0	40.3		ug/L		101	85 - 114	
Silver	40.0	40.3		ug/L		101	90 - 114	

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Client: GS Mining Company LLC Job ID: 280-176346-1 Project/Site: Nederland, CO

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 280-612179/2-B **Client Sample ID: Lab Control Sample Matrix: Water Prep Type: Potentially Dissolved Analysis Batch: 612609 Prep Batch: 612430**

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Zinc 40.0 40.8 ug/L 102 88 - 115

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 280-613507/1-A Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 613659 Prep Batch: 613507

MB MB Analyte Result Qualifier RL **MDL** Unit **Prepared** Analyzed Dil Fac Mercury ND 0.20 0.061 ug/L 05/23/23 17:26 05/24/23 00:49

Lab Sample ID: LCS 280-613507/2-A **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Prep Batch: 613507 **Analysis Batch: 613659** LCS LCS Spike %Rec

Added Analyte Result Qualifier Unit %Rec Limits 5.00 Mercury 4.74 ug/L 95 90 - 110

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: MB 280-613464/5 Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 613464

MB MB Result Qualifier RL MDL Unit Analyte D Prepared Analyzed Dil Fac Specific Conductance 20 05/23/23 10:58 ND 2.0 umhos/cm

Lab Sample ID: LCS 280-613464/4 Client Sample ID: Lab Control Sample **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 613464

Spike LCS LCS %Rec Analyte Added Result Qualifier %Rec Limits Unit

Specific Conductance 1410 1490 umhos/cm 106 90 - 110

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 280-612884/3 Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 612884

MB MB

Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Total Suspended Solids ND 4.0 1.1 mg/L 05/17/23 18:33

Lab Sample ID: LCS 280-612884/1 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 612884

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits

Total Suspended Solids 502 447 mg/L 89 79 - 114

Eurofins Denver

6/15/2023

Client: GS Mining Company LLC Job ID: 280-176346-1

Project/Site: Nederland, CO Method: SM 2540D - Solids, Total Suspended (TSS) (Continued)

Lab Sample ID: LCSD 280-612884/2 **Matrix: Water**

Analysis Batch: 612884

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Total Suspended Solids	502	457		mg/L		91	79 - 114	2	20	

Method: SM 3500 CR B - Chromium, Hexavalent

Lab Sample ID: MB 280-612263/64 **Client Sample ID: Method Blank** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 612263

MB MB Result Qualifier RL **MDL** Unit

Prepared Analyzed Dil Fac 0.020 0.0040 mg/L $\overline{\mathsf{ND}}$ 05/11/23 14:44 Chromium, hexavalent

Lab Sample ID: MB 280-612263/65 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 612263

MB MB

Result Qualifier RL **MDL** Unit Dil Fac Analyte Prepared Analyzed 0.020 05/11/23 14:43 Chromium, hexavalent ND 0.0040 mg/L

Lab Sample ID: LCS 280-612263/68 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 612263

LCS LCS Spike %Rec Added Analyte Result Qualifier Unit %Rec Limits Chromium, hexavalent 0.100 0.103 103 91 - 112 mg/L

Lab Sample ID: LCSD 280-612263/66

Matrix: Water

Analysis Batch: 612263

LCSD LCSD **RPD** Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits RPD Limit

Chromium, hexavalent 0.100 0.102 mg/L

Lab Sample ID: LCSD 280-612263/67

Matrix: Water

Analysis Batch: 612263

LCSD LCSD RPD Spike %Rec Added Result Qualifier RPD Limit Analyte Unit %Rec Limits Chromium, hexavalent 0.100 0.102 102 91 - 112 mg/L

Lab Sample ID: MB 280-612154/5-A

Matrix: Water

Analysis Batch: 612263

MB MB

Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Chromium, hexavalent 0.020 0.0040 mg/L 05/11/23 17:14 ND

Eurofins Denver

Client Sample ID: Lab Control Sample Dup

Client Sample ID: Lab Control Sample Dup

Client Sample ID: Lab Control Sample Dup

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Dissolved

Prep Type: Total/NA

Client: GS Mining Company LLC Project/Site: Nederland, CO

Job ID: 280-176346-1

Method: SM 3500 CR B - Chromium, Hexavalent (Continued)

Lab Sample ID: LCS 280-612154/3-A

Matrix: Water

Analysis Batch: 612263

Client Sample ID: Lab Control Sample Prep Type: Dissolved

Spike LCS LCS %Rec Added Result Qualifier %Rec Limits Analyte Unit 0.477 *+ Chromium, hexavalent 0.100 mg/L 477 91 - 112

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 280-613264/5 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 613264

LCS LCS %Rec Spike Analyte Added Result Qualifier Unit D %Rec Limits 7.00 SU 7.1 101 99 - 101 pH adj. to 25 deg C

Method: SM 4500 S2 D - Sulfide, Total

Lab Sample ID: MB 280-612886/11 **Client Sample ID: Method Blank** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 612886

MB MB Result Qualifier RL **MDL** Unit Dil Fac Analyte Prepared Analyzed Sulfide 0.050 05/17/23 18:18 0.0225 J 0.022 mg/L

Lab Sample ID: LCS 280-612886/9 **Client Sample ID: Lab Control Sample Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 612886

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits 0.501 Sulfide 0.454 91 81 - 122 mg/L

Lab Sample ID: LCSD 280-612886/10 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Matrix: Water

Analysis Batch: 612886

Spike LCSD LCSD %Rec **RPD** Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Sulfide 0.501 0.446 mg/L 81 - 122

Method: SM4500 S2 H - Unionized Hydrogen Sulfide

Lab Sample ID: MB 280-613665/1 Client Sample ID: Method Blank **Matrix: Water Prep Type: Total/NA**

Analysis Batch: 613665

MB MB Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Un-ionized Hydrogen Sulfide ND 1.0 1.0 mg/L 05/24/23 13:58 ND Field pH 1.0 SU 05/24/23 13:58 10 Field Temperature ND 1.0 Celsius 05/24/23 13:58 Specific Conductance ND 2.0 05/24/23 13:58 2.0 umhos/cm Sulfide ND 1.0 1.0 mg/L 05/24/23 13:58

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Client: GS Mining Company LLC
Project/Site: Nederland, CO

Job ID: 280-176346-1

Metals

Prep Batch: 612163

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-176346-1	OUTFALL 001	Total Recoverable	Water	200.7	
280-176346-1	OUTFALL 001	Total Recoverable	Water	200.8	
MB 280-612163/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 280-612163/20-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCS 280-612163/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
280-176346-1 MS	OUTFALL 001	Total Recoverable	Water	200.7	
280-176346-1 MS	OUTFALL 001	Total Recoverable	Water	200.8	
280-176346-1 MSD	OUTFALL 001	Total Recoverable	Water	200.7	
280-176346-1 MSD	OUTFALL 001	Total Recoverable	Water	200.8	

Filtration Batch: 612179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-612179/1-B	Method Blank	Potentially Dissolved	Water	Poten_Diss_Met	
LCS 280-612179/2-B	Lab Control Sample	Potentially Dissolved	Water	Poten_Diss_Met	

Filtration Batch: 612331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-176346-1	OUTFALL 001	Potentially Dissolved	Water	Poten_Diss_Met	

Prep Batch: 612430

Lab Sample ID 280-176346-1	Client Sample ID OUTFALL 001	Prep Type Potentially Dissolved	Matrix Water	Method	Prep Batch 612331
MB 280-612179/1-B	Method Blank	Potentially Dissolved		200.8	612179
LCS 280-612179/2-B	Lab Control Sample	Potentially Dissolved	Water	200.8	612179

Analysis Batch: 612609

Lab Sample ID 280-176346-1	Client Sample ID OUTFALL 001	Prep Type Potentially Dissolved	Matrix Water	Method	Prep Batch 612430
MB 280-612179/1-B	Method Blank	Potentially Dissolved		200.8	612430
LCS 280-612179/2-B	Lab Control Sample	Potentially Dissolvec	Water	200.8	612430

Analysis Batch: 613111

Lab Sample ID 280-176346-1	Client Sample ID OUTFALL 001	Prep Type Total Recoverable	Matrix Water	Method 200.7 Rev 4.4	Prep Batch 612163
MB 280-612163/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	612163
LCS 280-612163/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	612163
280-176346-1 MS	OUTFALL 001	Total Recoverable	Water	200.7 Rev 4.4	612163
280-176346-1 MSD	OUTFALL 001	Total Recoverable	Water	200.7 Rev 4.4	612163

Analysis Batch: 613118

Lab Sample ID 280-176346-1	Client Sample ID OUTFALL 001	Prep Type Total Recoverable	Matrix Water	Method 200.8	Prep Batch 612163
MB 280-612163/1-A	Method Blank	Total Recoverable	Water	200.8	612163
LCS 280-612163/20-A	Lab Control Sample	Total Recoverable	Water	200.8	612163
280-176346-1 MS	OUTFALL 001	Total Recoverable	Water	200.8	612163
280-176346-1 MSD	OUTFALL 001	Total Recoverable	Water	200.8	612163

Prep Batch: 613507

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch		
280-176346-1	OUTFALL 001	Total/NA	Water	245.1			
MB 280-613507/1-A	Method Blank	Total/NA	Water	245.1			

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Client: GS Mining Company LLC Project/Site: Nederland, CO

Job ID: 280-176346-1

Metals (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 280-613507/2-A	Lab Control Sample	Total/NA	Water	245.1	

Analysis Batch: 613659

Lab Sam 280-1763		Prep Ty Total/NA	<u> </u>	Method 245.1	Prep Batch 613507
MB 280-6	613507/1-A Method Blank	Total/NA	Water	245.1	613507
LCS 280-	-613507/2-A Lab Control Samp	ole Total/NA	Water	245.1	613507

General Chemistry

Filtration Batch: 612154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-176346-1	OUTFALL 001	Dissolved	Water	FILTRATION	
MB 280-612154/5-A	Method Blank	Dissolved	Water	FILTRATION	
LCS 280-612154/3-A	Lab Control Sample	Dissolved	Water	FILTRATION	

Analysis Batch: 612263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-176346-1	OUTFALL 001	Dissolved	Water	SM 3500 CR B	612154
280-176346-1	OUTFALL 001	Total/NA	Water	SM 3500 CR B	
MB 280-612154/5-A	Method Blank	Dissolved	Water	SM 3500 CR B	612154
MB 280-612263/64	Method Blank	Total/NA	Water	SM 3500 CR B	
MB 280-612263/65	Method Blank	Total/NA	Water	SM 3500 CR B	
LCS 280-612154/3-A	Lab Control Sample	Dissolved	Water	SM 3500 CR B	612154
LCS 280-612263/68	Lab Control Sample	Total/NA	Water	SM 3500 CR B	
LCSD 280-612263/66	Lab Control Sample Dup	Total/NA	Water	SM 3500 CR B	
LCSD 280-612263/67	Lab Control Sample Dup	Total/NA	Water	SM 3500 CR B	

Analysis Batch: 612884

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-176346-1	OUTFALL 001	Total/NA	Water	SM 2540D	
MB 280-612884/3	Method Blank	Total/NA	Water	SM 2540D	
LCS 280-612884/1	Lab Control Sample	Total/NA	Water	SM 2540D	
LCSD 280-612884/2	Lab Control Sample Dup	Total/NA	Water	SM 2540D	

Analysis Batch: 612886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-176346-1	OUTFALL 001	Total/NA	Water	SM 4500 S2 D	
MB 280-612886/11	Method Blank	Total/NA	Water	SM 4500 S2 D	
LCS 280-612886/9	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
LCSD 280-612886/10	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 D	

Analysis Batch: 613264

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-176346-1	OUTFALL 001	Total/NA	Water	SM 4500 H+ B	
LCS 280-613264/5	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 613302

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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-176346-1	OUTFALL 001	Total Recoverable	Water	SM3500 CR B	

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6/15/2023

Client: GS Mining Company LLC
Project/Site: Nederland, CO

Job ID: 280-176346-1

General Chemistry

Analysis Batch: 613464

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-176346-1	OUTFALL 001	Total/NA	Water	SM 2510B	
MB 280-613464/5	Method Blank	Total/NA	Water	SM 2510B	
LCS 280-613464/4	Lab Control Sample	Total/NA	Water	SM 2510B	

Analysis Batch: 613665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-176346-1	OUTFALL 001	Total/NA	Water	SM4500 S2 H	_
MB 280-613665/1	Method Blank	Total/NA	Water	SM4500 S2 H	

Analysis Batch: 613892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-176346-1	OUTFALL 001	Potentially Dissolved	Water	SM3500 CR B	

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Lab Chronicle

Client: GS Mining Company LLC

Job ID: 280-176346-1

Project/Site: Nederland, CO

Client Sample ID: OUTFALL 001 Lab Sample ID: 280-176346-1

Date Collected: 05/11/23 09:45
Date Received: 05/11/23 13:10

Matrix: Water

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.7			50 mL	50 mL	612163	05/12/23 07:43	LJS	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			613111	05/18/23 13:35	ADL	EET DEN
Potentially Dissolved	Filtration	Poten_Diss_Met			250 mL	250 mL	612331	05/12/23 14:59	KMS	EET DEN
Potentially Dissolved	Prep	200.8			50 mL	50 mL	612430	05/15/23 14:55	LJS	EET DEN
Potentially Dissolved	Analysis	200.8		1			612609	05/16/23 00:45	LRD	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	612163	05/12/23 07:43	LJS	EET DEN
Total Recoverable	Analysis	200.8		1			613118	05/19/23 03:28	LRD	EET DEN
Total/NA	Prep	245.1			30 mL	50 mL	613507	05/23/23 17:26	PFM	EET DEN
Total/NA	Analysis	245.1		1			613659	05/24/23 01:07	PFM	EET DEN
Total/NA	Analysis	SM 2510B		1			613464	05/23/23 10:58	KEG	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	612884	05/17/23 18:34	MCR	EET DEN
Dissolved	Filtration	FILTRATION			2 mL	2 mL	612154	05/11/23 14:47	SL	EET DEN
Dissolved	Analysis	SM 3500 CR B		1	2 mL	2 mL	612263	05/11/23 15:45	SL	EET DEN
Total/NA	Analysis	SM 3500 CR B		1	2 mL	2 mL	612263	05/11/23 15:45	SL	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			613264	05/19/23 15:35	KEG	EET DEN
Total/NA	Analysis	SM 4500 S2 D		1	2 mL	2 mL	612886	05/17/23 18:29	SL	EET DEN
Potentially Dissolved	Analysis	SM3500 CR B		1			613892	05/26/23 06:59	RMS	EET DEN
Total Recoverable	Analysis	SM3500 CR B		1			613302	05/22/23 10:36	RMS	EET DEN
Total/NA	Analysis	SM4500 S2 H		1			613665	05/24/23 13:58	ZPM	EET DEN

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

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Accreditation/Certification Summary

Client: GS Mining Company LLC
Project/Site: Nederland, CO

Job ID: 280-176346-1

Laboratory: Eurofins Denver

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date		
A2LA	Dept. of Defense ELAP	2907.01	10-31-23		
A2LA	ISO/IEC 17025	2907.01	10-31-23		
Alabama	State Program	40730	09-30-12 *		
Alaska (UST)	State	18-001	06-12-23		
Arizona	State	AZ0713	12-20-24		
Arkansas DEQ	State	19-047-0	05-31-23		
California	State	2513	06-08-23		
Connecticut	State	PH-0686	09-30-24		
Florida	NELAP	E87667-57	06-30-23		
Georgia	State	4025-011	01-08-24		
Illinois	NELAP	2000172019-1	04-30-24		
lowa	State	IA#370	12-01-24		
Kansas	NELAP	E-10166	04-30-24		
Kentucky (WW)	State	KY98047	12-31-23		
Louisiana	NELAP	30785	06-30-14 *		
Louisiana	NELAP	30785	06-30-23		
Louisiana (All)	NELAP	30785	06-30-23		
Minnesota	NELAP	1788752	12-31-23		
Nevada	State	CO000262020-1	07-31-23		
New Hampshire	NELAP	205319	04-28-24		
New Jersey	NELAP	190002	06-30-23		
New York	NELAP	59923	03-31-24		
North Carolina (WW/SW)	State	358	12-31-23		
North Dakota	State	R-034	01-08-24		
Oklahoma	NELAP	8614	08-31-23		
Oklahoma	State	2018-006	08-31-23		
Oregon	NELAP	4025-011	01-10-24		
Pennsylvania	NELAP	013	07-31-23		
South Carolina	State	72002001	01-08-24		
Texas	NELAP	TX104704183-08-TX	09-30-09 *		
Texas	NELAP	T104704183-21-19	09-30-23		
US Fish & Wildlife	US Federal Programs	058448	07-31-23		
USDA	US Federal Programs	P330-20-00065	12-19-25		
Utah	NELAP	QUAN5	06-30-13 *		
Utah	NELAP	CO000262019-11	07-31-23		
Virginia	NELAP	12037	06-14-23		
Washington	State	C583-19	08-03-23		
West Virginia DEP	State	354	11-30-23		
Wisconsin	State	999615430	08-31-23		
Wyoming (UST)	A2LA	2907.01	10-31-22 *		

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 $^{{}^{\}star}\operatorname{Accreditation/Certification\ renewal\ pending\ -\ accreditation/certification\ considered\ valid}.$

Eurofins Denver

COC No:

Carrier Tracking No(s)

Chain of Custody Record

Phone (303) 736-0100 Phone (303) 431-7171

Arvada, CO 80002 4955 Yarrow Street

Eurofins TestAmerica, Denver

*First half of the month potentially dissolved metals permit list = 200.8 (As, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, Zn) N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2SO3
T - TSP Dodecahydrate
U - Acetone First half of the month total recoverable metals permit list = 200.7 (Fe), 200.8 (As, Cd, Cr, Cu, Pb, Zn), and 245.1 (Hg) Contraction of the second Special Instructions/Note: Ver: 01/16/2019 Vo Y Z - other (specify) W - pH 4-5 Sompany Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Mont Preservation Codes: temp G - Amchlor H - Ascorbic Acid A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH r - Ice J - DI Water H K - EDTA L - EDA THU ?# qop Date/Time: 123 Total Number of containers Date/Time: Date/Time: Method of Shipment: Permit list) 200.7 / 200.8 / 245.1 - Total Recoverable Metals and Mercury State of Origin: **Analysis Requested** Sooles Temperature(s) C and Other Remark Special Instructions/QC Requirements: 280-176346 Chain of Custody 5M4500_S2_D - Sulfide and SM3500_S2 Hydrogen Sulfide (calc) otentially Dissolved Trivalent Cr (calc) E-Mail: Dylan.Bieniulis@et.eurofinsus.com 13 Received by: Received by: Received by: Lab PM: Bieniulis, Dylan T Time: Perform MS/MSD (Yes or No) Field Filtered Sample (Yes or No) Company Company Preservation Code: Matrix (W=water, S=solid, O=waste/oil, Company Sompany 3 Radiological Type (C=comp, G=grab) Sample 0 1:10 -5061618 Sompliance Project: △ Yes △ No Advance Payment Required 9:4E Sample Time Date: Unknown 3 AT Requested (days): Due Date Requested: 0 Sampler: $B\mathcal{M}$ 5/11/23 Sample Date hone: Project #: 28022821 Date/Time: SSOW#: WO #: Poison B Skin Irritant 315-414-4986 Jeliverable Requested: I, II, III, IV, Other (specify) 220 Custody Seal No. 2567 West Cedar Road Suite 250 odelaney@blackfoxmining.com KARE First half of the month event Empty Kit Relinquished by: Custody Seals Intact:

Δ Yes Δ No **Grand Island Resources** Client Information ーサムーこの Sample Identification Relinquished by: Client Contact: Patrick Delaney 345-414-6985 Vederland, CO elinquished by: elinquished by: State, Zip: CO, 80466 akewood. ompany:

Login Sample Receipt Checklist

Client: GS Mining Company LLC Job Number: 280-176346-1

Login Number: 176346 List Source: Eurofins Denver

List Number: 1

Creator: Roehsner, Karen P

Answer	Comment
True	
N/A	
True	
N/A	
True	
True	
N/A	
	True True True True True True True True

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ANALYTICAL REPORT

PREPARED FOR

Attn: Brooke Molson Moran Grand Island Resources 12567 West Cedar Road Suite 250 Lakewood, Colorado 80228

JOB DESCRIPTION

Generated 6/5/2023 11:57:26 AM

Nederland, CO

JOB NUMBER

280-177050-1

Eurofins Denver 4955 Yarrow Street Arvada CO 80002



Eurofins Denver

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

Authorization

Generated 6/5/2023 11:57:26 AM

Authorized for release by Dylan Bieniulis, Project Manager I Dylan.Bieniulis@et.eurofinsus.com (303)736-0138

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Definitions/Glossary

Client: Grand Island Resources Job ID: 280-177050-1 Project/Site: Nederland, CO

Qualifiers

Metals

Qualifier **Qualifier Description**

В Compound was found in the blank and sample.

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery

CFL Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

Detection Limit (DoD/DOE) DΙ

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

Decision Level Concentration (Radiochemistry) DLC

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit MLMinimum Level (Dioxin) Most Probable Number MPN MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL **Practical Quantitation Limit**

PRES Presumptive QC **Quality Control**

Relative Error Ratio (Radiochemistry) RER

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

Toxicity Equivalent Factor (Dioxin) **TEF** Toxicity Equivalent Quotient (Dioxin) **TEQ**

TNTC Too Numerous To Count

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6/5/2023

Client: Grand Island Resources Project/Site: Nederland, CO

Job ID: 280-177050-1

Job ID: 280-177050-1

Laboratory: Eurofins Denver

Narrative

CASE NARRATIVE

Client: Grand Island Resources

Project: Nederland, CO

Report Number: 280-177050-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 05/25/2023; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 4.4 C.

POTENTIALLY DISSOLVED METALS (ICPMS)

Sample Outfall-001 (280-177050-1) was analyzed for potentially dissolved metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared on 05/31/2023 and analyzed on 06/01/2023.

This report includes Reporting Limits (RLs) for 200.8 Potentially Dissolved Silver that are less than Eurofins TestAmerica Denver's standard reporting limit. The reported sample results and associated reporting limits are being used specifically to meet the needs of this project. Note that data are not normally reported to these levels without qualification because they are inherently less reliable and potentially less defensible than required by the latest industry standards.

Zinc was detected in method blank MB 280-613951/1-B at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL RECOVERABLE METALS (ICPMS)

Sample Outfall-001 (280-177050-1) was analyzed for total recoverable metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared and analyzed on 05/26/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Detection Summary

Client: Grand Island Resources

Job ID: 280-177050-1

Project/Site: Nederland, CO

Client Sample ID: Outfall-001

Lab Sample ID: 280-177050-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	1.9	J	2.0	0.71	ug/L	1	_	200.8	Total
									Recoverable
Lead	3.1		1.0	0.23	ug/L	1		200.8	Total
									Recoverable
Copper	1.1	J	2.0	0.71	ug/L	1		200.8	Potentially
									Dissolved
Lead	3.4		1.0	0.23	ug/L	1		200.8	Potentially
									Dissolved
Zinc	7.8	JB	10	2.0	ug/L	1		200.8	Potentially
									Dissolved

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Method Summary

Client: Grand Island Resources Project/Site: Nederland, CO

Job ID: 280-177050-1

Method	Method Description	Protocol	Laboratory
200.8	Metals (ICP/MS)	EPA	EET DEN
200.8	Preparation, Total Recoverable Metals	EPA	EET DEN
Poten_Diss_Met	Filtration for Potentially Dissolved Metals	EPA	EET DEN

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

6/5/2023

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Sample Summary

Client: Grand Island Resources Project/Site: Nederland, CO Job ID: 280-177050-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-177050-1	Outfall-001	Water	05/25/23 10:35	05/25/23 13:55

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Client Sample Results

Client: Grand Island Resources

Job ID: 280-177050-1

Project/Site: Nederland, CO

Method: EPA 200.8 - Metals (ICP/MS) - Total Recoverable

Client Sample ID: Outfall-001

Date Collected: 05/25/23 10:35

Matrix: Water

Date Received: 05/25/23 13:55

Analyte Result Qualifier RL MDL Unit Prepared Dil Fac Analyzed Copper 2.0 0.71 ug/L 05/26/23 13:45 05/26/23 22:45 1.9 J 1.0 05/26/23 13:45 05/26/23 22:45 0.23 ug/L Lead 3.1

Method: EPA 200.8 - Metals (ICP/MS) - Potentially Dissolved

7.8 JB

Zinc

Client Sample ID: Outfall-001 Date Collected: 05/25/23 10:35 Date Received: 05/25/23 13:55		Lab Sam	ple ID: 280-17 Matrix	7050-1 Water				
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND -	1.0	0.19	ug/L		05/31/23 14:44	06/01/23 10:11	1
Copper	1.1 J	2.0	0.71	ug/L		05/31/23 14:44	06/01/23 10:11	1
Lead	3.4	1.0	0.23	ug/L		05/31/23 14:44	06/01/23 10:11	1
Silver	ND	0.50	0.045	ua/l		05/31/23 14:44	06/01/23 10:11	1

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2.0 ug/L

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05/31/23 14:44 06/01/23 10:11

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Client: Grand Island Resources Job ID: 280-177050-1

Project/Site: Nederland, CO

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 280-613895/1-A

Matrix: Water

Analysis Batch: 614090

Client Sample ID: Method Blank Prep Type: Total Recoverable Prep Batch: 613895

Client Sample ID: Lab Control Sample

Client Sample ID: Outfall-001

Client Sample ID: Outfall-001

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		2.0	0.71	ug/L		05/26/23 13:45	05/26/23 21:20	1
Lead	ND		1.0	0.23	ug/L		05/26/23 13:45	05/26/23 21:20	1

MB MB

Lab Sample ID: LCS 280-613895/2-A

Matrix: Water Prep Type: Total Recoverable Analysis Batch: 614090 **Prep Batch: 613895**

l			Spike	LCS	LCS				%Rec	
	Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	
	Copper		40.0	40.2		ug/L		100	90 - 115	
	Lead		40.0	40.8		ug/L		102	88 - 115	

Lab Sample ID: 280-177050-1 MS

Matrix: Water

Prep Type: Total Recoverable Analysis Batch: 614090 **Prep Batch: 613895** Sample Sample Spike MS MS %Rec

	Oumpio	Campic	Opino						70.100	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Copper	1.9	J	40.0	40.0		ug/L		95	90 - 115	
Lead	3.1		40.0	42.9		ug/L		100	88 - 115	

Lab Sample ID: 280-177050-1 MSD

Matrix: Water

Prep Type: Total Recoverable Analysis Batch: 614090 Prep Batch: 613895 MSD MSD %Rec **RPD** Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits **RPD** Limit 40.0 Copper 1.9 J 39.5 ug/L 94 90 - 115 20 Lead 3.1 40.0 44.7 ug/L 104 88 - 115 20

Lab Sample ID: MB 280-613951/1-B

Matrix: Water

Analysis Batch: 614541

Client Sample ID: Method Blank Prep Type: Potentially Dissolved Prep Batch: 614302

•	MB M	В						•	
Analyte	Result Q	ualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		1.0	0.19	ug/L		05/31/23 14:44	06/01/23 09:53	1
Copper	ND		2.0	0.71	ug/L		05/31/23 14:44	06/01/23 09:53	1
Lead	ND		1.0	0.23	ug/L		05/31/23 14:44	06/01/23 09:53	1
Silver	ND		0.50	0.045	ug/L		05/31/23 14:44	06/01/23 09:53	1
Zinc	2.06 J		10	2.0	ug/L		05/31/23 14:44	06/01/23 09:53	1

Lab Sample ID: LCS 280-613951/2-B

Matrix: Water

Analysis Batch: 614541

Client Sample ID: Lab Control Sample Prep Type: Potentially Dissolved Prep Batch: 614302

Analysis Buton, 614641	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Cadmium	40.0	42.3		ug/L		106	89 - 111
Copper	40.0	40.9		ug/L		102	90 - 115
Lead	40.0	41.1		ug/L		103	88 - 115
Silver	40.0	40.8		ug/L		102	90 - 114
Zinc	40.0	40.8		ug/L		102	88 ₋ 115

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Page 10 of 15

Client: Grand Island Resources Project/Site: Nederland, CO

Job ID: 280-177050-1

Metals

Prep Batch: 613895

Lab Sample ID 280-177050-1	Client Sample ID Outfall-001	Prep Type Total Recoverable	Matrix Water	Method 200.8	Prep Batch
MB 280-613895/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-613895/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
280-177050-1 MS	Outfall-001	Total Recoverable	Water	200.8	
280-177050-1 MSD	Outfall-001	Total Recoverable	Water	200.8	

Filtration Batch: 613951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-177050-1	Outfall-001	Potentially Dissolved	Water	Poten_Diss_Met	
MB 280-613951/1-B	Method Blank	Potentially Dissolved	Water	Poten_Diss_Met	
LCS 280-613951/2-B	Lab Control Sample	Potentially Dissolved	Water	Poten_Diss_Met	

Analysis Batch: 614090

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-177050-1	Outfall-001	Total Recoverable	Water	200.8	613895
MB 280-613895/1-A	Method Blank	Total Recoverable	Water	200.8	613895
LCS 280-613895/2-A	Lab Control Sample	Total Recoverable	Water	200.8	613895
280-177050-1 MS	Outfall-001	Total Recoverable	Water	200.8	613895
280-177050-1 MSD	Outfall-001	Total Recoverable	Water	200.8	613895

Prep Batch: 614302

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-177050-1	Outfall-001	Potentially Dissolved	Water	200.8	613951
MB 280-613951/1-B	Method Blank	Potentially Dissolvec	Water	200.8	613951
LCS 280-613951/2-B	Lab Control Sample	Potentially Dissolvec	Water	200.8	613951

Analysis Batch: 614541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method P	rep Batch
280-177050-1	Outfall-001	Potentially Dissolved	Water	200.8	614302
MB 280-613951/1-B	Method Blank	Potentially Dissolved	Water	200.8	614302
LCS 280-613951/2-B	Lab Control Sample	Potentially Dissolved	Water	200.8	614302

Lab Chronicle

Client: Grand Island Resources Job ID: 280-177050-1

Project/Site: Nederland, CO

Client Sample ID: Outfall-001 Lab Sample ID: 280-177050-1 Date Collected: 05/25/23 10:35

Matrix: Water

Date Received: 05/25/23 13:55

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Potentially Dissolved	Filtration	Poten_Diss_Met			250 mL	250 mL	613951	05/26/23 11:33	KMS	EET DEN
Potentially Dissolved	Prep	200.8			50 mL	50 mL	614302	05/31/23 14:44	LJS	EET DEN
Potentially Dissolved	Analysis	200.8		1			614541	06/01/23 10:11	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	613895	05/26/23 13:45	LJS	EET DEN
Total Recoverable	Analysis	200.8		1			614090	05/26/23 22:45	LMT	EET DEN

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Accreditation/Certification Summary

Client: Grand Island Resources Project/Site: Nederland, CO

Job ID: 280-177050-1

Laboratory: Eurofins Denver

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	10-31-23
A2LA	ISO/IEC 17025	2907.01	10-31-23
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-08-24
Arizona	State	AZ0713	12-20-24
Arkansas DEQ	State	19-047-0	05-31-23 *
California	State	2513	01-08-24
Connecticut	State	PH-0686	09-30-24
Florida	NELAP	E87667-57	06-30-23
Georgia	State	4025-011	01-08-24
Illinois	NELAP	2000172019-1	04-30-24
lowa	State	IA#370	12-01-24
Kansas	NELAP	E-10166	04-30-24
Kentucky (WW)	State	KY98047	12-31-23
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-23
Louisiana (All)	NELAP	30785	06-30-23
Minnesota	NELAP	1788752	12-31-23
Nevada	State	CO000262020-1	07-31-23
New Hampshire	NELAP	205319	04-28-24
New Jersey	NELAP	190002	06-30-23
New York	NELAP	59923	03-31-24
North Carolina (WW/SW)	State	358	12-31-23
North Dakota	State	R-034	01-08-24
Oklahoma	NELAP	8614	08-31-23
Oklahoma	State	2018-006	08-31-23
Oregon	NELAP	4025-011	01-10-24
Pennsylvania	NELAP	013	07-31-23
South Carolina	State	72002001	01-08-24
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	09-30-23
US Fish & Wildlife	US Federal Programs	058448	07-31-23
USDA	US Federal Programs	P330-20-00065	12-19-25
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-23
Virginia	NELAP	12037	06-14-23
Washington	State	C583-19	08-03-23
West Virginia DEP	State	354	11-30-23
Wisconsin	State	999615430	08-31-23
Wyoming (UST)	A2LA	2907.01	10-31-22 *

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 $^{{}^{\}star}\operatorname{Accreditation/Certification\ renewal\ pending\ -\ accreditation/certification\ considered\ valid}.$

Eurofins Denver

Arvada, CO 80002 Phone (303) 736-0100 Phone (303) 431-7171

Eurofins TestAmerica, Denver

4955 Yarrow Street

Pnone (303) /36-0100 Pnone (303) 431-/1/1					
Client Information	Sampler: KL R. H.	Lab PM: Bieniulis	Lab PM: Bieniulis, Dylan T	Carrier Tracking No(s):	:00 Vo:
Client Contact: Patrick Delaney	Phone:	E-Mail: Dylan.Bi	E-Mail: Dylan.Bieniulis@Eurofinset.com	State of Origin:	Page:
Company: Grand Island Resources	PWSID:		alysis	Requested	Job #:
Address: 12567 West Cedar Road Suite 250	Due Date Requested:		qjuc		
City: Lakewood	TAT Requested (days):				A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2
State, Zip: CO, 80466	Compliance Project: A Yes A No				
Phone: 315-414-6986	PO #: Advance Payment Required	(0			
Email: <u>pdelaney@blackfoxmining.com</u>	:: MO #:	S OF M	lstəM	81	I - Ice J - DI Water
Project Name: Wastewater Discharge - Nederland, CO	Project #: 28022821	аў) əl	pəvlos	ənistr	K - EDIA L - EDA
Site: second half of the month event	SSOW#:	gmsS	lly Dis	100 10	Other:
Sample Identification	Sample Cample (Cample (Cample Cample	Matrix (W=water, S=solid, O=waste/oil, ield	M/SM mrof19 ^c silnatoq - 8.009 il jimneq ritnon 9A lstoT - 8.009 (fell jimned	otal Number	Gnacial Inetructions (Note:
	Preserva	7	2 0		
Cutfall -001	05/25/23 10:35 6	3		9	
					Cu, Pb, Ag, Zn)
					*Second half of the month total recoverable metals permit list = 200.8 (Cu, Pb)
					CH= 7.8
				- - -	Temp=8°C
					-
			280-177050 Chain of Custody		
Possible Hazard Identification Q Non-Hazard	☐ Poison B ☐ Unknown ☐ Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Return To Client Disposal By Lab Archive For Mont	assessed if samples are retain Disposal Bv Lab	ned longer than 1 month) hive For Months
/, Other (specify)			Special Instructions/QC Requirements		
Empty Kit Relinquished by:	Date:	Time:	:e:	Method of Shipment:	
Relinquished by:		Сотрапу	Received by:	Date Time: S-2	3 1355 EMPEN
Relinquished by:	Date/Time:	Сотрапу	Received by:	Date/Time:	Сотрапу
\sim	Date/Time: 5/23 1:55	Company	Received by:	Date/Time:	Сотрапу
Custody Seals Intact: Custody Seal No.: △ Yes △ No			Cooler Temperature(s) °C and Other Remark	orkt ろエRMC	1.60.1
			11 12 13	7 8 9	A Cer: 01/16/2019

Login Sample Receipt Checklist

Client: Grand Island Resources Job Number: 280-177050-1

Login Number: 177050 List Source: Eurofins Denver

List Number: 1

Creator: Roehsner, Karen P

oreator. Noerisiter, Nateri F			
Question	Answer	Comment	
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True		
The cooler's custody seal, if present, is intact.	True		
Sample custody seals, if present, are intact.	True		
The cooler or samples do not appear to have been compromised or tampered with.	True		
Samples were received on ice.	True		
Cooler Temperature is acceptable.	True		
Cooler Temperature is recorded.	True		
COC is present.	True		
COC is filled out in ink and legible.	True		
COC is filled out with all pertinent information.	True		
s the Field Sampler's name present on COC?	True		
There are no discrepancies between the containers received and the COC.	True		
Samples are received within Holding Time (excluding tests with immediate HTs)	True		
Sample containers have legible labels.	True		
Containers are not broken or leaking.	True		
Sample collection date/times are provided.	True		
Appropriate sample containers are used.	True		
Sample bottles are completely filled.	True		
Sample Preservation Verified.	N/A		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A		
Multiphasic samples are not present.	True		
Samples do not require splitting or compositing.	True		
Residual Chlorine Checked.	N/A		

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APPENDIX B.3 JUNE 2023 OUTFALL-001 ANALYTICAL RESULTS

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ANALYTICAL REPORT

PREPARED FOR

Attn: Brooke Molson Moran Grand Island Resources 12567 West Cedar Road Suite 250 Lakewood, Colorado 80228

Generated 6/29/2023 1:36:05 PM

JOB DESCRIPTION

Nederland, CO

JOB NUMBER

280-177853-1

Eurofins Denver 4955 Yarrow Street Arvada CO 80002



Eurofins Denver

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

Authorization

Mm

Generated 6/29/2023 1:36:05 PM

Authorized for release by Megan McElheny, Project Manager I Megan.Mcelheny@et.eurofinsus.com Designee for Dylan Bieniulis, Project Manager I Dylan.Bieniulis@et.eurofinsus.com (303)736-0138

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Definitions/Glossary

Client: Grand Island Resources Job ID: 280-177853-1
Project/Site: Nederland, CO

Qualifiers

Metals

Qualifier Qualifier Description

B Compound was found in the blank and sample.

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier Qualifier Description

HF Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Eisted under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins Denver

Page 4 of 24 6/29/2023

Client: Grand Island Resources Project/Site: Nederland, CO Job ID: 280-177853-1

Job ID: 280-177853-1

Laboratory: Eurofins Denver

Narrative

CASE NARRATIVE

Client: Grand Island Resources

Project: Nederland, CO

Report Number: 280-177853-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The sample was received on 6/14/2023 2:34 PM. Unless otherwise noted below, the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.8° C.

TOTAL RECOVERABLE METALS (ICP)

Sample OUTFALL-001 (280-177853-1) was analyzed for Total Recoverable Metals (ICP) in accordance with EPA Method 200.7. The samples were prepared on 06/19/2023 and analyzed on 06/21/2023.

Iron was detected in method blank MB 280-616155/1-A at a level that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

POTENTIALLY DISSOLVED METALS (ICPMS)

Sample OUTFALL-001 (280-177853-1) was analyzed for potentially dissolved metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared on 06/20/2023 and analyzed on 06/22/2023.

Chromium and Zinc were detected in method blank MB 280-616494/1-B at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL RECOVERABLE METALS (ICPMS)

Sample OUTFALL-001 (280-177853-1) was analyzed for total recoverable metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared on 06/19/2023 and analyzed on 06/20/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL MERCURY (CVAA)

Sample OUTFALL-001 (280-177853-1) was analyzed for total mercury (CVAA) in accordance with EPA Method 245.1. The samples were prepared and analyzed on 06/27/2023.

Eurofins Denver 6/29/2023

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Client: Grand Island Resources Project/Site: Nederland, CO

Job ID: 280-177853-1

Job ID: 280-177853-1 (Continued)

Laboratory: Eurofins Denver (Continued)

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TRIVALENT CHROMIUM - POTENTIALLY DISSOLVED

Sample OUTFALL-001 (280-177853-1) was analyzed for Trivalent Chromium - Potentially Dissolved in accordance with SM3500_CR3_B. The samples were analyzed on 06/27/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TRIVALENT CHROMIUM - TOTAL RECOVERABLE

Sample OUTFALL-001 (280-177853-1) was analyzed for Trivalent Chromium - Total Recoverable in accordance with SM3500_CR3_B. The samples were analyzed on 06/27/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SPECIFIC CONDUCTIVITY

Sample OUTFALL-001 (280-177853-1) was analyzed for specific conductivity in accordance with SM20 2510B. The samples were analyzed on 06/27/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL SUSPENDED SOLIDS

Sample OUTFALL-001 (280-177853-1) was analyzed for total suspended solids in accordance with SM20 2540D. The samples were analyzed on 06/21/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED HEXAVALENT CHROMIUM

Sample OUTFALL-001 (280-177853-1) was analyzed for dissolved hexavalent chromium in accordance with SM 3500 CR B. The samples were analyzed on 06/14/2023.

The matrix spike and matrix spike duplicate (MS/MSD) recoveries for preparation batch 280-616147 and analytical batch 280-616159 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference is suspected because the associated laboratory control sample and laboratory control sample duplicate (LCS/LCSD) recoveries are within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HEXAVALENT CHROMIUM

Sample OUTFALL-001 (280-177853-1) was analyzed for hexavalent chromium in accordance with 3500_CR_B. The samples were analyzed on 06/14/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

CORROSIVITY (PH)

Sample OUTFALL-001 (280-177853-1) was analyzed for corrosivity (pH) in accordance with SM20 4500 H+ B. The samples were analyzed on 06/20/2023.

Sample did not equilibrate to within 0.05 pH units after three measurements. This was observed in a previous analysis thus the sample was not rerun. OUTFALL-001 (280-177853-1)

The sample duplicate (DUP) precision for analytical batch 280-616882 was outside control limits. Sample matrix interference is suspected.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SULFIDE

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Client: Grand Island Resources Project/Site: Nederland, CO

Job ID: 280-177853-1

Job ID: 280-177853-1 (Continued)

Laboratory: Eurofins Denver (Continued)

Sample OUTFALL-001 (280-177853-1) was analyzed for sulfide in accordance with SM20 4500 S2 D. The samples were analyzed on 06/15/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HYDROGEN SULFIDE

Sample OUTFALL-001 (280-177853-1) was analyzed for Hydrogen Sulfide in accordance with SM20 4500 S2 H. The samples were analyzed on 06/16/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Detection Summary

Client: Grand Island Resources Project/Site: Nederland, CO

Job ID: 280-177853-1

Client Sample ID: OUTFALL-001

Lab Sample ID: 280-177853-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D Method	Prep Type
Iron	67	J B	100	9.1	ug/L	1	200.7 Rev 4.4	Total
								Recoverable
Copper	2.3		2.0	0.71	ug/L	1	200.8	Total
								Recoverable
Lead	2.1		1.0	0.23	ug/L	1	200.8	Total
								Recoverable
Zinc	5.9	J	10	2.0	ug/L	1	200.8	Total
								Recoverable
Copper	2.0		2.0	0.71	ug/L	1	200.8	Potentially
								Dissolved
Lead	2.0		1.0	0.23	ug/L	1	200.8	Potentially
		<u></u>	<u></u>					Dissolved
Zinc	9.0	JB	10	2.0	ug/L	1	200.8	Potentially
On a if a One boot and	440		0.0	0.0			014.05400	Dissolved
Specific Conductance	140		2.0	2.0		1	SM 2510B	Total/NA
pH adj. to 25 deg C	7.5	HF	0.1	0.1	SU		SM 4500 H+ B	Total/NA
Temperature	21.7	HF	1.0	1.0	Degrees C	1	SM 4500 H+ B	Total/NA
Field pH	7.5		1.0	1.0	SU	1	SM4500 S2 H	Total/NA
Field Temperature	22		1.0	1.0	Celsius	1	SM4500 S2 H	Total/NA
Specific Conductance	140		2.0	2.0	umhos/cm	1	SM4500 S2 H	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Grand Island Resources Project/Site: Nederland, CO Job ID: 280-177853-1

Method	Method Description	Protocol	Laboratory
200.7 Rev 4.4	Metals (ICP)	EPA	EET DEN
200.8	Metals (ICP/MS)	EPA	EET DEN
245.1	Mercury (CVAA)	EPA	EET DEN
SM 2510B	Conductivity, Specific Conductance	SM	EET DEN
SM 2540D	Solids, Total Suspended (TSS)	SM	EET DEN
SM 3500 CR B	Chromium, Hexavalent	SM	EET DEN
SM 4500 H+ B	pH	SM	EET DEN
SM 4500 S2 D	Sulfide, Total	SM	EET DEN
SM3500 CR B	Chromium, Trivalent	SM	EET DEN
SM4500 S2 H	Unionized Hydrogen Sulfide	SM	EET DEN
200.7	Preparation, Total Recoverable Metals	EPA	EET DEN
200.8	Preparation, Total Recoverable Metals	EPA	EET DEN
245.1	Preparation, Mercury	EPA	EET DEN
FILTRATION	Sample Filtration	None	EET DEN
Poten Diss Met	Filtration for Potentially Dissolved Metals	EPA	EET DEN

Protocol References:

EPA = US Environmental Protection Agency

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Eurofins Denver

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Sample Summary

Client: Grand Island Resources Project/Site: Nederland, CO Job ID: 280-177853-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-177853-1	OUTFALL-001	Water	06/14/23 12:30	06/14/23 14:34

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Client: Grand Island Resources Job ID: 280-177853-1 Project/Site: Nederland, CO

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Client Sample ID: OUTFALL-001 Lab Sample ID: 280-177853-1 Date Collected: 06/14/23 12:30 **Matrix: Water**

Date Received: 06/14/23 14:34

Analyte RL **MDL** Unit Dil Fac Result Qualifier D Prepared Analyzed 100 9.1 ug/L 06/19/23 07:43 06/21/23 14:38 Iron 67 JB

Method: EPA 200.8 - Metals (ICP/MS) - Total Recoverable

Client Sample ID: OUTFALL-001 Lab Sample ID: 280-177853-1 Date Collected: 06/14/23 12:30 **Matrix: Water**

Date Received: 06/14/23 14	:34							
Analyte	Result Qua	lifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND ND	5.0	0.50	ug/L		06/19/23 07:43	06/20/23 02:16	1
Cadmium	ND	1.0	0.19	ug/L		06/19/23 07:43	06/20/23 02:16	1
Chromium	ND	3.0	0.50	ug/L		06/19/23 07:43	06/20/23 02:16	1
Copper	2.3	2.0	0.71	ug/L		06/19/23 07:43	06/20/23 02:16	1
Lead	2.1	1.0	0.23	ug/L		06/19/23 07:43	06/20/23 02:16	1
Zinc	5.9 J	10	2.0	ug/L		06/19/23 07:43	06/20/23 02:16	1

Method: EPA 200.8 - Metals (ICP/MS) - Potentially Dissolved

Client Sample ID: OUTFALL-001 Lab Sample ID: 280-177853-1 Date Collected: 06/14/23 12:30 **Matrix: Water**

14:34							
Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ND ND	5.0	0.50	ug/L		06/20/23 14:40	06/22/23 20:00	1
ND	1.0	0.19	ug/L		06/20/23 14:40	06/22/23 20:00	1
ND	3.0	0.50	ug/L		06/20/23 14:40	06/22/23 20:00	1
2.0	2.0	0.71	ug/L		06/20/23 14:40	06/22/23 20:00	1
2.0	1.0	0.23	ug/L		06/20/23 14:40	06/22/23 20:00	1
ND	3.0	0.51	ug/L		06/20/23 14:40	06/22/23 20:00	1
ND	3.0	0.83	ug/L		06/20/23 14:40	06/22/23 20:00	1
ND	5.0	1.0	ug/L		06/20/23 14:40	06/22/23 20:00	1
ND	0.50	0.045	ug/L		06/20/23 14:40	06/22/23 20:00	1
9.0 JB	10	2.0	ug/L		06/20/23 14:40	06/22/23 20:00	1
	ND ND ND 2.0 2.0 ND ND ND	Result Qualifier RL ND 5.0 ND 1.0 ND 3.0 2.0 2.0 2.0 1.0 ND 3.0 ND 3.0 ND 5.0 ND 0.50	Result Qualifier RL MDL ND 5.0 0.50 ND 1.0 0.19 ND 3.0 0.50 2.0 2.0 0.71 2.0 1.0 0.23 ND 3.0 0.51 ND 3.0 0.83 ND 5.0 1.0 ND 0.50 0.045	Result Qualifier RL MDL Unit ND 5.0 0.50 ug/L ND 1.0 0.19 ug/L ND 3.0 0.50 ug/L 2.0 2.0 0.71 ug/L 2.0 1.0 0.23 ug/L ND 3.0 0.51 ug/L ND 5.0 1.0 ug/L ND 0.50 0.045 ug/L	Result Qualifier RL MDL Unit D ND 5.0 0.50 ug/L ND 1.0 0.19 ug/L ND 3.0 0.50 ug/L 2.0 2.0 0.71 ug/L 2.0 1.0 0.23 ug/L ND 3.0 0.51 ug/L ND 5.0 1.0 ug/L ND 0.50 0.045 ug/L	Result Qualifier RL MDL Unit D Prepared ND 5.0 0.50 ug/L 06/20/23 14:40 ND 1.0 0.19 ug/L 06/20/23 14:40 ND 3.0 0.50 ug/L 06/20/23 14:40 2.0 2.0 0.71 ug/L 06/20/23 14:40 ND 3.0 0.51 ug/L 06/20/23 14:40 ND 3.0 0.83 ug/L 06/20/23 14:40 ND 5.0 1.0 ug/L 06/20/23 14:40 ND 5.0 1.0 ug/L 06/20/23 14:40 ND 0.50 0.045 ug/L 06/20/23 14:40	Result Qualifier RL MDL Unit D Prepared Analyzed ND 5.0 0.50 ug/L 06/20/23 14:40 06/22/23 20:00 ND 1.0 0.19 ug/L 06/20/23 14:40 06/22/23 20:00 ND 3.0 0.50 ug/L 06/20/23 14:40 06/22/23 20:00 2.0 2.0 0.71 ug/L 06/20/23 14:40 06/22/23 20:00 2.0 1.0 0.23 ug/L 06/20/23 14:40 06/22/23 20:00 ND 3.0 0.51 ug/L 06/20/23 14:40 06/22/23 20:00 ND 3.0 0.83 ug/L 06/20/23 14:40 06/22/23 20:00 ND 5.0 1.0 ug/L 06/20/23 14:40 06/22/23 20:00 ND 5.0 1.0 ug/L 06/20/23 14:40 06/22/23 20:00 ND 0.50 0.045 ug/L 06/20/23 14:40 06/22/23 20:00

Method: EPA 245.1 - Mercury (CVAA)

Client Sample ID: OUTFALL-001 Lab Sample ID: 280-177853-1 **Matrix: Water**

Date Collected: 06/14/23 12:30 Date Received: 06/14/23 14:34

Analyte Result Qualifier RL Dil Fac MDL Unit Prepared Analyzed 06/27/23 14:45 06/27/23 23:07 Mercury ND 0.20 0.061 ug/L

General Chemistry

Client Sample ID: OUTFALL-001 Lab Sample ID: 280-177853-1 Date Collected: 06/14/23 12:30 **Matrix: Water**

Date Received: 06/14/23 14:34									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (SM 2510B)	140		2.0	2.0	umhos/cm			06/27/23 07:51	1
Total Suspended Solids (SM 2540D)	ND		4.0	1.1	mg/L			06/21/23 16:51	1
Chromium, hexavalent (SM 3500 CR B)	ND		0.020	0.0040	mg/L			06/14/23 16:23	1
pH adj. to 25 deg C (SM 4500 H+ B	7.5	HF	0.1	0.1	SU			06/20/23 20:42	1
Temperature (SM 4500 H+ B)	21.7	HF	1.0	1.0	Degrees C			06/20/23 20:42	1

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Client Sample Results

Client: Grand Island Resources Job ID: 280-177853-1 Project/Site: Nederland, CO

General Chemistry (Continued)

Client Sample ID: OUTFALL-001 Lab Sample ID: 280-177853-1 Date Collected: 06/14/23 12:30 **Matrix: Water**

Date Beceived: 06/14/22 14:24

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 D)	ND		0.050	0.022	mg/L			06/15/23 14:02	1
Un-ionized Hydrogen Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			06/16/23 12:05	1
Field pH (SM4500 S2 H)	7.5		1.0	1.0	SU			06/16/23 12:05	1
Field Temperature (SM4500 S2 H)	22		1.0	1.0	Celsius			06/16/23 12:05	1
Specific Conductance (SM4500 S2 H)	140		2.0	2.0	umhos/cm			06/16/23 12:05	1
Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			06/16/23 12:05	1

General Chemistry - Total Recoverable

Client Sample ID: OUTFALL-001 Lab Sample ID: 280-177853-1 **Matrix: Water**

Date Collected: 06/14/23 12:30 Date Received: 06/14/23 14:34

Analyte Result Qualifier RL **MDL** Unit D Prepared Analyzed Dil Fac Chromium, trivalent (SM3500 CR B) ND 0.020 06/27/23 18:42 0.020 mg/L

General Chemistry - Dissolved

Client Sample ID: OUTFALL-001 Lab Sample ID: 280-177853-1 Date Collected: 06/14/23 12:30 **Matrix: Water**

Date Received: 06/14/23 14:34

Analyte RL MDL Unit D Prepared Result Qualifier Analyzed Dil Fac Chromium, hexavalent (SM 3500 CR ND 0.020 0.0040 mg/L 06/14/23 16:11

General Chemistry - Potentially Dissolved

Client Sample ID: OUTFALL-001 Lab Sample ID: 280-177853-1 Date Collected: 06/14/23 12:30 **Matrix: Water**

Date Received: 06/14/23 14:34

(SM3500 CR B)

Analyte Result Qualifier RL **MDL** Unit Analyzed Dil Fac D Prepared Chromium, trivalent (dissolved) 0.020 0.020 mg/L 06/27/23 18:42 ND

Client: Grand Island Resources Job ID: 280-177853-1

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 280-616155/1-A

Matrix: Water

Iron

Analysis Batch: 617030

Project/Site: Nederland, CO

Client Sample ID: Method Blank **Prep Type: Total Recoverable**

Prep Batch: 616155

Prep Type: Total Recoverable

Prep Batch: 616155

Result Qualifier RL **MDL** Unit Analyzed Dil Fac Analyte Prepared 100 06/19/23 07:43 06/21/23 14:26 Iron 22.7 J 9.1 ug/L

Lab Sample ID: LCS 280-616155/2-A **Client Sample ID: Lab Control Sample Matrix: Water**

MB MB

Analysis Batch: 617030

Spike LCS LCS Analyte

%Rec Added Result Qualifier Unit D %Rec Limits 10000 10100 101 85 - 115 ug/L

Lab Sample ID: LCSD 280-616155/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Water Prep Type: Total Recoverable Analysis Batch: 617030 Prep Batch: 616155** Spike LCSD LCSD %Rec **RPD**

Added Result Qualifier Limits RPD Limit Analyte Unit %Rec Iron 10000 10200 102 85 - 115 20 ug/L

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 280-616155/1-A

Client Sample ID: Method Blank **Matrix: Water Prep Type: Total Recoverable Analysis Batch: 616759 Prep Batch: 616155** MD MD

	IVID	IVID								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Arsenic	ND		5.0	0.50	ug/L		06/19/23 07:43	06/20/23 02:06	1	
Cadmium	ND		1.0	0.19	ug/L		06/19/23 07:43	06/20/23 02:06	1	
Chromium	ND		3.0	0.50	ug/L		06/19/23 07:43	06/20/23 02:06	1	
Copper	ND		2.0	0.71	ug/L		06/19/23 07:43	06/20/23 02:06	1	
Lead	ND		1.0	0.23	ug/L		06/19/23 07:43	06/20/23 02:06	1	
Zinc	ND		10	2.0	ug/L		06/19/23 07:43	06/20/23 02:06	1	

Lab Sample ID: LCS 280-616155/27-A

Matrix: Water

Analysis Batch: 616759

Client Sample ID: Lab Control Sample Prep Type: Total Recoverable Prep Batch: 616155

Client Sample ID: Lab Control Sample Dup

101

86 - 115

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Arsenic	40.0	43.0		ug/L		108	89 - 111	
Cadmium	40.0	42.6		ug/L		106	89 - 111	
Chromium	40.0	42.6		ug/L		106	86 - 115	
Copper	40.0	41.7		ug/L		104	90 - 115	
Lead	40.0	42.7		ug/L		107	88 - 115	
Zinc	40.0	40.7		ug/L		102	88 - 115	

Lab Sample ID: LCSD 280-616155/28-A

Matrix: Water

Chromium

Prep Type: Total Recoverable Analysis Batch: 616759 Prep Batch: 616155 LCSD LCSD %Rec Spike **RPD** Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit Arsenic 40.0 41.3 ug/L 103 89 - 111 4 20 Cadmium 40.0 40.9 ug/L 102 89 - 111 20

40.5

40.0

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ug/L

Job ID: 280-177853-1

Client: Grand Island Resources Project/Site: Nederland, CO

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 280-616155/28-A

Matrix: Water

Analysis Batch: 616759

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 616155

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Copper	40.0	40.6		ug/L		101	90 - 115	3	20
Lead	40.0	42.0		ug/L		105	88 - 115	2	20
Zinc	40.0	42.4		ug/L		106	88 - 115	4	20

Lab Sample ID: MB 280-616494/1-B

Matrix: Water

Analysis Batch: 617210

Client Sample ID: Method Blank Prep Type: Potentially Dissolved

Prep Batch: 616728

MB MB Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac ND 5.0 Arsenic 0.50 ug/L 06/20/23 14:40 06/22/23 19:53 Cadmium ND 1.0 06/20/23 14:40 06/22/23 19:53 0.19 ug/L 06/20/23 14:40 06/22/23 19:53 0.501 J Chromium 3.0 0.50 ug/L Copper ND 2.0 0.71 ug/L 06/20/23 14:40 06/22/23 19:53 Lead ND 1.0 06/20/23 14:40 06/22/23 19:53 0.23 ug/L Manganese ND 3.0 0.51 ug/L 06/20/23 14:40 06/22/23 19:53 Nickel ND 3.0 06/20/23 14:40 06/22/23 19:53 0.83 ug/L Selenium ND 5.0 1.0 ug/L 06/20/23 14:40 06/22/23 19:53 Silver ND 0.50 0.045 ug/L 06/20/23 14:40 06/22/23 19:53 Zinc 3.75 J 10 2.0 ug/L 06/20/23 14:40 06/22/23 19:53

Lab Sample ID: LCS 280-616494/2-B

Matrix: Water

Analysis Batch: 617210

Client Sample ID: Lab Control Sample Prep Type: Potentially Dissolved

Prep Batch: 616728

7 , 515							
	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Arsenic	40.0	41.5		ug/L		104	89 - 111
Cadmium	40.0	41.6		ug/L		104	89 - 111
Chromium	40.0	41.5		ug/L		104	86 - 115
Copper	40.0	40.8		ug/L		102	90 - 115
Lead	40.0	39.7		ug/L		99	88 - 115
Manganese	40.0	40.8		ug/L		102	87 - 115
Nickel	40.0	38.9		ug/L		97	86 - 115
Selenium	40.0	39.6		ug/L		99	85 - 114
Silver	40.0	40.2		ug/L		100	90 - 114
Zinc	40.0	42.6		ug/L		107	88 - 115

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 280-617604/1-A

Matrix: Water

Analysis Batch: 617768

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 617604

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.061	ua/L		06/27/23 14:45	06/27/23 22:18	1

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Client: Grand Island Resources Job ID: 280-177853-1

Method: 245.1 - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 280-617604/2-A Client Sample ID: Lab Control Sample **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 617768 Prep Batch: 617604 Spike LCS LCS %Rec

Result Qualifier Added Limits Analyte Unit %Rec Mercury 5.00 5.12 ug/L 102 90 - 110

Lab Sample ID: LCSD 280-617604/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Water** Prep Type: Total/NA **Analysis Batch: 617768 Prep Batch: 617604** Spike LCSD LCSD %Rec **RPD** RPD Added Result Qualifier D %Rec Limits Limit Analyte Unit 5.00 4.70 90 - 110 Mercury ug/L 94 9 10

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: MB 280-617525/5 Client Sample ID: Method Blank **Matrix: Water Prep Type: Total/NA**

Analysis Batch: 617525

MR MR

Result Qualifier RL **MDL** Unit Dil Fac Analyte Prepared Analyzed Specific Conductance ND 2.0 2.0 umhos/cm 06/27/23 07:51

Lab Sample ID: LCS 280-617525/4 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 617525

Project/Site: Nederland, CO

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits Specific Conductance 1410 1360 umhos/cm 96 90 - 110

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 280-617026/3 Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 617026

MB MB Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac **Total Suspended Solids** ND 4.0 1.1 mg/L 06/21/23 16:50

Lab Sample ID: LCS 280-617026/1 **Client Sample ID: Lab Control Sample Matrix: Water**

Analysis Batch: 617026

Spike LCS LCS %Rec Added Result Qualifier %Rec Limits Unit Total Suspended Solids 501 401 mg/L 79 - 114

Lab Sample ID: LCSD 280-617026/2 **Client Sample ID: Lab Control Sample Dup Matrix: Water Prep Type: Total/NA**

Analysis Batch: 617026

LCSD LCSD **RPD** Spike %Rec Added Limits Result Qualifier Unit %Rec **RPD** Limit 501 465 93 Total Suspended Solids 79 - 114 mg/L

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Prep Type: Total/NA

Client: Grand Island Resources Job ID: 280-177853-1

Project/Site: Nederland, CO

Method: SM 3500 CR B - Chromium, Hexavalent

Lab Sample ID: MB 280-616159/23 Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 616159

MB MB

Analyzed Result Qualifier RL **MDL** Unit Dil Fac Analyte D Prepared 0.020 06/14/23 16:14 Chromium, hexavalent ND 0.0040 mg/L

Lab Sample ID: LCS 280-616159/21 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 616159

Spike LCS LCS %Rec Added Result Qualifier D %Rec Limits Unit 0.100 0.100 Chromium, hexavalent mg/L 100 91 - 112

Lab Sample ID: LCSD 280-616159/22 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Matrix: Water

Analysis Batch: 616159

Spike LCSD LCSD %Rec **RPD** Added Result Qualifier Limits RPD Limit Analyte Unit %Rec Chromium, hexavalent 0.100 0.0994 99 91 - 112 mg/L

Lab Sample ID: MB 280-616147/3-A Client Sample ID: Method Blank **Matrix: Water Prep Type: Dissolved**

Analysis Batch: 616159

MB MB

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac 0.020 0.0040 mg/L 06/14/23 16:02 Chromium, hexavalent ND

Lab Sample ID: LCS 280-616147/1-A **Client Sample ID: Lab Control Sample Prep Type: Dissolved**

Matrix: Water

Analysis Batch: 616159

LCS LCS Spike %Rec Added Analyte Result Qualifier Unit %Rec Limits Chromium, hexavalent 0.100 0.101 91 - 112 mg/L 101

Lab Sample ID: LCSD 280-616147/2-A Client Sample ID: Lab Control Sample Dup **Prep Type: Dissolved**

Matrix: Water

Analysis Batch: 616159

Spike LCSD LCSD %Rec **RPD** Added Result Qualifier **RPD** Limit Analyte Unit %Rec Limits D 0.100 0.0978 Chromium, hexavalent mg/L 98 91 - 11220

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 280-616882/31 Client Sample ID: Lab Control Sample Prep Type: Total/NA

Matrix: Water

Analysis Batch: 616882

LCS LCS Spike %Rec Added Result Qualifier Unit %Rec Limits 7.00 SU pH adj. to 25 deg C 101 99 - 101

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Prep Type: Total/NA

QC Sample Results

Client: Grand Island Resources Job ID: 280-177853-1 Project/Site: Nederland, CO

Method: SM 4500 S2 D - Sulfide, Total

Lab Sample ID: MB 280-616303/11 Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 616303

Prep Type: Total/NA MB MB

Analyte Result Qualifier RL **MDL** Unit Analyzed Dil Fac **Prepared** Sulfide 0.050 0.022 mg/L 06/15/23 13:56 ND

Lab Sample ID: LCS 280-616303/9 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 616303

Spike LCS LCS %Rec Analyte Added Result Qualifier D %Rec Limits Unit Sulfide 0.501 0.477 mg/L 95 81 - 122

Lab Sample ID: LCSD 280-616303/10 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Matrix: Water

Analysis Batch: 616303

Spike LCSD LCSD %Rec RPD Added Result Qualifier Limits RPD Limit **Analyte** Unit %Rec Sulfide 0.501 0.477 95 81 - 122 mg/L

Lab Sample ID: 280-177853-1 MS Client Sample ID: OUTFALL-001 **Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 616303

Spike MS MS %Rec Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Sulfide ND 0.501 0.441 81 - 122 mg/L 88

Lab Sample ID: 280-177853-1 MSD Client Sample ID: OUTFALL-001

Matrix: Water

Analysis Batch: 616303

MSD MSD RPD Sample Sample Spike %Rec Analyte Result Qualifier Added Limits Result Qualifier Unit %Rec Limit Sulfide ND 0.501 0.453 90 81 - 122 mg/L

Prep Type: Total/NA

QC Association Summary

Client: Grand Island Resources Project/Site: Nederland, CO

Job ID: 280-177853-1

Metals

Prep Batch: 616155

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-177853-1	OUTFALL-001	Total Recoverable	Water	200.8	
MB 280-616155/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-616155/27-A	Lab Control Sample	Total Recoverable	Water	200.8	
LCS 280-616155/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
LCSD 280-616155/28-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	
LCSD 280-616155/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	

Filtration Batch: 616494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-177853-1	OUTFALL-001	Potentially Dissolved	Water	Poten_Diss_Met	
MB 280-616494/1-B	Method Blank	Potentially Dissolved	Water	Poten_Diss_Met	
LCS 280-616494/2-B	Lab Control Sample	Potentially Dissolvec	Water	Poten_Diss_Met	

Prep Batch: 616728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-177853-1	OUTFALL-001	Potentially Dissolved	Water	200.8	616494
MB 280-616494/1-B	Method Blank	Potentially Dissolvec	Water	200.8	616494
LCS 280-616494/2-B	Lab Control Sample	Potentially Dissolvec	Water	200.8	616494

Analysis Batch: 616759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-177853-1	OUTFALL-001	Total Recoverable	Water	200.8	616155
MB 280-616155/1-A	Method Blank	Total Recoverable	Water	200.8	616155
LCS 280-616155/27-A	Lab Control Sample	Total Recoverable	Water	200.8	616155
LCSD 280-616155/28-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	616155

Analysis Batch: 617030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-177853-1	OUTFALL-001	Total Recoverable	Water	200.7 Rev 4.4	616155
MB 280-616155/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	616155
LCS 280-616155/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	616155
LCSD 280-616155/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	616155

Analysis Batch: 617210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-177853-1	OUTFALL-001	Potentially Dissolved	Water	200.8	616728
MB 280-616494/1-B	Method Blank	Potentially Dissolved	Water	200.8	616728
LCS 280-616494/2-B	Lab Control Sample	Potentially Dissolved	Water	200.8	616728

Prep Batch: 617604

Lab Sample ID	Client Sample ID	Prep Type	Matrix		p Batch
280-177853-1 MB 280-617604/1-A	OUTFALL-001 Method Blank	Total/NA Total/NA	Water Water	245.1 245.1	
LCS 280-617604/2-A	Lab Control Sample	Total/NA	Water	245.1	
LCSD 280-617604/3-A	Lab Control Sample Dup	Total/NA	Water	245.1	

Analysis Batch: 617768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-177853-1	OUTFALL-001	Total/NA	Water	245.1	617604
MB 280-617604/1-A	Method Blank	Total/NA	Water	245.1	617604
LCS 280-617604/2-A	Lab Control Sample	Total/NA	Water	245.1	617604

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QC Association Summary

Client: Grand Island Resources Project/Site: Nederland, CO

Job ID: 280-177853-1

Metals (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 280-617604/3-A	Lab Control Sample Dup	Total/NA	Water	245.1	617604

General Chemistry

Filtration Batch: 616147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch
280-177853-1	OUTFALL-001	Dissolved	Water	FILTRATION
MB 280-616147/3-A	Method Blank	Dissolved	Water	FILTRATION
LCS 280-616147/1-A	Lab Control Sample	Dissolved	Water	FILTRATION
LCSD 280-616147/2-A	Lab Control Sample Dup	Dissolved	Water	FILTRATION

Analysis Batch: 616159

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-177853-1	OUTFALL-001	Dissolved	Water	SM 3500 CR B	616147
280-177853-1	OUTFALL-001	Total/NA	Water	SM 3500 CR B	
MB 280-616147/3-A	Method Blank	Dissolved	Water	SM 3500 CR B	616147
MB 280-616159/23	Method Blank	Total/NA	Water	SM 3500 CR B	
LCS 280-616147/1-A	Lab Control Sample	Dissolved	Water	SM 3500 CR B	616147
LCS 280-616159/21	Lab Control Sample	Total/NA	Water	SM 3500 CR B	
LCSD 280-616147/2-A	Lab Control Sample Dup	Dissolved	Water	SM 3500 CR B	616147
LCSD 280-616159/22	Lab Control Sample Dup	Total/NA	Water	SM 3500 CR B	

Analysis Batch: 616303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-177853-1	OUTFALL-001	Total/NA	Water	SM 4500 S2 D	
MB 280-616303/11	Method Blank	Total/NA	Water	SM 4500 S2 D	
LCS 280-616303/9	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
LCSD 280-616303/10	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 D	
280-177853-1 MS	OUTFALL-001	Total/NA	Water	SM 4500 S2 D	
280-177853-1 MSD	OUTFALL-001	Total/NA	Water	SM 4500 S2 D	

Analysis Batch: 616433

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-177853-1	OUTFALL-001	Total/NA	Water	SM4500 S2 H	

Analysis Batch: 616882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-177853-1	OUTFALL-001	Total/NA	Water	SM 4500 H+ B	
LCS 280-616882/31	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 617026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-177853-1	OUTFALL-001	Total/NA	Water	SM 2540D	
MB 280-617026/3	Method Blank	Total/NA	Water	SM 2540D	
LCS 280-617026/1	Lab Control Sample	Total/NA	Water	SM 2540D	
LCSD 280-617026/2	Lab Control Sample Dup	Total/NA	Water	SM 2540D	

Analysis Batch: 617525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-177853-1	OUTFALL-001	Total/NA	Water	SM 2510B	
MB 280-617525/5	Method Blank	Total/NA	Water	SM 2510B	

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6/29/2023

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QC Association Summary

Client: Grand Island Resources

Job ID: 280-177853-1

Project/Site: Nederland, CO

General Chemistry (Continued)

Analysis Batch: 617525 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 280-617525/4	Lab Control Sample	Total/NA	Water	SM 2510B	

Analysis Batch: 617695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-177853-1	OUTFALL-001	Potentially Dissolved	Water	SM3500 CR B	
280-177853-1	OUTFALL-001	Total Recoverable	Water	SM3500 CR B	

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Lab Chronicle

Client: Grand Island Resources Job ID: 280-177853-1 Project/Site: Nederland, CO

Client Sample ID: OUTFALL-001

Date Received: 06/14/23 14:34

Lab Sample ID: 280-177853-1 Date Collected: 06/14/23 12:30 **Matrix: Water**

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			50 mL	50 mL	616155	06/19/23 07:43	LJS	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			617030	06/21/23 14:38	LMT	EET DEN
Potentially Dissolved	Filtration	Poten_Diss_Met			150 mL	150 mL	616494	06/16/23 22:30	LRD	EET DEN
Potentially Dissolvec	Prep	200.8			50 mL	50 mL	616728	06/20/23 14:40	LJS	EET DEN
Potentially Dissolvec	Analysis	200.8		1			617210	06/22/23 20:00	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	616155	06/19/23 07:43	LJS	EET DEN
Total Recoverable	Analysis	200.8		1			616759	06/20/23 02:16	LMT	EET DEN
Total/NA	Prep	245.1			30 mL	50 mL	617604	06/27/23 14:45	KMS	EET DEN
Total/NA	Analysis	245.1		1			617768	06/27/23 23:07	KMS	EET DEN
Total/NA	Analysis	SM 2510B		1			617525	06/27/23 07:51	KEG	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	617026	06/21/23 16:51	CAI	EET DEN
Dissolved	Filtration	FILTRATION			2 mL	2 mL	616147	06/14/23 15:22	LBR	EET DEN
Dissolved	Analysis	SM 3500 CR B		1	2 mL	2 mL	616159	06/14/23 16:11	LBR	EET DEN
Total/NA	Analysis	SM 3500 CR B		1	2 mL	2 mL	616159	06/14/23 16:23	LBR	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			616882	06/20/23 20:42	KEG	EET DEN
Total/NA	Analysis	SM 4500 S2 D		1	2 mL	2 mL	616303	06/15/23 14:02	SL	EET DEN
Potentially Dissolved	Analysis	SM3500 CR B		1			617695	06/27/23 18:42	RMS	EET DEN
Total Recoverable	Analysis	SM3500 CR B		1			617695	06/27/23 18:42	RMS	EET DEN
Total/NA	Analysis	SM4500 S2 H		1			616433	06/16/23 12:05	ZPM	EET DEN

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Accreditation/Certification Summary

Client: Grand Island Resources Project/Site: Nederland, CO Job ID: 280-177853-1

Laboratory: Eurofins Denver

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	10-31-23
A2LA	ISO/IEC 17025	2907.01	10-31-23
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-10-24
Arizona	State	AZ0713	12-20-24
Arkansas DEQ	State	19-047-0	05-31-23 *
California	State	2513	01-09-24
Connecticut	State	PH-0686	09-30-24
Florida	NELAP	E87667-57	06-30-23
Georgia	State	4025-011	01-08-24
Illinois	NELAP	2000172019-1	04-30-24
lowa	State	IA#370	12-01-24
Kansas	NELAP	E-10166	04-30-24
Kentucky (WW)	State	KY98047	12-31-23
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-23
Louisiana (All)	NELAP	30785	06-30-23
Minnesota	NELAP	1788752	12-31-23
Nevada	State	CO000262020-1	07-31-23
New Hampshire	NELAP	2053	04-28-24
New Jersey	NELAP	190002	06-30-23
New York	NELAP	59923	03-31-24
North Carolina (WW/SW)	State	358	12-31-23
North Dakota	State	R-034	01-08-24
Oklahoma	NELAP	8614	08-31-23
Oklahoma	State	2018-006	08-31-23
Pennsylvania	NELAP	013	07-31-23
South Carolina	State	72002001	01-08-24
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	09-30-23
US Fish & Wildlife	US Federal Programs	058448	07-31-23
USDA	US Federal Programs	P330-20-00065	12-19-25
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-23
Washington	State	C583-19	08-03-23
West Virginia DEP	State	354	11-30-23
Wisconsin	State	999615430	08-31-23
Wyoming (UST)	A2LA	2907.01	10-31-22 *

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 $^{{}^{\}star}\operatorname{Accreditation/Certification\ renewal\ pending\ -\ accreditation/certification\ considered\ valid}.$

Eurofins Denver

Eurofins TestAmerica, Denver 4955 Yarrow Street Arvada, CO 80002 Phone (303) 736-0100 Phone (303) 431-7171

💸 eurofins Environment Testing America

Chain of Custody Record

formation	Sampler: D. Z	Lab PM: Bieniulis, Dylan T	Dylan T	<u> </u>	Carrier Tracking No(s):		COC No:	
act: lelaney	Phone: 303-506-161	E-Mail: Dylan.Bie	E-Mail: Dylan.Bieniulis@et.eurofinsus.com		State of Origin:		Page:	
الالالالالالالالالالالالالالالالالالال	PWSID:		Analy	Analysis Requested	ested		Job #:	
Address: 12567 West Cedar Road Suite 250	Due Date Requested:		-				Preservation Codes	is:
City. Lakewood	TAT Requested (days):		Cr (calc)	pəziuo			A - HCL B - NaOH C - Zn Acetate	M - Hexane N - None O - AsNaO2
State, Zip: CO, 80466	Compliance Project: Δ Yes Δ No) Juəle	oinU - F				P - Na204S Q - Na2SO3
Phone: 315-414-4986		(0	nd Triv	H_SS_0				R - Na2S2O3 S - H2SO4 T - TSP Dodecahvdrate
Email: <u>pdelaney@blackfoxmıning.com</u>	; ** OM	SECTION STATE	e, 254	09EWS	SCOVE	S.		U - Acetone V - MCAA
Project Name: Nederland, CO	Project #: 28022821		uctanc	pue a	P leto	nənistı	K - EDTA L - EDA	W - pH 4-5 Z - other (specify)
Site: First half of the month event	SSOW#:		c Cond	pyins .	T - 1.24	nos to	Other:	
Sample Identification	Sample Date Time G=grab) BT	Matrix ed (w=water, S=solid, O=waste/oil, Ed S=Tissue, A=Air)	Perform MS/M 2510B - Specific 3500_CR_B - Td 3500_CR_B - Td Potentially Diss	SM4500_S2_D - Hydrogen Sulfid	8.002 - 8.000 Permit list) 8.005 / 7.005 First half of the	Total Number	Special Ins	Special Instructions/Note:
	Preservation Code:	on Code:	z	පි	0	X	$\left \right $	
OUTFALL - 001	CE 14/23 12:30 G	3	X	X	×	ن		*First half of the month potentially dissolved metals nermit list = 200.8 (As. Cd. Cr. Cr.
)		Zn)
							*First half of the mo metals permit list = 3	*First half of the month total recoverable metals permit list = 200.7 (Fe), 200.8 (As,
							Cd, Cr, Cu, Pb, Zn),	and 245.1 (Hg)
			— — —	- -	- - - 		OH=	7°4
							Tem)=8°C
						-		
			- 280-177853 Chain of Custody	of Custody				
Possible Hazard Identification Non-Hazard Hammable Skin Irritant Poison B	on B Unknown Radiological	S	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	may be ass	assessed if sample:	s are retain	stained longer than 1 r	nonth)
, III, IV, Other (specify)		S	Special Instructions/QC Requirements:	equirements	:	3	5	Months
	Date:	Time:	e.		Method of Shipment:	nt:		
Relinquished by.	Date/Time: (28 2.349)	Company A	Received by: M		Date/Time/	5 U.B.	1434	Company
Relinquished by:		Company	Received by:		Date/ Time			Company
Г			. (2)			i		Company
Custody Seals Infact: Custody Seal No.: △ Yes △ No			Cooler Temperature(s) °C and Other Remarks:	nd Other Rema	1rks: 57 80 (P1	(BB)	\bigcirc

Login Sample Receipt Checklist

Client: Grand Island Resources Job Number: 280-177853-1

Login Number: 177853 List Source: Eurofins Denver

List Number: 1

Creator: Roehsner, Karen P

Creator. Roensiler, Raren P		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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PREPARED FOR

ANALYTICAL REPORT

Attn: Brooke Molson Moran Grand Island Resources 12567 West Cedar Road Suite 250 Lakewood, Colorado 80228 Generated 7/13/2023 11:01:47 AM

JOB DESCRIPTION

Nederland, CO

JOB NUMBER

280-178450-1

Eurofins Denver 4955 Yarrow Street Arvada CO 80002

Eurofins Denver

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

Authorization

Generated 7/13/2023 11:01:47 AM

Authorized for release by Dylan Bieniulis, Project Manager I Dylan.Bieniulis@et.eurofinsus.com (303)736-0138

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Definitions/Glossary

Client: Grand Island Resources

Job ID: 280-178450-1

Project/Site: Nederland, CO

Qualifiers

Metals

Qualifier Qualifier Description

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins Denver

Client: Grand Island Resources Project/Site: Nederland, CO

Job ID: 280-178450-1

Job ID: 280-178450-1

Laboratory: Eurofins Denver

Narrative

CASE NARRATIVE

Client: Grand Island Resources

Project: Nederland, CO

Report Number: 280-178450-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 06/28/2023; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 5.5 C.

POTENTIALLY DISSOLVED METALS (ICPMS)

Sample OUTFALL-001 (280-178450-1) was analyzed for potentially dissolved metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared on 07/05/2023 and analyzed on 07/11/2023.

This report includes Reporting Limits (RLs) for 200.8 Potentially Dissolved Silver that are less than Eurofins TestAmerica Denver's standard reporting limit. The reported sample results and associated reporting limits are being used specifically to meet the needs of this project. Note that data are not normally reported to these levels without qualification because they are inherently less reliable and potentially less defensible than required by the latest industry standards.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL RECOVERABLE METALS (ICPMS)

Sample OUTFALL-001 (280-178450-1) was analyzed for total recoverable metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared on 06/30/2023 and analyzed on 07/10/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Detection Summary

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-178450-1

Client Sample ID: OUTFALL-001

Lab Sample ID: 280-178450-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	1.5	J	2.0	0.71	ug/L		_	200.8	Total
									Recoverable
Lead	0.97	J	1.0	0.23	ug/L	1		200.8	Total
									Recoverable
Copper	1.8	J	2.0	0.71	ug/L	1		200.8	Potentially
									Dissolved
Lead	0.98	J	1.0	0.23	ug/L	1		200.8	Potentially
									Dissolved
Zinc	14		10	2.0	ug/L	1		200.8	Potentially
									Dissolved

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Method Summary

Client: Grand Island Resources Project/Site: Nederland, CO

Job ID: 280-178450-1

Method	Method Description	Protocol	Laboratory
200.8	Metals (ICP/MS)	EPA	EET DEN
200.8	Preparation, Total Recoverable Metals	EPA	EET DEN
Poten_Diss_Met	Filtration for Potentially Dissolved Metals	EPA	EET DEN

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Sample Summary

Client: Grand Island Resources Project/Site: Nederland, CO Job ID: 280-178450-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-178450-1	OUTFALL-001	Water	06/28/23 09:00	06/28/23 15:55

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Client Sample Results

Client: Grand Island Resources

Job ID: 280-178450-1

Project/Site: Nederland, CO

Method: EPA 200.8 - Metals (ICP/MS) - Total Recoverable

١	Client Sample ID: OUTFALL-001					Lab Sam	ple ID: 280-1	78450-1
	Date Collected: 06/28/23 09:00						Matrix	x: Water
	Date Received: 06/28/23 15:55							
ı	Analyte	Result Qualifier	RI	MDI Unit	D	Propared	Analyzed	Dil Fac

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	1.5	J	2.0	0.71	ug/L		06/30/23 09:17	07/10/23 21:25	1
Lead	0.97	J	1.0	0.23	ug/L		06/30/23 09:17	07/10/23 21:25	1

Method: EPA 200.8 - Metals (ICP/MS) - Potentially Dissolved

Client Sample ID: OUTFALL-00 Date Collected: 06/28/23 09:00 Date Received: 06/28/23 15:55	1						Lab Sam	ole ID: 280-17 Matrix	8450-1 : Water
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		1.0	0.19	ug/L		07/05/23 08:40	07/11/23 05:35	1
Copper	1.8	J	2.0	0.71	ug/L		07/05/23 08:40	07/11/23 05:35	1
Lead	0.98	J	1.0	0.23	ug/L		07/05/23 08:40	07/11/23 05:35	1
Silver	ND		0.50	0.045	ug/L		07/05/23 08:40	07/11/23 05:35	1
Zinc	14		10	2.0	ug/L		07/05/23 08:40	07/11/23 05:35	1

Job ID: 280-178450-1

Client: Grand Island Resources Project/Site: Nederland, CO

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: LCS 280-617711/25-A

Analysis Batch: 619159

Client Sample ID: Lab Control Sample Prep Type: Total Recoverable

Prep Batch: 617711

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Cadmium	40.0	43.9		ug/L		110	89 - 111	
Copper	40.0	42.0		ug/L		105	90 - 115	
Lead	40.0	43.4		ug/L		109	88 - 115	
Silver	40.0	40.0		ug/L		100	90 - 114	
Zinc	40.0	40.8		ug/L		102	88 - 115	

Lab Sample ID: MB 280-617929/1-A

Matrix: Water

Matrix: Water

Analysis Batch: 619033

Client Sample ID: Method Blank Prep Type: Total Recoverable

Prep Batch: 617929

MB MB Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac 2.0 0.71 ug/L 06/30/23 09:17 07/10/23 20:53 Copper ND Lead ND 1.0 0.23 ug/L 06/30/23 09:17 07/10/23 20:53

Lab Sample ID: LCS 280-617929/2-A

Matrix: Water

Analysis Batch: 619033

Client Sample ID: Lab Control Sample Prep Type: Total Recoverable

Prep Batch: 617929

%Rec Spike LCS LCS Analyte Added Result Qualifier Unit D %Rec Limits Copper 40.0 40.6 ug/L 101 90 - 115 40.0 39.4 ug/L 88 - 115 Lead 99

Lab Sample ID: MB 280-618213/1-B

Matrix: Water

Analysis Batch: 619159

Client Sample ID: Method Blank Prep Type: Potentially Dissolved

Prep Batch: 618313

	MB	MR							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		1.0	0.19	ug/L		07/05/23 08:40	07/11/23 14:53	1
Copper	ND		2.0	0.71	ug/L		07/05/23 08:40	07/11/23 14:53	1
Lead	ND		1.0	0.23	ug/L		07/05/23 08:40	07/11/23 14:53	1
Silver	ND		0.50	0.045	ug/L		07/05/23 08:40	07/11/23 14:53	1
Zinc	ND		10	2.0	ug/L		07/05/23 08:40	07/11/23 14:53	1

Lab Sample ID: LCS 280-618213/2-B

Matrix: Water

Analysis Batch: 619159

Client Sample ID: Lab Control Sample Prep Type: Potentially Dissolved

Prep Batch: 618313

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Cadmium	40.0	42.3		ug/L		106	89 - 111	 _
Copper	40.0	42.3		ug/L		106	90 - 115	
Lead	40.0	42.7		ug/L		107	88 - 115	
Silver	40.0	39.5		ug/L		99	90 - 114	
Zinc	40.0	40.5		ug/L		101	88 - 115	

Lab Sample ID: 280-178450-1 MS

Matrix: Water

Analysis Batch: 619097

Client Sample ID: OUTFALL-001 **Prep Type: Potentially Dissolved**

Prep Batch: 618313

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Cadmium	ND		40.0	41.8		ug/L	_	105	89 - 111	

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QC Sample Results

Client: Grand Island Resources Job ID: 280-178450-1

Project/Site: Nederland, CO

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: 280-178450-1 MS **Client Sample ID: OUTFALL-001** Matrix: Water **Prep Type:** Potentially Dissolved **Analysis Batch: 619097 Prep Batch: 618313**

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Copper	1.8	J	40.0	40.9		ug/L		98	90 - 115	
Lead	0.98	J	40.0	43.5		ug/L		106	88 - 115	
Silver	ND		40.0	38.8		ug/L		97	70 - 130	
Zinc	14		40.0	54.5		ug/L		102	88 - 115	

Client Sample ID: OUTFALL-001 Lab Sample ID: 280-178450-1 MSD **Matrix: Water Prep Type: Potentially Dissolved Analysis Batch: 619097 Prep Batch: 618313**

, , , , , , , , , , , , , , , , , , , ,		Sample	Spike	MSD	MSD						
	Sample								%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Cadmium	ND		40.0	42.6		ug/L		106	89 - 111	2	20
Copper	1.8	J	40.0	40.8		ug/L		98	90 - 115	0	20
Lead	0.98	J	40.0	44.3		ug/L		108	88 - 115	2	20
Silver	ND		40.0	39.5		ug/L		99	70 - 130	2	20
Zinc	14		40.0	53.6		ug/L		99	88 - 115	2	20

QC Association Summary

Client: Grand Island Resources Project/Site: Nederland, CO

Job ID: 280-178450-1

Metals

Pre	р Ва	tch:	617	711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 280-617711/25-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 617929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-178450-1	OUTFALL-001	Total Recoverable	Water	200.8	
MB 280-617929/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-617929/2-A	Lab Control Sample	Total Recoverable	Water	200.8	

Filtration Batch: 618213

Lab Sample ID 280-178450-1	Client Sample ID OUTFALL-001	Prep Type Potentially Dissolvec	Matrix Water	Method Poten Diss Met	Prep Batch
MB 280-618213/1-B	Method Blank	Potentially Dissolved		Poten_Diss_Met	
LCS 280-618213/2-B	Lab Control Sample	Potentially Dissolvec	Water	Poten_Diss_Met	
280-178450-1 MS	OUTFALL-001	Potentially Dissolved	Water	Poten_Diss_Met	
280-178450-1 MSD	OUTFALL-001	Potentially Dissolvec	Water	Poten_Diss_Met	

Prep Batch: 618313

Lab Sample ID 280-178450-1	Client Sample ID OUTFALL-001	Prep Type Potentially Dissolved	Matrix Water	Method 200.8	Prep Batch 618213
MB 280-618213/1-B	Method Blank	Potentially Dissolvec	Water	200.8	618213
LCS 280-618213/2-B	Lab Control Sample	Potentially Dissolvec	Water	200.8	618213
280-178450-1 MS	OUTFALL-001	Potentially Dissolvec	Water	200.8	618213
280-178450-1 MSD	OUTFALL-001	Potentially Dissolvec	Water	200.8	618213

Analysis Batch: 619033

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-178450-1	OUTFALL-001	Total Recoverable	Water	200.8	617929
MB 280-617929/1-A	Method Blank	Total Recoverable	Water	200.8	617929
LCS 280-617929/2-A	Lab Control Sample	Total Recoverable	Water	200.8	617929

Analysis Batch: 619097

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-178450-1	OUTFALL-001	Potentially Dissolved	Water	200.8	618313
280-178450-1 MS	OUTFALL-001	Potentially Dissolvec	Water	200.8	618313
280-178450-1 MSD	OUTFALL-001	Potentially Dissolvec	Water	200.8	618313

Analysis Batch: 619159

Lab Sample ID MB 280-618213/1-B	Client Sample ID Method Blank	Prep Type Potentially Dissolved	Matrix Water	Method 200.8	Prep Batch 618313
LCS 280-617711/25-A	Lab Control Sample	Total Recoverable	Water	200.8	617711
LCS 280-618213/2-B	Lab Control Sample	Potentially Dissolved	Water	200.8	618313

Lab Chronicle

Client: Grand Island Resources Job ID: 280-178450-1

Project/Site: Nederland, CO

Client Sample ID: OUTFALL-001 Lab Sample ID: 280-178450-1

Date Collected: 06/28/23 09:00 **Matrix: Water** Date Received: 06/28/23 15:55

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Potentially Dissolved	Filtration	Poten_Diss_Met			150 mL	150 mL	618213	06/30/23 18:30	LRD	EET DEN
Potentially Dissolved	Prep	200.8			50 mL	50 mL	618313	07/05/23 08:40	KMS	EET DEN
Potentially Dissolved	Analysis	200.8		1			619097	07/11/23 05:35	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	617929	06/30/23 09:17	PFM	EET DEN
Total Recoverable	Analysis	200.8		1			619033	07/10/23 21:25	LMT	EET DEN

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Accreditation/Certification Summary

Client: Grand Island Resources

Job ID: 280-178450-1

Project/Site: Nederland, CO

Laboratory: Eurofins Denver

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	10-31-23
A2LA	ISO/IEC 17025	2907.01	10-31-23
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-10-24
Arizona	State	AZ0713	12-20-24
Arkansas DEQ	State	19-047-0	05-31-23 *
California	State	2513	01-09-24
Connecticut	State	PH-0686	09-30-24
Florida	NELAP	E87667-57	06-30-23 *
Georgia	State	4025-011	01-08-24
Illinois	NELAP	2000172019-1	04-30-24
lowa	State	IA#370	12-01-24
Kansas	NELAP	E-10166	04-30-24
Kentucky (WW)	State	KY98047	12-31-23
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-23 *
Louisiana (All)	NELAP	30785	06-30-23 *
Minnesota	NELAP	1788752	12-31-23
Nevada	State	CO000262020-1	07-31-23
New Hampshire	NELAP	2053	04-28-24
New Jersey	NELAP	190002	06-30-23 *
New York	NELAP	59923	03-31-24
North Carolina (WW/SW)	State	358	12-31-23
North Dakota	State	R-034	01-08-24
Oklahoma	NELAP	8614	08-31-23
Oklahoma	State	2018-006	08-31-23
Oregon	NELAP	4025-011	01-08-24
Pennsylvania	NELAP	013	07-31-23
South Carolina	State	72002001	01-08-24
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	09-30-23
US Fish & Wildlife	US Federal Programs	058448	07-31-23
USDA	US Federal Programs	P330-20-00065	12-19-25
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-23
Washington	State	C583-19	08-03-23
West Virginia DEP	State	354	11-30-23
Wisconsin	State	999615430	08-31-23
Wyoming (UST)	A2LA	2907.01	10-31-22 *

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 $^{^{\}star}\,\text{Accreditation/Certification renewal pending - accreditation/certification considered valid}.$

Eurofins Denver

Eurofins TestAmerica, Denver							-
4955 Yarrow Street	Chain	n of Custody Record	dy Rec	ord			
00 Phone (303) 431-7171			•				
Client Information	Sampler: BM		Lab PM: Bieniulis, Dylan	Jylan T	Carrier Tracking No		
	Phone:	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	E-Mail: Dvlan Bier	E-Mail: Dylan Bieniulis@Furofinset.com	State of Origin:	280-178450 Chain of Custody	
Company: Grand Island Decourage	000			l dishle	Doggood		
Original planta (Nosources) Adress: 19657 Most Codar Dood Suite 950	Due Date Requested:			Alidiyələ	nesican	Preservation Codes	
City: Lakewood	TAT Requested (days):					A - HCL B - NaOH C - Zn Acetate	M - Hexane N - None O - AsNaO2
State, Zip: CO, 80466	Compliance Project: A Yes	D No				D - Nitric Acid E - NaHSO4	
Phone:	PO #: Advance Payment Required	pə	(0			F - MeOH G - Amchlor H - Ascorbic Acid	
Email: pdelaney@blackfoxmining.com	WO #:			slstəM			
Project Name: Wastewater Discharge - Nederland, CO	Project #: 28022821			pənjos		ntainer L - EDA	W - pH 4-5 Z - other (specify)
Site: second half of the month event	SSOW#:			esiO yll ft		of con	
	Sample	Sample Type (C=comp,	Matrix (w=water, S=solid, O=waste/oil)	isimətoq - 8. zil limrəq din pə႙ lstoT - 8. (fall fim		al Mumber	
Sample Identification	Sample Date Time	G=grab)	를 하	002 C			Special Instructions/Note:
	-		;;;;	1		* * * * * * * * * * * * * * * * * * *	1 0 i + 10 0 + 0 0 1 1 + 10 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1
00-FA11-001	6/28/23 yam	\ <u>\ \</u>	ヹ	× ×		dissolved metals	Second nair of the month potentially dissolved metals permit list = 200.8 (Cd,
						Cu, Pb, Ag, Zn)	
						*Second half of t metals permit list	*Second half of the month total recoverable metals permit list = 200.8 (Cu, Pb)
						7 = Ha	107
						1 temo	2 70C
Doceihlo Hazard Idontification				o d'image d'al l'al l'al l'al l'al l'al l'al l'al			4 0 6 1
Non-Hazard Flammable Skin Irritant Poison B	son B	l Radiological	ñ	Sample Disposar (A ree may be assessed it samples are retained longer may it month) Return To Client Disposal By Lab Archive For Month	assessed it sample Disposal By Lab	es are retained longer than Archive For	n month) Months
I, III, IV, Other (specify)			ls S	Special Instructions/QC Requirements:	ıts:		
Empty Kit Relinquished by:	Date:		Time:		Method of Shipment:	nent:	
Relinquished by:	Date/Time:	Company	any	Received by:	Date	Date/Time:	Company
Relinquished by:	Date/Time:	Company	oany	Received by:	Date	Date/Time:	Company
4	Date(71110) 128 (23	3: 55 Company	51 C	Received by: ///	Date	Date/198/23 1555	Company
Custody Seals Intact: Custody SealNo.: U // A Yes, ∆ No	1 ,			Cooler Temperature(s) °C and Other Remarks:	7		
							Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Grand Island Resources Job Number: 280-178450-1

Login Number: 178450 List Source: Eurofins Denver

List Number: 1

Creator: Little, Matthew L

Greator: Little, Matthew L		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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APPENDIX C SURFACE WATER ANALYTICAL RESULTS

APPENDIX C.1 APRIL 2023 SURFACE WATER ANALYTICAL RESULTS

No observable flow, therefore, no samples collected.

APPENDIX C.2 MAY 2023 SURFACE WATER ANALYTICAL RESULTS

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ANALYTICAL REPORT

PREPARED FOR

Attn: Brooke Molson Moran Grand Island Resources 12567 West Cedar Road Suite 250 Lakewood, Colorado 80228

JOB DESCRIPTION

Generated 5/31/2023 4:30:45 PM

Nederland, CO

JOB NUMBER

280-176512-1

Eurofins Denver 4955 Yarrow Street Arvada CO 80002



Eurofins Denver

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

Authorization

Generated 5/31/2023 4:30:45 PM

Authorized for release by Dylan Bieniulis, Project Manager I Dylan.Bieniulis@et.eurofinsus.com (303)736-0138

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Definitions/Glossary

Client: Grand Island Resources Job ID: 280-176512-1 Project/Site: Nederland, CO

Qualifiers

Metals	
Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
В	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
В	Compound was found in the blank and sample.
Н	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

LOD

LOQ

MCL

Abbreviation	These commonly used abbreviations may or may not be present in this report.
n	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)

MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number

ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated

ND	Not Detected at the reporting limit (or MDL or EDL if shown)

Limit of Detection (DoD/DOE)

Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level"

NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive

QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)

RI Reporting Limit or Requested Limit (Radioch	mictry

RPD	Relative Percent Difference	a measure of the relative	difference between two points

TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins Denver

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Case Narrative

Client: Grand Island Resources Project/Site: Nederland, CO

Job ID: 280-176512-1

Job ID: 280-176512-1

Laboratory: Eurofins Denver

Narrative

CASE NARRATIVE

Client: GS Mining Company LLC

Project: Nederland, CO

Report Number: 280-176512-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 05/15/2023; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.9 C.

The laboratory only received 1x250mL unpreserved container of sample volume for the requested 3500 CR B Hexavalent Chromium and 3500 CR B Dissolved Hexavalent Chromium analysis (from lab filtered sample volume) for the following sample: 2022-02-03 (280-176512-4). The laboratory created an aliquot from the single bottle provided to be filtered prior to analysis for dissolved Hexavalent Chromium analysis therefore no corrective action was required.

Due to laboratory review error, the MS sample volume (2022-02-MS) was mistakenly logged as an MS associated with the field duplicate sample (2022-02-02) rather than the parent sample (2022-02). Because it is a field duplicate sample and primary sample and MS sample analysis had already been started on these samples, the client was notified and approved of reporting MS data associated with the field duplicate rather than the parent sample: 2022-02-02 (280-176512-3) and 2022-02-02 (280-176512-3[MS]).

TOTAL RECOVERABLE METALS (ICP)

Samples 2022-01 (280-176512-1), 2022-02 (280-176512-2), 2022-02-02 (280-176512-3) and 2022-02-03 (280-176512-4) were analyzed for Total Recoverable Metals (ICP) in accordance with EPA Method 200.7. The samples were prepared on 05/18/2023 and analyzed on 05/24/2023 and 05/25/2023.

Iron was detected in method blank MB 280-612618/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

POTENTIALLY DISSOLVED METALS (ICPMS)

Samples 2022-01 (280-176512-1), 2022-02 (280-176512-2), 2022-02-02 (280-176512-3) and 2022-02-03 (280-176512-4) were analyzed for potentially dissolved metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared on 05/18/2023 and analyzed on 05/22/2023.

This report includes Reporting Limits (RLs) for 200.8 Potentially Dissolved Silver that are less than Eurofins TestAmerica Denver's standard reporting limit. The reported sample results and associated reporting limits are being used specifically to meet the needs of this

Eurofins Denver 5/31/2023 G

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Case Narrative

Client: Grand Island Resources Project/Site: Nederland, CO Job ID: 280-176512-1

Job ID: 280-176512-1 (Continued)

Laboratory: Eurofins Denver (Continued)

project. Note that data are not normally reported to these levels without qualification because they are inherently less reliable and potentially less defensible than required by the latest industry standards.

The continuing calibration verification (CCV) associated with batch 280-613485 recovered above the upper control limit for As. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been qualified and reported. The associated samples are impacted: 2022-01 (280-176512-1), 2022-02 (280-176512-2), 2022-02-02 (280-176512-3), 2022-02-02 (280-176512-3), 2022-02-03 (280-176512-4), (CCV 280-613485/108), (LCS 280-612874/2-B), and (MB 280-612874/1-B).

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL RECOVERABLE METALS (ICPMS)

Samples 2022-01 (280-176512-1), 2022-02 (280-176512-2), 2022-02-02 (280-176512-3) and 2022-02-03 (280-176512-4) were analyzed for total recoverable metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared on 05/18/2023 and analyzed on 05/19/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL MERCURY (CVAA)

Samples 2022-01 (280-176512-1), 2022-02 (280-176512-2), 2022-02-02 (280-176512-3) and 2022-02-03 (280-176512-4) were analyzed for total mercury (CVAA) in accordance with EPA Method 245.1. The samples were prepared on 05/23/2023 and analyzed on 05/24/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TRIVALENT CHROMIUM - POTENTIALLY DISSOLVED

Samples 2022-01 (280-176512-1), 2022-02 (280-176512-2), 2022-02-02 (280-176512-3) and 2022-02-03 (280-176512-4) were analyzed for Trivalent Chromium - Potentially Dissolved in accordance with SM3500_CR3_B. The samples were analyzed on 05/30/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TRIVALENT CHROMIUM - TOTAL RECOVERABLE

Samples 2022-01 (280-176512-1), 2022-02 (280-176512-2), 2022-02-02 (280-176512-3) and 2022-02-03 (280-176512-4) were analyzed for Trivalent Chromium - Total Recoverable in accordance with SM3500 CR3 B. The samples were analyzed on 05/30/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SPECIFIC CONDUCTIVITY

Samples 2022-01 (280-176512-1), 2022-02 (280-176512-2), 2022-02-02 (280-176512-3) and 2022-02-03 (280-176512-4) were analyzed for specific conductivity in accordance with SM20 2510B. The samples were analyzed on 05/23/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL SUSPENDED SOLIDS

Samples 2022-01 (280-176512-1), 2022-02 (280-176512-2), 2022-02-02 (280-176512-3) and 2022-02-03 (280-176512-4) were analyzed for total suspended solids in accordance with SM20 2540D. The samples were analyzed on 05/22/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED HEXAVALENT CHROMIUM

Samples 2022-01 (280-176512-1), 2022-02 (280-176512-2), 2022-02-02 (280-176512-3) and 2022-02-03 (280-176512-4) were analyzed for dissolved hexavalent chromium in accordance with SM 3500 CR B. The samples were analyzed on 05/16/2023.

Due to laboratory capacity the following sample was analyzed outside of the 24 hour hold time by approximately 5 minutes: 2022-01 (280-176512-1). Data has been qualified and reported.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Case Narrative

Client: Grand Island Resources Project/Site: Nederland, CO

Job ID: 280-176512-1

Job ID: 280-176512-1 (Continued)

Laboratory: Eurofins Denver (Continued)

HEXAVALENT CHROMIUM

Samples 2022-01 (280-176512-1), 2022-02 (280-176512-2), 2022-02-02 (280-176512-3) and 2022-02-03 (280-176512-4) were analyzed for hexavalent chromium in accordance with 3500_CR_B. The samples were analyzed on 05/16/2023.

Due to laboratory capacity the following sample was analyzed outside of the 24 hour hold time by approximately 13 minutes: 2022-01 (280-176512-1). Data has been qualified and reported.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

CORROSIVITY (PH)

Samples 2022-01 (280-176512-1), 2022-02 (280-176512-2), 2022-02-02 (280-176512-3) and 2022-02-03 (280-176512-4) were analyzed for corrosivity (pH) in accordance with SM20 4500 H+ B. The samples were analyzed on 05/19/2023 and 05/23/2023.

Sample 2022-01 (280-176512-1) and 2022-02-03 (280-176512-4) did not equilibrate to within 0.05 pH units after three measurements. This was observed in a previous analysis thus the sample was not rerun.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SULFIDE

Samples 2022-01 (280-176512-1), 2022-02 (280-176512-2), 2022-02-02 (280-176512-3) and 2022-02-03 (280-176512-4) were analyzed for sulfide in accordance with SM20 4500 S2 D. The samples were analyzed on 05/18/2023.

Sulfide was detected in method blank MB 280-613317/39 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

Sulfide was detected in method blank MB 280-613317/9 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

Sulfide exceeded the RPD limit for LCSD 280-613317/10. LCS and LCSD recovered within percent recovery criteria. Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HYDROGEN SULFIDE

Samples 2022-01 (280-176512-1), 2022-02 (280-176512-2), 2022-02-02 (280-176512-3) and 2022-02-03 (280-176512-4) were analyzed for Hydrogen Sulfide in accordance with SM20 4500 S2 H. The samples were analyzed on 05/26/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

LOW LEVEL MERCURY

Samples 2022-01 (280-176512-1), 2022-02 (280-176512-2), 2022-02-02 (280-176512-3) and 2022-02-03 (280-176512-4) were analyzed for Low Level Mercury in accordance with EPA 1631. The samples were prepared on 05/19/2023 and analyzed on 05/22/2023.

The presence of the '4' qualifier indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount. Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Eurofins Denver 5/31/2023

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Detection Summary

Client: Grand Island Resources Project/Site: Nederland, CO

Job ID: 280-176512-1

Client Sample ID: 2022-01

Lab Sample ID: 280-176512-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	6.8		0.50	0.20	ng/L	1	_	1631E	Total/NA
Iron	630	В	100	9.1	ug/L	1		200.7 Rev 4.4	Total
									Recoverable
Copper	2.2		2.0	0.71	ug/L	1		200.8	Total
									Recoverable
Lead	0.58	J	1.0	0.23	ug/L	1		200.8	Total
									Recoverable
Zinc	2.2	J	10	2.0	ug/L	1		200.8	Total
_					_				Recoverable
Copper	1.6	J	2.0	0.71	ug/L	1		200.8	Potentially
									Dissolved
Lead	0.34	J	1.0	0.23	ug/L	1		200.8	Potentially
Manganasa	00		2.0	0.51	/1	4		200.8	Dissolved
Manganese	28		3.0	0.51	ug/L	1		200.6	Potentially Dissolved
Zinc	8.4	1	10	2.0	ug/L	1		200.8	Potentially
ZIIIC	0.4	3	10	2.0	ug/L	į		200.0	Dissolved
Specific Conductance	54		2.0	2.0	umhos/cm	1		SM 2510B	Total/NA
Total Suspended Solids	5.2		4.0	1.1		1		SM 2540D	Total/NA
pH adj. to 25 deg C		HF	0.1	0.1	Ü	1		SM 4500 H+ B	Total/NA
Temperature	20.3		1.0	1.0	Degrees C	1		SM 4500 H+ B	Total/NA
Sulfide	0.17		0.050	0.022	-	1		SM 4500 S2 D	Total/NA
Field pH	7.9	J	1.0		SU	1		SM4500 S2 H	Total/NA
			1.0		Celsius			SM4500 S2 H	Total/NA
Field Temperature	20					=			
Specific Conductance	54		2.0	2.0	umhos/cm	1		SM4500 S2 H	Total/NA

Client Sample ID: 2022-02

Lab Sample ID: 280-176512-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	23		0.50	0.20	ng/L	1	_	1631E	Total/NA
Iron	1100	В	100	9.1	ug/L	1		200.7 Rev 4.4	Total
									Recoverable
Cadmium	0.28	J	1.0	0.19	ug/L	1		200.8	Total
									Recoverable
Chromium	0.67	J	3.0	0.50	ug/L	1		200.8	Total
	4.0		0.0	0.74	4			000.0	Recoverable
Copper	4.9		2.0	0.71	ug/L	1		200.8	Total
Lead	24		1.0	0.22	ua/l	1		200.8	Recoverable Total
Lead	24		1.0	0.23	ug/L	1		200.6	Recoverable
Zinc	26		10	2.0	ug/L	1		200.8	Total
2	20			2.0	ug/L			200.0	Recoverable
Cadmium	0.19	J	1.0	0.19	ug/L	1		200.8	Potentially
					Ü				Dissolved
Copper	3.8		2.0	0.71	ug/L	1		200.8	Potentially
									Dissolved
Lead	22		1.0	0.23	ug/L	1		200.8	Potentially
									Dissolved
Manganese	54		3.0	0.51	ug/L	1		200.8	Potentially
									Dissolved
Zinc	32		10	2.0	ug/L	1		200.8	Potentially
									Dissolved
Specific Conductance	68		2.0		umhos/cm	1		SM 2510B	Total/NA
Total Suspended Solids	39		4.0	1.1	mg/L	1		SM 2540D	Total/NA
pH adj. to 25 deg C	7.5	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Temperature	20.2	HF	1.0	1.0	Degrees C	1		SM 4500 H+ B	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: Grand Island Resources Project/Site: Nederland, CO

Job ID: 280-176512-1

Client Sample ID: 2022-02 (Continued)

Lab Sample ID: 280-176512-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfide	0.13	В	0.050	0.022	mg/L	1	_	SM 4500 S2 D	Total/NA
Field pH	7.5		1.0	1.0	SU	1		SM4500 S2 H	Total/NA
Field Temperature	20		1.0	1.0	Celsius	1		SM4500 S2 H	Total/NA
Specific Conductance	68		2.0	2.0	umhos/cm	1		SM4500 S2 H	Total/NA

Client Sample ID: 2022-02-02

Lab Sample ID: 280-176512-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	20		0.50	0.20	ng/L	1	_	1631E	Total/NA
Iron	970	В	100	9.1	ug/L	1		200.7 Rev 4.4	Total
									Recoverable
Chromium	2.4	J	3.0	0.50	ug/L	1		200.8	Total
					<u>.</u>				Recoverable
Copper	6.1		2.0	0.71	ug/L	1		200.8	Total
Lead	18		1.0	0.22	ug/l	1		200.8	Recoverable Total
Leau	10		1.0	0.23	ug/L	ı		200.6	Recoverable
Zinc	32		10	20	ug/L	1		200.8	Total
26	02		10	2.0	ug/L			200.0	Recoverable
Copper	3.2		2.0	0.71	ug/L	1		200.8	Potentially
									Dissolved
Lead	14		1.0	0.23	ug/L	1		200.8	Potentially
									Dissolved
Manganese	43		3.0	0.51	ug/L	1		200.8	Potentially
									Dissolved
Zinc	25		10	2.0	ug/L	1		200.8	Potentially Dissolved
Specific Conductance	67		2.0	2.0	umhos/cm	1		SM 2510B	Total/NA
Total Suspended Solids	51		4.0	1.1		1		SM 2540D	Total/NA
	7.4			0.1					Total/NA
pH adj. to 25 deg C			0.1			1		SM 4500 H+ B	
Temperature	19.5	HF	1.0	1.0	•	1		SM 4500 H+ B	Total/NA
Field pH	7.4		1.0		SU	1		SM4500 S2 H	Total/NA
Field Temperature	20		1.0	1.0		1		SM4500 S2 H	Total/NA
Specific Conductance	67		2.0	2.0	umhos/cm	1		SM4500 S2 H	Total/NA

Client Sample ID: 2022-02-03

Lab Sample ID: 280-176512-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.26	J	0.50	0.20	ng/L	1	_	1631E	Total/NA
Iron	15	JB	100	9.1	ug/L	1		200.7 Rev 4.4	Total Recoverable
Zinc	6.0	J	10	2.0	ug/L	1		200.8	Potentially Dissolved
Chromium, hexavalent	0.011	J	0.020	0.0040	mg/L	1		SM 3500 CR B	Total/NA
pH adj. to 25 deg C	7.7	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Temperature	20.7	HF	1.0	1.0	Degrees C	1		SM 4500 H+ B	Total/NA
Field pH	7.7		1.0	1.0	SU	1		SM4500 S2 H	Total/NA
Field Temperature	21		1.0	1.0	Celsius	1		SM4500 S2 H	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Denver

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Method Summary

Client: Grand Island Resources Project/Site: Nederland, CO

Job ID: 280-176512-1

Method	Method Description	Protocol	Laboratory
1631E	Mercury, Low Level (CVAFS)	EPA	EET PEN
200.7 Rev 4.4	Metals (ICP)	EPA	EET DEN
200.8	Metals (ICP/MS)	EPA	EET DEN
245.1	Mercury (CVAA)	EPA	EET DEN
SM 2510B	Conductivity, Specific Conductance	SM	EET DEN
SM 2540D	Solids, Total Suspended (TSS)	SM	EET DEN
SM 3500 CR B	Chromium, Hexavalent	SM	EET DEN
SM 4500 H+ B	pH	SM	EET DEN
SM 4500 S2 D	Sulfide, Total	SM	EET DEN
SM3500 CR B	Chromium, Trivalent	SM	EET DEN
SM4500 S2 H	Unionized Hydrogen Sulfide	SM	EET DEN
1631E	Preparation, Mercury, Low Level	EPA	EET PEN
200.7	Preparation, Total Recoverable Metals	EPA	EET DEN
200.8	Preparation, Total Recoverable Metals	EPA	EET DEN
245.1	Preparation, Mercury	EPA	EET DEN
FILTRATION	Sample Filtration	None	EET DEN
Poten_Diss_Met	Filtration for Potentially Dissolved Metals	EPA	EET DEN

Protocol References:

EPA = US Environmental Protection Agency

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100 EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

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Sample Summary

Client: Grand Island Resources Project/Site: Nederland, CO Job ID: 280-176512-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	
280-176512-1	2022-01	Water	05/15/23 09:00	05/15/23 16:26	
280-176512-2	2022-02	Water	05/15/23 10:00	05/15/23 16:26	
280-176512-3	2022-02-02	Water	05/15/23 10:00	05/15/23 16:26	
280-176512-4	2022-02-03	Water	05/15/23 10:00	05/15/23 16:26	

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Client: Grand Island Resources Job ID: 280-176512-1

Project/Site: Nederland, CO

Client Sample ID: 2022-01 Date Collected: 05/15/23 09:00 Date Received: 05/15/23 16:26							Lab Sam	ple ID: 280-17 Matrix	76512-1 : Water
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	6.8		0.50	0.20	ng/L		05/19/23 15:30	05/22/23 12:39	1
Client Sample ID: 2022-02							Lab Sam	ple ID: 280-17	76512-2
Date Collected: 05/15/23 10:00								Matrix	: Water
Date Received: 05/15/23 16:26 Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	23		0.50	0.20	ng/L		05/19/23 15:30	05/22/23 12:47	1
Client Sample ID: 2022-02-02 Date Collected: 05/15/23 10:00 Date Received: 05/15/23 16:26							Lab Sam	ple ID: 280-17 Matrix	76512-3 : Water
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	20		0.50	0.20	ng/L		05/19/23 15:30	05/22/23 12:55	1
Client Sample ID: 2022-02-03 Date Collected: 05/15/23 10:00 Date Received: 05/15/23 16:26							Lab Sam	ple ID: 280-17 Matrix	76512-4 : Water
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

0.50

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

0.26 J

Mercury

Client Sample ID: 2022-01 Date Collected: 05/15/23 09:00							Lab Sam	ple ID: 280-17 Matrix	76512-1 : Water
Date Received: 05/15/23 16:26 Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	630	B	100	9.1	ug/L		05/18/23 07:45	05/24/23 23:28	1
Client Sample ID: 2022-02							Lab Sam	ple ID: 280-17	76512-2
Date Collected: 05/15/23 10:00								Matrix	: Water
Date Received: 05/15/23 16:26						_	_		
Analyte		Qualifier	RL _	MDL		<u>D</u>	Prepared	Analyzed	Dil Fac
Iron	1100	В	100	9.1	ug/L		05/18/23 07:45	05/24/23 23:32	1
Client Sample ID: 2022-02-02							Lab Sam	ple ID: 280-17	76512-3
Date Collected: 05/15/23 10:00								Matrix	: Water
Date Received: 05/15/23 16:26									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	970	В	100	9.1	ug/L		05/18/23 07:45	05/25/23 21:49	1
Client Sample ID: 2022-02-03							Lab Sam	ple ID: 280-17	76512-4
Date Collected: 05/15/23 10:00									: Water
Date Received: 05/15/23 16:26									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	15	JB	100	9.1	ug/L		05/18/23 07:45	05/25/23 22:09	1

Client: Grand Island Resources

Project/Site: Nederland, CO

Method: EPA 200.8 - Metals (ICP/MS) - Total Recoverable

Client Sample ID: 2022-01 Lab Sample ID: 280-176512-1 Date Collected: 05/15/23 09:00 **Matrix: Water**

Date Received: 05/15/23 16:26

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		05/18/23 07:45	05/19/23 01:28	1
Cadmium	ND		1.0	0.19	ug/L		05/18/23 07:45	05/19/23 01:28	1
Chromium	ND		3.0	0.50	ug/L		05/18/23 07:45	05/19/23 01:28	1
Copper	2.2		2.0	0.71	ug/L		05/18/23 07:45	05/19/23 01:28	1
Lead	0.58	J	1.0	0.23	ug/L		05/18/23 07:45	05/19/23 01:28	1
Zinc	2.2	J	10	2.0	ug/L		05/18/23 07:45	05/19/23 01:28	1

Client Sample ID: 2022-02 Lab Sample ID: 280-176512-2 Date Collected: 05/15/23 10:00 **Matrix: Water**

Date Received: 05/15/23 16:26

Date Neceived. 03/13/2	.5 10.20								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		05/18/23 07:45	05/19/23 01:30	1
Cadmium	0.28	J	1.0	0.19	ug/L		05/18/23 07:45	05/19/23 01:30	1
Chromium	0.67	J	3.0	0.50	ug/L		05/18/23 07:45	05/19/23 01:30	1
Copper	4.9		2.0	0.71	ug/L		05/18/23 07:45	05/19/23 01:30	1
Lead	24		1.0	0.23	ug/L		05/18/23 07:45	05/19/23 01:30	1
Zinc	26		10	2.0	ug/L		05/18/23 07:45	05/19/23 01:30	1
					~g/ =		00/10/20 01110	00/ 10/20 0 1100	•

Client Sample ID: 2022-02-02 Lab Sample ID: 280-176512-3 Date Collected: 05/15/23 10:00 **Matrix: Water**

Date Received: 05/15/23 16:26

Date Received: 05/15/2	23 10:20							
Analyte	Result Qual	ifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND ND	5.0	0.50	ug/L		05/18/23 07:45	05/19/23 01:08	1
Cadmium	ND	1.0	0.19	ug/L		05/18/23 07:45	05/19/23 01:08	1
Chromium	2.4 J	3.0	0.50	ug/L		05/18/23 07:45	05/19/23 01:08	1
Copper	6.1	2.0	0.71	ug/L		05/18/23 07:45	05/19/23 01:08	1
Lead	18	1.0	0.23	ug/L		05/18/23 07:45	05/19/23 01:08	1
Zinc	32	10	2.0	ug/L		05/18/23 07:45	05/19/23 01:08	1

Client Sample ID: 2022-02-03 Lab Sample ID: 280-176512-4 Date Collected: 05/15/23 10:00 **Matrix: Water**

Date Received: 05/15/23 16:26

Buto itocorrou. corror	20 10.20							
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND ND	5.0	0.50	ug/L		05/18/23 07:45	05/19/23 01:32	1
Cadmium	ND	1.0	0.19	ug/L		05/18/23 07:45	05/19/23 01:32	1
Chromium	ND	3.0	0.50	ug/L		05/18/23 07:45	05/19/23 01:32	1
Copper	ND	2.0	0.71	ug/L		05/18/23 07:45	05/19/23 01:32	1
Lead	ND	1.0	0.23	ug/L		05/18/23 07:45	05/19/23 01:32	1
Zinc	ND	10	2.0	ug/L		05/18/23 07:45	05/19/23 01:32	1

Method: EPA 200.8 - Metals (ICP/MS) - Potentially Dissolved

Client Sample ID: 2022-01 Lab Sample ID: 280-176512-1 Date Collected: 05/15/23 09:00 **Matrix: Water**

Date Received: 05/15/23 16:26									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	^+	5.0	0.50	ug/L		05/18/23 14:27	05/22/23 19:32	1
Cadmium	ND		1.0	0.19	ug/L		05/18/23 14:27	05/22/23 19:32	1
Chromium	ND		3.0	0.50	ug/L		05/18/23 14:27	05/22/23 19:32	1
Copper	1.6	J	2.0	0.71	ug/L		05/18/23 14:27	05/22/23 19:32	1
Lead	0.34	J	1.0	0.23	ug/L		05/18/23 14:27	05/22/23 19:32	1

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Client: Grand Island Resources Job ID: 280-176512-1 Project/Site: Nederland, CO

Method: EPA 200.8 - Metals (ICP/MS) - Potentially Dissolved (Continued)

8.4 J

Lab Sample ID: 280-176512-1 Client Sample ID: 2022-01 Date Collected: 05/15/23 09:00 **Matrix: Water** Date Received: 05/15/23 16:26

RL **MDL** Unit Prepared Dil Fac Analyte Result Qualifier D Analyzed 3.0 05/18/23 14:27 05/22/23 19:32 Manganese 28 0.51 ug/L ND 3.0 05/18/23 14:27 05/22/23 19:32 Nickel 0.83 ug/L Selenium ND 5.0 1.0 ug/L 05/18/23 14:27 05/22/23 19:32 Silver ND 0.50 05/18/23 14:27 05/22/23 19:32 0.045 ug/L

Client Sample ID: 2022-02 Lab Sample ID: 280-176512-2 Date Collected: 05/15/23 10:00 **Matrix: Water**

10

2.0 ug/L

Date Received: 05/15/23 16:26 Analyte Result Qualifier RL **MDL** Unit D Prepared Analyzed Dil Fac ND ^+ Arsenic 5.0 0.50 ug/L 05/18/23 14:27 05/22/23 19:34 1.0 05/18/23 14:27 05/22/23 19:34 Cadmium 0.19 0.19 ug/L Chromium 05/18/23 14:27 05/22/23 19:34 ND 3.0 0.50 ug/L 2.0 0.71 ug/L 05/18/23 14:27 05/22/23 19:34 Copper 3.8 Lead 22 1.0 0.23 ug/L 05/18/23 14:27 05/22/23 19:34 3.0 0.51 ug/L 05/18/23 14:27 05/22/23 19:34 **Manganese** 54 Nickel ND 3.0 0.83 ug/L 05/18/23 14:27 05/22/23 19:34 Selenium ND 5.0 1.0 ug/L 05/18/23 14:27 05/22/23 19:34 Silver ND 0.50 0.045 ug/L 05/18/23 14:27 05/22/23 19:34 **Z**inc 05/18/23 14:27 05/22/23 19:34 **32** 10 2.0 ug/L

Client Sample ID: 2022-02-02 Lab Sample ID: 280-176512-3 Date Collected: 05/15/23 10:00 **Matrix: Water**

Zinc

Date Received: 05/15/2						_			5
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	^+	5.0	0.50	ug/L		05/18/23 14:27	05/22/23 19:36	1
Cadmium	ND		1.0	0.19	ug/L		05/18/23 14:27	05/22/23 19:36	1
Chromium	ND		3.0	0.50	ug/L		05/18/23 14:27	05/22/23 19:36	1
Copper	3.2		2.0	0.71	ug/L		05/18/23 14:27	05/22/23 19:36	1
Lead	14		1.0	0.23	ug/L		05/18/23 14:27	05/22/23 19:36	1
Manganese	43		3.0	0.51	ug/L		05/18/23 14:27	05/22/23 19:36	1
Nickel	ND		3.0	0.83	ug/L		05/18/23 14:27	05/22/23 19:36	1
Selenium	ND		5.0	1.0	ug/L		05/18/23 14:27	05/22/23 19:36	1
Silver	ND		0.50	0.045	ug/L		05/18/23 14:27	05/22/23 19:36	1
Zinc	25		10	2.0	ug/L		05/18/23 14:27	05/22/23 19:36	1

Client Sample ID: 2022-02-03 Lab Sample ID: 280-176512-4 Date Collected: 05/15/23 10:00 **Matrix: Water** Date Received: 05/15/23 16:26

Result Q	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ND ^-	+	5.0	0.50	ug/L		05/18/23 14:27	05/22/23 19:49	1
ND		1.0	0.19	ug/L		05/18/23 14:27	05/22/23 19:49	1
ND		3.0	0.50	ug/L		05/18/23 14:27	05/22/23 19:49	1
ND		2.0	0.71	ug/L		05/18/23 14:27	05/22/23 19:49	1
ND		1.0	0.23	ug/L		05/18/23 14:27	05/22/23 19:49	1
ND		3.0	0.51	ug/L		05/18/23 14:27	05/22/23 19:49	1
ND		3.0	0.83	ug/L		05/18/23 14:27	05/22/23 19:49	1
ND		5.0	1.0	ug/L		05/18/23 14:27	05/22/23 19:49	1
ND		0.50	0.045	ug/L		05/18/23 14:27	05/22/23 19:49	1
6.0 J		10	2.0	ug/L		05/18/23 14:27	05/22/23 19:49	1
	ND ^ ND ND ND ND ND ND ND	ND ND ND ND ND ND ND	ND ^+ 5.0 ND 1.0 ND 3.0 ND 2.0 ND 1.0 ND 3.0 ND 3.0 ND 3.0 ND 3.0 ND 5.0 ND 0.50	ND ^+ 5.0 0.50 ND 1.0 0.19 ND 3.0 0.50 ND 2.0 0.71 ND 1.0 0.23 ND 3.0 0.51 ND 3.0 0.83 ND 5.0 1.0 ND 0.50 0.045	ND ^++ 5.0 0.50 ug/L ND 1.0 0.19 ug/L ND 3.0 0.50 ug/L ND 2.0 0.71 ug/L ND 1.0 0.23 ug/L ND 3.0 0.51 ug/L ND 3.0 0.83 ug/L ND 5.0 1.0 ug/L ND 0.50 0.045 ug/L	ND ^++ 5.0 0.50 ug/L ND 1.0 0.19 ug/L ND 3.0 0.50 ug/L ND 2.0 0.71 ug/L ND 1.0 0.23 ug/L ND 3.0 0.51 ug/L ND 3.0 0.83 ug/L ND 5.0 1.0 ug/L ND 0.50 0.045 ug/L	ND ^++ 5.0 0.50 ug/L 05/18/23 14:27 ND 1.0 0.19 ug/L 05/18/23 14:27 ND 3.0 0.50 ug/L 05/18/23 14:27 ND 2.0 0.71 ug/L 05/18/23 14:27 ND 1.0 0.23 ug/L 05/18/23 14:27 ND 3.0 0.51 ug/L 05/18/23 14:27 ND 3.0 0.83 ug/L 05/18/23 14:27 ND 5.0 1.0 ug/L 05/18/23 14:27 ND 0.50 0.045 ug/L 05/18/23 14:27	ND ^++ 5.0 0.50 ug/L 05/18/23 14:27 05/22/23 19:49 ND 1.0 0.19 ug/L 05/18/23 14:27 05/22/23 19:49 ND 3.0 0.50 ug/L 05/18/23 14:27 05/22/23 19:49 ND 2.0 0.71 ug/L 05/18/23 14:27 05/22/23 19:49 ND 1.0 0.23 ug/L 05/18/23 14:27 05/22/23 19:49 ND 3.0 0.51 ug/L 05/18/23 14:27 05/22/23 19:49 ND 3.0 0.83 ug/L 05/18/23 14:27 05/22/23 19:49 ND 5.0 1.0 ug/L 05/18/23 14:27 05/22/23 19:49 ND 5.0 1.0 ug/L 05/18/23 14:27 05/22/23 19:49 ND 0.50 0.045 ug/L 05/18/23 14:27 05/22/23 19:49

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05/18/23 14:27 05/22/23 19:32

Client: Grand Island Resources Job ID: 280-176512-1 Project/Site: Nederland, CO

Method: EPA 245.1 - Mercury (CVAA)

Client Sample ID: 2022-01	Lab Sample ID: 280-176512-1
Date Collected: 05/15/23 09:00	Matrix: Water

Date Collected: 05/15/23 09:00 Date Received: 05/15/23 16:26

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.061	ug/L		05/23/23 17:26	05/24/23 01:09	1

Client Sample ID: 2022-02 Lab Sample ID: 280-176512-2

Date Collected: 05/15/23 10:00 Date Received: 05/15/23 16:26

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	0.20	0.061 ug/L		05/23/23 17:26	05/24/23 01:12	

Client Sample ID: 2022-02-02 Lab Sample ID: 280-176512-3 Date Collected: 05/15/23 10:00 **Matrix: Water**

Date Received: 05/15/23 16:26

Date Neceived, 03/13/23 10.20						
Analyte	Result Qualifier	RL	MDL Unit	D Prepared	Analyzed	Dil Fac
Mercury	ND	0.20	0.061 ug/L	05/23/23 17:26	05/24/23 01:14	1

Client Sample ID: 2022-02-03 Lab Sample ID: 280-176512-4 **Matrix: Water**

Date Collected: 05/15/23 10:00 Date Received: 05/15/23 16:26

Analyte Result Qualifier **MDL** Unit Dil Fac RL Prepared Analyzed Mercury ND 0.20 0.061 ug/L 05/23/23 17:26 05/24/23 01:22

General Chemistry

Lab Sample ID: 280-176512-1 Client Sample ID: 2022-01 Date Collected: 05/15/23 09:00 **Matrix: Water**

Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
54		2.0	2.0	umhos/cm			05/23/23 10:58	1
5.2		4.0	1.1	mg/L			05/22/23 14:10	1
ND	Н	0.020	0.0040	mg/L			05/16/23 09:13	1
7.9	HF	0.1	0.1	SU			05/23/23 14:31	1
20.3	HF	1.0	1.0	Degrees C			05/23/23 14:31	1
0.17	В	0.050	0.022	mg/L			05/18/23 18:54	1
ND		1.0	1.0	mg/L			05/26/23 13:33	1
7.9		1.0	1.0	SU			05/26/23 13:33	1
20		1.0	1.0	Celsius			05/26/23 13:33	1
54		2.0	2.0	umhos/cm			05/26/23 13:33	1
ND		1.0	1.0	mg/L			05/26/23 13:33	1
	54 5.2 ND 7.9 20.3 0.17 ND 7.9 20 54	5.2 ND H 7.9 HF 20.3 HF 0.17 B ND 7.9 20 54	54 2.0 5.2 4.0 ND H 0.020 7.9 HF 0.1 20.3 HF 1.0 0.17 B 0.050 ND 1.0 7.9 1.0 20 1.0 54 2.0	54 2.0 2.0 5.2 4.0 1.1 ND H 0.020 0.0040 7.9 HF 0.1 0.1 20.3 HF 1.0 1.0 0.17 B 0.050 0.022 ND 1.0 1.0 7.9 1.0 1.0 20 1.0 1.0 54 2.0 2.0	54 2.0 2.0 umhos/cm 5.2 4.0 1.1 mg/L ND H 0.020 0.0040 mg/L 7.9 HF 0.1 0.1 SU 20.3 HF 1.0 1.0 Degrees C 0.17 B 0.050 0.022 mg/L ND 1.0 1.0 mg/L 7.9 1.0 1.0 SU 20 1.0 1.0 Celsius 54 2.0 2.0 umhos/cm	54 2.0 2.0 umhos/cm 5.2 4.0 1.1 mg/L ND H 0.020 0.0040 mg/L 7.9 HF 0.1 0.1 SU 20.3 HF 1.0 1.0 Degrees C 0.17 B 0.050 0.022 mg/L ND 1.0 1.0 mg/L 7.9 1.0 1.0 SU 20 1.0 1.0 Celsius 54 2.0 2.0 umhos/cm	54 2.0 2.0 umhos/cm 5.2 4.0 1.1 mg/L ND H 0.020 0.0040 mg/L 7.9 HF 0.1 0.1 SU 20.3 HF 1.0 1.0 Degrees C 0.17 B 0.050 0.022 mg/L ND 1.0 1.0 mg/L 7.9 1.0 1.0 SU 20 1.0 1.0 Celsius 54 2.0 2.0 umhos/cm	54 2.0 2.0 umhos/cm 05/23/23 10:58 5.2 4.0 1.1 mg/L 05/22/23 14:10 ND H 0.020 0.0040 mg/L 05/16/23 09:13 7.9 HF 0.1 0.1 SU 05/23/23 14:31 20.3 HF 1.0 1.0 Degrees C 05/23/23 14:31 0.17 B 0.050 0.022 mg/L 05/18/23 18:54 ND 1.0 1.0 mg/L 05/26/23 13:33 7.9 1.0 1.0 SU 05/26/23 13:33 7.9 1.0 1.0 SU 05/26/23 13:33 20 1.0 1.0 Celsius 05/26/23 13:33 54 2.0 2.0 umhos/cm 05/26/23 13:33

Client Sample ID: 2022-02 Lab Sample ID: 280-176512-2 Date Collected: 05/15/23 10:00 **Matrix: Water**

ı	Date Received: 05/15/23 16:26										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
	Specific Conductance (SM 2510B)	68		2.0	2.0	umhos/cm			05/23/23 10:58	1	
	Total Suspended Solids (SM 2540D)	39		4.0	1.1	mg/L			05/22/23 14:10	1	
	Chromium, hexavalent (SM 3500 CR B)	ND		0.020	0.0040	mg/L			05/16/23 09:14	1	
	pH adj. to 25 deg C (SM 4500 H+ B	7.5	HF	0.1	0.1	SU			05/23/23 14:35	1	

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5/31/2023

Matrix: Water

Client: Grand Island Resources Job ID: 280-176512-1

Project/Site: Nederland, CO

Client Sample ID: 2022-02

General Chemistry (Continued)

Date Collected: 05/15/23 10:00								Matrix	: Water
Date Received: 05/15/23 16:26 Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Temperature (SM 4500 H+ B)	20.2	HF	1.0	1.0	Degrees C			05/23/23 14:35	1
Sulfide (SM 4500 S2 D)	0.13	В	0.050	0.022	mg/L			05/18/23 18:55	1
Un-ionized Hydrogen Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			05/26/23 13:33	1
Field pH (SM4500 S2 H)	7.5		1.0	1.0	SU			05/26/23 13:33	1
Field Temperature (SM4500 S2 H)	20		1.0	1.0	Celsius			05/26/23 13:33	1
Specific Conductance (SM4500 S2 H)	68		2.0	2.0	umhos/cm			05/26/23 13:33	1
Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			05/26/23 13:33	1

Client Sample ID: 2022-02-02 Date Collected: 05/15/23 10:00							Lab Sam	nple ID: 280-17 Matrix	
Date Received: 05/15/23 16:26								Wattix	vvater
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (SM 2510B)	67		2.0	2.0	umhos/cm			05/23/23 10:58	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (SM 2510B)	67		2.0	2.0	umhos/cm			05/23/23 10:58	1
Total Suspended Solids (SM 2540D)	51		4.0	1.1	mg/L			05/22/23 14:10	1
Chromium, hexavalent (SM 3500 CR B)	ND		0.020	0.0040	mg/L			05/16/23 09:09	1
pH adj. to 25 deg C (SM 4500 H+ B	7.4	HF	0.1	0.1	SU			05/19/23 15:58	1
Temperature (SM 4500 H+ B)	19.5	HF	1.0	1.0	Degrees C			05/19/23 15:58	1
Sulfide (SM 4500 S2 D)	ND		0.050	0.022	mg/L			05/18/23 18:53	1
Un-ionized Hydrogen Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			05/26/23 13:33	1
Field pH (SM4500 S2 H)	7.4		1.0	1.0	SU			05/26/23 13:33	1
Field Temperature (SM4500 S2 H)	20		1.0	1.0	Celsius			05/26/23 13:33	1
Specific Conductance (SM4500 S2 H)	67		2.0	2.0	umhos/cm			05/26/23 13:33	1
Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			05/26/23 13:33	1

Client Sample ID: 2022-02-03	Lab Sample ID: 280-176512-4
Date Collected: 05/15/23 10:00	Matrix: Water
Date Received: 05/15/23 16:26	

Date Neceived, 03/13/23 10.20									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (SM 2510B)	ND	·	2.0	2.0	umhos/cm			05/23/23 10:58	1
Total Suspended Solids (SM 2540D)	ND		4.0	1.1	mg/L			05/22/23 14:10	1
Chromium, hexavalent (SM 3500 CR B)	0.011	J	0.020	0.0040	mg/L			05/16/23 09:12	1
pH adj. to 25 deg C (SM 4500 H+ B	7.7	HF	0.1	0.1	SU			05/23/23 14:41	1
Temperature (SM 4500 H+ B)	20.7	HF	1.0	1.0	Degrees C			05/23/23 14:41	1
Sulfide (SM 4500 S2 D)	ND	*1	0.050	0.022	mg/L			05/18/23 19:08	1
Un-ionized Hydrogen Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			05/26/23 13:33	1
Field pH (SM4500 S2 H)	7.7		1.0	1.0	SU			05/26/23 13:33	1
Field Temperature (SM4500 S2 H)	21		1.0	1.0	Celsius			05/26/23 13:33	1
Specific Conductance (SM4500 S2 H)	ND		2.0	2.0	umhos/cm			05/26/23 13:33	1
Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			05/26/23 13:33	1

Lab Sample ID: 280-176512-2

Client: Grand Island Resources Job ID: 280-176512-1

Project/Site: Nederland, CO

General Chemistry - To	otal Recoverable
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Client Sample ID: 2022-01 Date Collected: 05/15/23 09:00							Lab Sam	ple ID: 280-17	76512-1 : Water
Date Received: 05/15/23 16:26								Matrix	. Water
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, trivalent (SM3500 CR B)	ND		0.020	0.020	mg/L		-	05/30/23 08:39	1
Client Sample ID: 2022-02							Lab Sam	ple ID: 280-17	76512-2
Date Collected: 05/15/23 10:00								Matrix	: Water
Date Received: 05/15/23 16:26									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, trivalent (SM3500 CR B)	ND		0.020	0.020	mg/L			05/30/23 08:39	1
Client Sample ID: 2022-02-02							Lab Sam	ple ID: 280-17	76512-3
Date Collected: 05/15/23 10:00								Matrix	: Water
Date Received: 05/15/23 16:26									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, trivalent (SM3500 CR B)	ND		0.020	0.020	mg/L			05/30/23 08:39	1
Client Sample ID: 2022-02-03							Lab Sam	ple ID: 280-17	76512-4
Date Collected: 05/15/23 10:00								•	: Water
Date Received: 05/15/23 16:26									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, trivalent (SM3500 CR B)	ND		0.020	0.020	ma/l			05/30/23 08:39	

Client Sample ID: 2022-01

Date Collected: 05/15/23 10:00

Date Received: 05/15/23 16:26

Chromium, hexavalent (SM 3500 CR

B)

Date Collected: 05/15/23 09:00								Matrix	: Water
Date Received: 05/15/23 16:26									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent (SM 3500 CR B)	ND	Н	0.020	0.0040	mg/L			05/16/23 09:05	1
Client Sample ID: 2022-02							Lab San	nple ID: 280-17	76512-2
Date Collected: 05/15/23 10:00								Matrix	: Water
Date Received: 05/15/23 16:26									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent (SM 3500 CR B)	ND		0.020	0.0040	mg/L			05/16/23 09:05	1
Client Sample ID: 2022-02-02							Lab San	nple ID: 280-17	76512-3
Date Collected: 05/15/23 10:00								Matrix	: Water
Date Received: 05/15/23 16:26									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent (SM 3500 CR B)	ND		0.020	0.0040	mg/L			05/16/23 09:01	1
Client Sample ID: 2022-02-03							Lab San	nple ID: 280-17	76512-4

RL

0.020

MDL Unit

0.0040 mg/L

Result Qualifier

ND

Lab Sample ID: 280-176512-1

Eurofins Denver

Matrix: Water

Analyzed

05/16/23 09:12

Prepared

Client: Grand Island Resources

Job ID: 280-176512-1

Project/Site: Nederland, CO

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Client Sample ID: 2022-02-03

(SM3500 CR B)

Client Sample ID: 2022-01 Date Collected: 05/15/23 09:00 Date Received: 05/15/23 16:26							Lab Sam	ple ID: 280-17 Matrix	'6512-1 : Water
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, trivalent (dissolved) (SM3500 CR B)	ND		0.020	0.020	mg/L			05/30/23 08:39	1
Client Sample ID: 2022-02 Date Collected: 05/15/23 10:00 Date Received: 05/15/23 16:26							Lab Sam	ple ID: 280-17 Matrix	76512-2 : Water
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, trivalent (dissolved) (SM3500 CR B)	ND		0.020	0.020	mg/L			05/30/23 08:39	1
Client Sample ID: 2022-02-02 Date Collected: 05/15/23 10:00 Date Received: 05/15/23 16:26							Lab Sam	ple ID: 280-17 Matrix	'6512-3 : Water
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, trivalent (dissolved) (SM3500 CR B)	ND		0.020	0.020	mg/L		-	05/30/23 08:39	1

Date Collected: 05/15/23 10:00								Matrix	: Water
Date Received: 05/15/23 16:26									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, trivalent (dissolved)	ND		0.020	0.020	mg/L			05/30/23 08:39	1

Lab Sample ID: 280-176512-4

Client: Grand Island Resources Job ID: 280-176512-1

RL

0.50

Spike

Added

5.00

Spike

Added

5.00

Spike

Added

5.00

Spike

Added

5.00

Sample Sample

Sample Sample

Result Qualifier

MR MR Result Qualifier

22 1 .I

20

Result Qualifier

MDL Unit

0.20 ng/L

LCS LCS

LCSD LCSD

MS MS

MSD MSD

25.1 4

Result Qualifier

24.1 4

Result Qualifier

4.57

Result Qualifier

4.55

Result Qualifier

Unit

ng/L

Unit

ng/L

Unit

ng/L

Unit

ng/L

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 400-625891/3-A

Matrix: Water

Analysis Batch: 625988

Project/Site: Nederland, CO

MB MB

Result Qualifier Analyte Mercury ND

Lab Sample ID: LCS 400-625891/4-A

Matrix: Water Analysis Batch: 625988

Analyte

Mercury

Lab Sample ID: LCSD 400-625891/5-A **Matrix: Water**

Analysis Batch: 625988

Analyte

Lab Sample ID: 280-176512-3 MS

Matrix: Water

Mercury

Mercury

Analysis Batch: 625988

Analyte

Lab Sample ID: 280-176512-3 MSD

Matrix: Water

Analysis Batch: 625988

Analyte

20 Mercury Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 280-612618/1-A

Matrix: Water

Analyte

Analysis Batch: 613763

Iron

Lab Sample ID: LCS 280-612618/2-A **Matrix: Water**

Analysis Batch: 613763

Analyte

Iron

Added 10000

Spike

10100

RL

100

LCS LCS

MDL Unit

9.1 ug/L

Result Qualifier Unit ug/L

%Rec 101

Limits 85 - 115

05/18/23 07:45 05/24/23 22:42

Prep Type: Total/NA **Prep Batch: 625891**

Analyzed Dil Fac 05/19/23 16:00 05/22/23 09:59

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep Batch: 625891 %Rec

D %Rec Limits 79 - 121

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample Dup

91

%Rec

%Rec

Prepared

93

Prepared

Prep Type: Total/NA **Prep Batch: 625891**

%Rec **RPD** RPD Limits Limit

91 79 - 121

Client Sample ID: 2022-02-02

Prep Type: Total/NA

Prep Batch: 625891 %Rec

%Rec Limits 71 - 125

Client Sample ID: 2022-02-02 Prep Type: Total/NA

Prep Batch: 625891

%Rec **RPD**

Limits Limit 71 - 125 24

Client Sample ID: Method Blank

Prep Type: Total Recoverable Prep Batch: 612618

Analyzed Dil Fac

Client Sample ID: Lab Control Sample **Prep Type: Total Recoverable**

Prep Batch: 612618

%Rec

QC Sample Results

Client: Grand Island Resources Project/Site: Nederland, CO

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: 280-176512-3 MS

Matrix: Water

Analysis Batch: 613902

Client Sample ID: 2022-02-02 Prep Type: Total Recoverable

Prep Batch: 612618 %Rec

Job ID: 280-176512-1

Sample Sample Spike MS MS Result Qualifier Added Result Qualifier Unit Limits Analyte %Rec 10000 Iron 970 B 11500 ug/L 105 70 - 130

Spike

Added

10000

Result Qualifier

970 B

MSD MSD

11400

Result Qualifier

Unit

ug/L

Lab Sample ID: 280-176512-3 MSD

Matrix: Water

Analyte

Iron

Analysis Batch: 613902

Sample Sample

Client Sample ID: 2022-02-02 Prep Type: Total Recoverable

Prep Batch: 612618 %Rec **RPD** D %Rec Limits RPD Limit 105 70 - 130 0 20

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 280-612618/1-A

Matrix: Water

Analysis Batch: 613118

Client Sample ID: Method Blank **Prep Type: Total Recoverable**

Prep Batch: 612618

MB MB Analyte Result Qualifier RL **MDL** Unit D Prepared Analyzed Dil Fac Arsenic ND 5.0 0.50 ug/L 05/18/23 07:45 05/19/23 01:05 Cadmium ND 1.0 0.19 ug/L 05/18/23 07:45 05/19/23 01:05 ND 0.50 ug/L Chromium 3.0 05/18/23 07:45 05/19/23 01:05 Copper ND 2.0 0.71 ug/L 05/18/23 07:45 05/19/23 01:05 ND 1.0 0.23 ug/L 05/18/23 07:45 05/19/23 01:05 Lead Zinc ND 05/18/23 07:45 05/19/23 01:05 10 2.0 ug/L

Lab Sample ID: LCS 280-612618/20-A

Matrix: Water

Analysis Batch: 613118

Client Sample ID: Lab Control Sample Prep Type: Total Recoverable

Prep Batch: 612618

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Arsenic	40.0	40.4		ug/L		101	89 - 111	
Cadmium	40.0	43.1		ug/L		108	89 - 111	
Chromium	40.0	41.9		ug/L		105	86 - 115	
Copper	40.0	40.3		ug/L		101	90 - 115	
Lead	40.0	40.4		ug/L		101	88 - 115	
Zinc	40.0	41.5		ug/L		104	88 - 115	

Lab Sample ID: 280-176512-3 MS

Matrix: Water

Analysis Batch: 613118

Client Sample ID: 2022-02-02 **Prep Type: Total Recoverable**

Prep Batch: 612618

	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Arsenic	ND		40.0	40.2		ug/L		100	79 - 120
Cadmium	ND		40.0	41.1		ug/L		103	89 - 111
Chromium	2.4	J	40.0	42.6		ug/L		101	86 - 115
Copper	6.1		40.0	45.7		ug/L		99	90 - 115
Lead	18		40.0	61.8		ug/L		109	88 - 115
Zinc	32		40.0	70.5		ug/L		95	88 - 115

Client: Grand Island Resources Project/Site: Nederland, CO

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: 280-176512-3 MSD

Matrix: Water

Analysis Batch: 613118

Client Sample ID: 2022-02-02 **Prep Type: Total Recoverable**

Prep Batch: 612618

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Arsenic	ND		40.0	42.4		ug/L		106	79 - 120	5	20	
Cadmium	ND		40.0	42.2		ug/L		106	89 - 111	3	20	
Chromium	2.4	J	40.0	45.1		ug/L		107	86 - 115	6	20	
Copper	6.1		40.0	47.3		ug/L		103	90 - 115	3	20	
Lead	18		40.0	60.9		ug/L		106	88 - 115	1	20	
Zinc	32		40.0	73.6		ug/L		103	88 - 115	4	20	

Lab Sample ID: MB 280-612874/1-B

Matrix: Water

Analysis Batch: 613485

Client Sample ID: Method Blank Prep Type: Potentially Dissolved

Prep Batch: 612883

MB MB MDL Unit Analyte Result Qualifier RL Prepared Analyzed Dil Fac Arsenic ND ^+ 5.0 05/18/23 14:27 05/22/23 19:27 0.50 ug/L Cadmium ND 05/18/23 14:27 05/22/23 19:27 1.0 0.19 ug/L Chromium 0.50 ug/L 05/18/23 14:27 05/22/23 19:27 ND 3.0 ND 05/18/23 14:27 05/22/23 19:27 Copper 2.0 0.71 ug/L Lead ND 1.0 0.23 ug/L 05/18/23 14:27 05/22/23 19:27 ND 3.0 05/18/23 14:27 05/22/23 19:27 Manganese 0.51 ug/L Nickel ND 3.0 0.83 ug/L 05/18/23 14:27 05/22/23 19:27 Selenium ND 05/18/23 14:27 05/22/23 19:27 5.0 1.0 ug/L Silver ND 0.50 0.045 ug/L 05/18/23 14:27 05/22/23 19:27 Zinc ND 10 2.0 ug/L 05/18/23 14:27 05/22/23 19:27

Lab Sample ID: LCS 280-612874/2-B

Matrix: Water

Analysis Batch: 613485

Client Sample ID: Lab Control Sample Prep Type: Potentially Dissolved Prep Batch: 612883

7 maryono zatom o ro roc	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Arsenic	40.0	39.2	^+	ug/L		98	89 - 111
Cadmium	40.0	40.2		ug/L		101	89 - 111
Chromium	40.0	38.4		ug/L		96	86 - 115
Copper	40.0	38.5		ug/L		96	90 - 115
Lead	40.0	39.7		ug/L		99	88 - 115
Manganese	40.0	39.2		ug/L		98	87 - 115
Nickel	40.0	37.8		ug/L		94	86 - 115
Selenium	40.0	40.8		ug/L		102	85 - 114
Silver	40.0	38.0		ug/L		95	90 - 114
Zinc	40.0	37.8		ua/L		95	88 - 115

Lab Sample ID: 280-176512-3 MS

Matrix: Water

Client Sample ID: 2022-02-02 **Prep Type: Potentially Dissolved**

Analysis Batch: 613485 Sample Sample Spike MS MS							Prep Batch: 612883		
	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Arsenic	ND	^+	40.0	38.3	^+	ug/L		96	79 - 120
Cadmium	ND		40.0	39.5		ug/L		99	89 - 111
Chromium	ND		40.0	38.3		ug/L		96	86 - 115
Copper	3.2		40.0	41.1		ug/L		95	90 - 115
Lead	14		40.0	52.7		ug/L		97	88 - 115

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Client: Grand Island Resources Project/Site: Nederland, CO

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: 280-176512-3 MS **Client Sample ID: 2022-02-02 Matrix: Water Prep Type: Potentially Dissolved Analysis Batch: 613485 Prep Batch: 612883**

MS MS %Rec Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Manganese 43 40.0 83.1 ug/L 99 87 - 115 Nickel ND 40.0 38.1 ug/L 95 86 - 115 ND 40.0 38.7 ug/L 97 85 - 114 Selenium Silver ND 40.0 38.2 ug/L 95 70 - 130 Zinc 25 40.0 63.4 ug/L 96 88 - 115

Lab Sample ID: 280-176512-3 MSD **Client Sample ID: 2022-02-02 Prep Type: Potentially Dissolved**

Matrix: Water

Prep Batch: 612883 Analysis Batch: 613485

MSD MSD %Rec **RPD** Sample Sample Spike RPD Limit Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits 40.3 ND 40.0 20 Arsenic ug/L 101 79 - 120 5 Cadmium ND 40.0 40.6 ug/L 101 89 - 111 3 20 Chromium ND 40.0 38.9 ug/L 97 86 - 115 2 20 Copper 3.2 40.0 42.0 ug/L 97 90 - 115 20 40.0 55.2 88 - 115 20 Lead 14 ug/L 104 5 Manganese 43 40.0 85.1 ug/L 104 87 - 115 20 Nickel ND 40.0 38.0 95 86 - 115 0 20 ug/L Selenium ND 40.0 38.7 ug/L 97 85 - 114 0 20 Silver ND 40.0 38.8 ug/L 97 70 - 130 2 20

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 280-613507/1-A Client Sample ID: Method Blank

63.7

ug/L

97

88 - 115

Prep Type: Total/NA

Prep Batch: 613507

20

40.0

Matrix: Water

Mercury

Zinc

Analysis Batch: 613659

MB MB Result Qualifier RL **MDL** Unit Analyte Prepared Analyzed Dil Fac 0.20 05/23/23 17:26 05/24/23 00:49 $\overline{\mathsf{ND}}$ 0.061 ug/L Mercury

Lab Sample ID: LCS 280-613507/2-A **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 613659 Prep Batch: 613507 Spike LCS LCS %Rec

Analyte Added Result Qualifier Unit %Rec Limits Mercury 5.00 4.74 ug/L 95 90 - 110

Lab Sample ID: 280-176512-3 MS Client Sample ID: 2022-02-02

Matrix: Water

25

Prep Type: Total/NA Analysis Batch: 613659 Prep Batch: 613507 Sample Sample Spike MS MS %Rec Result Qualifier Added Limits Analyte Result Qualifier Unit %Rec ND 5.00 4.84 ug/L 97 80 - 120

Eurofins Denver

Client: Grand Island Resources Job ID: 280-176512-1 Project/Site: Nederland, CO

Method: 245.1 - Mercury (CVAA) (Continued)

Lab Sample ID: 280-176512-3 MSD **Client Sample ID: 2022-02-02**

Matrix: Water

Prep Type: Total/NA **Analysis Batch: 613659**

Prep Batch: 613507

Sample Sample Spike MSD MSD %Rec **RPD** Result Qualifier Added Result Qualifier Limits RPD Limit Analyte Unit %Rec Mercury ND 5.00 4.99 ug/L 100 80 - 120 3 10

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: MB 280-613464/31 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 613464

MB MB

Result Qualifier RL **MDL** Unit Analyzed Dil Fac Prepared 20 $\overline{\mathsf{ND}}$ 05/23/23 10:58 Specific Conductance 2.0 umhos/cm

Lab Sample ID: MB 280-613464/5 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 613464

MB MB Result Qualifier RL **MDL** Unit Analyte Prepared Analyzed Specific Conductance ND 2.0 2.0 umhos/cm 05/23/23 10:58

Lab Sample ID: LCS 280-613464/30 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 613464

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Specific Conductance 1410 1470 umhos/cm 104 90 - 110

Lab Sample ID: LCS 280-613464/4

Matrix: Water

Analysis Batch: 613464

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Specific Conductance <u>1410</u> 1490 umhos/cm 106 90 - 110

Lab Sample ID: 280-176512-3 DU Client Sample ID: 2022-02-02 Prep Type: Total/NA

Matrix: Water

Analysis Batch: 613464

DU DU RPD Sample Sample Result Qualifier RPD Analyte Result Qualifier Unit D Limit Specific Conductance 67 66.8 umhos/cm

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 280-613357/3 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 613357

MB MB Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac ND 4 0 05/22/23 14:10 Total Suspended Solids 1.1 mg/L

Eurofins Denver

Dil Fac

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Client: Grand Island Resources Project/Site: Nederland, CO

Prep Type: Total/NA

Method: SM 2540D - Solids, Total Suspended (TSS) (Continued)

Lab Sample ID: LCS 280-613357/1 **Client Sample ID: Lab Control Sample**

Matrix: Water

Analysis Batch: 613357

Spike LCS LCS %Rec Result Qualifier Added %Rec Limits Analyte Unit D 79 - 114 **Total Suspended Solids** 502 428 mg/L 85

Lab Sample ID: LCSD 280-613357/2 Client Sample ID: Lab Control Sample Dup **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 613357

Spike LCSD LCSD %Rec **RPD** Added Result Qualifier Unit D %Rec Limits RPD Limit Analyte 502 **Total Suspended Solids** 412 mg/L 82 79 - 114 4 20

Method: SM 3500 CR B - Chromium, Hexavalent

Lab Sample ID: MB 280-612610/14 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 612610

MB MB Result Qualifier RL **MDL** Unit Dil Fac Analyte Prepared Analyzed 0.020 05/16/23 09:00 Chromium, hexavalent ND 0.0040 mg/L

Lab Sample ID: LCS 280-612610/11 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 612610

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Chromium, hexavalent 0.100 0.104 104 91 - 112 mg/L

Lab Sample ID: 280-176512-3 MS Client Sample ID: 2022-02-02 **Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 612610

MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chromium, hexavalent ND 0.100 0.0937 mg/L 91 - 112

Lab Sample ID: 280-176512-3 MSD Client Sample ID: 2022-02-02

Matrix: Water

Analysis Batch: 612610

Spike RPD MSD MSD %Rec Sample Sample Result Qualifier Added RPD Limit Analyte Result Qualifier Unit %Rec Limits Chromium, hexavalent ND 0.100 0.0959 96 91 - 112 mg/L

Lab Sample ID: 280-176512-3 DU Client Sample ID: 2022-02-02 Prep Type: Total/NA

Matrix: Water

Analysis Batch: 612610

DU DU **RPD** Sample Sample Result Qualifier Result Qualifier Unit D **RPD** Limit Chromium, hexavalent ND ND mg/L NC 20

Eurofins Denver

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Dissolved

Client: Grand Island Resources

Project/Site: Nederland, CO

Method: SM 3500 CR B - Chromium, Hexavalent (Continued)

Lab Sample ID: 280-176512-3 DU Client Sample ID: 2022-02-02

Matrix: Water

Analysis Batch: 612610

DU DU RPD Sample Sample Result Qualifier Result Qualifier Unit D RPD Limit Analyte Chromium, hexavalent ND ND mg/L NC

Lab Sample ID: MB 280-612599/3-A Client Sample ID: Method Blank **Prep Type: Dissolved**

Matrix: Water

Analysis Batch: 612610

MB MB

MDL Unit Result Qualifier RL D Prepared Analyzed Dil Fac 0.020 0.0040 mg/L 05/16/23 09:01 Chromium, hexavalent ND

Lab Sample ID: LCS 280-612599/1-A **Client Sample ID: Lab Control Sample Matrix: Water Prep Type: Dissolved**

Analysis Batch: 612610

Spike LCS LCS %Rec Added Result Qualifier Limits Analyte Unit %Rec Chromium, hexavalent 0.100 0.103 91 - 112 mg/L

Lab Sample ID: LCSD 280-612599/2-A Client Sample ID: Lab Control Sample Dup **Prep Type: Dissolved**

Matrix: Water

Analysis Batch: 612610

Spike LCSD LCSD %Rec **RPD** Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit 0.100 0.104 91 - 112 Chromium, hexavalent mg/L 104

Lab Sample ID: 280-176512-3 MS **Client Sample ID: 2022-02-02**

Matrix: Water

Analysis Batch: 612610

MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added Limits Result Qualifier Unit %Rec Chromium, hexavalent ND 0.100 0.0962 96 91 - 112 mg/L

Lab Sample ID: 280-176512-3 MSD **Client Sample ID: 2022-02-02 Prep Type: Dissolved**

Matrix: Water

Analysis Batch: 612610

Sample Sample Spike MSD MSD %Rec **RPD** Result Qualifier Added Limits **RPD** Limit Analyte Result Qualifier Unit D %Rec 0.100 Chromium, hexavalent ND 0.0981 mg/L 98 91 - 112

Lab Sample ID: 280-176512-3 DU Client Sample ID: 2022-02-02 **Prep Type: Dissolved**

Matrix: Water

Analysis Batch: 612610

Sample Sample DU DU **RPD** Result Qualifier Result Qualifier RPD Limit D Unit ND ND NC Chromium, hexavalent mg/L 20 Chromium, hexavalent ND ND mg/L NC 20

Prep Type: Total/NA

Client: Grand Island Resources

Project/Site: Nederland, CO

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 280-613264/5 Client Sample ID: Lab Control Sample

Matrix: Water

Analysis Batch: 613264

Spike LCS LCS %Rec Added Result Qualifier Limits Analyte Unit D %Rec SU pH adj. to 25 deg C 7.00 7.1 101 99 - 101

Lab Sample ID: LCS 280-613583/5 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 613583

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits 7.00 SU pH adj. to 25 deg C 7.1 101 99 - 101

Method: SM 4500 S2 D - Sulfide, Total

Lab Sample ID: MB 280-613317/39 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 613317

MB MB Result Qualifier RL **MDL** Unit Dil Fac **Analyte** Prepared Analyzed 0.050 Sulfide 0.0464 J 0.022 mg/L 05/18/23 18:52

Lab Sample ID: MB 280-613317/9 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 613317

MB MB

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Sulfide 0.0332 J 0.050 0.022 mg/L 05/18/23 19:07

Lab Sample ID: LCS 280-613317/11 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 613317

LCS LCS %Rec Spike Analyte Added Result Qualifier Unit Limits Sulfide 0.501 0.493 mg/L 81 - 122

Lab Sample ID: LCS 280-613317/41 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 613317

LCS LCS Spike %Rec Added Result Qualifier Analyte Unit %Rec Limits 0.501 Sulfide 0.513 102 81 - 122 mg/L

Client Sample ID: Lab Control Sample Dup Lab Sample ID: LCSD 280-613317/10 Prep Type: Total/NA

Matrix: Water

Analysis Batch: 613317

LCSD LCSD **RPD** Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Sulfide 0.501 0.433 *1 mg/L 86 81 - 122 13

QC Sample Results

Client: Grand Island Resources Job ID: 280-176512-1

Project/Site: Nederland, CO

Sulfide

6

Method: SM 4500 S2 D - Sulfide, Total (Continued)

Lab Sample ID: LCSD 280-613317/40	Client Sample ID: Lab Control Sample Dup
Matrix: Water	Prep Type: Total/NA
Analysis Batch: 613317	

Spike LCSD LCSD %Rec **RPD** Analyte Added Result Qualifier Unit %Rec Limits RPD Limit 0.501 Sulfide 0.547 109 81 - 122

Lab Sample ID: 280-176512-3 MS **Client Sample ID: 2022-02-02**

Matrix: Water Prep Type: Total/NA Analysis Batch: 613317

0.490

0.502

mg/L

mg/L

mg/L

98

100

81 - 122

81 - 122

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits Sulfide ND 0.501

Lab Sample ID: 280-176512-3 MSD **Client Sample ID: 2022-02-02**

Matrix: Water Prep Type: Total/NA Analysis Batch: 613317

Sample Sample Spike MSD MSD %Rec RPD Result Qualifier Added Result Qualifier Limits RPD **Analyte** Unit %Rec Limit Sulfide ND 0.501 0.515 103 81 - 122 mg/L

Lab Sample ID: 280-176512-4 MS **Client Sample ID: 2022-02-03**

Matrix: Water Prep Type: Total/NA Analysis Batch: 613317

Spike MS MS %Rec Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits

0.501

ND *1

Lab Sample ID: 280-176512-4 MSD **Client Sample ID: 2022-02-03**

Matrix: Water Prep Type: Total/NA **Analysis Batch: 613317**

MSD MSD RPD Sample Sample Spike %Rec

Analyte Result Qualifier Added Unit %Rec Limits Limit Result Qualifier ND *1 Sulfide 0.501 0.539 108 81 - 122 10 mg/L

QC Association Summary

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-176512-1

Metals

Prep Batch: 612618

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-176512-1	2022-01	Total Recoverable	Water	200.8	
280-176512-2	2022-02	Total Recoverable	Water	200.8	
280-176512-3	2022-02-02	Total Recoverable	Water	200.7	
280-176512-3	2022-02-02	Total Recoverable	Water	200.8	
280-176512-4	2022-02-03	Total Recoverable	Water	200.8	
MB 280-612618/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-612618/20-A	Lab Control Sample	Total Recoverable	Water	200.8	
LCS 280-612618/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
280-176512-3 MS	2022-02-02	Total Recoverable	Water	200.7	
280-176512-3 MS	2022-02-02	Total Recoverable	Water	200.8	
280-176512-3 MSD	2022-02-02	Total Recoverable	Water	200.7	
280-176512-3 MSD	2022-02-02	Total Recoverable	Water	200.8	

Filtration Batch: 612874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-176512-1	2022-01	Potentially Dissolved	Water	Poten_Diss_Met	
280-176512-2	2022-02	Potentially Dissolvec	Water	Poten_Diss_Met	
280-176512-3	2022-02-02	Potentially Dissolvec	Water	Poten_Diss_Met	
280-176512-4	2022-02-03	Potentially Dissolvec	Water	Poten_Diss_Met	
MB 280-612874/1-B	Method Blank	Potentially Dissolvec	Water	Poten_Diss_Met	
LCS 280-612874/2-B	Lab Control Sample	Potentially Dissolvec	Water	Poten_Diss_Met	
280-176512-3 MS	2022-02-02	Potentially Dissolvec	Water	Poten_Diss_Met	
280-176512-3 MSD	2022-02-02	Potentially Dissolvec	Water	Poten_Diss_Met	

Prep Batch: 612883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-176512-1	2022-01	Potentially Dissolved	Water	200.8	612874
280-176512-2	2022-02	Potentially Dissolvec	Water	200.8	612874
280-176512-3	2022-02-02	Potentially Dissolvec	Water	200.8	612874
280-176512-4	2022-02-03	Potentially Dissolvec	Water	200.8	612874
MB 280-612874/1-B	Method Blank	Potentially Dissolvec	Water	200.8	612874
LCS 280-612874/2-B	Lab Control Sample	Potentially Dissolvec	Water	200.8	612874
280-176512-3 MS	2022-02-02	Potentially Dissolvec	Water	200.8	612874
280-176512-3 MSD	2022-02-02	Potentially Dissolvec	Water	200.8	612874

Analysis Batch: 613118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-176512-1	2022-01	Total Recoverable	Water	200.8	612618
280-176512-2	2022-02	Total Recoverable	Water	200.8	612618
280-176512-3	2022-02-02	Total Recoverable	Water	200.8	612618
280-176512-4	2022-02-03	Total Recoverable	Water	200.8	612618
MB 280-612618/1-A	Method Blank	Total Recoverable	Water	200.8	612618
LCS 280-612618/20-A	Lab Control Sample	Total Recoverable	Water	200.8	612618
280-176512-3 MS	2022-02-02	Total Recoverable	Water	200.8	612618
280-176512-3 MSD	2022-02-02	Total Recoverable	Water	200.8	612618

Analysis Batch: 613485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-176512-1	2022-01	Potentially Dissolved	Water	200.8	612883
280-176512-2	2022-02	Potentially Dissolved	Water	200.8	612883
280-176512-3	2022-02-02	Potentially Dissolvec	Water	200.8	612883

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g

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1 1

12

13

1 1

Client: Grand Island Resources Project/Site: Nederland, CO

Job ID: 280-176512-1

Metals (Continued)

Analysis Batch: 613485 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-176512-4	2022-02-03	Potentially Dissolved	Water	200.8	612883
MB 280-612874/1-B	Method Blank	Potentially Dissolved	Water	200.8	612883
LCS 280-612874/2-B	Lab Control Sample	Potentially Dissolved	Water	200.8	612883
280-176512-3 MS	2022-02-02	Potentially Dissolved	Water	200.8	612883
280-176512-3 MSD	2022-02-02	Potentially Dissolved	Water	200.8	612883

Prep Batch: 613507

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-176512-1	2022-01	Total/NA	Water	245.1	
280-176512-2	2022-02	Total/NA	Water	245.1	
280-176512-3	2022-02-02	Total/NA	Water	245.1	
280-176512-4	2022-02-03	Total/NA	Water	245.1	
MB 280-613507/1-A	Method Blank	Total/NA	Water	245.1	
LCS 280-613507/2-A	Lab Control Sample	Total/NA	Water	245.1	
280-176512-3 MS	2022-02-02	Total/NA	Water	245.1	
280-176512-3 MSD	2022-02-02	Total/NA	Water	245.1	

Analysis Batch: 613659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-176512-1	2022-01	Total/NA	Water	245.1	613507
280-176512-2	2022-02	Total/NA	Water	245.1	613507
280-176512-3	2022-02-02	Total/NA	Water	245.1	613507
280-176512-4	2022-02-03	Total/NA	Water	245.1	613507
MB 280-613507/1-A	Method Blank	Total/NA	Water	245.1	613507
LCS 280-613507/2-A	Lab Control Sample	Total/NA	Water	245.1	613507
280-176512-3 MS	2022-02-02	Total/NA	Water	245.1	613507
280-176512-3 MSD	2022-02-02	Total/NA	Water	245.1	613507

Analysis Batch: 613763

Lab Sample ID 280-176512-1	Client Sample ID 2022-01	Prep Type Total Recoverable	Matrix Water	Method 200.7 Rev 4.4	Prep Batch 612618
280-176512-2	2022-02	Total Recoverable	Water	200.7 Rev 4.4	612618
MB 280-612618/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	612618
LCS 280-612618/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	612618

Analysis Batch: 613902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-176512-3	2022-02-02	Total Recoverable	Water	200.7 Rev 4.4	612618
280-176512-4	2022-02-03	Total Recoverable	Water	200.7 Rev 4.4	612618
280-176512-3 MS	2022-02-02	Total Recoverable	Water	200.7 Rev 4.4	612618
280-176512-3 MSD	2022-02-02	Total Recoverable	Water	200.7 Rev 4.4	612618

Prep Batch: 625891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-176512-1	2022-01	Total/NA	Water	1631E	
280-176512-2	2022-02	Total/NA	Water	1631E	
280-176512-3	2022-02-02	Total/NA	Water	1631E	
280-176512-4	2022-02-03	Total/NA	Water	1631E	
MB 400-625891/3-A	Method Blank	Total/NA	Water	1631E	
LCS 400-625891/4-A	Lab Control Sample	Total/NA	Water	1631E	
LCSD 400-625891/5-A	Lab Control Sample Dup	Total/NA	Water	1631E	

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Client: Grand Island Resources Project/Site: Nederland, CO

Job ID: 280-176512-1

Metals (Continued)

Prep Batch: 625891 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-176512-3 MS	2022-02-02	Total/NA	Water	1631E	
280-176512-3 MSD	2022-02-02	Total/NA	Water	1631E	

Analysis Batch: 625988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-176512-1	2022-01	Total/NA	Water	1631E	625891
280-176512-2	2022-02	Total/NA	Water	1631E	625891
280-176512-3	2022-02-02	Total/NA	Water	1631E	625891
280-176512-4	2022-02-03	Total/NA	Water	1631E	625891
MB 400-625891/3-A	Method Blank	Total/NA	Water	1631E	625891
LCS 400-625891/4-A	Lab Control Sample	Total/NA	Water	1631E	625891
LCSD 400-625891/5-A	Lab Control Sample Dup	Total/NA	Water	1631E	625891
280-176512-3 MS	2022-02-02	Total/NA	Water	1631E	625891
280-176512-3 MSD	2022-02-02	Total/NA	Water	1631E	625891

General Chemistry

Filtration Batch: 612599

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-176512-1	2022-01	Dissolved	Water	FILTRATION	
280-176512-2	2022-02	Dissolved	Water	FILTRATION	
280-176512-3	2022-02-02	Dissolved	Water	FILTRATION	
280-176512-4	2022-02-03	Dissolved	Water	FILTRATION	
MB 280-612599/3-A	Method Blank	Dissolved	Water	FILTRATION	
LCS 280-612599/1-A	Lab Control Sample	Dissolved	Water	FILTRATION	
LCSD 280-612599/2-A	Lab Control Sample Dup	Dissolved	Water	FILTRATION	
280-176512-3 MS	2022-02-02	Dissolved	Water	FILTRATION	
280-176512-3 MSD	2022-02-02	Dissolved	Water	FILTRATION	
280-176512-3 DU	2022-02-02	Dissolved	Water	FILTRATION	

Analysis Batch: 612610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-176512-1	2022-01	Dissolved	Water	SM 3500 CR B	612599
280-176512-1	2022-01	Total/NA	Water	SM 3500 CR B	
280-176512-2	2022-02	Dissolved	Water	SM 3500 CR B	612599
280-176512-2	2022-02	Total/NA	Water	SM 3500 CR B	
280-176512-3	2022-02-02	Dissolved	Water	SM 3500 CR B	612599
280-176512-3	2022-02-02	Total/NA	Water	SM 3500 CR B	
280-176512-4	2022-02-03	Dissolved	Water	SM 3500 CR B	612599
280-176512-4	2022-02-03	Total/NA	Water	SM 3500 CR B	
MB 280-612599/3-A	Method Blank	Dissolved	Water	SM 3500 CR B	612599
MB 280-612610/14	Method Blank	Total/NA	Water	SM 3500 CR B	
LCS 280-612599/1-A	Lab Control Sample	Dissolved	Water	SM 3500 CR B	612599
LCS 280-612610/11	Lab Control Sample	Total/NA	Water	SM 3500 CR B	
LCSD 280-612599/2-A	Lab Control Sample Dup	Dissolved	Water	SM 3500 CR B	612599
280-176512-3 MS	2022-02-02	Dissolved	Water	SM 3500 CR B	612599
280-176512-3 MS	2022-02-02	Total/NA	Water	SM 3500 CR B	
280-176512-3 MSD	2022-02-02	Dissolved	Water	SM 3500 CR B	612599
280-176512-3 MSD	2022-02-02	Total/NA	Water	SM 3500 CR B	
280-176512-3 DU	2022-02-02	Dissolved	Water	SM 3500 CR B	612599
280-176512-3 DU	2022-02-02	Dissolved	Water	SM 3500 CR B	612599

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Client: Grand Island Resources Project/Site: Nederland, CO

Job ID: 280-176512-1

General Chemistry (Continued)

Analysis Batch: 612610 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-176512-3 DU	2022-02-02	Total/NA	Water	SM 3500 CR B	
280-176512-3 DU	2022-02-02	Total/NA	Water	SM 3500 CR B	

Analysis Batch: 613264

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-176512-3	2022-02-02	Total/NA	Water	SM 4500 H+ B	
LCS 280-613264/5	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 613317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-176512-1	2022-01	Total/NA	Water	SM 4500 S2 D	
280-176512-2	2022-02	Total/NA	Water	SM 4500 S2 D	
280-176512-3	2022-02-02	Total/NA	Water	SM 4500 S2 D	
280-176512-4	2022-02-03	Total/NA	Water	SM 4500 S2 D	
MB 280-613317/39	Method Blank	Total/NA	Water	SM 4500 S2 D	
MB 280-613317/9	Method Blank	Total/NA	Water	SM 4500 S2 D	
LCS 280-613317/11	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
LCS 280-613317/41	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
LCSD 280-613317/10	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 D	
LCSD 280-613317/40	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 D	
280-176512-3 MS	2022-02-02	Total/NA	Water	SM 4500 S2 D	
280-176512-3 MSD	2022-02-02	Total/NA	Water	SM 4500 S2 D	
280-176512-4 MS	2022-02-03	Total/NA	Water	SM 4500 S2 D	
280-176512-4 MSD	2022-02-03	Total/NA	Water	SM 4500 S2 D	

Analysis Batch: 613357

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-176512-1	2022-01	Total/NA	Water	SM 2540D	_
280-176512-2	2022-02	Total/NA	Water	SM 2540D	
280-176512-3	2022-02-02	Total/NA	Water	SM 2540D	
280-176512-4	2022-02-03	Total/NA	Water	SM 2540D	
MB 280-613357/3	Method Blank	Total/NA	Water	SM 2540D	
LCS 280-613357/1	Lab Control Sample	Total/NA	Water	SM 2540D	
LCSD 280-613357/2	Lab Control Sample Dup	Total/NA	Water	SM 2540D	

Analysis Batch: 613464

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-176512-1	2022-01	Total/NA	Water	SM 2510B	
280-176512-2	2022-02	Total/NA	Water	SM 2510B	
280-176512-3	2022-02-02	Total/NA	Water	SM 2510B	
280-176512-4	2022-02-03	Total/NA	Water	SM 2510B	
MB 280-613464/31	Method Blank	Total/NA	Water	SM 2510B	
MB 280-613464/5	Method Blank	Total/NA	Water	SM 2510B	
LCS 280-613464/30	Lab Control Sample	Total/NA	Water	SM 2510B	
LCS 280-613464/4	Lab Control Sample	Total/NA	Water	SM 2510B	
280-176512-3 DU	2022-02-02	Total/NA	Water	SM 2510B	

Analysis Batch: 613583

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-176512-1	2022-01	Total/NA	Water	SM 4500 H+ B	
280-176512-2	2022-02	Total/NA	Water	SM 4500 H+ B	

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Client: Grand Island Resources Project/Site: Nederland, CO Job ID: 280-176512-1

General Chemistry (Continued)

Analysis Batch: 613583 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-176512-4	2022-02-03	Total/NA	Water	SM 4500 H+ B	
LCS 280-613583/5	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 613992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-176512-1	2022-01	Total/NA	Water	SM4500 S2 H	
280-176512-2	2022-02	Total/NA	Water	SM4500 S2 H	
280-176512-3	2022-02-02	Total/NA	Water	SM4500 S2 H	
280-176512-4	2022-02-03	Total/NA	Water	SM4500 S2 H	

Analysis Batch: 614130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-176512-1	2022-01	Potentially Dissolved	Water	SM3500 CR B	
280-176512-1	2022-01	Total Recoverable	Water	SM3500 CR B	
280-176512-2	2022-02	Potentially Dissolvec	Water	SM3500 CR B	
280-176512-2	2022-02	Total Recoverable	Water	SM3500 CR B	
280-176512-3	2022-02-02	Potentially Dissolvec	Water	SM3500 CR B	
280-176512-3	2022-02-02	Total Recoverable	Water	SM3500 CR B	
280-176512-4	2022-02-03	Potentially Dissolvec	Water	SM3500 CR B	
280-176512-4	2022-02-03	Total Recoverable	Water	SM3500 CR B	

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Job ID: 280-176512-1

Client: Grand Island Resources Project/Site: Nederland, CO

Client Sample ID: 2022-01

Lab Sample ID: 280-176512-1

Matrix: Water

Date Collected: 05/15/23 09:00 Date Received: 05/15/23 16:26

	Batch	Batch	_	Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			40 mL	40 mL	625891 Completed:	05/19/23 15:30 05/22/23 09:45	VLC 1	EET PEN
Total/NA	Analysis	1631E		1			625988	05/22/23 09.45		EET PEN
Total Recoverable	Prep	200.8			50 mL	50 mL	612618	05/18/23 07:45	LJS	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			613763	05/24/23 23:28	ADL	EET DEN
Potentially Dissolvec	Filtration	Poten_Diss_Met			250 mL	250 mL	612874	05/17/23 17:47	PFM	EET DEN
Potentially Dissolved	Prep	200.8			50 mL	50 mL	612883	05/18/23 14:27	PFM	EET DEN
Potentially Dissolved	Analysis	200.8		1			613485	05/22/23 19:32	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	612618	05/18/23 07:45	LJS	EET DEN
Total Recoverable	Analysis	200.8		1			613118	05/19/23 01:28	LRD	EET DEN
Total/NA	Prep	245.1			30 mL	50 mL	613507	05/23/23 17:26	PFM	EET DEN
Total/NA	Analysis	245.1		1			613659	05/24/23 01:09	PFM	EET DEN
Total/NA	Analysis	SM 2510B		1			613464	05/23/23 10:58	KEG	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	613357	05/22/23 14:10	ABW	EET DEN
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	612599	05/16/23 08:16	SL	EET DEN
Dissolved	Analysis	SM 3500 CR B		1	2 mL	2 mL	612610	05/16/23 09:05	SL	EET DEN
Total/NA	Analysis	SM 3500 CR B		1	2 mL	2 mL	612610	05/16/23 09:13	SL	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			613583	05/23/23 14:31	KEG	EET DEN
Total/NA	Analysis	SM 4500 S2 D		1	2 mL	2 mL	613317	05/18/23 18:54	SL	EET DEN
Potentially Dissolved	Analysis	SM3500 CR B		1			614130	05/30/23 08:39	RMS	EET DEN
Total Recoverable	Analysis	SM3500 CR B		1			614130	05/30/23 08:39	RMS	EET DEN
Total/NA	Analysis	SM4500 S2 H		1			613992	05/26/23 13:33	SAH	EET DEN

Client Sample ID: 2022-02 Date Collected: 05/15/23 10:00 Date Received: 05/15/23 16:26 Lab Sample ID: 280-176512-2 Matrix: Water

Batch **Batch** Dil Initial Final **Batch** Prepared **Prep Type** Туре Method Run **Factor Amount Amount** Number or Analyzed Analyst Lab Total/NA Prep 1631E 40 mL 625891 05/19/23 15:30 VLC EET PEN 40 mL Completed: 05/22/23 09:45 1 Total/NA 1631E 625988 05/22/23 12:47 VLC **EET PEN** Analysis 1 Total Recoverable 200.8 612618 Prep 50 mL 50 mL 05/18/23 07:45 LJS EET DEN Total Recoverable 200.7 Rev 4.4 613763 Analysis 05/24/23 23:32 ADL EET DEN 1 Potentially Dissolvec Filtration Poten Diss Met 250 mL 250 mL 612874 05/17/23 17:47 PFM **EET DEN** 50 mL Potentially Dissolvec Prep 200.8 50 mL 612883 05/18/23 14:27 PFM **EET DEN** Potentially Dissolvec Analysis 200.8 613485 05/22/23 19:34 LMT EET DEN 1 200.8 50 mL Total Recoverable Prep 50 mL 612618 05/18/23 07:45 LJS **EET DEN** Total Recoverable Analysis 200.8 1 613118 05/19/23 01:30 LRD **EET DEN** Total/NA 30 mL Prep 245.1 50 mL 613507 05/23/23 17:26 PFM **EET DEN** Total/NA Analysis 245.1 1 613659 05/24/23 01:12 PFM **EET DEN** Total/NA Analysis SM 2510B 1 613464 05/23/23 10:58 KEG **EET DEN** Total/NA SM 2540D 250 mL 250 mL 613357 05/22/23 14:10 ABW Analysis EET DEN Dissolved Filtration **FILTRATION** 1.0 mL 1.0 mL 612599 05/16/23 08:16 SL **EET DEN** 05/16/23 09:05 SL EET DEN Dissolved Analysis SM 3500 CR B 2 mL 2 mL 612610

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5/31/2023

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Job ID: 280-176512-1

Client: Grand Island Resources Project/Site: Nederland, CO

Client Sample ID: 2022-02

Date Collected: 05/15/23 10:00 Date Received: 05/15/23 16:26

Lab Sample ID: 280-176512-2

Matrix: Water

Batch Batch Dil Initial Batch Final Prepared **Prep Type** Method Number or Analyzed Analyst Type Run **Factor Amount** Amount Lab Total/NA SM 3500 CR B 2 mL 612610 05/16/23 09:14 SL EET DEN Analysis 2 mL Total/NA Analysis SM 4500 H+ B 1 613583 05/23/23 14:35 KEG EET DEN Total/NA Analysis SM 4500 S2 D 1 2 mL 2 mL 613317 05/18/23 18:55 SL EET DEN Potentially Dissolvec Analysis EET DEN SM3500 CR B 1 614130 05/30/23 08:39 RMS Total Recoverable Analysis SM3500 CR B 614130 05/30/23 08:39 RMS EET DEN 1 Total/NA Analysis SM4500 S2 H 613992 05/26/23 13:33 SAH EET DEN

Client Sample ID: 2022-02-02 Lab Sample ID: 280-176512-3

Date Collected: 05/15/23 10:00 Date Received: 05/15/23 16:26

Matrix: Water

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			40 mL	40 mL	625891	05/19/23 15:30	VLC	EET PEN
							Completed:	05/22/23 09:45	1	
Total/NA	Analysis	1631E		1			625988	05/22/23 12:55	VLC	EET PEN
Total Recoverable	Prep	200.7			50 mL	50 mL	612618	05/18/23 07:45	LJS	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			613902	05/25/23 21:49	ADL	EET DEN
Potentially Dissolved	Filtration	Poten_Diss_Met			250 mL	250 mL	612874	05/17/23 17:47	PFM	EET DEN
Potentially Dissolved	Prep	200.8			50 mL	50 mL	612883	05/18/23 14:27	PFM	EET DEN
Potentially Dissolvec	Analysis	200.8		1			613485	05/22/23 19:36	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	612618	05/18/23 07:45	LJS	EET DEN
Total Recoverable	Analysis	200.8		1			613118	05/19/23 01:08	LRD	EET DEN
Total/NA	Prep	245.1			30 mL	50 mL	613507	05/23/23 17:26	PFM	EET DEN
Total/NA	Analysis	245.1		1			613659	05/24/23 01:14	PFM	EET DEN
Total/NA	Analysis	SM 2510B		1			613464	05/23/23 10:58	KEG	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	613357	05/22/23 14:10	ABW	EET DEN
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	612599	05/16/23 08:16	SL	EET DEN
Dissolved	Analysis	SM 3500 CR B		1	2 mL	2 mL	612610	05/16/23 09:01	SL	EET DEN
Total/NA	Analysis	SM 3500 CR B		1	2 mL	2 mL	612610	05/16/23 09:09	SL	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			613264	05/19/23 15:58	KEG	EET DEN
Total/NA	Analysis	SM 4500 S2 D		1	2 mL	2 mL	613317	05/18/23 18:53	SL	EET DEN
Potentially Dissolvec	Analysis	SM3500 CR B		1			614130	05/30/23 08:39	RMS	EET DEN
Total Recoverable	Analysis	SM3500 CR B		1			614130	05/30/23 08:39	RMS	EET DEN

Client Sample ID: 2022-02-03

SM4500 S2 H

Analysis

Date Collected: 05/15/23 10:00

Total/NA

Date Received: 05/15/23 16:26

Lab Sample ID: 280-176512-4

05/26/23 13:33 SAH

613992

Matrix: Water

EET DEN

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			40 mL	40 mL	625891	05/19/23 15:30	VLC	EET PEN
							Completed:	05/22/23 09:45	1	
Total/NA	Analysis	1631E		1			625988	05/22/23 15:03	VLC	EET PEN

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Lab Chronicle

Client: Grand Island Resources Job ID: 280-176512-1 Project/Site: Nederland, CO

Client Sample ID: 2022-02-03

Lab Sample ID: 280-176512-4 Date Collected: 05/15/23 10:00 **Matrix: Water**

Date Received: 05/15/23 16:26

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			50 mL	50 mL	612618	05/18/23 07:45	LJS	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			613902	05/25/23 22:09	ADL	EET DEN
Potentially Dissolved	Filtration	Poten_Diss_Met			250 mL	250 mL	612874	05/17/23 18:07	PFM	EET DEN
Potentially Dissolved	Prep	200.8			50 mL	50 mL	612883	05/18/23 14:27	PFM	EET DEN
Potentially Dissolvec	Analysis	200.8		1			613485	05/22/23 19:49	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	612618	05/18/23 07:45	LJS	EET DEN
Total Recoverable	Analysis	200.8		1			613118	05/19/23 01:32	LRD	EET DEN
Total/NA	Prep	245.1			30 mL	50 mL	613507	05/23/23 17:26	PFM	EET DEN
Total/NA	Analysis	245.1		1			613659	05/24/23 01:22	PFM	EET DEN
Total/NA	Analysis	SM 2510B		1			613464	05/23/23 10:58	KEG	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	613357	05/22/23 14:10	ABW	EET DEN
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	612599	05/16/23 08:16	SL	EET DEN
Dissolved	Analysis	SM 3500 CR B		1	2 mL	2 mL	612610	05/16/23 09:12	SL	EET DEN
Total/NA	Analysis	SM 3500 CR B		1	2 mL	2 mL	612610	05/16/23 09:12	SL	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			613583	05/23/23 14:41	KEG	EET DEN
Total/NA	Analysis	SM 4500 S2 D		1	2 mL	2 mL	613317	05/18/23 19:08	SL	EET DEN
Potentially Dissolved	Analysis	SM3500 CR B		1			614130	05/30/23 08:39	RMS	EET DEN
Total Recoverable	Analysis	SM3500 CR B		1			614130	05/30/23 08:39	RMS	EET DEN
Total/NA	Analysis	SM4500 S2 H		1			613992	05/26/23 13:33	SAH	EET DEN

This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Eurofins Denver

Accreditation/Certification Summary

Client: Grand Island Resources Project/Site: Nederland, CO

Job ID: 280-176512-1

Laboratory: Eurofins Denver

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	10-31-23
A2LA	ISO/IEC 17025	2907.01	10-31-23
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-08-24
Arizona	State	AZ0713	12-20-24
Arkansas DEQ	State	19-047-0	05-31-23
California	State	2513	01-08-24
Connecticut	State	PH-0686	09-30-24
Florida	NELAP	E87667-57	06-30-23
Georgia	State	4025-011	01-08-24
Illinois	NELAP	2000172019-1	04-30-24
lowa	State	IA#370	12-01-24
Kansas	NELAP	E-10166	04-30-24
Kentucky (WW)	State	KY98047	12-31-23
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-23
Louisiana (All)	NELAP	30785	06-30-23
Minnesota	NELAP	1788752	12-31-23
Nevada	State	CO000262020-1	07-31-23
New Hampshire	NELAP	205319	04-28-23 *
New Jersey	NELAP	190002	06-30-23
New York	NELAP	59923	03-31-24
North Carolina (WW/SW)	State	358	12-31-23
North Dakota	State	R-034	01-08-24
Oklahoma	NELAP	8614	08-31-23
Oklahoma	State	2018-006	08-31-23
Oregon	NELAP	4025-011	01-10-24
Pennsylvania	NELAP	013	07-31-23
South Carolina	State	72002001	01-08-24
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	09-30-23
US Fish & Wildlife	US Federal Programs	058448	07-31-23
USDA	US Federal Programs	P330-20-00065	12-19-25
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-23
Virginia	NELAP	12037	06-14-23
Washington	State	C583-19	08-03-23
West Virginia DEP	State	354	11-30-23
Wisconsin	State	999615430	08-31-23
Wyoming (UST)	A2LA	2907.01	10-31-22 *

Laboratory: Eurofins Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-23
ANAB	ISO/IEC 17025	L2471	02-22-26
Arkansas DEQ	State	88-0689	09-01-23
California	State	2510	06-30-23
Florida	NELAP	E81010	06-30-23

^{*} Accreditation/Certification renewal pending - accreditation/certification considered valid.

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Accreditation/Certification Summary

Client: Grand Island Resources Project/Site: Nederland, CO Job ID: 280-176512-1

Laboratory: Eurofins Pensacola (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Georgia	State	E81010(FL)	06-30-23
Illinois	NELAP	200041	10-09-23
Kansas	NELAP	E-10253	10-31-23
Kentucky (UST)	State	53	06-30-23
Louisiana (All)	NELAP	30976	06-30-23
Louisiana (DW)	State	LA017	12-31-23
Maryland	State	233	09-30-23
Michigan	State	9912	06-30-23
North Carolina (WW/SW)	State	314	12-31-23
Oklahoma	NELAP	9810	08-31-23
Pennsylvania	NELAP	68-00467	01-31-24
South Carolina	State	96026	06-30-23
Tennessee	State	TN02907	06-30-23
Texas	NELAP	T104704286	09-30-23
US Fish & Wildlife	US Federal Programs	A22340	06-30-23
USDA	US Federal Programs	FLGNV23001	01-08-26
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-23
West Virginia DEP	State	136	03-31-24

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Eurofins TestAmerica, Denver							
4955 Yarrow Street Arvada, CO 80002 Phone (303) 736-0100 Phone (303) 431-7171	Chain of	of Custody Record	Record			seurotins 🚓	Environment Testing America
Client Information	Sampler: BM	Lab Bje	Lab PM: Bieniulis, Dylan T	Ö	Carrier Tracking No(s):	COC No:	
Client Contact: Patrick Delaney	Phone: 303-506	上 で (8 回 (8	E-Mail: Dylan.Bjeniulis@Eurofinset.com		State of Origin:	Page;	
Company: Grand Island Resources	<u>a. </u>	PWSID:		Analysis Requested	ested	. Job #:	
Address: 12567 West Cedar Road Suite 250	Due Date Requested:			, <u> </u>		Preservation Codes:	18
City. Lakewood	TAT Requested (days):			N 800		B - NaOH	
State, Zp.: CO. 80466	Compliance Project: A Yes A ?	No		37117 8 10inU -		D - Nitrio Acid E - NaHSO4	
Phone:	Po#: Advance Payment Required		SST - G0	Cr (LAI cslc) <u>0</u> .52_H		F - MeOH G - Amchior H - Ascorbic Acid	R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate
Email: <u>pdelaney@blackfoxmining.com</u>	#OM		e [,] 294	valent TCr (COAGL		
and, CO	Project#: 28022821		วนชาวก วานชาวก	d Hexa Frivaler S brie 9 :)	otal Re	K-EDTA	W - pH 4-5 Z - other (specify)
	SSOW#:		Y) (ISI	ssolve Sulfid Selfid	L - 1.34	of co.	
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Sample Identification	Sample Date Time (G=grab) sr-rasse, A-Air Preservation Gode:	SZ Z	VH 004	OZ C	5000 Acc	Special Instructions/Note:
2022-01	5/15/22 91;00	3	T\		K	Surface water p	* Surface water potentially dissolved metals permit list = 200 8 (As, Cd, Ct, Ct, Ph, Mn
2022-02	5/15/23/0/00	3		XXXX	×	Ni, Se, Ag, Zn)	
2022-01-02	5/15/23 ID:00	3 U	×	XXX	 	*Surface water to = 200.7 (Fe), 200	*Surface water total recoverable metals list = 200.7 (Fe), 200.8 (As, Cd, Cr, Cu, Pb,
2022-02-03	5/15/13 10:00	Z Z	X	XXXX	×	Zn), and 245.1 (H	·lg)
2022-02-MS	5/15/23/10:00	S	X	XXXX		2022	-01
		-11-				. = H4	7°6
Control of the Contro						72 PC	J. 7.0 = 1
and the second s			280-176512 Chain of Custody	of Custody		7075	7,0
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Possible Hazard Identification Non-Hazard	Poison B	Radiological	Sample Disposal (A 1	A fee may be ass	Sample Disposal (A fee may be assessed if samples are retained longer than Return To Client Disposal By Lab		t month) Months
ested: I, II, III, IV, Other (specify)			Special Instructions/QC Requirements:	'QC Requirements			
Empty Kit Relinquished by:	Date:		Time:		Method of Shipment:	e net d	
Relinquished by:	Date/Time:	Company	Received by:	J. J	Date/Time:	7821	Company
Relinquished by:	Date/Time:	Company	Received by:		Date/Time:		Сопрапу
aren Lopez	Date/Time OS S23 4 3	26 Company	Received by:	**************************************	Date/Time:		Company
Custody Seals Intact: Custody Seal No.: A Yes A No			Cooler Temperature	Cooler Temperature(s) °C and Other Remarks:	17,88 mks:	MULE	
			-				Ver: 01/16/2019

Chain of Custody Record

Eurofins Denver								维护		:		
4855 Yarrow Street Arvada, CO 80002 Phone: 303-736-0100 Fax: 303-431-7171	O	hain (of Cus	Chain of Custody Record	Scord					eurotins 💸		Environment Testing
Clinat Information (Gub Contract Lab)	Sampler:			Lab PM Rieniu	ile Polydar			Carrier Tracking No(s)	ig No(s):	COC No: 280-656177 1	_	
כוני (כתם כסווומכו במם)	Phone:			E-Mail:	,	E-Mail:		State of Origin:		Page:		
Snipping/Receiving				Dylan	. Bieniulis(ger.eurotins	us.com	Colorado		Page 1 or 1		
Cumpany. Eurofins Environment Testing Southeast,				-	ACCFECITATION	Accreditations Required (See note)	e note):			280-176512-	7.	
Address: 3355 MoLemore Drive.	Due Date Requested: 5/30/2023	:pa					Analysis	Analysis Reguested		Preservation Codes:	Codes: M - Hexane	exane
	TAT Requested (days)	ıys):	i		***		_			B - NaOH		one sNaO2
State, Zip: FL, 32514	-											P - Na2O4S Q - Na2SO3 R - Na2S2O3
Phone: 850-474-1001(Tel) 850-478-2671(Fax)	PO#:				- /					F - MeOH G - Amchlor H - Ascorbic Acid		2SO4 P Dodecahydrate
	WO #:											U - Acetone V - MCAA
Project Name: Nederland, CO	Project #: 28022821									rainer L - EDA	Z - 4	Y - Fritzma Y - Trizma Z - other (specify)
Site:	SSOW#:				2D (A					other:		
			Sample	T	& beneti SM\SM:r enq_∃rea					umber		
Sample Identification - Client ID (Lab ID)	Sample Date	Sample	rype (C=comp, G=arab)		none						Special Instructions/Note	ions/Note:
· · · · · · · · · · · · · · · · · · ·		\mathbb{X}	* Preserve	* Presenvations Code*	\mathbb{X}			200		×		
2022-01 (280-176512-1)	5/15/23	09:00 Mountain		Water	×					.2		
2022-02 (280-176512-2)	5/15/23	10:00 Mountain		Water	×					2		
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2022-02-02 (280-176512-3MS)	5/15/23	10:00 Mountain	MS	Water	×					2.		
2022-02-03 (280-176512-4)	5/15/23	10:00 Mountain		Water	×					2		
										£.m.		

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica alboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.	a places the ownershi being analyzed, the sa date, return the signec	o of method, ar Imples must be I Chain of Cust	nalyte & accre s shipped back ody attesting t	ditation compliand to the Eurofins 1 to said compliand	e upon our estAmerica e to Eurofins	subcontract lab laboratory or o TestAmerica.	oratories. This ther instructions	sample shipment is f will be provided. An	orwarded under cl y changes to accr	nain-of-custody. If the editation status should	laboratory do be brought to	es not currently Eurofins
Possible Hazard Identification					Sampl	e Disposal	A fee may	be assessed if a	samples are r	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	an 1 mont	h)
Unconfirmed				}		Return To Client	ient	Disposal By Lab	de.	Archive For	MC	Months
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Delivera	y Deliverable Rank: 2			Specia	Instructions	Special Instructions/QC Requirements	ements:				
Empty Kit Relinquished by:		Date:			Time:	1 1		Method	Method of Shipment:		-	
Relinquished by.	Str. 23		554	とれる	<u>§</u>	Received by:	_		Date/Time:	(5P 72-1		any
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Relinquished by:	Date/Time:			Company	Rec	Received by:	į		Date/Time:		Company	any
Custody Seals Intact: Custody Seal No.: A Yes A No					Ö	ler Temperatur	Cooler Temperature(s) °C and Other Remarks:	er Remarks:		7,6,6	200	
1					1						Ver	06/08/2021

Login Sample Receipt Checklist

Client: Grand Island Resources Job Number: 280-176512-1

Login Number: 176512 List Source: Eurofins Denver

List Number: 1

Creator: Held, Wesley

Question Answer Comment

Radioactivity wasn't checked or is </= background as measured by a survey

meter.

The cooler's custody seal, if present, is intact.

Sample custody seals, if present, are intact.

The cooler or samples do not appear to have been compromised or

tampered with.

Samples were received on ice.

Cooler Temperature is acceptable.

Cooler Temperature is recorded.

COC is present.

COC is filled out in ink and legible.

COC is filled out with all pertinent information.

Is the Field Sampler's name present on COC?

There are no discrepancies between the containers received and the COC.

Samples are received within Holding Time (excluding tests with immediate

HTs)

Sample containers have legible labels.

Containers are not broken or leaking.

Sample collection date/times are provided.

Appropriate sample containers are used.

Sample bottles are completely filled.

Sample Preservation Verified.

There is sufficient vol. for all requested analyses, incl. any requested

MS/MSDs

Containers requiring zero headspace have no headspace or bubble is

<6mm (1/4").

Multiphasic samples are not present.

Samples do not require splitting or compositing.

Residual Chlorine Checked.

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Login Sample Receipt Checklist

Client: Grand Island Resources Job Number: 280-176512-1

List Source: Eurofins Pensacola
List Number: 2
List Creation: 05/17/23 01:07 PM

Creator: Peckinpaugh, Marshall

Creator: Peckinpaugn, Marshail		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.6°C IR10
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Eurofins Denver

5/31/2023

APPENDIX C.3 JUNE 2023 SURFACE WATER ANALYTICAL RESULTS

14

ANALYTICAL REPORT

PREPARED FOR

Attn: Brooke Molson Moran Grand Island Resources 12567 West Cedar Road Suite 250 Lakewood, Colorado 80228 Generated 6/29/2023 12:00:30 PM

JOB DESCRIPTION

Nederland, CO

JOB NUMBER

280-177856-1

Eurofins Denver 4955 Yarrow Street Arvada CO 80002

Eurofins Denver

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

Authorization

Mul

Generated 6/29/2023 12:00:30 PM

Authorized for release by Megan McElheny, Project Manager I Megan.Mcelheny@et.eurofinsus.com Designee for Dylan Bieniulis, Project Manager I Dylan.Bieniulis@et.eurofinsus.com (303)736-0138

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Definitions/Glossary

Client: Grand Island Resources

Job ID: 280-177856-1

Project/Site: Nederland, CO

Qualifiers

Metals Qualifier

^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
В	Compound was found in the blank and sample.

F1 MS and/or MSD recovery exceeds control limits.

Qualifier Description

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins Denver

Page 4 of 42 6/29/2023

Case Narrative

Client: Grand Island Resources Project/Site: Nederland, CO

Job ID: 280-177856-1

Job ID: 280-177856-1

Laboratory: Eurofins Denver

Narrative

CASE NARRATIVE

Client: Grand Island Resources

Project: Nederland, CO

Report Number: 280-177856-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 6/14/2023 2:34 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 9.4° C.

Receipt Exceptions

One VOA vial from each mercury kit was packaged outside of mercury kit.

2022-01 (280-177856-1), 2022-02 (280-177856-2), 2022-02 (280-177856-2[MS]), 2022-02-02 (280-177856-3) and 2022-02-03 (280-177856-4)

TOTAL RECOVERABLE METALS (ICP)

Samples 2022-01 (280-177856-1), 2022-02 (280-177856-2), 2022-02-02 (280-177856-3) and 2022-02-03 (280-177856-4) were analyzed for Total Recoverable Metals (ICP) in accordance with EPA Method 200.7. The samples were prepared on 06/19/2023 and analyzed on 06/21/2023.

Iron was detected in method blank MB 280-616151/1-A at a level that was above the method detection limit but below the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

POTENTIALLY DISSOLVED METALS (ICPMS)

Samples 2022-01 (280-177856-1), 2022-02 (280-177856-2), 2022-02-02 (280-177856-3) and 2022-02-03 (280-177856-4) were analyzed for potentially dissolved metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared on 06/20/2023 and analyzed on 06/22/2023.

Chromium and Zinc were detected in method blank MB 280-616494/1-B at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL RECOVERABLE METALS (ICPMS)

Samples 2022-01 (280-177856-1), 2022-02 (280-177856-2), 2022-02-02 (280-177856-3) and 2022-02-03 (280-177856-4) were analyzed

Eurofins Denver 6/29/2023

Case Narrative

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-177856-1 (Continued)

Laboratory: Eurofins Denver (Continued)

for total recoverable metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared on 06/19/2023 and analyzed on 06/21/2023.

The continuing calibration verification (CCV) associated with batch 280-616944 recovered above the upper control limit for As. The MB/LCS and LCSD associated with this CCV were within limits for the affected analytes; therefore, the data have been reported. The associated samples are impacted: (CCV 280-616944/157), (LCS 280-616151/28-A), (LCSD 280-616151/29-A) and (MB 280-616151/1-A).

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 280-616151 and analytical batch 280-616944 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL MERCURY (CVAA)

Samples 2022-01 (280-177856-1), 2022-02 (280-177856-2), 2022-02-02 (280-177856-3) and 2022-02-03 (280-177856-4) were analyzed for total mercury (CVAA) in accordance with EPA Method 245.1. The samples were prepared and analyzed on 06/27/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TRIVALENT CHROMIUM - POTENTIALLY DISSOLVED

Samples 2022-01 (280-177856-1), 2022-02 (280-177856-2), 2022-02-02 (280-177856-3) and 2022-02-03 (280-177856-4) were analyzed for Trivalent Chromium - Potentially Dissolved in accordance with SM3500_CR3_B. The samples were analyzed on 06/27/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TRIVALENT CHROMIUM - TOTAL RECOVERABLE

Samples 2022-01 (280-177856-1), 2022-02 (280-177856-2), 2022-02-02 (280-177856-3) and 2022-02-03 (280-177856-4) were analyzed for Trivalent Chromium - Total Recoverable in accordance with SM3500 CR3 B. The samples were analyzed on 06/27/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SPECIFIC CONDUCTIVITY

Samples 2022-01 (280-177856-1), 2022-02 (280-177856-2), 2022-02-02 (280-177856-3) and 2022-02-03 (280-177856-4) were analyzed for specific conductivity in accordance with SM20 2510B. The samples were analyzed on 06/27/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL SUSPENDED SOLIDS

Samples 2022-01 (280-177856-1), 2022-02 (280-177856-2), 2022-02-02 (280-177856-3) and 2022-02-03 (280-177856-4) were analyzed for total suspended solids in accordance with SM20 2540D. The samples were analyzed on 06/21/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED HEXAVALENT CHROMIUM

Samples 2022-01 (280-177856-1), 2022-02 (280-177856-2), 2022-02-02 (280-177856-3) and 2022-02-03 (280-177856-4) were analyzed for dissolved hexavalent chromium in accordance with SM 3500 CR B. The samples were analyzed on 06/14/2023.

The matrix spike and matrix spike duplicate (MS/MSD) recoveries for preparation batch 280-616147 and analytical batch 280-616159 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference is suspected because the associated laboratory control sample and laboratory control sample duplicate (LCS/LCSD) recoveries are within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HEXAVALENT CHROMIUM

Samples 2022-01 (280-177856-1), 2022-02 (280-177856-2), 2022-02-02 (280-177856-3) and 2022-02-03 (280-177856-4) were analyzed

Job ID: 280-177856-1

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Case Narrative

Client: Grand Island Resources Project/Site: Nederland, CO

Job ID: 280-177856-1

Job ID: 280-177856-1 (Continued)

Laboratory: Eurofins Denver (Continued)

for hexavalent chromium in accordance with 3500_CR_B. The samples were analyzed on 06/14/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

CORROSIVITY (PH)

Samples 2022-01 (280-177856-1), 2022-02 (280-177856-2), 2022-02-02 (280-177856-3) and 2022-02-03 (280-177856-4) were analyzed for corrosivity (pH) in accordance with SM20 4500 H+ B. The samples were analyzed on 06/19/2023 and 06/20/2023.

Sample did not equilibrate to within 0.05 pH units after three measurements. This was observed in a previous analysis, thus the sample was not rerun. 2022-02 (280-177856-2) and 2022-02-03 (280-177856-4).

The sample duplicate (DUP) precision for analytical batch 280-616882 was outside control limits. Sample matrix interference is suspected.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SULFIDE

Samples 2022-01 (280-177856-1), 2022-02 (280-177856-2), 2022-02-02 (280-177856-3) and 2022-02-03 (280-177856-4) were analyzed for sulfide in accordance with SM20 4500 S2 D. The samples were analyzed on 06/15/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HYDROGEN SULFIDE

Samples 2022-01 (280-177856-1), 2022-02 (280-177856-2), 2022-02-02 (280-177856-3) and 2022-02-03 (280-177856-4) were analyzed for Hydrogen Sulfide in accordance with SM20 4500 S2 H. The samples were analyzed on 06/16/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

LOW LEVEL MERCURY

Samples 2022-01 (280-177856-1), 2022-02 (280-177856-2), 2022-02-02 (280-177856-3) and 2022-02-03 (280-177856-4) were analyzed for Low Level Mercury in accordance with EPA 1631. The samples were prepared on 06/27/2023 and analyzed on 06/28/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Detection Summary

Client: Grand Island Resources Project/Site: Nederland, CO

Job ID: 280-177856-1

Client Sample ID: 2022-01

Lab Sample ID: 280-177856-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	4.1		0.50	0.20	ng/L	1	_	1631E	Total/NA
Iron	290	В	100	9.1	ug/L	1		200.7 Rev 4.4	Total
									Recoverable
Copper	2.4		2.0	0.71	ug/L	1		200.8	Total
									Recoverable
Lead	0.44	J	1.0	0.23	ug/L	1		200.8	Total
									Recoverable
Zinc	3.5	J	10	2.0	ug/L	1		200.8	Total
Conner	4.0		2.0	0.71	/1	1		200.8	Recoverable
Copper	1.3	J	2.0	0.71	ug/L	ı		200.6	Potentially Dissolved
Lead	0.30	J	1.0	0.23	ug/L	1		200.8	Potentially
					Ü				Dissolved
Manganese	8.5		3.0	0.51	ug/L	1		200.8	Potentially
									Dissolved
Zinc	7.1	JB	10	2.0	ug/L	1		200.8	Potentially
									Dissolved
Specific Conductance	44		2.0	2.0	umhos/cm	1		SM 2510B	Total/NA
Total Suspended Solids	1.6	J	4.0	1.1	mg/L	1		SM 2540D	Total/NA
pH adj. to 25 deg C	7.5	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Temperature	21.1	HF	1.0	1.0	Degrees C	1		SM 4500 H+ B	Total/NA
Field pH	7.5		1.0	1.0	SU	1		SM4500 S2 H	Total/NA
Field Temperature	21		1.0	1.0	Celsius	1		SM4500 S2 H	Total/NA
Specific Conductance	44		2.0	2.0	umhos/cm	1		SM4500 S2 H	Total/NA

Client Sample ID: 2022-02

Lab Sample ID: 280-177856-2

								p	
- Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	7.1		0.50	0.20	ng/L	1	_	1631E	Total/NA
Iron	310	В	100	9.1	ug/L	1		200.7 Rev 4.4	Total
									Recoverable
Copper	2.6		2.0	0.71	ug/L	1		200.8	Total
, ,									Recoverable
Lead	2.6		1.0	0.23	ug/L	1		200.8	Total
7:	4.4	E4	40	0.0	/1	4		200.0	Recoverable
Zinc	14	F1	10	2.0	ug/L	1		200.8	Total
Chromium	0.59	I R	3.0	0.50	ug/L	1		200.8	Recoverable Potentially
Chioman	0.55	3.6	3.0	0.50	ug/L	1		200.0	Dissolved
Copper	1.9		2.0	0.71	ug/L	1		200.8	Potentially
					3				Dissolved
Lead	2.5		1.0	0.23	ug/L	1		200.8	Potentially
									Dissolved
Manganese	11		3.0	0.51	ug/L	1		200.8	Potentially
									Dissolved
Silver	0.082	J	0.50	0.045	ug/L	1		200.8	Potentially
7	00	Б	40	0.0	/1			000.0	Dissolved
Zinc	26	В	10	2.0	ug/L	1		200.8	Potentially Dissolved
Specific Conductance	78		2.0	2.0	umhos/cm	1		SM 2510B	Total/NA
Total Suspended Solids	3.6	<u>.</u>	4.0		mg/L	1		SM 2540D	Total/NA
pH adj. to 25 deg C		HF	0.1		SU	1		SM 4500 H+ B	Total/NA
	21.9					·-		SM 4500 H+ B	Total/NA
Temperature		ПГ	1.0		Degrees C	1			
Field pH	7.3		1.0		SU	1		SM4500 S2 H	Total/NA
Field Temperature	22		1.0		Celsius	1		SM4500 S2 H	Total/NA
Specific Conductance	78		2.0	2.0	umhos/cm	1		SM4500 S2 H	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Denver

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Detection Summary

Client: Grand Island Resources Project/Site: Nederland, CO

Job ID: 280-177856-1

Lab Sample ID: 280-177856-3

Client Sample ID: 2022-02-02

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	6.9		0.50	0.20	ng/L	1	_	1631E	Total/NA
Iron	550	В	100	9.1	ug/L	1		200.7 Rev 4.4	Total
									Recoverable
Copper	2.7		2.0	0.71	ug/L	1		200.8	Total
					<u>.</u>				Recoverable
Lead	3.1		1.0	0.23	ug/L	1		200.8	Total
Zinc	15		10	2.0	ug/L	1		200.8	Recoverable Total
ZIIIC	13		10	2.0	ug/L	ı ı		200.0	Recoverable
Chromium	0.53	JВ	3.0	0.50	ug/L	1		200.8	Potentially
					3				Dissolved
Copper	1.5	J	2.0	0.71	ug/L	1		200.8	Potentially
									Dissolved
Lead	2.6		1.0	0.23	ug/L	1		200.8	Potentially
	40		0.0	0.54	,,			222.2	Dissolved
Manganese	12		3.0	0.51	ug/L	1		200.8	Potentially
Zinc	19	R	10	2.0	ug/L	1		200.8	Dissolved Potentially
Ziiio	13	Б	10	2.0	ug/L			200.0	Dissolved
Specific Conductance	77		2.0	2.0	umhos/cm	1		SM 2510B	Total/NA
Total Suspended Solids	3.2	J	4.0	1.1	mg/L	1		SM 2540D	Total/NA
pH adj. to 25 deg C	7.9		0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Temperature	22.1	HF	1.0	1.0	Degrees C	1		SM 4500 H+ B	Total/NA
Field pH	7.9		1.0	1.0	su	1		SM4500 S2 H	Total/NA
Field Temperature	22		1.0	1.0	Celsius	1		SM4500 S2 H	Total/NA
Specific Conductance	77		2.0	20	umhos/cm	1		SM4500 S2 H	Total/NA

Client Sample ID: 2022-02-03

Client Sample ID: 202	ent Sample ID: 2022-02-03							Lab Sample ID: 280-177856-4			
_ Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac D	Method	Prep Type			
Iron	14	J B	100	9.1	ug/L		200.7 Rev 4.4	Total			
								Recoverable			
Chromium	0.52	JB	3.0	0.50	ug/L	1	200.8	Potentially			
								Dissolved			
Zinc	7.6	JB	10	2.0	ug/L	1	200.8	Potentially			
								Dissolved			
pH adj. to 25 deg C	8.5	HF	0.1	0.1	SU	1	SM 4500 H+ B	Total/NA			
Temperature	22.1	HF	1.0	1.0	Degrees C	1	SM 4500 H+ B	Total/NA			
Field pH	8.5		1.0	1.0	SU	1	SM4500 S2 H	Total/NA			
Field Temperature	22		1.0	1.0	Celsius	1	SM4500 S2 H	Total/NA			

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Grand Island Resources Project/Site: Nederland, CO

Job ID: 280-177856-1

Method	Method Description	Protocol	Laboratory
1631E	Mercury, Low Level (CVAFS)	EPA	EET PEN
200.7 Rev 4.4	Metals (ICP)	EPA	EET DEN
200.8	Metals (ICP/MS)	EPA	EET DEN
245.1	Mercury (CVAA)	EPA	EET DEN
SM 2510B	Conductivity, Specific Conductance	SM	EET DEN
SM 2540D	Solids, Total Suspended (TSS)	SM	EET DEN
SM 3500 CR B	Chromium, Hexavalent	SM	EET DEN
SM 4500 H+ B	pH	SM	EET DEN
SM 4500 S2 D	Sulfide, Total	SM	EET DEN
SM3500 CR B	Chromium, Trivalent	SM	EET DEN
SM4500 S2 H	Unionized Hydrogen Sulfide	SM	EET DEN
1631E	Preparation, Mercury, Low Level	EPA	EET PEN
200.7	Preparation, Total Recoverable Metals	EPA	EET DEN
200.8	Preparation, Total Recoverable Metals	EPA	EET DEN
245.1	Preparation, Mercury	EPA	EET DEN
FILTRATION	Sample Filtration	None	EET DEN
Poten Diss Met	Filtration for Potentially Dissolved Metals	EPA	EET DEN

Protocol References:

EPA = US Environmental Protection Agency

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100 EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Sample Summary

Client: Grand Island Resources Project/Site: Nederland, CO Job ID: 280-177856-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-177856-1	2022-01	Water	06/14/23 07:30	06/14/23 14:34
280-177856-2	2022-02	Water	06/14/23 08:10	06/14/23 14:34
280-177856-3	2022-02-02	Water	06/14/23 08:10	06/14/23 14:34
280-177856-4	2022-02-03	Water	06/14/23 08:10	06/14/23 14:34

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Client: Grand Island Resources Project/Site: Nederland, CO

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Client Sample ID: 2022-01	Lab Sample ID: 280-177856-1
Date Collected: 06/14/23 07:30	Matrix: Water

Date Received: 06/14/23 14:34

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Mercury	4.1	0.50	0.20 ng/L		06/27/23 16:25	06/28/23 13:21	1

Client Sample ID: 2022-02 Lab Sample ID: 280-177856-2

Date Collected: 06/14/23 08:10 Date Received: 06/14/23 14:34

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Mercury	7.1	0.50	0.20 ng/L		06/27/23 16:25	06/28/23 13:29	1

Client Sample ID: 2022-02-02

Date Collected: 06/14/23 08:10

Date Received: 06/14/23 14:34

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	6.9	0.50	0.20	ng/L		06/27/23 16:25	06/28/23 13:44	1

Client Sample ID: 2022-02-03 Lab Sample ID: 280-177856-4 Date Collected: 06/14/23 08:10 **Matrix: Water**

Date Received: 06/14/23 14:34

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	0.50	0.20 ng/L		06/27/23 16:25	06/28/23 13:52	1

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Client Sample ID: 2022-01	Lab Sample ID: 280-177856-1
Date Collected: 06/14/23 07:30	Matrix: Water

Date Received: 06/14/23 14:34

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	290	В	100	9.1	ug/L		06/19/23 14:45	06/21/23 01:49	1

Client Sample ID: 2022-02 Lab Sample ID: 280-177856-2 Date Collected: 06/14/23 08:10 **Matrix: Water**

Date Received: 06/14/23 14:34

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Iron	310 B	100	9.1 ug/L		06/19/23 14:45	06/21/23 01:54	1

Client Sample ID: 2022-02-02 Lab Sample ID: 280-177856-3 Date Collected: 06/14/23 08:10 **Matrix: Water**

Date Received: 06/14/23 14:34 Analyte RL MDL Unit Prepared Result Qualifier Analyzed Dil Fac 06/19/23 14:45 06/21/23 02:07 100 9.1 ug/L Iron 550 B

Client Sample ID: 2022-02-03 Lab Sample ID: 280-177856-4

Date Collected: 06/14/23 08:10 Date Received: 06/14/23 14:34

Analyte	Result Qualifier	RL	MDL Unit	D Prepa	red Analyzed	Dil Fac
Iron	14 JB	100	9.1 ua/L	06/19/23	14:45 06/21/23 02:11	1

6/29/2023

Matrix: Water

Matrix: Water

Matrix: Water

Lab Sample ID: 280-177856-3

Client: Grand Island Resources Project/Site: Nederland, CO

Method: EPA 200.8 - Metals (ICP/MS) - Total Recoverable

Client Sample ID: 2022-01	Lab Sample ID: 280-177856-1
Date Collected: 06/14/23 07:30	Matrix: Water

Date Received: 06/14/23 14:34

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		06/19/23 14:45	06/21/23 00:54	1
Cadmium	ND		1.0	0.19	ug/L		06/19/23 14:45	06/21/23 00:54	1
Chromium	ND		3.0	0.50	ug/L		06/19/23 14:45	06/21/23 00:54	1
Copper	2.4		2.0	0.71	ug/L		06/19/23 14:45	06/21/23 00:54	1
Lead	0.44	J	1.0	0.23	ug/L		06/19/23 14:45	06/21/23 00:54	1
Zinc	3.5	J	10	2.0	ug/L		06/19/23 14:45	06/21/23 00:54	1

Client Sample ID: 2022-02 Lab Sample ID: 280-177856-2 Date Collected: 06/14/23 08:10 **Matrix: Water**

Date Received: 06/14/23 14:34

Analyte	Result Qua	alifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND ND	5.0	0.50	ug/L		06/19/23 14:45	06/21/23 00:56	1
Cadmium	ND	1.0	0.19	ug/L		06/19/23 14:45	06/21/23 00:56	1
Chromium	ND	3.0	0.50	ug/L		06/19/23 14:45	06/21/23 00:56	1
Copper	2.6	2.0	0.71	ug/L		06/19/23 14:45	06/21/23 00:56	1
Lead	2.6	1.0	0.23	ug/L		06/19/23 14:45	06/21/23 00:56	1
Zinc	14 F1	10	2.0	ug/L		06/19/23 14:45	06/21/23 00:56	1

Client Sample ID: 2022-02-02 Lab Sample ID: 280-177856-3 Date Collected: 06/14/23 08:10 **Matrix: Water**

Date Received: 06/14/23 14:34

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		06/19/23 14:45	06/21/23 01:01	1
Cadmium	ND		1.0	0.19	ug/L		06/19/23 14:45	06/21/23 01:01	1
Chromium	ND		3.0	0.50	ug/L		06/19/23 14:45	06/21/23 01:01	1
Copper	2.7		2.0	0.71	ug/L		06/19/23 14:45	06/21/23 01:01	1
Lead	3.1		1.0	0.23	ug/L		06/19/23 14:45	06/21/23 01:01	1
Zinc	15		10	2.0	ug/L		06/19/23 14:45	06/21/23 01:01	1

Client Sample ID: 2022-02-03 Lab Sample ID: 280-177856-4 Date Collected: 06/14/23 08:10 **Matrix: Water**

Date Received: 06/14/23 14:34

Date Received, 60/14/	EU 17.07							
Analyte	Result Qu	ıalifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND ND	5.0	0.50	ug/L		06/19/23 14:45	06/21/23 01:03	1
Cadmium	ND	1.0	0.19	ug/L		06/19/23 14:45	06/21/23 01:03	1
Chromium	ND	3.0	0.50	ug/L		06/19/23 14:45	06/21/23 01:03	1
Copper	ND	2.0	0.71	ug/L		06/19/23 14:45	06/21/23 01:03	1
Lead	ND	1.0	0.23	ug/L		06/19/23 14:45	06/21/23 01:03	1
Zinc	ND	10	2.0	ug/L		06/19/23 14:45	06/21/23 01:03	1

Method: EPA 200.8 - Metals (ICP/MS) - Potentially Dissolved

Client Sample ID: 2022-01 Lab Sample ID: 280-177856-1 Date Collected: 06/14/23 07:30 **Matrix: Water**

Date Received: 06/14/23 14:34									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		06/20/23 14:40	06/22/23 20:03	1
Cadmium	ND		1.0	0.19	ug/L		06/20/23 14:40	06/22/23 20:03	1
Chromium	ND		3.0	0.50	ug/L		06/20/23 14:40	06/22/23 20:03	1
Copper	1.3	J	2.0	0.71	ug/L		06/20/23 14:40	06/22/23 20:03	1
Lead	0.30	J	1.0	0.23	ug/L		06/20/23 14:40	06/22/23 20:03	1

Eurofins Denver

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Client: Grand Island Resources Project/Site: Nederland, CO

Client Sample ID: 2022-02

Silver

Zinc

Method: EPA 200.8 - Metals (ICP/MS) - Potentially Dissolved (Continued)

0.082 J

26 B

Client Sample ID: 2022-01 Date Collected: 06/14/23 07:30							Lab Sam	ple ID: 280-17 Matrix:	
Date Received: 06/14/23 14:34 Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	8.5		3.0	0.51	ug/L		06/20/23 14:40	06/22/23 20:03	1
Nickel	ND		3.0	0.83	ug/L		06/20/23 14:40	06/22/23 20:03	1

Analyte	Result Q	quaimer RL	MDL	Unit	U	Prepared	Analyzed	DIIFac
Manganese	8.5	3.0	0.51	ug/L		06/20/23 14:40	06/22/23 20:03	1
Nickel	ND	3.0	0.83	ug/L		06/20/23 14:40	06/22/23 20:03	1
Selenium	ND	5.0	1.0	ug/L		06/20/23 14:40	06/22/23 20:03	1
Silver	ND	0.50	0.045	ug/L		06/20/23 14:40	06/22/23 20:03	1
Zinc	7.1 J	B 10	2.0	ug/L		06/20/23 14:40	06/22/23 20:03	1

Date Collected: 06/14/23 08:10			Matrix: Water			
Date Received: 06/14/23 14:34						
Analyte	Result Qualifier	RL	MDL Unit	D Prepared	Analyzed	Dil Fac
Arsenic	ND	5.0	0.50 ug/L	06/20/23 14:40	06/22/23 20:28	1
Cadmium	ND	1.0	0.19 ug/L	06/20/23 14:40	06/22/23 20:28	1
Chromium	0.59 JB	3.0	0.50 ug/L	06/20/23 14:40	06/22/23 20:28	1
Copper	1.9 J	2.0	0.71 ug/L	06/20/23 14:40	06/22/23 20:28	1
Lead	2.5	1.0	0.23 ug/L	06/20/23 14:40	06/22/23 20:28	1
Manganese	11	3.0	0.51 ug/L	06/20/23 14:40	06/22/23 20:28	1
Nickel	ND	3.0	0.83 ug/L	06/20/23 14:40	06/22/23 20:28	1
Selenium	ND	5.0	1.0 ug/L	06/20/23 14:40	06/22/23 20:28	1

Client Sample ID: 2022-02-02	Lab Sample ID: 280-177856-3
Date Collected: 06/14/23 08:10	Matrix: Water

0.50

10

0.045 ug/L

2.0 ug/L

Date Received: 06/14/2	3 14:34								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		06/20/23 14:40	06/22/23 20:39	1
Cadmium	ND		1.0	0.19	ug/L		06/20/23 14:40	06/22/23 20:39	1
Chromium	0.53	JB	3.0	0.50	ug/L		06/20/23 14:40	06/22/23 20:39	1
Copper	1.5	J	2.0	0.71	ug/L		06/20/23 14:40	06/22/23 20:39	1
Lead	2.6		1.0	0.23	ug/L		06/20/23 14:40	06/22/23 20:39	1
Manganese	12		3.0	0.51	ug/L		06/20/23 14:40	06/22/23 20:39	1
Nickel	ND		3.0	0.83	ug/L		06/20/23 14:40	06/22/23 20:39	1
Selenium	ND		5.0	1.0	ug/L		06/20/23 14:40	06/22/23 20:39	1
Silver	ND		0.50	0.045	ug/L		06/20/23 14:40	06/22/23 20:39	1
Zinc	19	В	10	2.0	ug/L		06/20/23 14:40	06/22/23 20:39	1

Client Sample ID: 2022-02-03	Lab Sample ID: 280-177856-4
Date Collected: 06/14/23 08:10	Matrix: Water
Date Received: 06/14/23 14:34	

Date Received, 00/14/23 14	t.J 4							
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND ND	5.0	0.50	ug/L		06/20/23 14:40	06/22/23 20:43	1
Cadmium	ND	1.0	0.19	ug/L		06/20/23 14:40	06/22/23 20:43	1
Chromium	0.52 JB	3.0	0.50	ug/L		06/20/23 14:40	06/22/23 20:43	1
Copper	ND	2.0	0.71	ug/L		06/20/23 14:40	06/22/23 20:43	1
Lead	ND	1.0	0.23	ug/L		06/20/23 14:40	06/22/23 20:43	1
Manganese	ND	3.0	0.51	ug/L		06/20/23 14:40	06/22/23 20:43	1
Nickel	ND	3.0	0.83	ug/L		06/20/23 14:40	06/22/23 20:43	1
Selenium	ND	5.0	1.0	ug/L		06/20/23 14:40	06/22/23 20:43	1
Silver	ND	0.50	0.045	ug/L		06/20/23 14:40	06/22/23 20:43	1
Zinc	7.6 JB	10	2.0	ug/L		06/20/23 14:40	06/22/23 20:43	1

Eurofins Denver

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Lab Sample ID: 280-177856-2

06/20/23 14:40 06/22/23 20:28

06/20/23 14:40 06/22/23 20:28

Client: Grand Island Resources Job ID: 280-177856-1
Project/Site: Nederland, CO

Method: EPA 245.1 - Mercury (CVAA)

Client Sample ID: 2022-01

Lab Sample ID: 280-177856-1

Pate Collected: 06/14/23 07:30

Matrix: Water

Date Collected: 06/14/23 07:30 Matrix: Water Date Received: 06/14/23 14:34

 Analyte
 Result
 Qualifier
 RL
 MDL
 Unit
 D
 Prepared
 Analyzed
 Dil Fac

 Mercury
 ND
 0.20
 0.061
 ug/l
 06/27/23 14:45
 06/27/23 23:09
 1

Mercury ND 0.20 0.061 ug/L 06/27/23 14:45 06/27/23 23:09 1

Date Received: 06/14/23 14:34

 Analyte
 Result Mercury
 Qualifier
 RL ND
 MDL unit ug/L
 D 06/27/23 14:45
 Prepared 06/27/23 14:45
 Analyzed 06/27/23 23:12
 Dil Fac 06/27/23 14:45

Client Sample ID: 2022-02-02 Lab Sample ID: 280-177856-3

Date Collected: 06/14/23 08:10 Matrix: Water

Date Collected: 06/14/23 08:10 Date Received: 06/14/23 14:34

 Analyte
 Result
 Qualifier
 RL
 MDL
 Unit
 D
 Prepared
 Analyzed
 Dil Fac

 Mercury
 ND
 0.20
 0.061
 ug/L
 06/27/23 14:45
 06/27/23 23:24
 1

Client Sample ID: 2022-02-03 Lab Sample ID: 280-177856-4

Date Collected: 06/14/23 08:10

Date Received: 06/14/23 14:34

 Analyte
 Result Mercury
 Qualifier
 RL O.20
 MDL Unit Ug/L
 D O.27/23 14:45
 Analyzed O6/27/23 23:27
 Dil Fac O6/27/23 14:45

General Chemistry

Client Sample ID: 2022-01 Lab Sample ID: 280-177856-1
Date Collected: 06/14/23 07:30 Matrix: Water

Date Collected: 06/14/23 07:30 Date Received: 06/14/23 14:34

Analyte Result Qualifier RL **MDL** Unit D Prepared Analyzed Dil Fac 20 2.0 umhos/cm 06/27/23 07:51 Specific Conductance (SM 2510B) 44 **Total Suspended Solids (SM** 4.0 mg/L 06/21/23 16:51 1.6 J 2540D) Chromium, hexavalent (SM 3500 CR ND 0.020 0.0040 mg/L 06/14/23 16:19 0.1 SU pH adj. to 25 deg C (SM 4500 H+ B 7.5 HF 0.1 06/19/23 16:16 Temperature (SM 4500 H+ B) 21.1 HF 1.0 1.0 Degrees C 06/19/23 16:16 Sulfide (SM 4500 S2 D) ND 0.050 0.022 mg/L 06/15/23 13:58 Un-ionized Hydrogen Sulfide (SM4500 ND 1.0 1.0 mg/L 06/16/23 12:05 Field pH (SM4500 S2 H) 7.5 1.0 1.0 SU 06/16/23 12:05 1.0 1.0 Celsius 06/16/23 12:05 Field Temperature (SM4500 S2 H) 21 Specific Conductance (SM4500 S2 2.0 umhos/cm 44 2.0 06/16/23 12:05 Sulfide (SM4500 S2 H) ND 1.0 06/16/23 12:05 1.0 mg/L

Client Sample ID: 2022-02

Date Collected: 06/14/23 08:10

Lab Sample ID: 280-177856-2

Matrix: Water

Date Received: 06/14/23 14:34

Analyte Result Qualifier RL **MDL** Unit D Prepared Analyzed Dil Fac Specific Conductance (SM 2510B) 78 2.0 2.0 umhos/cm 06/27/23 07:51 **Total Suspended Solids (SM** 06/21/23 16:51 1.1 mg/L 3.6 J 4.0 2540D) 0.0040 mg/L Chromium, hexavalent (SM 3500 CR NΠ 0.020 06/14/23 16:15 0.1 SU pH adj. to 25 deg C (SM 4500 H+ B) 7.3 HF 0.1 06/20/23 21:10

Eurofins Denver

Matrix: Water

Client: Grand Island Resources Job ID: 280-177856-1

Project/Site: Nederland, CO

General Chemistry (Continued)

Client Sample ID: 2022-02 Date Collected: 06/14/23 08:10							Lab San	•	ple ID: 280-177856-2 Matrix: Water	
Date Received: 06/14/23 14:34 Analyte	Result	Qualifier	RL	MDI	Unit	D	Prepared	Analyzed	Dil Fac	
Temperature (SM 4500 H+ B)	21.9		1.0		Degrees C	_ =	Порагоа	06/20/23 21:10	1	
Sulfide (SM 4500 S2 D)	ND		0.050	0.022	mg/L			06/15/23 13:56	1	
Un-ionized Hydrogen Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			06/16/23 12:05	1	
Field pH (SM4500 S2 H)	7.3		1.0	1.0	SU			06/16/23 12:05	1	
Field Temperature (SM4500 S2 H)	22		1.0	1.0	Celsius			06/16/23 12:05	1	
Specific Conductance (SM4500 S2 H)	78		2.0	2.0	umhos/cm			06/16/23 12:05	1	
Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			06/16/23 12:05	1	

Client Sample ID: 2022-02-02 Date Collected: 06/14/23 08:10							Lab San	nple ID: 280-17 Matrix	7856-3 : Water
Date Received: 06/14/23 14:34									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (SM 2510B)	77		2.0	2.0	umhos/cm			06/27/23 07:51	1
Total Suspended Solids (SM	2.2	1	4.0	11	ma/l			06/21/23 16:51	1

Analyte	Result	Qualifier	KL	MDL	Unit	ט	Prepared	Analyzeu	DII Fac
Specific Conductance (SM 2510B)	77		2.0	2.0	umhos/cm			06/27/23 07:51	1
Total Suspended Solids (SM 2540D)	3.2	J	4.0	1.1	mg/L			06/21/23 16:51	1
Chromium, hexavalent (SM 3500 CR B)	ND		0.020	0.0040	mg/L			06/14/23 16:19	1
pH adj. to 25 deg C (SM 4500 H+ B	7.9	HF	0.1	0.1	SU			06/20/23 20:53	1
Temperature (SM 4500 H+ B)	22.1	HF	1.0	1.0	Degrees C			06/20/23 20:53	1
Sulfide (SM 4500 S2 D)	ND		0.050	0.022	mg/L			06/15/23 13:57	1
Un-ionized Hydrogen Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			06/16/23 12:05	1
Field pH (SM4500 S2 H)	7.9		1.0	1.0	SU			06/16/23 12:05	1
Field Temperature (SM4500 S2 H)	22		1.0	1.0	Celsius			06/16/23 12:05	1
Specific Conductance (SM4500 S2 H)	77		2.0	2.0	umhos/cm			06/16/23 12:05	1
Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			06/16/23 12:05	1

Client Sample ID: 2022-02-03	Lab Sample ID: 280-177856-4
Date Collected: 06/14/23 08:10	Matrix: Water
Data Bassiyadı 06/44/22 44/24	

Date Received: 06/14/23 14:34									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (SM 2510B)	ND	·	2.0	2.0	umhos/cm			06/27/23 07:51	1
Total Suspended Solids (SM 2540D)	ND		4.0	1.1	mg/L			06/21/23 16:51	1
Chromium, hexavalent (SM 3500 CR B)	ND		0.020	0.0040	mg/L			06/14/23 16:22	1
pH adj. to 25 deg C (SM 4500 H+ B	8.5	HF	0.1	0.1	SU			06/20/23 21:04	1
Temperature (SM 4500 H+ B)	22.1	HF	1.0	1.0	Degrees C			06/20/23 21:04	1
Sulfide (SM 4500 S2 D)	ND		0.050	0.022	mg/L			06/15/23 13:58	1
Un-ionized Hydrogen Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			06/16/23 12:05	1
Field pH (SM4500 S2 H)	8.5		1.0	1.0	SU			06/16/23 12:05	1
Field Temperature (SM4500 S2 H)	22		1.0	1.0	Celsius			06/16/23 12:05	1
Specific Conductance (SM4500 S2 H)	ND		2.0	2.0	umhos/cm			06/16/23 12:05	1
Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			06/16/23 12:05	1

Eurofins Denver

Client: Grand Island Resources Job ID: 280-177856-1

Project/Site: Nederland, CO

Client Sample ID: 2022-01 Date Collected: 06/14/23 07:30							Lab San	nple ID: 280-17 Matrix:	
Date Received: 06/14/23 14:34 Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, trivalent (SM3500 CR B)	ND		0.020	0.020	mg/L		<u> </u>	06/27/23 18:42	1
Client Sample ID: 2022-02							Lab San	nple ID: 280-17	7856-2
Date Collected: 06/14/23 08:10								. Matrix:	
Date Received: 06/14/23 14:34									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, trivalent (SM3500 CR B)	ND		0.020	0.020	mg/L			06/27/23 18:42	1
Client Sample ID: 2022-02-02							Lab San	nple ID: 280-17	7856-3
Date Collected: 06/14/23 08:10								Matrix:	Water
Date Received: 06/14/23 14:34									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, trivalent (SM3500 CR B)	ND		0.020	0.020	mg/L			06/27/23 18:42	1
Client Sample ID: 2022-02-03							Lab San	nple ID: 280-17	7856-4
Date Collected: 06/14/23 08:10								Matrix:	
Date Received: 06/14/23 14:34									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, trivalent (SM3500 CR B)	ND		0.020	0.020	mg/L			06/27/23 18:42	1

General Chemistry - Dissolved

Client Sample ID: 2022-01

Date Collected: 06/14/23 08:10

Date Received: 06/14/23 14:34

Chromium, hexavalent (SM 3500 CR

B)

Date Collected: 06/14/23 07:30 Date Received: 06/14/23 14:34								Matrix	: Water
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent (SM 3500 CR B)	ND		0.020	0.0040	mg/L			06/14/23 16:07	1
Client Sample ID: 2022-02							Lab San	nple ID: 280-17	77856-2
Date Collected: 06/14/23 08:10								Matrix	: Water
Date Received: 06/14/23 14:34									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent (SM 3500 CR B)	ND	F1	0.020	0.0040	mg/L			06/14/23 16:03	1
Client Sample ID: 2022-02-02							Lab San	nple ID: 280-17	77856-3
Date Collected: 06/14/23 08:10								. Matrix	: Water
Date Received: 06/14/23 14:34									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent (SM 3500 CR B)	ND		0.020	0.0040	mg/L			06/14/23 16:08	1
Client Sample ID: 2022-02-03							Lab San	nple ID: 280-17	77856-4

RL

0.020

MDL Unit

0.0040 mg/L

Result Qualifier

ND

Lab Sample ID: 280-177856-1

06/14/23 16:09

Matrix: Water

Analyzed

Prepared

Client: Grand Island Resources Job ID: 280-177856-1

Project/Site: Nederland, CO

General C	hemist	ry - F	otent	tially I	Dissol	ved
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Client Sample ID: 2022-01 Date Collected: 06/14/23 07:30							Lab Sam	nple ID: 280-1 Matrix	77856-1 c: Water
Date Received: 06/14/23 14:34						_			
Analyte		Qualifier	RL _	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, trivalent (dissolved) _(SM3500 CR B)	ND		0.020	0.020	mg/L			06/27/23 18:42	1
Client Sample ID: 2022-02 Date Collected: 06/14/23 08:10 Date Received: 06/14/23 14:34							Lab Sam	nple ID: 280-1 Matrix	77856-2 c: Water
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, trivalent (dissolved) (SM3500 CR B)	ND		0.020	0.020	mg/L			06/27/23 18:42	1
Client Sample ID: 2022-02-02							Lab Sam	ple ID: 280-1	77856-3
Date Collected: 06/14/23 08:10								•	: Water
Date Received: 06/14/23 14:34									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, trivalent (dissolved) (SM3500 CR B)	ND		0.020	0.020	mg/L			06/27/23 18:42	1
Client Sample ID: 2022-02-03 Date Collected: 06/14/23 08:10							Lab Sam	nple ID: 280-1 Matrix	77856-4 c: Water

	cted: 06/14/23 08:10								Matrix:	Water
Date Rece	ived: 06/14/23 14:34									
Analyte		Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, tri	valent (dissolved)	ND		0.020	0.020	mg/L			06/27/23 18:42	1
(SM3500 CR	B)									

6/29/2023

Client: Grand Island Resources Job ID: 280-177856-1

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 400-631114/3-A Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 631187

Project/Site: Nederland, CO

Prep Type: Total/NA Prep Batch: 631114

MB MB

Result Qualifier RL **MDL** Unit Analyzed Dil Fac Analyte Prepared 0.50 06/27/23 16:00 06/28/23 10:02 Mercury ND 0.20 ng/L

Lab Sample ID: LCS 400-631114/4-A **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 631187

Analyte

Mercury

Prep Batch: 631114 Spike LCS LCS %Rec Added Result Qualifier D %Rec Limits Unit 5.00 5.25 105 79 - 121 ng/L

Lab Sample ID: LCSD 400-631114/5-A Client Sample ID: Lab Control Sample Dup **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 631187

Prep Batch: 631114 Spike LCSD LCSD %Rec **RPD** Added Result Qualifier Limits RPD Limit Analyte Unit D %Rec Mercury 5.00 5.30 79 - 121 ng/L

Lab Sample ID: 280-177856-2 MS Client Sample ID: 2022-02 Prep Type: Total/NA

Matrix: Water

Analysis Batch: 631187 Prep Batch: 631114 Spike MS MS %Rec Sample Sample Result Qualifier Added Result Qualifier Unit %Rec Limits

Analyte 5.00 12.0 Mercury 7.1 ng/L 71 - 125

MB MB

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 280-616151/1-A

Matrix: Water

Analysis Batch: 616917

Prep Type: Total Recoverable Prep Batch: 616151

ug/L

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

85 - 115

Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac 06/19/23 14:45 06/20/23 23:45 Iron 21.3 J 100 9.1 ug/L

Lab Sample ID: LCS 280-616151/2-A

Matrix: Water Prep Type: Total Recoverable Analysis Batch: 616917 Prep Batch: 616151 LCS LCS Spike %Rec

Added Result Qualifier Analyte Unit %Rec Limits 10000 85 - 115 Iron 10100 101 ug/L

Lab Sample ID: LCSD 280-616151/3-A

Iron

Analysis Batch: 616917

Client Sample ID: Lab Control Sample Dup **Matrix: Water Prep Type: Total Recoverable Prep Batch: 616151** LCSD LCSD Spike %Rec **RPD** Analyte Added Result Qualifier Unit %Rec Limits RPD Limit 10000 10200 102

Eurofins Denver

6/29/2023

Client: Grand Island Resources Job ID: 280-177856-1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Client Sample ID: 2022-02 Lab Sample ID: 280-177856-2 MS **Prep Type: Total Recoverable Matrix: Water**

Analysis Batch: 616917 Prep Batch: 616151 Sample Sample Spike MS MS %Rec

Result Qualifier Added Result Qualifier Limits Analyte Unit D %Rec 10000 Iron 310 B 10300 ug/L 99 70 - 130

Lab Sample ID: 280-177856-2 MSD Client Sample ID: 2022-02

Matrix: Water Prep Type: Total Recoverable

Analysis Batch: 616917 **Prep Batch: 616151** Sample Sample Spike MSD MSD %Rec **RPD** Result Qualifier Added Limits RPD

Analyte Result Qualifier D %Rec Limit Unit 310 B 10000 Iron 10200 ug/L 99 70 - 130 0 20

Method: 200.8 - Metals (ICP/MS)

Project/Site: Nederland, CO

Lab Sample ID: MB 280-616151/1-A Client Sample ID: Method Blank **Matrix: Water Prep Type: Total Recoverable**

Prep Batch: 616151 Analysis Batch: 616944

MB MB Analyte Result Qualifier RL **MDL** Unit D Dil Fac Prepared Analyzed Arsenic ND ^+ 5.0 0.50 ug/L 06/19/23 14:45 06/21/23 00:05 Cadmium ND 1.0 0.19 ug/L 06/19/23 14:45 06/21/23 00:05 Chromium ND 3.0 0.50 ug/L 06/19/23 14:45 06/21/23 00:05 Copper ND 2.0 0.71 ug/L 06/19/23 14:45 06/21/23 00:05 ND 1.0 0.23 ug/L 06/19/23 14:45 06/21/23 00:05 Lead Zinc 06/19/23 14:45 06/21/23 00:05

Lab Sample ID: LCS 280-616151/28-A **Client Sample ID: Lab Control Sample Matrix: Water Prep Type: Total Recoverable**

10

2.0 ug/L

ND

Analysis Batch: 616944 **Prep Batch: 616151** Chika

	эріке	LUS	LUS				70KeC	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Arsenic	40.0	40.3	^+	ug/L		101	89 - 111	
Cadmium	40.0	38.7		ug/L		97	89 - 111	
Chromium	40.0	39.5		ug/L		99	86 - 115	
Copper	40.0	39.9		ug/L		100	90 - 115	
Lead	40.0	38.9		ug/L		97	88 - 115	
Zinc	40.0	37.6		ug/L		94	88 - 115	

Lab Sample ID: LCSD 280-616151/29-A Client Sample ID: Lab Control Sample Dup

Matrix: Water Prep Type: Total Recoverable

Analysis Batch: 616944 **Prep Batch: 616151**

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Arsenic	40.0	39.5	^+	ug/L		99	89 - 111	2	20
Cadmium	40.0	39.7		ug/L		99	89 - 111	2	20
Chromium	40.0	39.5		ug/L		99	86 - 115	0	20
Copper	40.0	39.2		ug/L		98	90 - 115	2	20
Lead	40.0	39.3		ug/L		98	88 - 115	1	20
Zinc	40.0	36.7		ug/L		92	88 - 115	2	20

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Client: Grand Island Resources Project/Site: Nederland, CO

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: 280-177856-2 MS

Matrix: Water

Analysis Batch: 616944

Client Sample ID: 2022-02 **Prep Type: Total Recoverable**

Prep Batch: 616151

•	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Arsenic	ND		40.0	37.6		ug/L		94	79 - 120	
Cadmium	ND		40.0	38.6		ug/L		97	89 - 111	
Chromium	ND		40.0	38.8		ug/L		97	86 - 115	
Copper	2.6		40.0	40.5		ug/L		95	90 - 115	
Lead	2.6		40.0	41.6		ug/L		97	88 - 115	
Zinc	14	F1	40.0	46.8	F1	ug/L		82	88 - 115	

Lab Sample ID: 280-177856-2 MSD

Matrix: Water

Analysis Batch: 616944

Client Sample ID: 2022-02 **Prep Type: Total Recoverable**

Prep Batch: 616151

	Sample S	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result (Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Arsenic	ND		40.0	38.7		ug/L		97	79 - 120	3	20
Cadmium	ND		40.0	38.3		ug/L		96	89 - 111	1	20
Chromium	ND		40.0	38.7		ug/L		97	86 - 115	0	20
Copper	2.6		40.0	40.5		ug/L		95	90 - 115	0	20
Lead	2.6		40.0	41.5		ug/L		97	88 - 115	0	20
Zinc	14 I	F1	40.0	47.8	F1	ug/L		84	88 - 115	2	20

Lab Sample ID: MB 280-616494/1-B

Matrix: Water

Analysis Batch: 617210

Client Sample ID: Method Blank **Prep Type: Potentially Dissolved**

Prep Batch: 616728

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		06/20/23 14:40	06/22/23 19:53	1
Cadmium	ND		1.0	0.19	ug/L		06/20/23 14:40	06/22/23 19:53	1
Chromium	0.501	J	3.0	0.50	ug/L		06/20/23 14:40	06/22/23 19:53	1
Copper	ND		2.0	0.71	ug/L		06/20/23 14:40	06/22/23 19:53	1
Lead	ND		1.0	0.23	ug/L		06/20/23 14:40	06/22/23 19:53	1
Manganese	ND		3.0	0.51	ug/L		06/20/23 14:40	06/22/23 19:53	1
Nickel	ND		3.0	0.83	ug/L		06/20/23 14:40	06/22/23 19:53	1
Selenium	ND		5.0	1.0	ug/L		06/20/23 14:40	06/22/23 19:53	1
Silver	ND		0.50	0.045	ug/L		06/20/23 14:40	06/22/23 19:53	1
Zinc	3.75	J	10	2.0	ug/L		06/20/23 14:40	06/22/23 19:53	1

Lab Sample ID: LCS 280-616494/2-B

Matrix: Water

Analysis Batch: 617210

Client Sample ID: Lab Control Sample Prep Type: Potentially Dissolved

Prep Batch: 616728

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Arsenic	40.0	41.5		ug/L		104	89 - 111	
Cadmium	40.0	41.6		ug/L		104	89 - 111	
Chromium	40.0	41.5		ug/L		104	86 - 115	
Copper	40.0	40.8		ug/L		102	90 - 115	
Lead	40.0	39.7		ug/L		99	88 - 115	
Manganese	40.0	40.8		ug/L		102	87 - 115	
Nickel	40.0	38.9		ug/L		97	86 - 115	
Selenium	40.0	39.6		ug/L		99	85 - 114	
Silver	40.0	40.2		ug/L		100	90 - 114	

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Client: Grand Island Resources Job ID: 280-177856-1

Project/Site: Nederland, CO

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 280-616494/2-B **Client Sample ID: Lab Control Sample Matrix: Water Prep Type: Potentially Dissolved Analysis Batch: 617210 Prep Batch: 616728** LCS LCS %Rec Spike Analyte Added Result Qualifier Unit D %Rec Limits

Lab Sample ID: 280-177856-1 MS Client Sample ID: 2022-01 **Matrix: Water Prep Type: Potentially Dissolved** Analysis Batch: 617210 **Prep Batch: 616728**

42.6

ug/L

107

88 - 115

40.0

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	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Arsenic	ND		40.0	42.1		ug/L		105	79 - 120
Cadmium	ND		40.0	39.4		ug/L		98	89 - 111
Chromium	ND		40.0	40.1		ug/L		100	86 - 115
Copper	1.3	J	40.0	42.4		ug/L		103	90 - 115
Lead	0.30	J	40.0	40.5		ug/L		101	88 - 115
Manganese	8.5		40.0	47.9		ug/L		99	87 - 115
Nickel	ND		40.0	39.4		ug/L		98	86 - 115
Selenium	ND		40.0	39.4		ug/L		99	85 - 114
Silver	ND		40.0	38.5		ug/L		96	70 - 130
Zinc	7.1	JB	40.0	47.3		ug/L		101	88 - 115

Lab Sample ID: 280-177856-1 MSD Client Sample ID: 2022-01

Zinc

Prep Type: Potentially Dissolved Matrix: Water

Analysis Batch: 617210 Analyte Arsenic Cadmium Chromium									Prep Ba	atch: 61	
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Arsenic	ND		40.0	42.0		ug/L		105	79 - 120	0	20
Cadmium	ND		40.0	40.6		ug/L		101	89 - 111	3	20
Chromium	ND		40.0	39.9		ug/L		100	86 - 115	0	20
Copper	1.3	J	40.0	40.6		ug/L		98	90 - 115	4	20
Lead	0.30	J	40.0	40.0		ug/L		99	88 - 115	1	20
Manganese	8.5		40.0	45.9		ug/L		94	87 - 115	4	20
Nickel	ND		40.0	39.4		ug/L		99	86 - 115	0	20
Selenium	ND		40.0	40.9		ug/L		102	85 - 114	4	20
Silver	ND		40.0	39.1		ug/L		98	70 - 130	1	20
Zinc	7.1	JB	40.0	43.6		ua/L		91	88 - 115	8	20

Lab Sample ID: 280-177856-2 MS Client Sample ID: 2022-02 **Prep Type: Potentially Dissolved Matrix: Water**

Analysis Batch: 617210 **Prep Batch: 616728**

Analysis Daton. 017210									1 Tep Daten. 010720
	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Arsenic	ND		40.0	41.6		ug/L		104	79 - 120
Cadmium	ND		40.0	41.1		ug/L		103	89 - 111
Chromium	0.59	JB	40.0	40.4		ug/L		100	86 - 115
Copper	1.9	J	40.0	41.5		ug/L		99	90 - 115
Lead	2.5		40.0	42.3		ug/L		99	88 - 115
Manganese	11		40.0	49.3		ug/L		97	87 - 115
Nickel	ND		40.0	38.9		ug/L		97	86 - 115
Selenium	ND		40.0	38.7		ug/L		97	85 - 114
Silver	0.082	J	40.0	40.3		ug/L		101	70 - 130
Zinc	26	В	40.0	63.5		ug/L		95	88 - 115

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Client: Grand Island Resources Job ID: 280-177856-1 Project/Site: Nederland, CO

Method: 200.8 - Metals (ICP/MS) (Continued)

Matrix: Water Analysis Batch: 617210

Lab Sample ID: 280-177856-2 MSD Client Sample ID: 2022-02 **Prep Type: Potentially Dissolved**

Prep Batch: 616728 %Rec **RPD** %Rec Limits RPD Limit D 108 79 - 1204 20

Sample Sample Spike MSD MSD Result Qualifier Added Result Qualifier Unit Analyte Arsenic ND 40.0 43.3 ug/L Cadmium ND 40.0 40.7 ug/L 102 89 - 111 20 0.59 JB 40.0 Chromium 41.9 ug/L 103 86 - 115 20 1.9 40.0 20 Copper 42.8 ug/L 102 90 - 115 20 Lead 2.5 40.0 42.7 ug/L 101 88 - 115 11 40.0 50.7 ug/L 100 87 - 115 20 Manganese ND 40.0 ug/L 95 Nickel 38.2 86 - 115 20 Selenium ND 40.0 41.2 ug/L 103 85 - 114 6 20 Silver 0.082 J 40.0 39.0 ug/L 97 70 - 130 3 20 Zinc 26 B 40.0 68.1 ug/L 106 88 - 115 20

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 280-617604/1-A **Client Sample ID: Method Blank**

Matrix: Water

Analysis Batch: 617768 MB MB

MDL Unit RLAnalyte Result Qualifier Prepared Analyzed Dil Fac Mercury ND 0.20 0.061 ug/L 06/27/23 14:45 06/27/23 22:18

Lab Sample ID: LCS 280-617604/2-A **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA **Analysis Batch: 617768** Prep Batch: 617604 LCS LCS Spike %Rec

Limits Analyte Added Result Qualifier Unit %Rec Mercury 5.00 5.12 102 90 - 110 ug/L

Lab Sample ID: LCSD 280-617604/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Water Prep Type: Total/NA Analysis Batch: 617768 Prep Batch: 617604** Spike LCSD LCSD %Rec Added **Analyte** Result Qualifier Unit %Rec Limits **RPD** Limit 5.00 90 - 110 4.70

Mercury ug/L Lab Sample ID: 280-177856-2 MS Client Sample ID: 2022-02

Matrix: Water Analysis Batch: 617768

Spike MS MS %Rec Sample Sample Result Qualifier Added %Rec Limits Analyte Result Qualifier Unit

Mercury ND 5.00 103 80 - 120 5.15 ug/L

Lab Sample ID: 280-177856-2 MSD

Matrix: Water Prep Type: Total/NA **Analysis Batch: 617768 Prep Batch: 617604**

MSD MSD Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit 80 - 120 Mercury ND 5.00 5.06 ug/L 101

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RPD

Prep Type: Total/NA

Prep Batch: 617604

Prep Batch: 617604

Client: Grand Island Resources Job ID: 280-177856-1 Project/Site: Nederland, CO

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: MB 280-617525/5

Matrix: Water

Analysis Batch: 617525

MB MB

Analyzed Result Qualifier RL **MDL** Unit Dil Fac Analyte D Prepared 2.0 Specific Conductance ND 2.0 umhos/cm 06/27/23 07:51

Lab Sample ID: LCS 280-617525/4

Matrix: Water

Analysis Batch: 617525

Spike LCS LCS %Rec Added Result Qualifier %Rec Limits Analyte Unit D 1360 Specific Conductance 1410 umhos/cm 96 90 - 110

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 280-617026/3

Matrix: Water

Analysis Batch: 617026

MB MB

Result Qualifier Analyte

RL **MDL** Unit Dil Fac Prepared Analyzed **Total Suspended Solids** ND 4.0 1.1 mg/L 06/21/23 16:50

Lab Sample ID: LCS 280-617026/1

Matrix: Water

Analysis Batch: 617026

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Total Suspended Solids 501 401 80 79 - 114 mg/L

Lab Sample ID: LCSD 280-617026/2

Matrix: Water

Analysis Batch: 617026

LCSD LCSD **RPD** Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Total Suspended Solids 465 mg/L 79 - 114 20

Method: SM 3500 CR B - Chromium, Hexavalent

Lab Sample ID: MB 280-616159/23

Matrix: Water

Analysis Batch: 616159

MB MB

Result Qualifier RL **MDL** Unit Prepared Analyzed Chromium, hexavalent $\overline{\mathsf{ND}}$ 0.020 0.0040 mg/L 06/14/23 16:14

Lab Sample ID: LCS 280-616159/21

Matrix: Water

Analysis Batch: 616159

LCS LCS Spike %Rec Added Limits Result Qualifier Unit %Rec 0.100 0.100 Chromium, hexavalent 100 91 - 112 mg/L

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Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Job ID: 280-177856-1

Client: Grand Island Resources Project/Site: Nederland, CO

Method: SM 3500 CR B - Ch	romium, Hexavalent (Continued)

MR MR

Lab Sample ID: LCSD 280-616159/22 Client Sample ID: Lab Control Sample Dup **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 616159

Spike LCSD LCSD %Rec **RPD** Added Result Qualifier Unit %Rec Limits RPD Limit Analyte D 0.100 Chromium, hexavalent 0.0994 mg/L 91 - 112

Lab Sample ID: 280-177856-2 MS Client Sample ID: 2022-02 Prep Type: Total/NA

Matrix: Water

Analysis Batch: 616159

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Unit D %Rec Limits 0.100 Chromium, hexavalent NΠ 0.0931 mg/L 91 _ 112

Lab Sample ID: 280-177856-2 MSD Client Sample ID: 2022-02 Prep Type: Total/NA

Matrix: Water

Analysis Batch: 616159

Sample Sample Spike MSD MSD %Rec **RPD** Result Qualifier Added Result Qualifier Limits RPD Analyte Unit D %Rec Limit Chromium, hexavalent ND 0.100 0.0932 mg/L

Lab Sample ID: 280-177856-2 DU Client Sample ID: 2022-02 Prep Type: Total/NA

Matrix: Water

Analysis Batch: 616159

DU DU **RPD** Sample Sample Analyte Result Qualifier Result Qualifier Unit **RPD** Limit Chromium, hexavalent ND ND mg/L

Lab Sample ID: MB 280-616147/3-A Client Sample ID: Method Blank **Matrix: Water Prep Type: Dissolved**

Analysis Batch: 616159

RL **MDL** Unit Analyte Result Qualifier Prepared Analyzed Dil Fac Chromium, hexavalent 0.020 0.0040 mg/L 06/14/23 16:02 ND

Lab Sample ID: LCS 280-616147/1-A **Client Sample ID: Lab Control Sample Matrix: Water Prep Type: Dissolved**

Analysis Batch: 616159

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit %Rec Limits D 0.100 Chromium, hexavalent 0.101 101 91 - 112

Client Sample ID: Lab Control Sample Dup Lab Sample ID: LCSD 280-616147/2-A **Prep Type: Dissolved**

Matrix: Water

Analysis Batch: 616159

Spike LCSD LCSD %Rec **RPD** Added Result Qualifier Unit D Limits RPD Limit %Rec 0.100 0.0978 Chromium, hexavalent mg/L 98 91 - 112

Lab Sample ID: 280-177856-2 MS Client Sample ID: 2022-02 **Prep Type: Dissolved**

Matrix: Water

Analysis Batch: 616159

Spike MS MS %Rec Sample Sample Added Analyte Result Qualifier Result Qualifier Unit %Rec Limits ND F1 91 - 112 Chromium, hexavalent 0.100 0.0786 F1 mg/L 79

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6/29/2023

Client: Grand Island Resources Job ID: 280-177856-1 Project/Site: Nederland, CO

Method: SM 3500 CR B - Chromium, Hexavalent

Lab Sample ID: 280-177856-2 MSD Client Sample ID: 2022-02 **Prep Type: Dissolved**

Matrix: Water

Analysis Batch: 616159

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chromium, hexavalent	ND	F1	0.100	0.0790	F1	mg/L	_	79	91 - 112	1	20

Lab Sample ID: 280-177856-2 DU Client Sample ID: 2022-02 **Prep Type: Dissolved**

Matrix: Water

Analysis Batch: 616159

Sample Sample DU DU **RPD** Result Qualifier Analyte Result Qualifier Unit D RPD Limit ND F1 ND Chromium, hexavalent mg/L NC 20

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 280-616727/31 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 616727

-		Spike	LCS	LCS				%Rec	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	
pH adj. to 25 deg C		7.00	7.1		SU	_	101	99 - 101	

Lab Sample ID: LCS 280-616882/31 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 616882

•	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
pH adj. to 25 deg C	7.00	7.1		SU		101	99 - 101	

Method: SM 4500 S2 D - Sulfide, Total

Lab Sample ID: MB 280-616303/11 **Client Sample ID: Method Blank Matrix: Water** Prep Type: Total/NA

Analysis Batch: 616303

MB MB Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Sulfide ND 0.050 0.022 mg/L 06/15/23 13:56

Lab Sample ID: LCS 280-616303/9 **Client Sample ID: Lab Control Sample Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 616303

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits Sulfide 0.501 0.477 mg/L 95 81 - 122

Lab Sample ID: LCSD 280-616303/10 **Client Sample ID: Lab Control Sample Dup Matrix: Water** Prep Type: Total/NA

Analysis Batch: 616303

	Spike	LCSD	LCSD			%Rec		RPD
Analyte	Added	Result	Qualifier l	Unit D	%Rec	Limits	RPD	Limit
Sulfide	0.501	0.477	r	mg/L	95	81 - 122	0	10

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QC Sample Results

Client: Grand Island Resources Job ID: 280-177856-1 Project/Site: Nederland, CO

Method: SM 4500 S2 D - Sulfide, Total (Continued)

Lab Sample ID: 280-177856-2 MS Client Sample ID: 2022-02 **Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 616303

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Sulfide	ND		0.501	0.485		mg/L		97	81 - 122	

Lab Sample ID: 280-177856-2 MSD Client Sample ID: 2022-02 Prep Type: Total/NA

Matrix: Water

Analysis Batch: 616303

	Sample S	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result C	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Sulfide	ND		0.501	0.514		mg/L		102	81 - 122	6	10

Client: Grand Island Resources

Job ID: 280-177856-1

Project/Site: Nederland, CO

Metals

Prep Batch: 616151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-177856-1	2022-01	Total Recoverable	Water	200.8	
280-177856-2	2022-02	Total Recoverable	Water	200.7	
280-177856-2	2022-02	Total Recoverable	Water	200.8	
280-177856-3	2022-02-02	Total Recoverable	Water	200.8	
280-177856-4	2022-02-03	Total Recoverable	Water	200.8	
MB 280-616151/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-616151/28-A	Lab Control Sample	Total Recoverable	Water	200.8	
LCS 280-616151/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
LCSD 280-616151/29-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	
LCSD 280-616151/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	
280-177856-2 MS	2022-02	Total Recoverable	Water	200.7	
280-177856-2 MS	2022-02	Total Recoverable	Water	200.8	
280-177856-2 MSD	2022-02	Total Recoverable	Water	200.7	
280-177856-2 MSD	2022-02	Total Recoverable	Water	200.8	

Filtration Batch: 616494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-177856-1	2022-01	Potentially Dissolved	Water	Poten_Diss_Met	
280-177856-2	2022-02	Potentially Dissolvec	Water	Poten_Diss_Met	
280-177856-3	2022-02-02	Potentially Dissolvec	Water	Poten_Diss_Met	
280-177856-4	2022-02-03	Potentially Dissolvec	Water	Poten_Diss_Met	
MB 280-616494/1-B	Method Blank	Potentially Dissolvec	Water	Poten_Diss_Met	
LCS 280-616494/2-B	Lab Control Sample	Potentially Dissolvec	Water	Poten_Diss_Met	
280-177856-1 MS	2022-01	Potentially Dissolvec	Water	Poten_Diss_Met	
280-177856-1 MSD	2022-01	Potentially Dissolvec	Water	Poten_Diss_Met	
280-177856-2 MS	2022-02	Potentially Dissolvec	Water	Poten_Diss_Met	
280-177856-2 MSD	2022-02	Potentially Dissolvec	Water	Poten_Diss_Met	

Prep Batch: 616728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-177856-1	2022-01	Potentially Dissolved	Water	200.8	616494
280-177856-2	2022-02	Potentially Dissolvec	Water	200.8	616494
280-177856-3	2022-02-02	Potentially Dissolvec	Water	200.8	616494
280-177856-4	2022-02-03	Potentially Dissolvec	Water	200.8	616494
MB 280-616494/1-B	Method Blank	Potentially Dissolvec	Water	200.8	616494
LCS 280-616494/2-B	Lab Control Sample	Potentially Dissolvec	Water	200.8	616494
280-177856-1 MS	2022-01	Potentially Dissolvec	Water	200.8	616494
280-177856-1 MSD	2022-01	Potentially Dissolvec	Water	200.8	616494
280-177856-2 MS	2022-02	Potentially Dissolvec	Water	200.8	616494
280-177856-2 MSD	2022-02	Potentially Dissolved	Water	200.8	616494

Analysis Batch: 616917

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-177856-1	2022-01	Total Recoverable	Water	200.7 Rev 4.4	616151
280-177856-2	2022-02	Total Recoverable	Water	200.7 Rev 4.4	616151
280-177856-3	2022-02-02	Total Recoverable	Water	200.7 Rev 4.4	616151
280-177856-4	2022-02-03	Total Recoverable	Water	200.7 Rev 4.4	616151
MB 280-616151/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	616151
LCS 280-616151/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	616151
LCSD 280-616151/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	616151
280-177856-2 MS	2022-02	Total Recoverable	Water	200.7 Rev 4.4	616151

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Client: Grand Island Resources Project/Site: Nederland, CO

Job ID: 280-177856-1

Metals (Continued)

Analysis Batch: 616917 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-177856-2 MSD	2022-02	Total Recoverable	Water	200.7 Rev 4.4	616151

Analysis Batch: 616944

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-177856-1	2022-01	Total Recoverable	Water	200.8	616151
280-177856-2	2022-02	Total Recoverable	Water	200.8	616151
280-177856-3	2022-02-02	Total Recoverable	Water	200.8	616151
280-177856-4	2022-02-03	Total Recoverable	Water	200.8	616151
MB 280-616151/1-A	Method Blank	Total Recoverable	Water	200.8	616151
LCS 280-616151/28-A	Lab Control Sample	Total Recoverable	Water	200.8	616151
LCSD 280-616151/29-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	616151
280-177856-2 MS	2022-02	Total Recoverable	Water	200.8	616151
280-177856-2 MSD	2022-02	Total Recoverable	Water	200.8	616151

Analysis Batch: 617210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-177856-1	2022-01	Potentially Dissolved	Water	200.8	616728
280-177856-2	2022-02	Potentially Dissolved	Water	200.8	616728
280-177856-3	2022-02-02	Potentially Dissolved	Water	200.8	616728
280-177856-4	2022-02-03	Potentially Dissolved	Water	200.8	616728
MB 280-616494/1-B	Method Blank	Potentially Dissolved	Water	200.8	616728
LCS 280-616494/2-B	Lab Control Sample	Potentially Dissolvec	Water	200.8	616728
280-177856-1 MS	2022-01	Potentially Dissolved	Water	200.8	616728
280-177856-1 MSD	2022-01	Potentially Dissolved	Water	200.8	616728
280-177856-2 MS	2022-02	Potentially Dissolvec	Water	200.8	616728
280-177856-2 MSD	2022-02	Potentially Dissolved	Water	200.8	616728

Prep Batch: 617604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-177856-1	2022-01	Total/NA	Water	245.1	
280-177856-2	2022-02	Total/NA	Water	245.1	
280-177856-3	2022-02-02	Total/NA	Water	245.1	
280-177856-4	2022-02-03	Total/NA	Water	245.1	
MB 280-617604/1-A	Method Blank	Total/NA	Water	245.1	
LCS 280-617604/2-A	Lab Control Sample	Total/NA	Water	245.1	
LCSD 280-617604/3-A	Lab Control Sample Dup	Total/NA	Water	245.1	
280-177856-2 MS	2022-02	Total/NA	Water	245.1	
280-177856-2 MSD	2022-02	Total/NA	Water	245.1	

Analysis Batch: 617768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-177856-1	2022-01	Total/NA	Water	245.1	617604
280-177856-2	2022-02	Total/NA	Water	245.1	617604
280-177856-3	2022-02-02	Total/NA	Water	245.1	617604
280-177856-4	2022-02-03	Total/NA	Water	245.1	617604
MB 280-617604/1-A	Method Blank	Total/NA	Water	245.1	617604
LCS 280-617604/2-A	Lab Control Sample	Total/NA	Water	245.1	617604
LCSD 280-617604/3-A	Lab Control Sample Dup	Total/NA	Water	245.1	617604
280-177856-2 MS	2022-02	Total/NA	Water	245.1	617604
280-177856-2 MSD	2022-02	Total/NA	Water	245.1	617604

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Client: Grand Island Resources Job ID: 280-177856-1 Project/Site: Nederland, CO

Metals

Prep Batch: 631114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-177856-1	2022-01	Total/NA	Water	1631E	
280-177856-2	2022-02	Total/NA	Water	1631E	
280-177856-3	2022-02-02	Total/NA	Water	1631E	
280-177856-4	2022-02-03	Total/NA	Water	1631E	
MB 400-631114/3-A	Method Blank	Total/NA	Water	1631E	
LCS 400-631114/4-A	Lab Control Sample	Total/NA	Water	1631E	
LCSD 400-631114/5-A	Lab Control Sample Dup	Total/NA	Water	1631E	
280-177856-2 MS	2022-02	Total/NA	Water	1631E	

Analysis Batch: 631187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-177856-1	2022-01	Total/NA	Water	1631E	631114
280-177856-2	2022-02	Total/NA	Water	1631E	631114
280-177856-3	2022-02-02	Total/NA	Water	1631E	631114
280-177856-4	2022-02-03	Total/NA	Water	1631E	631114
MB 400-631114/3-A	Method Blank	Total/NA	Water	1631E	631114
LCS 400-631114/4-A	Lab Control Sample	Total/NA	Water	1631E	631114
LCSD 400-631114/5-A	Lab Control Sample Dup	Total/NA	Water	1631E	631114
280-177856-2 MS	2022-02	Total/NA	Water	1631E	631114

General Chemistry

Filtration Batch: 616147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-177856-1	2022-01	Dissolved	Water	FILTRATION	
280-177856-2	2022-02	Dissolved	Water	FILTRATION	
280-177856-3	2022-02-02	Dissolved	Water	FILTRATION	
280-177856-4	2022-02-03	Dissolved	Water	FILTRATION	
MB 280-616147/3-A	Method Blank	Dissolved	Water	FILTRATION	
LCS 280-616147/1-A	Lab Control Sample	Dissolved	Water	FILTRATION	
LCSD 280-616147/2-A	Lab Control Sample Dup	Dissolved	Water	FILTRATION	
280-177856-2 MS	2022-02	Dissolved	Water	FILTRATION	
280-177856-2 MSD	2022-02	Dissolved	Water	FILTRATION	
280-177856-2 DU	2022-02	Dissolved	Water	FILTRATION	

Analysis Batch: 616159

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-177856-1	2022-01	Dissolved	Water	SM 3500 CR B	616147
280-177856-1	2022-01	Total/NA	Water	SM 3500 CR B	
280-177856-2	2022-02	Dissolved	Water	SM 3500 CR B	616147
280-177856-2	2022-02	Total/NA	Water	SM 3500 CR B	
280-177856-3	2022-02-02	Dissolved	Water	SM 3500 CR B	616147
280-177856-3	2022-02-02	Total/NA	Water	SM 3500 CR B	
280-177856-4	2022-02-03	Dissolved	Water	SM 3500 CR B	616147
280-177856-4	2022-02-03	Total/NA	Water	SM 3500 CR B	
MB 280-616147/3-A	Method Blank	Dissolved	Water	SM 3500 CR B	616147
MB 280-616159/23	Method Blank	Total/NA	Water	SM 3500 CR B	
LCS 280-616147/1-A	Lab Control Sample	Dissolved	Water	SM 3500 CR B	616147
LCS 280-616159/21	Lab Control Sample	Total/NA	Water	SM 3500 CR B	
LCSD 280-616147/2-A	Lab Control Sample Dup	Dissolved	Water	SM 3500 CR B	616147
LCSD 280-616159/22	Lab Control Sample Dup	Total/NA	Water	SM 3500 CR B	

Eurofins Denver

Client: Grand Island Resources

Job ID: 280-177856-1

Project/Site: Nederland, CO

General Chemistry (Continued)

Analysis Batch: 616159 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-177856-2 MS	2022-02	Dissolved	Water	SM 3500 CR B	616147
280-177856-2 MS	2022-02	Total/NA	Water	SM 3500 CR B	
280-177856-2 MSD	2022-02	Dissolved	Water	SM 3500 CR B	616147
280-177856-2 MSD	2022-02	Total/NA	Water	SM 3500 CR B	
280-177856-2 DU	2022-02	Dissolved	Water	SM 3500 CR B	616147
280-177856-2 DU	2022-02	Total/NA	Water	SM 3500 CR B	

Analysis Batch: 616303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-177856-1	2022-01	Total/NA	Water	SM 4500 S2 D	
280-177856-2	2022-02	Total/NA	Water	SM 4500 S2 D	
280-177856-3	2022-02-02	Total/NA	Water	SM 4500 S2 D	
280-177856-4	2022-02-03	Total/NA	Water	SM 4500 S2 D	
MB 280-616303/11	Method Blank	Total/NA	Water	SM 4500 S2 D	
LCS 280-616303/9	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
LCSD 280-616303/10	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 D	
280-177856-2 MS	2022-02	Total/NA	Water	SM 4500 S2 D	
280-177856-2 MSD	2022-02	Total/NA	Water	SM 4500 S2 D	

Analysis Batch: 616432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-177856-1	2022-01	Total/NA	Water	SM4500 S2 H	
280-177856-2	2022-02	Total/NA	Water	SM4500 S2 H	
280-177856-3	2022-02-02	Total/NA	Water	SM4500 S2 H	
280-177856-4	2022-02-03	Total/NA	Water	SM4500 S2 H	

Analysis Batch: 616727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-177856-1	2022-01	Total/NA	Water	SM 4500 H+ B	
LCS 280-616727/31	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 616882

Lab Sa	ımple ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-17	7856-2	2022-02	Total/NA	Water	SM 4500 H+ B	
280-17	7856-3	2022-02-02	Total/NA	Water	SM 4500 H+ B	
280-17	7856-4	2022-02-03	Total/NA	Water	SM 4500 H+ B	
LCS 28	30-616882/31	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 617026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-177856-1	2022-01	Total/NA	Water	SM 2540D	
280-177856-2	2022-02	Total/NA	Water	SM 2540D	
280-177856-3	2022-02-02	Total/NA	Water	SM 2540D	
280-177856-4	2022-02-03	Total/NA	Water	SM 2540D	
MB 280-617026/3	Method Blank	Total/NA	Water	SM 2540D	
LCS 280-617026/1	Lab Control Sample	Total/NA	Water	SM 2540D	
LCSD 280-617026/2	Lab Control Sample Dup	Total/NA	Water	SM 2540D	

Analysis Batch: 617525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-177856-1	2022-01	Total/NA	Water	SM 2510B	

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Client: Grand Island Resources Job ID: 280-177856-1 Project/Site: Nederland, CO

General Chemistry (Continued)

Analysis Batch: 617525 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-177856-2	2022-02	Total/NA	Water	SM 2510B	
280-177856-3	2022-02-02	Total/NA	Water	SM 2510B	
280-177856-4	2022-02-03	Total/NA	Water	SM 2510B	
MB 280-617525/5	Method Blank	Total/NA	Water	SM 2510B	
LCS 280-617525/4	Lab Control Sample	Total/NA	Water	SM 2510B	

Analysis Batch: 617695

La	ab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
28	80-177856-1	2022-01	Potentially Dissolved	Water	SM3500 CR B	
28	80-177856-1	2022-01	Total Recoverable	Water	SM3500 CR B	
28	80-177856-2	2022-02	Potentially Dissolved	Water	SM3500 CR B	
28	80-177856-2	2022-02	Total Recoverable	Water	SM3500 CR B	
28	80-177856-3	2022-02-02	Potentially Dissolved	Water	SM3500 CR B	
28	80-177856-3	2022-02-02	Total Recoverable	Water	SM3500 CR B	
28	80-177856-4	2022-02-03	Potentially Dissolved	Water	SM3500 CR B	
28	80-177856-4	2022-02-03	Total Recoverable	Water	SM3500 CR B	

Job ID: 280-177856-1

Client: Grand Island Resources Project/Site: Nederland, CO

Client Sample ID: 2022-01

Lab Sample ID: 280-177856-1

Matrix: Water

Date Collected: 06/14/23 07:30 Date Received: 06/14/23 14:34

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			40 mL	40 mL	631114	06/27/23 16:25	VLC	EET PEN
							Completed:	06/28/23 08:45	1	
Total/NA	Analysis	1631E		1			631187	06/28/23 13:21	VLC	EET PEN
Total Recoverable	Prep	200.8			50 mL	50 mL	616151	06/19/23 14:45	LJS	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			616917	06/21/23 01:49	ADL	EET DEN
Potentially Dissolved	Filtration	Poten_Diss_Met			250 mL	250 mL	616494	06/16/23 22:30	LRD	EET DEN
Potentially Dissolved	Prep	200.8			50 mL	50 mL	616728	06/20/23 14:40	LJS	EET DEN
Potentially Dissolved	Analysis	200.8		1			617210	06/22/23 20:03	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	616151	06/19/23 14:45	LJS	EET DEN
Total Recoverable	Analysis	200.8		1			616944	06/21/23 00:54	LMT	EET DEN
Total/NA	Prep	245.1			30 mL	50 mL	617604	06/27/23 14:45	KMS	EET DEN
Total/NA	Analysis	245.1		1			617768	06/27/23 23:09	KMS	EET DEN
Total/NA	Analysis	SM 2510B		1			617525	06/27/23 07:51	KEG	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	617026	06/21/23 16:51	CAI	EET DEN
Dissolved	Filtration	FILTRATION			2 mL	2 mL	616147	06/14/23 15:22	LBR	EET DEN
Dissolved	Analysis	SM 3500 CR B		1	2 mL	2 mL	616159	06/14/23 16:07	LBR	EET DEN
Total/NA	Analysis	SM 3500 CR B		1	2 mL	2 mL	616159	06/14/23 16:19	LBR	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			616727	06/19/23 16:16	KEG	EET DEN
Total/NA	Analysis	SM 4500 S2 D		1	2 mL	2 mL	616303	06/15/23 13:58	SL	EET DEN
Potentially Dissolved	Analysis	SM3500 CR B		1			617695	06/27/23 18:42	RMS	EET DEN
Total Recoverable	Analysis	SM3500 CR B		1			617695	06/27/23 18:42	RMS	EET DEN
Total/NA	Analysis	SM4500 S2 H		1			616432	06/16/23 12:05	ZPM	EET DEN

Client Sample ID: 2022-02 Date Collected: 06/14/23 08:10 Date Received: 06/14/23 14:34

Lab Sample ID: 280-177856-2 **Matrix: Water**

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			40 mL	40 mL	631114	06/27/23 16:25	VLC	EET PEN
							Completed:	06/28/23 08:45	1	
Total/NA	Analysis	1631E		1			631187	06/28/23 13:29	VLC	EET PEN
Total Recoverable	Prep	200.7			50 mL	50 mL	616151	06/19/23 14:45	LJS	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			616917	06/21/23 01:54	ADL	EET DEN
Potentially Dissolved	Filtration	Poten_Diss_Met			250 mL	250 mL	616494	06/16/23 22:30	LRD	EET DEN
Potentially Dissolved	Prep	200.8			50 mL	50 mL	616728	06/20/23 14:40	LJS	EET DEN
Potentially Dissolved	Analysis	200.8		1			617210	06/22/23 20:28	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	616151	06/19/23 14:45	LJS	EET DEN
Total Recoverable	Analysis	200.8		1			616944	06/21/23 00:56	LMT	EET DEN
Total/NA	Prep	245.1			30 mL	50 mL	617604	06/27/23 14:45	KMS	EET DEN
Total/NA	Analysis	245.1		1			617768	06/27/23 23:12	KMS	EET DEN
Total/NA	Analysis	SM 2510B		1			617525	06/27/23 07:51	KEG	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	617026	06/21/23 16:51	CAI	EET DEN
Dissolved	Filtration	FILTRATION			2 mL	2 mL	616147	06/14/23 15:22	LBR	EET DEN
Dissolved	Analysis	SM 3500 CR B		1	2 mL	2 mL	616159	06/14/23 16:03	LBR	EET DEN

Eurofins Denver

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Job ID: 280-177856-1

Client: Grand Island Resources Project/Site: Nederland, CO

Client Sample ID: 2022-02

Date Collected: 06/14/23 08:10 Date Received: 06/14/23 14:34

Lab Sample ID: 280-177856-2

Matrix: Water

Batch Batch Dil Initial Batch Final Prepared **Prep Type** Method **Factor** Number or Analyzed Analyst Type Run **Amount** Amount Lab Total/NA Analysis SM 3500 CR B 2 mL 616159 06/14/23 16:15 LBR EET DEN 2 mL Total/NA Analysis SM 4500 H+ B 1 616882 06/20/23 21:10 KEG EET DEN Total/NA Analysis SM 4500 S2 D 1 2 mL 2 mL 616303 06/15/23 13:56 SL EET DEN Potentially Dissolvec Analysis 06/27/23 18:42 RMS **EET DEN** SM3500 CR B 1 617695 Total Recoverable Analysis SM3500 CR B 617695 06/27/23 18:42 RMS **EET DEN** 1 Total/NA Analysis SM4500 S2 H 616432 06/16/23 12:05 ZPM **EET DEN**

Client Sample ID: 2022-02-02 Lab Sample ID: 280-177856-3

Date Collected: 06/14/23 08:10

Matrix: Water

Date Received: 06/14/23 14:34

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			40 mL	40 mL	631114	06/27/23 16:25	VLC	EET PEN
							Completed:	06/28/23 08:45	1	
Total/NA	Analysis	1631E		1			631187	06/28/23 13:44	VLC	EET PEN
Total Recoverable	Prep	200.8			50 mL	50 mL	616151	06/19/23 14:45	LJS	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			616917	06/21/23 02:07	ADL	EET DEN
Potentially Dissolved	Filtration	Poten_Diss_Met			250 mL	250 mL	616494	06/16/23 22:30	LRD	EET DEN
Potentially Dissolved	Prep	200.8			50 mL	50 mL	616728	06/20/23 14:40	LJS	EET DEN
Potentially Dissolved	Analysis	200.8		1			617210	06/22/23 20:39	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	616151	06/19/23 14:45	LJS	EET DEN
Total Recoverable	Analysis	200.8		1			616944	06/21/23 01:01	LMT	EET DEN
Total/NA	Prep	245.1			30 mL	50 mL	617604	06/27/23 14:45	KMS	EET DEN
Total/NA	Analysis	245.1		1			617768	06/27/23 23:24	KMS	EET DEN
Total/NA	Analysis	SM 2510B		1			617525	06/27/23 07:51	KEG	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	617026	06/21/23 16:51	CAI	EET DEN
Dissolved	Filtration	FILTRATION			2 mL	2 mL	616147	06/14/23 15:22	LBR	EET DEN
Dissolved	Analysis	SM 3500 CR B		1	2 mL	2 mL	616159	06/14/23 16:08	LBR	EET DEN
Total/NA	Analysis	SM 3500 CR B		1	2 mL	2 mL	616159	06/14/23 16:19	LBR	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			616882	06/20/23 20:53	KEG	EET DEN
Total/NA	Analysis	SM 4500 S2 D		1	2 mL	2 mL	616303	06/15/23 13:57	SL	EET DEN
Potentially Dissolved	Analysis	SM3500 CR B		1			617695	06/27/23 18:42	RMS	EET DEN
Total Recoverable	Analysis	SM3500 CR B		1			617695	06/27/23 18:42	RMS	EET DEN
Total/NA	Analysis	SM4500 S2 H		1			616432	06/16/23 12:05	ZPM	EET DEN

Client Sample ID: 2022-02-03

Date Collected: 06/14/23 08:10

Date Received: 06/14/23 14:34

Lab Sample	ID: 280-177856-4
	Madulus Mateu

Matrix: Water

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			40 mL	40 mL	631114	06/27/23 16:25	VLC	EET PEN
							Completed:	06/28/23 08:45	1	
Total/NA	Analysis	1631E		1			631187	06/28/23 13:52	VLC	EET PEN

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Lab Chronicle

Client: Grand Island Resources Job ID: 280-177856-1 Project/Site: Nederland, CO

Client Sample ID: 2022-02-03 Lab Sample ID: 280-177856-4

Date Collected: 06/14/23 08:10 **Matrix: Water**

Date Received: 06/14/23 14:34

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			50 mL	50 mL	616151	06/19/23 14:45	LJS	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			616917	06/21/23 02:11	ADL	EET DEN
Potentially Dissolved	Filtration	Poten_Diss_Met			150 mL	150 mL	616494	06/16/23 22:30	LRD	EET DEN
Potentially Dissolved	Prep	200.8			50 mL	50 mL	616728	06/20/23 14:40	LJS	EET DEN
Potentially Dissolved	Analysis	200.8		1			617210	06/22/23 20:43	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	616151	06/19/23 14:45	LJS	EET DEN
Total Recoverable	Analysis	200.8		1			616944	06/21/23 01:03	LMT	EET DEN
Total/NA	Prep	245.1			30 mL	50 mL	617604	06/27/23 14:45	KMS	EET DEN
Total/NA	Analysis	245.1		1			617768	06/27/23 23:27	KMS	EET DEN
Total/NA	Analysis	SM 2510B		1			617525	06/27/23 07:51	KEG	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	617026	06/21/23 16:51	CAI	EET DEN
Dissolved	Filtration	FILTRATION			2 mL	2 mL	616147	06/14/23 15:22	LBR	EET DEN
Dissolved	Analysis	SM 3500 CR B		1	2 mL	2 mL	616159	06/14/23 16:09	LBR	EET DEN
Total/NA	Analysis	SM 3500 CR B		1	2 mL	2 mL	616159	06/14/23 16:22	LBR	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			616882	06/20/23 21:04	KEG	EET DEN
Total/NA	Analysis	SM 4500 S2 D		1	2 mL	2 mL	616303	06/15/23 13:58	SL	EET DEN
Potentially Dissolved	Analysis	SM3500 CR B		1			617695	06/27/23 18:42	RMS	EET DEN
Total Recoverable	Analysis	SM3500 CR B		1			617695	06/27/23 18:42	RMS	EET DEN
Total/NA	Analysis	SM4500 S2 H		1			616432	06/16/23 12:05	ZPM	EET DEN

¹ This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Accreditation/Certification Summary

Client: Grand Island Resources Project/Site: Nederland, CO

Job ID: 280-177856-1

Laboratory: Eurofins Denver

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	10-31-23
A2LA	ISO/IEC 17025	2907.01	10-31-23
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-10-24
Arizona	State	AZ0713	12-20-24
Arkansas DEQ	State	19-047-0	05-31-23 *
California	State	2513	01-09-24
Connecticut	State	PH-0686	09-30-24
Florida	NELAP	E87667-57	06-30-23
Georgia	State	4025-011	01-08-24
Illinois	NELAP	2000172019-1	04-30-24
lowa	State	IA#370	12-01-24
Kansas	NELAP	E-10166	04-30-24
Kentucky (WW)	State	KY98047	12-31-23
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-23
Louisiana (All)	NELAP	30785	06-30-23
Minnesota	NELAP	1788752	12-31-23
Nevada	State	CO000262020-1	07-31-23
New Hampshire	NELAP	2053	04-28-24
New Jersey	NELAP	190002	06-30-23
New York	NELAP	59923	03-31-24
North Carolina (WW/SW)	State	358	12-31-23
North Dakota	State	R-034	01-08-24
Oklahoma	NELAP	8614	08-31-23
Oklahoma	State	2018-006	08-31-23
Pennsylvania	NELAP	013	07-31-23
South Carolina	State	72002001	01-08-24
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	09-30-23
US Fish & Wildlife	US Federal Programs	058448	07-31-23
USDA	US Federal Programs	P330-20-00065	12-19-25
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-23
Washington	State	C583-19	08-03-23
West Virginia DEP	State	354	11-30-23
Wisconsin	State	999615430	08-31-23
Wyoming (UST)	A2LA	2907.01	10-31-22 *

Laboratory: Eurofins Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-23
ANAB	ISO/IEC 17025	L2471	02-22-26
Arkansas DEQ	State	88-00689	09-01-23
California	State	2510	06-30-23
Florida	NELAP	E81010	06-30-23
Georgia	State	E81010(FL)	06-30-23
Illinois	NELAP	200041	10-09-23

^{*} Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Denver

Accreditation/Certification Summary

Client: Grand Island Resources

Job ID: 280-177856-1

Project/Site: Nederland, CO

Laboratory: Eurofins Pensacola (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Kansas	NELAP	E-10253	10-31-23
Kentucky (UST)	State	53	06-30-23
Louisiana (All)	NELAP	30976	06-30-23
Louisiana (DW)	State	LA017	12-31-23
Maryland	State	233	09-30-23
North Carolina (WW/SW)	State	314	12-31-23
Oklahoma	NELAP	9810	08-31-23
Pennsylvania	NELAP	68-00467	01-31-24
South Carolina	State	96026	06-30-23
Tennessee	State	TN02907	06-30-23
Texas	NELAP	T104704286	09-30-23
US Fish & Wildlife	US Federal Programs	A22340	06-30-23
USDA	US Federal Programs	FLGNV23001	01-08-26
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-24
West Virginia DEP	State	136	03-31-24

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Eurofins TestAmerica, Denver

Carofins Frytonman Preting

From (303) 730-0100 From (303) 431-7171 Client Information		The state of the s	I sh PM:					٧==1	
Client Information	Sampler:		1707 - 171			Carrier Tracking No(s)	No(s):	COC No:	
			Bieniulis, Dylan T	Dylan T					
Client Contact: Patrick Delaney	Phone: 303 SC	1019	C E-Mail: Dylan.Bie	E-Mail: Dylan.Bieniulis@et.eurofinsus.com	sus.com	State of Origin:		Page:	
Company: Grand Island Resources		PWSID:			Analysis Requested	quested		Job #:	
Address: 12567 West Cedar Road Suite 250	Due Date Requested:			-+1	pu	yruo (YCO)		15	
City: Lakewood	TAT Requested (days):			- - -	re (A31 onized			B - NaOH N - None C - Zn Acetale O - AsNaO2	
State, Zip: CO, 80466	Compliance Project: A Yes A	No		WS 'SS	18 FIL	o ilsd :			
Phone: 345-414-6386	PO #: Advance Payment Required		-(6	2T - G0	0_52_I calc) 0_52_I	teni¶) a		G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate	ahydrate
Email: pdelanev@blackfoxmining.com	WO#:		N 10	:e' 524	avalent nt Cr (SM350	Metals		I - Ice J - DI Water	
Project Name: Nederland, CO	Project #: 28022821		59 , (), 6	nctano	d Hexa Trivale e and : c)	bevlos R leso	100	N-EUIA L-EDA	_ζ ,
Slie: First half of the month event	SSOW#:		dwes	puog s	ssolve olved Sulfid	L'9b		5 2022 – Of	
	Sample	<u> </u>	Matrix 100 (W=water, S=solid, O=waste/oll, o	108 - Specific que l'Ine	00_CR_B - To tentially Diss recogen Suffic drogen Suffic	3163 stinestod - 8.0 (sell stim (sell 8.00217.0 est 8.00217.0	- 17 17 7	Hemp=9,30	18
Sample Identification	Sample Date Time		-		98 C 94 98 Z	OZ CO be		Special Instruction	s/Note: Ich
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0-00-00	4	0		X	X X	X		1, 13, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10	
2002-02-MS	_	S	N	X	XXX	XX		Surfacewat	PF
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								160,500	N'UN'A
								5)	
	280	0-177856 Chain of	hain of Custody				2 4	211	(F)
			+					2006 (As, Cd, Cr.Cv, Pb, 2n), and 295.1 Hg	, Pb,
Possible Hazard Identification Non-Hazard Flammable Skin Intant Poison B	Unknown R	adiological	-	Sample Disposal (A 1	I (A fee may be	' be assessed if san	mples are retai	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ~ Return To Client , Disposal By Lab Archive For Months	
, III, IV, Ot				Special Instructions/QC Requirements	ns/QC Requirem				
Empty Kit Relinquished by:	Date:		Time:	1		Method of Shipment:	shipment:		
Relinquished by: Relinquished by:	Date/Time: 14/23 2	3.37	Company Company	Received by:	Zul		Date/Time:	3 1-734 Company Company	tw
Relinquished by:	Date/Time:	<u> </u> පි	Company	Received by:		1	Date/Time:	Сотрапу	
				Cooler Temperat	Cooler Temperature(s) °C and Other Remarks:	Remarks: Q U	FC	5	T
Δ Yes Δ No				4		` '	1 1 1 1		01

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Eurofins Denver 4955 Yarrow Street

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(4c tocation 48) noticemental troil	Sampler:			Lab PM Bieniuli	Lab PM Bieniulis Dylan T			Carr	Carrier Tracking No(s)	(s)o	COC No. 280-660608 1	0608 1	
(Sub Colliact Lab)	Dhoos			E Mail	,			State	State of Orioin		Page		
ceiving				Dylan.E	lieniulis@	Dylan. Bieniulis@et. eurofinsus. com	JS.COM	8	Colorado		Page 1 of 1	of 1	
Company				Ac	creditations	Accreditations Required (See note)	note)				3ob #:	, 0.0	
Eurofins Environment Lesting Southeast,											1-000//1-007	1-000/	
Address 3355 McLemore Drive,	Due Date Requested: 6/28/2023			•		,	Analysis Requested	Reque	ited		Preser	ion Cod	s: M - Hexane
	TAT Requested (days):										B - NaOH		N - None
Pensacola											C - Zn Acetate		Na204S
State, Zip: FL, 32514											E - NaHSO4		Q - Na2SO3 R - Na2S2O3
Phone 850-474-1001(Tel) 850-478-2671(Fax)	₽0#:										G - Amchlor H - Ascorbic	Acid	S - H2SO4 T - TSP Dodecahydrate
Email	₩O#;			Kazie i									U - ACEIONE V - MCAA W - pH 4-5
	Project #:				£0 (_			L-EDA		Y - Trizma 7 - other (specify)
Nederland, CO	17977097			ľáů		_	_		_			1	(finada) inin
Site	**************************************			om RS) osi						Other:		
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		T T Samuel		(W=water, S=solid,) (01103	···					in in		
Sample Identification - Client ID (Lab ID)	Sample Date T			Ē	ie.e							pecial Instru	Special Instructions/Note:
		$\frac{\mathbb{C}}{}$	20.00		Ž						X		
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2022-02-03 (280-177856-4)	6/14/23 0	08.10 Mountain	-	Water	×								
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Note. Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory of orangivis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

	Possible Hazard Identification		Sa	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	essed if samples	are retained longer than 1 n	onth)	
	Unconfirmed			Return To Client Dis	Disposal By Lab	Archive For	Months	
	Deliverable Requested 1, II, III, IV, Other (specify)	Primary Deliverable Rank: 2	dS.	Special Instructions/QC Requirements:				_
	Empty Kit Relinquished by:	Date:	Time:		Method of Shipment	ıt		
	Reinquisheyby M. M. M. J. M.	Date Timber 1640	156 CONTROL	Received by:	Date/Time.		Сотрапу	
6/	Relinquished by	Date/Time /	Company	Received by:	Date/Time		Company	
29/2	Relinquished by	Date/Time	Company	Received by:	Date	Date Fine (7-23//829 Company	Sompany	
023	Custody Seals Intact: Custody Seal No.: A Yes A No			Cooler Temperature(s) °C and Other Remarks		410°C (PV		
							1700/00/70	

6/29/2023

ORIGIN ID:WHHA (303) 736-0: EUROFINS EUROFINS TESTAMERICA DENVER 4955 YARROW ST ID: WHHA (303) 736-0100 SHIP DATE: 15JUN23 ACTWGT: 24.85 LB CAD: 290884/CAFE3708

BILL SENDER

ARVADA, CO BOOO2 UNITED STATES US

SHIPPING/RECEIVING **EUROFINS ENVIRONMENT** 3355 MCLEMORE DRIVE

PENSACOLA FL 32514 (950) 474-1001 REF: \$280-131239 PO: YES DEPT:

TRK# 6425 0006 7371

FRI - 16 JUN 10:30A PRIORITY OVERNIGHT

XH PNSA

32514 FL-US BFM



169-434 MTW EXP 01/24

6/29/2023

Login Sample Receipt Checklist

Client: Grand Island Resources Job Number: 280-177856-1

Login Number: 177856 List Source: Eurofins Denver

List Number: 1

Creator: Cannon, Charles D

Creator. Camilon, Chanes D		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	False	Headspace larger than 1/4".
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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Login Sample Receipt Checklist

Client: Grand Island Resources Job Number: 280-177856-1

List Source: Eurofins Pensacola
List Number: 2
List Creation: 06/17/23 11:47 AM

Creator: Whitley, Adrian

oreator. Williey, Adrian		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.0°C IR11
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

N/A

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Residual Chlorine Checked.

APPENDIX D CHAIN OF CUSTODY (COC) FORMS

Chain of Custody Form

Sample Collector: PS///	Email: bmolsonm og em por Email: edu	Phone: 303-506-1618	city Lakewood State CO Zip 80228	Address: 12567 W. Cedar Rd Ste 251	Contact Name: Brooke Moran	Company Name: Grand Island Resources Company Name:	Report To Information
	Email: COU	Phone:	City State Zip	Address:	Contact Name:	Company Name:	Bill To Information (If different from report to)
				Task Number (Lab Use Only)			Project Name / Number

	,;)
LABORATORIES, INC	Colorado Analytical

Commerce City Lab
10411 Heinz Way
Commerce City CO 80640

Lakewood Service Center 610 Garrison Street, Unit E Lakewood CO 80215

Phone: 303-659-2313

www.coloradolab.com

Relinquished By: Date/Time: Received By: The annual Date/Time:	Instructions: 1 HNU3 bottle & Radionullide Deliver Via:	-	7/8/07/6/1	Alabatica CA OLINOLOU	1/8/211:15 CARIBOU 02	A/R/2311:15 CARIBOU PORTAL	ARBIDITS CROSS PORTAL	NISPO CARIBOU WELL	MB/213:30 COMPLIANCE ON	1/8/2313:30 COMPLIANCE 02	A/B/413:30 COMPHANCE WELL	4/K/12/13:00 CROSS WELL	Date Time Sample ID	Surface Water	Ground Water 🖾 Sludge 🗌	Waste Water Soil Drinking Water	Sample Matrix (Select One Only)		Sample Collector Phone: 303-506-16 18 PO No.:
Relinquished By: Date/Time: Accerted by:	C/S Charge Temp. Collee Sample	Seals Present Yes No									OT P	D	G	o. of Crab r (Checompos	ck On		llly)	Tests Requested	

Chain of Custody Form

Sample Collector: PM	Email: Sorgio, rivera Opovano	Phone: bmolspinmon, emporin Phone:	City La Roward State () Zip 80228	Address: W. Codar Rd Sto 251	Contact Name: Brooke Moran	Company Name: CIR	Report To Information
C803 * X / 115	Email:	Phone:	City State Zip	Address:	Contact Name:	Company Name:	Bill To Information (If different from report to)
				Task Number (Lab Use Only)			Project Name / Number

	,;)
LABORATORIES, INC	Colorado Analytical

Commerce City Lab
10411 Heinz Way
Commerce City CO 80640

Lakewood Service Center 12860 W. Cedar Dr, Suite 100A Lakewood CO 80228

Phone: 303-659-2313

www.coloradolab.com

Relinquished By: Da	Instructions: HNO3 &	= = = = = = = = = = = = = = = = = = = =	=======================================	12/15 01	11 13:30 CON	11 13:30 CO	0/16/2313:00	Waste Water Ground Water Surface Water Date Time	Sample Collector Phone:
Date/Time: Received By:	-FILTERSEY	ARIBOU 03	ARIBOU FOR AT.	ROSS PORTAL.	A RIBOU WELL .	MPLIANCE 02	CROSS WELL	Sample Matrix (Select One Only) Soil	3-506-161X PO No.:
Date/Time:	C/S Info: Deliver Via:							Drinking Water 🔲	
Relinquished By:	a:	2	,00	00	<i>p a</i>	100	, Q:	No. of Containers Grab or (Check One Only) Composite	
Date/Time:	C/S·C							350	
••								1000 C	
Received by:								22050014 272050014 3/2023 3/2023 3/2023 3/2023	Tests Requested

Ver: 01/16/2019													No	Δ Yes Δ
*			marks:	C and Other Remarks:	mperature(s) °C	Cooler Temperatur							Custody	ody Sea
Company		Date/Time:			by:	Received by:	Company	Com	<u>A</u>	\$25 \$25 \$3	Date/Time	10 DE 2	Karen	Relinquished by:
Company		Date/Time:			by:	Received by:	Company	Com		me:	Date/Time			Relinquished by:
MADES	1626	SIS-27	2%		by: M	Received by:	Company	Com		me:	Date/Time:			Relinquished by:
		Method of Shipment:	Method of	5	7		Time:		Date:		-		quished by:	Empty Kit Relinquished by:
				Special Instructions/QC Requirements	uctions/QC	Special Instr	(O		-			Other (specify)	_<	Deliverable Red
Months	Archive For	and X Arr	Disposal By Lab	ge may be a	Return To Client	Return To C	· ·	Radiological	- []	Unknown	Poison B	Skin Irritant	Possible Hazard Identification Non-Hazard Flammable	Possible Haza Non-Haza
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= 200.7 (Fe), 200.8 (As, Cd, Cr, Cu, Pb,	= 200.7 (Fe), 200		(×	XXX	X		Σ.	<u>t</u>	000	6/13	5/15	02	-07-	2022
tal recoverable metals list	*Curfoo water to		XX	X	X		2	0	0,00	5/231	5/15		-02	2022
permit list = 200.8 (As, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ad, Zn)	permit list = 200.		\ \ .\	XX	XX		3.	+	00 ib	15/23	5/		-01	2022
otentially dissolved metals	* Surface water n		ם ס	CB N	Z		X	- 00	/-\	A	V			
Special Instructions/Note:	1940, 200	20012	200.8 - permit 200.7 / (First h	Potentii SM4500 Hydrog 1631E -	2510B - pH / Ter 3500_C 3500_C	Lessons and the	S=solid, O=wasts/oil, BT=Tissue, A=Air)	(C=comp, on G=grab) BT=TI	Sample (C	ole Date	Sam		Cation	Sample Identification
. 12			list) 200.8 /	ally Dis S2_D en Sulf	mp R_B - 1 R_B - 0		iltered	Ф	co					
	CHEROLOGICAL		245.1	solved - Sulfi fide (ca	rotal H		The second second				SSOW#		sampling	Site: Surface Water Sampling
Z - other (specify)	Georgia de Con		Total	d Trival ide and alc)	exaval		-			821	Project #: 28022821	co	and,	Project Name: Wastewater Dis
V - MCAA W - pH 4-5	episch sie se		Recov	ent Cr SM35	ent Cr						₩		(foxmining.com	pdelaney@blackfoxmining.com
S - HZSO4 T - TSP Dodecahydrate U - Acetone	G - Amchlor H - Ascorbic Acid I - Ice		erable	(calc) 00_S2	and Tr		No)		t Required	Advance Payment Required	O Advan	1-698	315-414	Phone: 812-342-0143
Q - Na2SO3 R - Na2S2O3	E - NaHSO4 F - MeOH			H - Ur	ivalent			٥	Δ Yes Δ No	Compliance Project:	Compli			State, Zip: CO, 80466
N - None O - AsNaO2 P - Na2O4S	B - NaOH C - Zn Acetate D - Nitric Acid				: Cr (ca		73.			TAT Requested (days):	TAT Re			City: Lakewood
M - Hexane	A-HCL M				lc)					e Requested:	Due Date		Address: 12567 West Cedar Road Suite 250	Address: 12567 West Cer
			Requested	Analysis Requ	Ana			PWSID:					sources	Company: Grand Island Resources
	Dr. t				ofinset.com	Dylan.Bieniulis@Eurofinset.	Dylan.Bier	8191	905	200%	TIO IS			Patrick Delaney
	Page.		State of Origin:			Dylan T	Bieniulis, [W	oanipier.		ation	Client Information
	COC No:	do(e):	Carrier Tracking No(s)				Top Divi		2 A)			31-7171	Arvada, CO 80002 Phone (303) 736-0100 Phone (303) #31-7171	Phone (303) 736-01
Environment Testing America	eurofins :	2				ord	Custody Record		Chain of	0		Denver	rAmerica,	4955 Yarrow Street
										Haddan District				1

Chain of Custody Form

Report To Information	Bill To Information (If different from report to)	Project Name / Number
Company Name: Grand Island Resource Company Name:	Company Name:	4
Contact Name: Brooke Moran	Contact Name:	
Address: 12567 W. Cedar Rd Ste 251	Address:	Task Number (Lab Use Only)
City Lakewood State CO Zip 80228 City	City State Zip	
Phone: 303-506-1618	Phone:	
Email: brolsonno quempor Email: cau	Email: Cal	
Sample Collector: BM		
Sample Collector Phone: 303-506-16/8 PO No.	DO No.	

Colorado	

Commerce City Lab
10411 Heinz Way
Commerce City CO 80640

<u>Lakewood Service Center</u> 610 Garrison Street, Unit E <u>Lakewood CO 80215</u>

Phone: 303-659-2313
www.coloradolab.com

Relinquished By:	THSU de House	Tacturation .	nterior periories annuales	company.	rapidipita.	- Secretarios	Sometimes of the second of the	getatiles	sentages	encer	6/4/23	Date	Surface	Ground	Waste Water		
d By:	*		<u></u>		<u></u>	2:15	1:30	-		3:30	13:00	Time	Surface Water	Ground Water 🔯	ater		
Date/Time: /23 Re			CARIBOU	CARIBOU	CARIBOU	CROSS	CARIBOU	COMPLIANCE	COMPLIAN	COMPLIANCE	CROSS			Sludge	Soil	Sample Matrix (Select One Only)	
Received By:			000	02	PORTA	PORTAI	WELL	JOE O	NCE	CA WAL	WELL.	Sample ID				lect One Only)	
Date/Time:	Deliver V	Cki				e de la companya de l		S .	2	1	100			Drinking Water 🔲			
Relinquished By:	Deliver Via:		\$\tau_{\tau}^{\tau}	50	5	₩ ₩	9	0	<i>m</i>	77 77	5	Gra	of Coab			7)	
	C/S C												mposit				
Date/Time: Re	C/S Charge Temp.	Solo										A WHOO	100	270			
Received By:	Temp. C/Ice	Proceed Vos No										Gravi	3/2027	2001			Tests Requested
Date/Time:	Sample Pres, Yes A No											Jawate	79				
le:	2											7					

Eurofins TestAmerica, Denver 4955 Yarrow Street Arvada, CO 80002

Chain of Custody Record

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Environment Testing

Ver: 01/16/2019				Custody Seals Intact: Custody Seal No.:
		Cooler Temperature(s) °C and Other Remarks:		
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Company	Date/Time:			Relinquished by:
Company	Date/Time:	Received by:	Company Company	Relinquisher By CK Amo Arting
1434 KMDEN	Dalle Time: 173	Received by: AM	Company	Empty Kit Relinquished by:
Conseque	hipment:	Method of Shipment:	Date: Time:	Deliverable Requested: I, II, III, IV, Onler (Specify)
		Special Instructions/QC Requirements:		ole Skin Irritant
For Months	Archive For	Return To Client Disposal By Lab	Redicional	
month	assessed if samples are retained longer than 1	Sample Disposal (A fee may be assessed if san	Sam	
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A CICLOPANA				
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potentially metals			2/14/23 8: 10 Co VV	2007-07-MS
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		XXXXXX		2022-01-02
51 7 15154 (11)		XXXXX	به جدامه	1011-00
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		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	36/14/23 7:30 (C) W N	323-23
200.8			a Pieservation (code)	Sample Identification
Special Instructions/Note:	Z 76-	9H / 3500 3500 Pote SM4 Hyd 1 (2) 2000 per 2000	£ "	
022-02 PH-81	tal Nu	DB - Sp Temp O_CR_I O_CR_I O_CR_I I Soo_S Irogen O_31 I O.8 - Po mit list 0.7 / 20 rst half		
John Bill	-	3 - Tot 8 - Dis Disso 2_D - : Sulfide tential	Matrix	Sile: First half of the month event
1022-01	of co	solved Sulfide (cale		erland, CO
EDA Z - other (specify)		d Hex I rivale e and :)	Project #:	blackfoxmining.com
A		avaluent C SM3	WO#:	
2	-	r and ent Cir (cal 500_: tals (Advance Payment Required	212414-6000
	G-/	Trival (LAB c) 52_H	liance Project: A Yes A No	State, Zip: CO, 80466
D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 E - NaHSO4	m-7	FILTE Union		_akewood
H	G-Z	(calc	TAT Requested (days):	2567 West Cedar Road Suite 250
ICL M - Hexane	A - HCL	onth	Due Date Requested:	sland Resources
Preservation Codes:	Pros	Analysis Requested	World	ompany:
·	Job #:	COIII	0	
	Page:	State of Origin:		Client Information
TWO.	COC No.	Carrier Tracking No(s):	Sampler: Lab PM:	hone (303) 736-0100 Phone (303) 431-7171

APPENDIX E FIELD SHEETS

SURFACE WATER SAMPLING DATA SHEET

SWAMP	Field Data	Sheet (Wat	er Chemist	ry & Discre	te Probe) -	EventType:	=WQ	EROL BOAR	P.b ⁽¹ a ⁶ se ^{Ll} (Mn2tO _{la} C	1911-1-1	1		
*StationID	: 202	2-01			ld/yyyy): 4		123		ro ase (intra	f?/date)	1/0	1	of Pg
*Funding:	N/O	\		ArrivalTime:		DepartureTir	3 6003		114	- 10			nla
*Personnel	BM						aterTox Field	Dbs FieldMeasur	ne (1st sample):	7			Va
*Location:	Bank Thalwe	g Midchannel	OpenWater	*GPS/DGPS		d.ddddd)				*PurposeFai	A 2 1 (
GPS Device:	1000		ITS APP		200	7904	1 0	ddd.ddddd)	DAY.		Walk-in Bridg	-	Other
Datum: NAI		Accuracy (ft /	6) 1.20	*Actual:	39.9	72993	-105,	57585				LB RB / NA	
Field Ob	servations				21,01	1 2 1 100	BEAUFORT	375747		oint of Sample	(if Integrated,	then -88 in dbas	se)
	E ODOR:			oleum,Mixed,C	41	Y / N / Unk	SCALE (see	2	DISTANCE FROM BANK	n/a	STREAM WII	- 1	la
					uner		attachment):	LIVEROMORU	(m):		WATER DEP		10
	CODE:	Clear Partly	Cloudy, Overd	ast, Fog		WIND DIRECTION	New De E	AerialZipline, (Other None	Bridge, Pipes,	ConcreteChannel	l, GradeControl, C DN (to sample): U	ulvert,
DOMINANT	PRESENCE!!	^Vascular,Nor	nvascular,OilyS	heen,Foam,Tra	ash,Other	(from):SE	177	PHOTOS	(RB & LB assigne	d when facing	1: (RB / LB / I	BB/US/DS/#	##)
	TSUBSTRATE					her		StationCod	wnstream; RENA! de_yyyy_mm_dd_	VIE to uniquecode): 2	0-22-0	1_0 _A	pril
				(>4" vis), Murk		PRECIP	ITATION:	None, Bog, [Orizzle, Rain, Si	now			
	ERODOR:			etroleum, Mixe	d, Other	PRECI	PITATION (las	st 24 hrs):	Unknown, <1	", >1', None	2022	-01_0:	2 April
	RCOLOR: W										3: (RB / LB / E	BB / US / DS / #	/#)
Part of the last o	VED FLOW: (NA, Dry Wate	erbody Bed, N	Obs Flow Iso	olated Pool, Tr	ckle (<0.1cfs),	0.1-1cfs, 1-5d	cfs, 5-20cfs, 20	0-50cfs, 50-200	cfs, >200cfs	2022	01_03	_April
rield Mea	asurements	(SampleTy	/pe = FieldI	Vleasure; M	ethod = Fie	ld)							
	DepthCollec (m)	Velocity (fps)	Air Temp (°C)	Water Temp (°C)	pН	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (uS/cm)	Salinity (ppt)	Turbidity (ntu)	Stage Ht (units)		
SUBSURF/MID BOTTOM/REP	NIA	nla	8.90	nla	n/a	n/a	n/a	n/a	nla	nb	nla		
SUBSURF/MID BOTTOM/REP							· ·						
SUBSURF/MID/ BOTTOM/REP													
Instrument:			Ambient										
Calib. Date			n/a										
Samples	Taken (# of	containers	filled) - Me	thod=Water	r_Grab	Field Dup YES	I / NO: (Sample	Type = Grab / Inte	egrated; LABEL_I	D = FieldQA; cr	eate collection red	cord upon data en	itry
SAMPLE TY	PE: Grab / In		COLLE	CTION EQUIP	MENT:	Indiv bottle (by	hand, by pole	e, by bucket);	Гeflon tubing; К	emmer: Pole	& Beaker: Othe	ar	
	(m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved	Total Metals	Dissolved	Organics	Toxicity	1/04
Sub/Surface	Э				11			Mercury		Metals	Organios	TOXICITY	VOAs
Sub/Surface				14	//								
NO.	VISIE	BLE	FLOC	N, NO	SA	MPLE	55 C	OLLE	CTE				
Run:						T-		Iso	mple Processing	Data			
Sample ID#:								Oa Oa	imple Processing	Date:			The state of the s
	Site Code:												
	# Small Wells												
	# Large Wells				_								
Yellow +	Empty Wells MPN												
	# Small Wells												
L	# Large Wells										16.5		
Yellow+	False												-
Fluorescence (+)	Positives MPN												
													-
Temp/Time S	Start	4Hr. C	FIELD DUP	LICATES	14 Hr. Check		11	8 Hr. Check		22 Hr. C	heck, if needed		
Ņ	Normal Sample #	#					Normal Sample	#	L	AB DUPLICATE	S		
		MPN	L		95% CI		Duplicate Sampl	le#	MPN			050/ 01	
	Normal Duplicate			LUWGI		ppei /	Normal				Lower	95% CI	pper
N	Mean			Pass	Needs		Duplicate Mean			<u> </u>			
D	lormal Duplicate					/	Nomal Duplicate				Pass	Needs	Review
	lean ield Sample			Pass Pass		Review //	Mean				Pass	Needs	Review
# Mean = Mean of No	ormal and Duplicate,	which is then compa	ared to the individua			Review L	_ab Sample #				Pass	Needs	
diffpici Olgitator	re / Date / Time Am	ived:	Placed in	Incubator By / Da	te / Time:	ability of data			Travs R	lead By:			
rocessor / Date	/ Time:		Pulled fro	m Incubator By / D	oate / Time:					into database:			

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SURFACE WATER SAMPLING DATA SHEET

SWAMP	Field Data	Sheet (Wat	er Chemisti	v & Discre	o Proba)	EventTune	-14/0	TROL BOADS		a)	70206		
*StationID:	202	7-00	7			Eventrype			2b(1a6se.lu/kin2it0a0	⁶ /date) /	(a.	Pg	of Pgs
*Funding:	Na	hour too! 6	peres.	*Date (mm/d		11+	123	*Group: \(101			*Agency:	n/a
*Personnel:					3:29		ne:\3=3		e (1st sample):	n/a		*Protocol:	n/a
CONTROL OF THE PARTY OF				*Purpose (circ	e all that apply):	WaterChem W	aterTox FieldO	bs FieldMeasur	е	*PurposeFail	lure: WA		
		g Midchannel	OpenWater	*GPS/DGPS		d.ddddd)	Long (d	dd.ddddd)	OCCUPATIO	N METHOD:	Walk-in Bridg	je R/V	Other
GPS Device:	74 -0 0 -0 1	YFUINT	> WH	Target:		5787	-105	569328	STARTING B	ANK (facing o	downstream):	IB (RB)	NΔ
Datum: NAD		Accuracy (ft	, , ,	*Actual:	39.97	75873	-105,0	569305			(if Integrated,		
Field Obs	servations	(SampleTy	pe = FieldOl	os)		WADEABILITY	BEAUFORT	1	DISTANCE		STREAM WII		1/0
SITE	ODOR:	None, Sulfide	es,Sewage,Petr	oleum,Mixed,C	ther	Y/N Unk	SCALE (see attachment):		FROM BANK (m):	n/a	WATER DEP		3
SKY	CODE:	Clear, Partly	Cloudy, Overc	ast, Fog		WIND	N A	HYDROMODIF AerialZipline, C	ICATION: None	Bridge, Pipes,	ConcreteChannel	, GradeContro	. Culvert.
OTHERP	PRESENCE!	Q Vascular, No	nvascular,OilyS	heen Foam Tr	sh Other	DIRECTION (from):	W-st p-E	Charles of the State of the Sta	RB & LB assigned		1: (RB / LB / I		
DOMINANT	SUBSTRATE	Bedrock, Co	ncrete, Cobble	Gravel, Sand	Mud Unk Ot			dov	vnstream; RENAN	ME to	-022-c		
			ottom), Cloudy				ITATION: (_	e_yyyy_mm_dd_u		2: (RB / LB / I	BR / US / DS	-th
WATE	RODOR:NO	None, Sulfid	es, Sewage, Pe	troleum Mive	d Other				Prizzle, Rain, Sr	7			02_April
WATER	RCOLOR: n/c	Colorless. G	reen, Yellow, B	rown	ı, Oulei	PRECI	PITATION (las	t 24 hrs):	Unknown, <1	', >1", None	3: (RB / LB / I		
	/ED FLOW:	CONTRACTOR DESCRIPTION	Contract Con		oloted Deal Tri	alda (40 4-6-)	044645		-50cfs, 50-200				1 ==) 3 April
	and the second second	(SampleT)	/pe = FieldN	Acaeuro: M	other - Fie	ickie (<0.1cis),	0.1-1cfs, 1-5c	ts, 5-20cfs, 20	-50cfs, 50-200	cfs, >200cfs	WLL	ULL	DIADII
					etilou – Fle	iu)		Carrific					
	DepthCollect (m)	Velocity (fps) Air Temp (°C)	Water Temp (°C)	pН	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (uS/cm)	Salinity (ppt)	Turbidity (ntu)	Stage Ht (units)		
SUBSURF/MID/ BOTTOM/REP	nla	nla	14.40	nla	nla	n/a	nla	n/a	n/a	n/a	n/a		
SUBSURF/MID/ BOTTOM/REP													
SUBSURF/MID/ BOTTOM/REP												-	
Instrument:			Ambient										
Calib, Date:			nla										
			filled) - Me	thod=Wate	r_Grab	Field Dup YES	6 / NO: (Sample)	ype = Grab / Inte	egrated; LABEL_I	D = FieldQA; cr	eate collection re	cord upon data	entry
SAMPLE TYPE	PE: Grab / I		COLLE	CTION EQUIP					Гeflon tubing; К				
	DepthCollec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved	Organics	Toxicity	VOAs
Sub/Surface				11	1 /			Welculy		Metals		,	10,10
Sub/Surface COMMENTS:					1 -	1							
		BLE	FLO	N, N	O SA	MP	LES	COL	Lan.C.	TED.	*		
Run:							Т т	Is-					
Sample ID#:								58	mple Processing	Date:			
	Site Code:												
	5.110												
,	# Small Wells												
#	# Large Wells				_								
Yellow +	Empty Wells MPN												
L	# Small Wells				1								
	# Large Wells												
Yellow + Fluorescence	False Positives										7		
(+)	MPN												
Temp/Time S	Start	4Hr. 0	FIELD DUP	LICATES	14 Hr. Check		1	8 Hr. Check		22 Hr. C	Check, if needed		
N	lormal Sample #			LICATES			Normal Sample	,	Ŀ	AB DUPLICATE	S		
В	Ouplicate Sample	# MPN	1		95% CI		Duplicate Samp	le#	AADAL			050/ 0	
	lomal			LUWEI		yppei	Normal		MPN		Lower	95% CI	Upper
M	Ouplicate Ilean			Pass	TIES A	s Review	Duplicate Mean			<u> </u>			
	lormal Suplicate				Need	o . (calem	Normal				Pass	, Ne	eds Review
М	lean ield Sample			Pass			Duplicate Mean				Pass	Ne.	eds Review
#		which is the an ar	pored to the ' ' '	Pass		s Review	Lab Sample #				Pass		eds Review
Sampler Signatur	re / Date / Time A	rrived:	pared to the individual Placed in	I corresponding CI's Incubator By / Da	to determine acce ate / Time:	ptability of data			· ITrave	Read By:			
Processor / Date	/ Time:		Pulled fro	om Incubator By /	Date / Time:					into database;			
OTES:													

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						1.3					
				GROUND V	WATE	R SAMPLIN	G DATA	Z SH	FFT		
IDENTIF	EICATION									Pro	ject Number:
Sample Lo	ocation CR1	oss,	WELL		D	ate <u>4/18</u>	123	Star	rt Time 12:00	Stop time 13=15	Page of
WEATH	ER CONDIT	CIONS	Λ				_ Samp	lers	BM, KI		
Ambient	Air Tempers	ature	47.8	°C□	op/0/	Not Mass	1 🗖	190	Wind: Heavy□ N		N
Precipitat	tion: None	Rain 🗆	Snow□ He	C□ eavv□ Mo	derate	Not Measi □ Light□	area 🗀	, n	Vind: Heavy∐ N Partly Cloudy⊠	Aoderate□ Ligh	t P
HALLINGE AA	ELL IVIEASUR	FINIFIN 12 (IVieasureme	nts in feet	made	from ton o	fwall on	-cim	~1	~/	1 (0-110
Static Wat	er Level <u>32</u>	Total De	pth <u>205</u> Top	of Screen_	15	Filter Pack	Interval	M	Borehole Dian Sing Volume: 150	neter(inches)	(0-40
2-inch =	0.1632 gal/	ft 4-inc	h = 0.6528	gal/ft 6-	inch	= 1.4688	gal/ft	Cas	ing Volume 150	b gallone	[" (40-2
WCII Cusiii	SIDINO WE	en Casing	OD A Pro	otective Cas	sing St	tickupnla v	Vell Casi	ing S	Stickup 102 Feet of	f Water 10/0	2
wen purge	ed with:	TH	PUM	P						water vv/ or	
FINAL WEL	LL MEASURE	MENTS	206		17	H					-
INSTRUM	er Level <u>3</u> 210 MENT CALI	otal Depth	Total V	olume Purg	ed <u>b</u>	Saturated I	Borehole	e Vo	olume (gal) <u>15</u> Ma	x Pumping Rate	nla
TI IN THEOLY	: Meter Num	DIVATIO	IA								
Buffer 7	Measured V	alue 7	OTemp 218	l°C	Cond	and 0 442	eter: M	leter	Number CM - sured Value 0,5	-2104-0	1479
Buffer 10	Measured V	alue (1)	OTemp 73.								
Turbidity	Meter: Mean	Standar	rd 1/0 NTU	Measured	Value	en/a N	ΓU Stan	ndar	dwaNTU Measu	red Value 10	ip. ZZC
FIELD PARA	AMETER MEA	SUREME	NTS DURING	<u>PURGING</u>			20000000		- Line III	area value voj ov	_1110
Time	Volume	рН	Cond.	Temp.	.]	Turbidi	ty		(Comments	
	(gallons)		(μS/cm)	°CX °F[Visual Es	t. 🗆				
II .	1										
10100	0	70				Measure					81
12:00	0	7.2	0.3	11-2	20	Measure		Fle	ELD FILT	ERED 4	HNOZ
12:00	624	7.2	0.3	7.1	20			FIE	ELD FILT	ERED 1	HNO3
	624	7.2 7.5			20			FIE	ESERVED ESOLVED	ERED 1 BOTTLE	HNO3 FOR
	624	7.2			20			FIE	ESERVED ESERVED	BOTTLE METAL RADION	HNO3 FOR S& 1
	624	7.2			20			FIEDIS	ELD FILT ESERVED ESOLVED TILE FOR	BOTTLE METAL RADION	HNO3 FOR S&1 JUCUDES
	624	7.2			20			FIR PR DIS BC	ELD FILT ESERVED SSOLVED TILE FOR	PRED 1 BOTTLE METAL RADION	HNO3 FOR S&1 JUCUDES
	624	7.2			20			FILE PR DIS BC	ESERVED SSOLVED TILE FOR	BOTTLE METAL RADION	HNO3 FOR S& 1 IUCUDES
	624	7.2			20			FILE PR DIS BC	ELD FILT ESERVED SSOLVED TILE FOR LLECTED	BOTTLE METAL RADION	HNO3 FOR S&1 NOCUDES
	624	7.2			20			FIR PR 215	ELD FILT ESERVED ESOLVED TILE FOR ULECTED TH DISP	BRED 1 BOTTLE METAL RADION SAMPLE OSABL	HNO3 FOR S&1 JUCUDES
	624	7.2			20			PR DIS 20 NI SA	ELD FILT ESERVED SSOLVED TILE FOR ULECTED TH DISP	BOTTLE METAL RADION SAMPL OSABL	HNO3 FOR S&1 JUCUDES
	624	7.2			20			FILE PR DIS BC	ELD FILT ESERVED SSOLVED TILE FOR ULECTED TH DISP	BOTTLE METAL RADION SAMPL OSABL	HNO3 FOR S& 1 IUCUDES
	624	7.2			20			FILE PR DIS 20 WI SA	ELD FILT ESERVED ESOLVED TILE FOR ULECTED TH DISP	BRED 1 BOTTLE METAL RADION SAMPL OSABL COSABL	HNO3 FOR S& 1 IUCUDES
	624	7.2			20			FILE PR DISC BC WITSA	ELD FILT ESERVED SSOLVED TILE FOR ULECTED TH DISP	BRED 1 BOTTLE METAL RADION SAMPL OSABL CUP.	HNO3 FOR S&1 JUCUDES
	624	7.2			20			FILE PR DIS BO WI SA	ELD FILT ESERVED SSOLVED TILE FOR LLECTED TH DISP	PRED 1 BOTTLE METAL RADION SAMPL OSABL CUP.	HNO3 FOR S&1 IUCUDES
13:00	MPLE PAR	7.5	0.3		20			20 Wi 5A	ELD FILT ESERVED ESOLVED TILE FOR ULECTED TH DISP	BRED 1 POTILE METAL RADION SAMPL POSABL CUP.	HNO3 FOR S&1 JUCUDES
FINAL SA	MPLE PAR	7.5	0.3		Committee of the Commit			20 20 20 20	ELD FILT ESERVED ESOLVED TILE FOR ULECTED TH DISP MPUNE	BRED 1 BOTTLE METAL RADION SAMPL OSABLE CUP,	HNO3 FOR S&1 JUCUDES
FINAL SA	MPLE PAR	7.5 AMETE D	0,3 RS	7,		7.2			ELD FILT ESERVED SSOLVED THE FOR LLECTED TH DISP MPLINE Turbidity Visual	BRED 1 BOTTLE METAL RADION SAMPL SAMPL OSABL CUP.	HNO3 FOR S&1 IUCUDES
FINAL SA	MPLE PAR e Sample	7.5 AMETE D	O * 3	7,		7.7 	Temp		Visual Est.□ Measu	BOTTLE METAL RADION SAMPL OSABL CUP.	HNO3 FOR S& 1 IUCUDES
FINAL SA Sample Date	MPLE PAR Sample Time	AMETE D cfsl	RS ischarge gpm 2	PH pH	(h	Z.Z.	Temp		Visual	BRED 1 BOTTLE METAL RADION SAMPL OSABLE CUP.	HNO3 FOR S& 1 IUCUDES
FINAL SA Sample Date	MPLE PAR e Sample	AMETE D cfsl	O * 3	7,	(h	7.7 	Temp		Visual Est.□ Measu	BRED 1 BOTTLE METAL RADION SAMPLE OSABLE CUP.	HNO3 FOR S&1 LUCUDES

4/18/23 15.	100	,0	+,5	0.3	7.1	1,1		
Duplicate Sample-02	(sample cont	rol numb	er/time	n/a)	
Field Blank-03	(sample cont	rol numb	er/time	n/a				
Rinsate Sample-04	(sample con	trol numb	er/time	n/a				
Matrix Spike-MS	(sample cont	rol numbe	er/time	n/a				
	(sample con	trol numb	er/time	n/a)	
Notes: 5AMPLE	D VIA	POF	T.*6	5" (-I-U	Oft)	Q 41"	(15-705.	C()
Sampler's Signature				8		2	(13-205)	17)

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GROUND WATER SAMPLING DATA SHEET	GROUND	WATER	SAMPLING	ΠΑΤΑ	SHEET
----------------------------------	--------	-------	----------	------	-------

IDENTIF	FICATION			CHOOND	WAII	LIK SAMPLI	NG DA	IA SE	IEEI	Project Normal		
Sample Lo	ocation <u>C</u>	MPL	IANCI	= WE	LLI	Date <u>4/18</u>	3/2:	≥Sta	rt Time 3:00	Project Number: Stop time Page of Page		
Sample Co	ontrol Numb	per	n/a				San	nplers	BM, KL	stop time age or \		
Ambient	ER CONDI	TIONS	49 =	2 00		/			カルノトレ			
Precipitat	tion: Nonel	Rain□	Snow T H	°C∐	°F⊠	Not Meas	ured [] _ '	Wind: Heavy□ I Partly Cloudy□	Moderate□ Light□		
INITIALIAN	THE BATACLE	7	DHOW L	cavy - IVI	ouerai	en Light	J Sun	ny⊔	Partly Cloudy		- 0	
Static Wat	er Level 52	Total De	oth 65 To	o of Screer	165	Filter Pack	Inten	casin	B)	9"(0-50	(H)	
2-inch =	0.1632 gal	/ft 4-inc	h = 0.6528	3 gal/ft 6	-inch	= 1.4688	gal/f	t Cas	sing Volume:	911 (0-50 meter(inches) 6" (50-16)	5+1)	
Well Casin	g IDMA W	ell Casing	OD <u></u> Pr	otective Ca	sing S	stickup/\o\	Well C	asing	Sing Volume: <u> </u>	of Water to		
		1 60 60	PUMP			1		u51116	otickup <u>***</u> Teet 0	water M/M		
FINAL WEL	LL MEASURE	MENTS	1.500	è	-	11						
INSTRUM	er Level <u>5</u> 21 MENT CAL	otal Depth	165 Total V	olume Pur	ged 💆	Saturated	Boreh	ole Vo	olume (gal) <u>93</u> Ma	x Pumping Rate MO		
	: Meter Nur	TOTACTIO	7.4						*			
Buffer_	Measured V	Value 7. C	Temp 216	₹°C	Stand	ductivity M	eter:	Meter	Number C/VII-	2104-01479		
Buffer (i()	Measured V	Value 10.	Temp 23.	700	Stand	dard 0,447	mS/cm	Mea	sured Value	5 _mS/cm Temp.27 °C 5 _mS/cm Temp.Z7 °C		
Turbidity	Meter: New	Standar	dn/antu	Measured	t Valu	en/a N	TU St	andar	d n aNTU Measi	mS/cm Temp. <u>ZZ°</u> C ured Value <u>n / a</u> NTU		
	WINIT I FIX IAIT	ASUREME	NTS DURING	S PURGING	<u> </u>					1410		
Time	Volume	pН	Cond.	Temp		Turbidi				Comments		
	(gallons) (μS/cm)					Visual Es						
13:00	0	7.6	1	7	Measure	dM		1 100				
13:30	554	8.0	00		2.2		POLITERED 1 FINOZ					
17/70	227	000	0 8	89 2.1				RESERVE	D BOTTLE FOR	Ź.		
								DIS	SSOLVED	METALS&		
								1	BOTTLE	FOR	7	
								RH	ADIONNO	LIDES,	1	
											1	
								CC	LLECTE	D SAMPLES	1	
								WI	TH DIS	POSARIE	1	
								SA	AMPIIA	IE CUP	1	
											1	
			, x n								-	
1											-	
											4	
FINAL SA	MPLE PAI	RAMETE	RS									
Sample			ischarge ,	рН		Cond.	Tor		T 1:1:		_	
Date	Time		J gpm⊠	pii		μS/cm)	Ter	-	Turbidity Visual			
			01 /((1	μο/ cm)	'		Est. Measu			
. / /									red☑			
4/18/2	3 13:3	0 0	J. 4	8.0	().2	8.	9	2.1		1	
Duplicate Sa	ample-02	(sample co	ntrol numbe	er/time	CON		ICE		7		_]	
Field Blank			ntrol numbe			,	NCE	45	and the second			
Rinsate Sam					2071	/	NC	= 0	2)			
			ontrol numb			n/a)			
Matrix Spik	e-MS (sample co	ntrol numbe	er/time		N/a		_)			
			ontrol numb			n/a)			
Notes: 5A(MPLED	AT I	NELL.	* 6	= //	-1-Er	1	2	411/15	-165 Ft)		
Sampler's S	ignature			08	5	1 70	11.	1 2	12	(ログナナ)		
Day les	he W	100	n 4	/19/	1 ス							

					GROUNI	WAT	ER SAMPLI	NG DA	ZA SI	HEET			
I	DENTIF	TICATION	0 10 . 5	· · · ·							Duo	in at NI 1	
2	ample L	ocation C	ARIE	50U W	VELL	I	Date 4/18	3/23	≥ Sta	art Time (0:30 s BM, KL	Stop time 1:45	Page of	
Z.	VEATH	OHITOI NUM	ber	- N.	la			San	npler	S RM KI	stop time <u>tty -</u>	or ageor [
<u></u>	mhient	Air Tompo	TONS	170		24	,		_	Wind: Heavy□]			
P	recinitat	ion. None	rature:	Constant	°C□	°FД	Not Meas	sured [Wind: Heavy□]	Moderate□ Ligh	ta	
Î	VITIAL W	ELL MEASU	REMENTS	(Measureme	eavy⊔ M	lodera	te□ Light[J Sun	ny□	Wind: Heavy□ 1 Partly Cloudy□		<i>></i> _(
S	tatic Wat	er Level Z	Total De	onth 1/2 S To	ents in ree	t mad	e from top	of well	casir	ng)	0/	110 21 0	
2	-inch =	0 1632 ga	I/ft /Line	ch = 0 6536	p oi scree	n <u>- 0 =</u>	2 Filter Pack	(Inter	/al_N	ng) a Borehole Diar sing Volume:	meter(inches)	(0-20+	
V	/ell Casin	e IDN/a v	Vell Casina	0.0528	s gai/π (o-incr	1 = 1.4688	gal/f	t Ca	sing Volume: 9	<u>⊘ √8</u> gallons ⁰	(26-16:	
				PUI		asing S	Stickup/1/O	Well C	asing	Stickup 2.4 Feet o	f Water 10/9		
FI	NAI WEI	I MEASIIDI	ENJERITO								-		
St	atic Wate	er Level29	Total Dent	ht/65Total V	olumo Bu	randys	3			olume (gal) Ma	~	2	
I	NSTRUM	MENT CAL	IBRATIC)N	olume Pu	rged <u>**</u>	Saturated	Boreh	ole V	olume (gal) Ma	x Pumping Rate	n/a	
p]	H Meter:	Meter Nu	mber OA	KTONO	1	Con	ductivity M	lotow.	Mata	"N"1 0 00\>	21011		
B	uffer 7	Measured	Value 7.	D Temp 215	7°C	Stand	dard0.447	mS/cm	Me	r Number CM) asured Value 0.5	2104-01	179	
B	uffer 10	Measured	Value O	Temp12	Zoc	Stand	dard 0A47	mS/cm	Me	asured Value 0,5	mS/cm Tem	p. <u>77</u> °C	
T.	urbidity	Meter: New	Standa	rd Ma NTU	Measure		end N	TU St	andaı	asured Value0 . E rd <u>\(\alpha \alpha \)</u> NTU Measu	red Value	DITLI	
				NTS DURING	<u>S PURGIN</u>	<u>G</u>					Tod value Fifte	_1110	
	Time Volume pH Con				Tem	p.	Turbid	ity			Comments		
		(gallons)	(gallons) (μS/cm)		°¢⊠ °	F□	Visual E		Comments				
ŀ	10110	J. San			,		Measured						
ŀ	10:30	1102	7.8	0.	8.		2.3		FI	ELD FILT	FRED!	THNO-	
- 1	11:30	485	8.1	0.3	4.8		201		PR	FSFRIFT	RAME	0 1	
- 1							-		120	OTTI E E	DUNCE.	X I	
									10/	NO III	JK 555		
Г									N	FOLUNUC	LIDES		
I													
-									CC	ULECTEL	> SAME	150	
╟									WI	TH DISE	CARI	Pomeri.	
L									CA	2 (110			
										nver blide	5 CUP		
ı													
┢													
L													
FII	VAL SA	MPLE PAI	RAMETE	RS									
- 1	Sample			ischarge∧	рН		Cond.	Ten	nn	Turbidity			
	Date	Time	cfsl	□ gpm □	•		uS/cm)	(°(Visual			
						"	, , , , , , , , , , , , , , , , , , , ,	'	٥,	Est.□ Measu			
\mathbb{H}	1 1 - 1	1.								red ✓			
	4/18/2	3 11:3	0 1	0.0	8.1		0.3	4.5	7	2.1			
Du	olicate Sa	mnle_02	(comple e					100	0	601			
				ontrol numbe			n/a)			
Fie	ld Blank-	03	(sample co	ntrol numbe	r/time		n/a)			
Rin	sate Sam	ple-04	(sample co	ontrol numbe	er/time		n/a						
Mat	trix Spike			ntrol numbe			n/a)			
			(sample co	ontrol numbe	er/time		n/a)			
Not	es:SAI	MPLET	NIA	PORT.	*65	11/(-1	-26f	F) 8	₹ LI	台"(15-11	05 FH)		
Sam	pler's Si	gnature			- 70		~ ,	, ,	~	12 00 11			

Your Mozain 4/18/23

GROUND WATER SAMPLING DATA SHEET

IDENTIF	FICATION					EIN SAIVII EI	NO DA	IA JI	ICCI		
Sample L	ocation	ROSS	S POR	ZTAL	_ I	Date 4-/15	3/22	Sta	rt Time 12:00	Pro	ject Number:
Sample Location CROSS PORTAL Date 4/18/23 Start Time 12:00 Stop time 12:30 Page of Sample Control Number Samplers SAMPLER CONDITIONS											
WEATH	ER CONDI	TIONS	,					-Press	BN, EL		
Ambient.	Air Temper	cature: _		°C□	°F□	Not Mea	sured [J 1	Wind: Heavy□ N	Anderste Tigh	+ □
corpicat	THORE THORICE		SHOW LI	eavvil ivi	Oderai	el l lohti	Suns	277	Doutly, Classiful >	Toderated Light	
HALLING AA	FFF INIEWOOL	CIVICIA 12	livieasurema	ants in tee	t mad	o from ton	of wall	cocin	and the same of th		1
Static wat	er Level	_ Total De	pthTo	o of Screen	Contract Property lies	Filter Pac	k Interv	al	Borehole Dian	neter(inches)	1/1
2-111011 -	0.1025 Bai	/π 4-Inc	n = 0.6528	s•gal/ft €	-inet	1 = 1.4688	_σal/ft	Cad	sing Volumo:	gollone	$\backslash \backslash / \Delta$
vvcii Casiii	g ID W	reii Casing	ODPr	otective C	asing S	Stickup	Well Ca	asing.	Stickup Feet o	f Water	1///
wen puige	eu with:	A CONTRACTOR OF THE PARTY OF TH	September 19 Park							_	,
FINAL WEI	LL MEASURE	MENTS									
Static Wat	er Level T	otal Dept	h Total V	olume Pui	ged	_ Saturated	Boreh	ole Vo	olume (gal) Ma	x Pumping Rate	
TI IN THEOLI	MENT CAL: Meter Nun	TINE THE STATE OF									0
Buffer 7	Measured V	Nobre 7	Town 4/4	<u> </u>	Con	ductivity M	leter:	Meter	Number CM -	2104-01	479
Buffer 10	Measured V	Value 10	1 emp. ///	1°C	Stan	dard <u>(), 44-</u>	mS/cm	Mea	sured Value 0.9	mS/cm Tem	p. <u>2 Z</u> °C
Turbidity	Meter: New	Standa	rd W (a NTI)	TC Mengura	Stan	dard <u>0,94</u>	mS/cm	Mea	sured Value 0.	5_mS/cm Tem	р. <u>22</u> °С
FIELD PAR	AMETER ME	ASURFME	NTS DURING	INTERSULE DI IDGINI	u valu	ie <u>AMO</u>	IIU Sta	andar	di <u>Ma</u> NTU Measu	red Valuena	_NTU
Time	Volume	рН	Cond.					_			
	(gallons) (μS/cm)		1	°CI °		Turbid Visual E			(Comments	
	(μο/ς///		(μ3/сп)		гШ	Measure					
12:15	15 N/A 8.1 0.3 6.0				0		Juisi	parts ,	-10 =		
	115 1/0 8.1 0.3 6.0				J	3.		+11	ELD FILT	EKED 4	- HNO2
								PK	ESERVED	BOTTLE	FOR
								DIS	SOLVED A	NETALS	N A
								BO	TITLE FOR	RADIONIL	CLIDEC
								120	THE TURE	BUDIONO	CUIDES
								0.07			
								(10)	LLECTED	SAMPL	ES MITH
								DE	5POSA A	F SAMI	PILING
								CII	P.	JI CT Y CI	01140
									<u> </u>		
FINAL SA	MPLE PAI	RAMETE	CRS								
Sample	Sampl	le D	ischarge	pН		Cond.	Ten	nn	Turbidity		
Date	Time		□ gpm□	1		μS/cm)	(°(Visual		
	8				`	(()	'	٥,	Est.□ Measu		
									red ✓		
4/18/0	13 12:1	5 n	10	8,1		0.3	10	20			
			V				6,1	U	3.1		
Duplicate S	•	(sample co	ontrol numb	er/time		n/a)		
Field Blank	-03	(sample co	ontrol numb	er/time		n/0)		
			1 1	/4:		0/0	1				
Rinsate San		(sample c	ontrol miimb			1110	J.)		
	nple-04	(sample c				/					
	nple-04		ontrol numb			n/a	7)		
	nple-04 te-MS	(sample co		er/time		/	7				
Matrix Spik	nple-04 te-MS	(sample co	ontrol number	er/time		/	7)		
Rinsate San Matrix Spik Notes: Sampler's S	nple-04 re-MS ((sample co	ontrol number	er/time		/	7)		

Moshe Moton 4/18/23

Sample Lo Sample Co WEATHI Ambient Precipitat INITIAL WI Static Wat 2-inch = (Well Casing Well purge FINAL WEL Static Wat INSTRUM pH Meter: Buffer 7 Buffer 10 Turbidity	Air Temperion: Nonel ELL MEASURE O.1632 ga g ID W ed with: L MEASURE ER Level Meter Nur Measured Measured Meter: New	ber M. ITIONS rature: Rain REMENTS Total Depth IMPROVAL DEPTH IBRATIO TOTAL DEPTH IBRA	Snow H (Measurement pth To h = 0.6528 OD Pr Total V Temp. 21	eavy Ments in fee p of Scree g gal/ft otective C	°F□ Ioderan It made n S-inch asing S rged Cone Stand	Not Meas te□ Light□ e from top o Filter Pack f = 1.4688 Stickup Saturated ductivity M dard OATA	San Surred E Sunred I	Stannplers ny casin ral t Cas assing ole Vo	wind: Heavy 1 Partly Cloudy 1 Partly Cloudy 2 Borehole Dialsing Volume: Stickup Feet of the saured Value 2 Saured Value 3 Saured Value 3 Saured Value 4 Saured Value 4 Saured Value 5 Saured Value 6 Saured Value 7 Saured Val	Moderate☐ LigI meter(inches) gallons f Water x Pumping Rate 210 4 - 01 mS/cm Ter	479 np.22°C
Time	Volume (gallons)	рН	Cond. (µ\$/cm)	Tem	Temp. °C⊠ °F□		Turbidity			Comments	
1.0	(8			1		Visual Es Measure					
11:15	n/a	8.5	0.3	4.3	3	3.6	7	FI:	ELD FILT	PRED 1	410-
								PR	ESERVED	BOTTLE	111113
			1,50					20	TILE END E	ADIONIL	2/12/50
		***						0.0	THE FUR I	VADIUNUC	LIDES.
		197						CO DIS	LECTED SPOSABL	SAMPLE E SAMP	S WITH
	á					**					
	27									,	
	,,,										
						•					
	* *					V-					
FINAL SAI	MPLE PAI	RAMETE	RS								
Sample				pН		Cond	T		77 1111		
Date	1 2100114120					uS/cm)	Cond. Ten .S/cm) (°C		Turbidity Visual Est.□ Measu red☑		
4/18/23	3 11:1	5 1	1/01	8.5	(0,3	4,	30	3.6		
Duplicate Sa	imple-02	(sample co	ntrol numbe		AO	12011			20 6		
Field Blank-			ntrol numbe		AR	1800	02				
Rinsate Sam			ntrol numbe		2 4 " 9	n/a)		
Matrix Spike	D 10000		ntrol numbe			nla)		

Notes:

Sampler's Signature

Brooke Motan 4/18/23

(sample control number/time_

SURFACE WATER SAMPLING DATA SHEET

SWAMP	Field Date	Chart (M. 4											
*StationID	ZOZ	Sheet (Water	er Chemisti			EventType	=WQ	ERREFERENCE	oblia6se.hl/kin2i0a0	18/Idate) in	10	Pg 1	of Po
				*Date (mm/d		115	123	*Group: 📉	10				nla
*Funding:				ArrivalTime:		DepartureTir	ne:10:15	*SampleTim	00	*Protocol:	10/0		
*Personnel:		IKL		*Purpose (circ	le all that apply):	WaterChem W	aterTox FieldC	bs FieldMeasur	e		lure: v/a		41100
		eg Midchannel		*GPS/DGP	S Lat (de	d.ddddd)	Long (d	ldd.ddddd)	OCCUPATIO		Walk-in Bride	ne PA/	Other
		AYPOINT	IS APP	Target:	39.97	904	-105,0	7585			downstream):		
Datum: NAD		Accuracy (ft./	0 1000	*Actual:	39,97	8993		575798	Po	oint of Sample	(if Integrated,	LB / RB /	NA
Field Ob:	servations	(SampleTy	pe = FieldOl	bs)		WADEABILITY:	BEAUFORT	2.2110	DISTANCE				
SITE	E ODOR:	None, Sulfide	s,Sewage,Petr	oleum,Mixed.C	Other	Y N / Unk	SCALE (see attachment):	2	FROM BANK	17.5"	STREAM WI		->!
SKY	CODE:		Cloudy, Overc	~		WIND	N.	HYDROMODIE	(m): FICATION: None		WATER DEP	TH (m): 2	5.5"
	PRESENCE:				1.04	DIRECTION	Mrs De E	, tonaizipinie, C	70101		LOCATIO	N (to sample)	I, Culvert, US / DS / WI /
-	TSUBSTRATE		nvascular,OilyS			(from): SE	17	PHOTOS (RB & LB assigned vnstream; RENAM	AE to	1: (RB / LB /		
	RCLARITY:		ncrete, Cobble						e_yyyy_mm_dd_u	uniquecode):	2022-1 2: (RB/LB/	01-01	-MAY
	ERODOR: (ottom), Cloudy			PRECIP	ITATION:	None, Fog, C	rizzle, Rain, Sr	now			
			es, Sewage, Pe		d, Other	PRECI	PITATION (las	st 24 hrs):	Unknown, <1'	", >1", None	2022-	01:0	2_MA
WATERCOLOR: Colorless, Green, Yellow, B OBSERVED FLOW: NA Dry Waterbody Red, No.							_				3: (RB / LB / I	BB/US/DS	/ ##)
THE REAL PROPERTY.	The same of the sa	NA, Dry Wate	erbody Bed, No	Obs Flow, Is	olated Pool, Tri	ickle (<0.1cfs),	0.1-1cfs, 1-5d	ofs, 5-20cfs, 20	-50cfs, 50-200	cfs, >200cfs	2022	01_0	3_MAY
Fleid Mea	asurement	s (SampleTy	/pe = FieldN	leasure; M	ethod = Fie	ld)							
	DepthColle (m)	Velocity (fps)	Air Temp	Water Temp (°C)	pН	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (uS/cm)	Salinity (ppt)	Turbidity (ntu)	Stage Ht (units)		
SUBSURF/MID/ BOTTOM/REP	1	1,49	38.50	0.20	7.6	n/a	n/a	0.3	n/a	6.6	nla		
SUBSURF/MID/ BOTTOM/REP										000	1100		
SUBSURF/MID/ BOTTOM/REP Instrument:			Andre d		0110								
Calib. Date:			Ambient		Ug Kator I			Bluelap					
Samples '	Taken (# of	containers	1.707	hod=Wata	r Cuah	Field D		N/a					
SAMPLE TY	PE: Grab /	Integrated				riela Dup YES	/ NO: (Sample)	Type = Grab / Inte	grated; LABEL_I	D = FieldQA; cr	eate collection re-	cord upon data	entry
	DepthCollec			CTION EQUIP	T	Indiv bottle (by	hand, by pole	e, by bucket); T	eflon tubing; K		& Beaker; Othe	er	
21/2	(m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs
Sub/Surface Sub/Surface	9	nla	No	na	- 1	nla	·	3			nla	nla	n/a
COMMENTS													
PLE	ASE :	SEE	IAR	RE	DOST	Distr.	The second secon						
Run:	T		Lang Change		PURI	3		Ico	mala Drassasia - I	(
Sample ID #:								Sar	mple Processing I	Date:			
	Site Code:												
	# Small Wells					_							
- 1	# Large Wells					-							
Yellow +	Empty Wells MPN					-							
				1									
L	# Small Wells												
	# Large Wells												
Yellow + Fluorescence	False Positives			1									
(+)	MPN												
emp/Time S	Start	4Hr, Cl	The same of the sa		14 Hr. Check		10	B Hr. Check		20115-0			
N	ormal Sample #		FIELD DUPL	ICATES					LA	B DUPLICATE	heck, if needed S		
D	Ouplicate Sample	# MPN					Normal Sample # Duplicate Sampl	e#					
TOTAL N	lormal	IAICIA		LUWGI	95% CI	ppei			MPN			95% CI	F. S.
COLIFORM D	Ouplicate Mean					17	Normal Duplicate				Lower		Upper
E. COLI N	lormal			Pass	Needs	Review	Mean Normal			-	Pass	Nee	ds Review
M	uplicate lean			Pass	Nacda][Duplicate				·		
#	ield Sample			Pass	Needs	Review L	lean .ab Sample #				Pass Pass		ds Review
ean = Mean of No ampler Signature	ormal and Duplicate re / Date / Time Ar	, which is then compa	red to the individual	corresponding Cl's	to determine accept	tability of data						INEE	ds Review
ocessor / Date /				Incubator By / Da					Trays Re	ead By:	THE STATE OF THE S		
OTES:			In railed trop	n Incubator By / I	pate / Time:				Entered	into database:			-

Moran 5/15/23

SURFACE WATER SAMPLING DATA SHEET

SWAMP	Field Data	Sheet (Wate	er Chemistr	y & Discret	te Probe) -	EventType:	=WQ	EROL-BOAR	P.b(1a6se.lul/in2i0al	98/hate) V	(a	Pg \	of \ Dec
*StationID:		2-02			d/yyyy): 5		123	*Group:	N	/		1	of Pgs
*Funding:	nla			ArrivalTime:	_	DepartureTin		-	ne (1st sample)		٦	*Protocol:	2/9
*Personnel:	BM.	<u></u>			le all that apply):				re (1st sample)	*PurposeFail	P.	FIOLOCOI.	n/a
*Location(Bank Thalwe	g Midchannel	OpenWater	*GPS/DGPS		i.ddddd)		ldd,ddddd)	4	ON METHOD			
GPS Device:			TE ACC	Target:	20 07	5707		56932	~		Description of the last of the		Other
Datum: NAD	983	Accuracy (ft /	m): 1,40	*Actual:	39,97	5822	0 00 -000	26,197		BANK (facing o			
Field Obs	servations	(SampleTyp	J 11 1 5		31/17	00/0	BEAUFORT	50750	DISTANCE	oint of Sample	(if integrated,	then -88 in dba	ase)
	ODOR:		s,Sewage,Petro)ther	WADEABILITY: Y /) N / Unk	SCALE (see		FROM BAN	(11, 13/1	STREAM WI	DIH (m): 22	-072
SKV	CODE:			_		WIND	attachment):	HYDROMOD	(m): FICATION: None	Bridge Pines			Cubrart
			Cloudy, Overc		malland	DIRECTION	Non-Per E						
	PRESENCE: FSUBSTRATE:		nvascular,OilyS			(from): SE	171	- de	(RB & LB assigner wnstream; RENA	ME to		BB / US / DS /	
	RCLARITY:		ottom), Cloudy					The state of the s	de_yyyy_mm_dd		10/20	BB/US/DS/	-MAY
	RODOR:						PITATION:		Drizzle, Rain, S	1			,
WATERODOR: (None) Sulfides, Sewage, Petroleum WATERCOLOR: Colorless, Green, Yellow, Brown					a, Other	PRECI	PITATION (las	st 24 hrs):	Unknown, <	1") >1", None		-02_0; BB/US/DS/	
	VED FLOW:				alated Deal To	-11- (-0.4.6.%							
Design to the second second	A STATE OF THE STA	(SampleTy	ne = Field	Measure: M	ethod - Fig	Idi)	(0.1-1cts) 1-50	cts, 5-20cts, 2	0-50cfs, 50-200	Ocfs, >200cfs	0000	02_0	5-MAY
	DepthCollec		A ! . T .		etilou - Fle	iu)	I	Specific		I			
	(m)	Velocity (fps)	Air Temp	Water Temp (°C)	рН	O₂ (mg/L)	O ₂ (%)	Conductivit (uS/cm)	Salinity (ppt	Turbidity (ntu)	Stage Ht (units)		
SUBSURF/MID/ BOTTOM/REP	1 "	1019	37.60	1.70	8.1	nla	n/a	0.4	n/a	21.3	n/a		
SUBSURF/MID/ BOTTOM/REP													
SUBSURF/MID/ BOTTOM/REP			B 11										
Instrument: Calib. Date:			Ambient		0akton			Bluelab					
		containers	THE RESERVE OF THE PERSON NAMED IN	thod=Wate		Field Due VE	S NO. (Complete	T-VVQ					
	PE: Grab / I		T	CTION EQUIP					tegrated; LABEL				
	DepthCollec		Bacteria	Chla			575	Dissolved	Teflon tubing;	Discolved	& Beaker; Oth	ef) 213 PO	SARCE
Sub/Surface	(m)	M/A	n/a	n/a	TSS / SSC	TOC/DOC	Total Hg	Mercury	Total Metals	Metals	Organics	Toxicity	VOAs
Sub/Surface			- 1100	11701		1.101		2	1		n/a	n/a	nla
COMMENTS		CATE	= 20	22-	02-	02							
	ME	BX3	LANE	= 2	022-	02-	03						
DIEA	SE S			<i>(</i> 10)	other other second of	-02-	MS						
Run:	10C 3		LAB	REP	UKI	¥		ı ı	ample Processing	Date:			
Sample ID #:								Ì	ample i rocessing	J Date.			m/
	Site Code:												
-													
	# Small Wells												_
	# Large Wells												
Yellow +	Empty Wells MPN												
	# Small Wells			-									
	# Large Wells												
Yellow+	False												
Fluorescence (+)	Positives MPN												
Temp/Time	Start	4Нг. (Check		14 Hr. Chec			19 Hr Charl					
	Normal Samala 4		FIELD DUF	PLICATES	. This offect			18 Hr. Check		22 Hr. (LAB DUPLICATI	Check, if needed ES		
	Normal Sample # Duplicate Sample	e#					Normal Sample Duplicate Samp	ple#					
TOTAL	Normal	MPN		LUWGI	95% CI	Opper			MPN		Lower	95% CI	Upper
COLIFORM	Duplicate						Normal Duplicate						
E. COLI	Mean Normal			Pass	Nee	s Review	Mean Normal				Pass	Nee	ds Review
	Duplicate Mean			Pass	Nee	s Review	Duplicate Mean				Pass		ds Review
	Field Sample #			Pass	Nee	ds Review	Lab Sample #				Pass		ds Review
Sampler Signati	Normal and Duplicat ure / Date / Time A	e, which is then comp Arrived:	pared to the individu Placed i	al corresponding Cl n Incubator By / D	's to determine acce Date / Time:	ptability of data			ITrave	Read By:			
Processor / Date	e / Time:			om Incubator By						ed into database:			
MOTES:									1				

Phoshe Moran 5/15/23

	IDENTIF	<u>ICATION</u>					ER SAMPLI					
	Sample Lo	ocation	CROS	S WE			Date <u>5/16</u>	123	Sta	art Time 12=00	Project Number Stop time 3-15 Page of	:
3	Sample Co WEATHI	ontroi Numb	rions	1/0				Sar	npler:	SBM. KI	btop time 10 1 2 rage 1 01	1
	Ambient 2	Air Temper	rature:	55.8	°CП	ODE	CATURE		-		Moderate□ Light□	
	Precipitat	ion: None	Rain	Snow□ H	eavy M	عرب Iodera	te□ Light	surea I	u nvid	Wind: Heavy□ : Partly Cloudy□	Moderate□ Light□	
	INITER LAND	TIL BAT ACLI		-				- 5411	AL Y Sime	I ally Cloudy		104)
	2_inch =	er Levet	Total De	pth <u>205</u> To	p of Scree	n_15	_ Filter Pac	k Inter	val_√	Ta Borehole Dia	meter(inches) 7711	
,	Vell Casin	0.1025 Bai	/π 4-ind	ch = 0.6528	8 gal/ft (5-inch	n = 1.4688	gal/f	t Ca	sing Volume: 18	9" (0-4) meter(inches) 57" 4.5gallons 8 (40-	205A
		d with:	CII COSIII	OD A	DIECHVEL	asing :	Stickup <u>VV/O</u> \	Well C	asing	Stickup <u>1-2</u> Feet c	f Water	
	INAI WEI	I MEACHDE	RAERITC									_
	Static Wate	er Level 2 T	otal Dept	1209 Total V	olume Pu	rged <u>6</u>	Saturated	Boreh	ole V	olume (gal) 185Ma	x Pumping Rate 1/0	
Ī	H Meter:	IENT CAL Meter Nun	IBRATIC	N	ā							
ŀ	3uffer ≠	Measured V	Value 7.	Temp 11.	200	Con	ductivity N	leter:	Mete	r Number CMI-	-2104-01479	
1	Suffer U	Measured V	Jahueto (Tamp 17	500	Stan	dard 0,445	mS/cm	i Mea	asured Value ()	mS/cm Temp. \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
F	I Urbidity	Meter: New	Standa	rd <u>n lo</u> NTU	Measure		ie <u>n/a</u> N	TU S	andar	duaNTU Meas	mS/cm Temp. 2°C ared Value NTU	
·	Time	Volume	pH	I TO DOMINA	J FORGIN	<u>u</u>						
		(gallons)	рп	Cond. (μS/cm)	Tem °C⊠ °		Turbid Visual E				Comments	
				(μο, επη	Cjaj	. Ш	Measure					
	12:00	0	7.0	0.3	10.	60	20	3	FI	ELNEIL	TEPESAAN	_
	13:00	624	7.0	0.3	6.	30			DR	ESERVE	POTT F FOR	2
									DI	SSOLVET) METAIC & 1	
									11	- BOTTLE	FOR	
									RI	ADIONUC	LIDES	-
									CO	LLECTE	SAMPLES	A .
									WI	TH DISP	OSABLE	
									SA	AMPLINE	3 CUP	
ן נאו	INAL SAN	MPLE PAR	A MATERIAL	DG								
-	Sample			ischarge		ī						
	Date	Time		gpm 🗵	pН	i .	Cond. µS/cm)	Ter	-	Turbidity		
				SI /-(,	μισ/cm)	(°(~) 	Visual Est.□ Measu		
	c / / -				- 0					red□		
	5/16/23	3/13:00) 7	2.0	7.0),3	6.	30	1.6		
	aplicate Sa		sample co	ntrol numbe	er/time		n/a)		
Fi	eld Blank-	03 (sample co	ntrol numbe	er/time		nla			-)		
Ri	nsate Sam	ple-04 (sample co	ntrol numbe	er/time		0/0	A				
Ma	atrix Spike			ntrol numbe			n/c	-				
_				ontrol numb			n /c	A/				
No	tes: SA	MOLE	D M	A POR	T */	511	/ 1 11	2 01	0 /	(4克"(15-	0/3	
Sai	mpler's Si	gnature	VI		1 (8	(-1-H(1+) X	42 (15-	205 (+)	
**	Sha	1		- 1	1	Villaber						
	Y/ LOO	M W	wow	1 5/	16/2	3						

GROUND WATER SAMPLING DATA SHEE	GROUND	WATER	SAMPLING	DATA	CHEET
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Sar Sar WI An Pre INI Stat 2-ii We We FIN Stat INS pH Buff Buff	mple Lomple Comple Comple Complete Comp	Air Tempe ion: None ELL MEASURE CO. 1632 ga gl Dallo With: We Level-Zer Level-Zer Level-Zer Meter Nur Measured Measured Meter: New M	ber	Snow H (Measurement) The control of	eavy Moents in feet p of Screen 8 gal/ft 6 rotective Ca //olume Purg	°FI odera mad 05 -incl ssing Con Stan Stan Value	Not Measter Light Light Light Light Light Light Light Light Light Stickup 1/0 Saturated Light Mandard Light	Sar Sured I Sun of well Inter gal/f Well C Boreh	Stanpler ny Casin casin t Ca assing ole V Metee	art Time 13:00 Stop time 13 S BM, KL Wind: Heavy Moderate Partly Cloudy	1. Light (1) 9"(0-50 A+) 6"(50-165 A-) 1. Light (1) 16 A-16 A-16 A-16 A-16 A-16 A-16 A-16 A	1
	Time	Volume (gallons)	pH	Cond.	Temp	•	Turbid	ity	Ī	Comments	NIO	
		(gallolis)		(μS/cm)	°Ç⊠ °F		Visual E Measure					
	3:00	0	7.6	0.3	5.9	0	2.3		EI	ELD CITEBED	1 11 10	
13	330	554	7.4	0.3	5,7	10	3.1	7	PÉ	RESERVED RI	THUOZ	
-					· ,				1	BOTTLE FOR	ZULEX	
-									RI	FDIONUCLIDES	24	
-												
-									CC	LECTED SAN	1PLES	
-									MI	TH DISPOSA	31	
									SA	MPLINE CUF	>	
						_						
									-			
FINA	AL SAI	MPLE PAF	RAMETE	RS								
	Sample	Sampl	le D	ischarge	pН		Cond.	Ter	nn	Turbidity		
	Date	Time	cfs[□ gpm □			μS/cm)	(°(Visual		
		1								Est.□ Measu		
51	16/2:	3 13:3	0 1	0.4	7.4	1	0.3	50	70	redD		
Dupli	icate Sa	mple-02	(sample co	entrol numbe				-110	7	· · · · · · · · · · · · · · · · · · ·		Ma.
Field	Blank-			ntrol numbe				121	7	02	7	
	te Samj			ontrol numbe				TIL	-	03)		
	x Spike			ntrol numbe			n/	01)	7	
	Брис	`					N	1a)		
Notes				ontrol numb		1/		102)		
Come 1	10 A	WHITE	AT	WELL.	水白景	1	-1-50	H.) &	42"(15-165-	P+) /	
Sampl		5							5.0	Land		
	Y	looke	1/m	len	5/16	12:	3					

GROUND WATER SAMPLING DATA SHEET

	IDENTIF	ICATION									
	Sample Lo	ocation_C	ARIBI	DU WE	LL		Date 5/16	1/2:	2 St	art Time 10:30 Stop time	Project Number:
	Sample Co	ontrol Num	ber	nla			- 1 C	San	nler	Stop time	Page of
	WEATHI	ER COND	ITIONS	- 1 - 0				Dun	ipici	Wind: Heavy Moderate Partly Cloudy	
	Ambient	Air Tempe	rature: _	54.7	°C⊏	oFK	Not Mea	sured []	Wind: Heavy Moderate	1 7:41471
	Precipitat	ion: None	Rain□	Snow□ H	eavy□ N	Iodera	te Light[□ Sum	nv⊠	Partly Cloudy	i righta
	Chatia Mari	ELL MEASU	REMENTS	(Measureme	ents in fee	et mad	e from top	of well	casi	ng)	9"(0-26+
	oracic stati	CI LEVEL V	/ Total De	DIN 10 7 10	n of Scree	n	Eiltor Dool	I lada		- 10	es) / // 25/
	2-inch = (0.1632 ga	I/ft 4-ind	h = 0.6528	3 gal/ft	6-incl	n = 1.4688	gal/fi	t Ca	Borehole Diameter(inch sing Volume: 120,2gall	cons (26-16)
		2 10 111 Of A	ven casing	OU A Pr	OTECTIVE (asing	Stickuph/a	Well Ca	asing	Stickup <u>ZoU</u> Feet of Water n	/0
	1 0-		11111	LP	UMF	>				- Treet of Water / t	101
	FINAL WEL	L MEASURI	<u>EMENTS</u>			14	22				
1	Natic Wate	er Level	Total Depti	h <u>l</u>	olume Pu	rged₫	Saturated	Boreh	ole V	olume (gal) 120 Max Pumping	Rateh /a
2	nH Matar	IENT CAL	JBRATIC	<u>N</u>							
1	Buffer 7	Measured	Wohn 7	Temp. 2.	200	Con	ductivity M	leter:	Mete	er Number CM1-Z104 easured Value 0.8 mS/c	1-01470
1	Buffer (Measured	Value 10	Tomn 17	TOC	Stan	dard(),94	mS/cm	Me	easured Value O.S mS/c	m Temp. 12°C
5	Turbidity]	Meter: New	Standa	rd is ONTI	Mooning	Stan	dard(),44 +	mS/cm	Me	asured Value 0.5 mS/c	m Temp. 12°C
<u>F</u>	IELD PARA	METER ME	ASUREME	NTS DURING	INICASUIC	u van	ie N/O N	TU St	anda	rasured Value mS/c rd <u>n/a</u> NTU Measured Value	na NTU
	Time	Volume	рН	Cond.	J. OKOM						
		(gallons)	Pit	(μS/cm)	Tem °C⊠ °		Turbid			Comments	
		(0		(μ3/ (111)	CA.	ГШ	Visual E Measure				
	10:30	0	7.4	0.2	8.1	0.0			-		
	11:30	483					3.5	_	1	ELD FILTERE	DI HNOZ
	11750	100	6.7	002	5.	40	4-	+	PR	RESERVED&	7 1-1
									R	OTTLE FOR	
									R	ADIDAMO	- (
									1	VEIDING CLILE	
						-			00		
									C	LLECTED S	AMPLES
									M	TH DISPOSA	BLE
									SI	AMPLING CI)FX
											control GA
											· ·
_											
F	INAL SAI	MPLE PAI	RAMETE	RS							
	Sample	1		ischarge	pН		Cond.	Ten	n	Turbidity	
	Date	Time	cfs[□ gpm 🖾			μS/cm)	(°C	-	Visual	
				,		``		`	-)	Est. Measu	
	/1. /	11.0	1							red	
	5/10/2	3 11:3	101 10),()	6.7	(0,2	5,1	10	4.7	
Di	uplicate Sa	mple-02							1	97	
		-		ntrol numbe			nla)	
Fi	eld Blank-	03	(sample co	ntrol numbe	r/time		n/a)	
Ri	nsate Samj	ple-04	(sample co	ntrol numbe	er/time		0/0	1			
M	atrix Spike			ntrol numbe			10/0	1)	
			(sample co	ntrol numb	/+i		10/	2)	
NL	tec.	AA TOI	(Sample of	IA Po	or/time	41.	= //	()\			
TAC	ics.	MILL	ED V	IA PC	PRT.	10	13"(-1	-71	, 6	A) & 4/2"(15-1	65 FL)
Sa	mpler's Sig	gnature	a 1	~ A			8	6	1	12 12 1	0017/
		Y	MARIA	e 1/1 1	nav	١	5/11-	10-	7		
		ζ	1000	- 1.00	-0 1	200	1/10	14	>		

	VII. VII. VIII.				GROUND	WAT	ER SAMPLI	NG DA	TA SH	łeet		
	IDENTIF:	ICATION									Pro	ject Number:
	Sample Co	ntrol Num	CROS	SS POF	STAL	1	Date <u>5/11</u>	0/23	≥ Sta	rt Time 12:00	Stop time 2 = 3	OPage of)
	WEATHE			N/0				San	nplers	BM, KL		<u> </u>
	Ambient A	Air Tempe	rature:		°CП	٥E	Not Men	1 F	- ,	EW74 N YY 1888 -		
	1			SHOW L	Carvell IVI	odera	Tel I Liohti	Viin	nxi	Dontly Clares	Aoderate∟ Ligh	t□
	HALLINGE AAF	FF IAIFW20	VEINIEIA 12	livieasurem	ents in tee	t mad	o from ton	of woll	- The second sec	-1		
NI/A	Static wate	er Level_	Total De	epth To	n of Screen	1	Filter Dac	Inton	Tools.	D	neter(inches)	
NA	2-111CH - C	7.TO25 89	1/π 4-Inc	ch = 0.657	s gal/ft 6	5-inch	1 = 1 //688	Gal/f	t Car	cing Value		
	aren casing	- Commence of the last of the	Vell Casing	OD Pr	otective C	asing S	Stickup	Well C	asing	Stickup Feet of	f Water	
	Par BC	a with.					The state of the s					120 Control of Control
	FINAL WEL	r l evel	Total Dont	N/A	(-l 5							
	INSTRUM	ENT CAL	JRRATIO	u lotal v	olume Pui	ged_	_ Saturated	Boreh	ole V	olume (gal) Max	k Pumping Rate	
	pH Meter:	Meter Nu	mber OA	RTONO)(11-0
	Buffer_+	Measured	Value 7	O Temp 12	700	Stan	dard 0, 443	mS/cm	Mes	r Number CM - asured Value 0.5	2104-011	179
	Buffer (()	Measured	Value 10	Temp 171	-oc	Stan	dard 0,447	mS/cm	Mea	sured Value O	mS/cm Tem	p. <u>12°C</u>
	Turbidity I	Meter: No	MyStanda	rd NANTU	Measure	n van	iena N	TU St	andar	sured Value O. d NTU Measu	red Value V /O	NTU
		HOLE LELVIVIE	AJUKLIVII	TIA 13 DOKIN	G PURGIN	<u>G</u>						
	Time	Volume	pН	Cond.	Tem		Turbid				Comments	
		(gallons)		(μS/cm)	°C 🔀 °	F	Visual E					
	12:15	n/a	7.7	0.2		20	Measure					
	(0,1)	VIICA	767	0.3	5.9	5	9.	9	FI	ELD FILT	RED 1	HNOZ
									PF	RESERVE	D BOTTO	= 2
									1	1-L FOR	RADIONU	CLIDES.
									00	LLECTED	SAMDI	FC
									111	TH DISPO	SARIE	112
		5,000							CI	MARINE	CITIZ	
									21	INII CINE	5 CUT.	
			,									
:	FINAL SAN											
	Sample Date	1		ischarge	pН		Cond.	Ter	np.	Turbidity		
	Date	Time	cis	□ gpm□		(μS/cm)	(°(C)	Visual		
										Est.□ Measu		
	5/11/2	312:1	5 1	nla	7 7		0 2		00	red		
	21 410	7			7.7		0.3	5.	.80	9,9		
	Duplicate Sa	mple-02	(sample c	ontrol numb	er/time		n/a)		
	Field Blank-	03	(sample c	ontrol numb	er/time		N/a					
	Rinsate Sam			ontrol numb			n/a					
	•						VIZA)		
	Matrix Spike	:-IVIS	(sample co	ontrol numbe	er/time		n/a)		
			(sample o	ontrol numb	er/time		nla)		
	Notes:						p					
	Sampler's Signature	onature \	A 1	~^.		_	_	,				
	Pier D DI	Similar	MARK	e M	DON	\wedge	51	16	12	3		
			, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	- 1			,					

	TTO ELAVORES	IC I MY CAN			GROUND	WAT	ER SAMPLI	NG DA	TA SH	IEET		
	IDENTIF	ICATION Cation	APIE	0.1.00	C-14	B-10	= 5/1	/		10170	. Pro	oject Number:
	Sample Co	ontrol Num	ber	NA	RIMI		Date <u>5/16</u>	12=	≤ Sta	rt Time 10:30	Stop time	Page of
	WEATHE	R CONDI	TIONS					_ San	npiers	BM, KL		
	Ambient A	ir Tempe	rature:		°C□	°F□	Not Meas	ured [J ,	Wind: Heavy□ N	Moderate□ Ligh	√ +□
	P	TOTTE TAOME	- Trettil		eavvii ivi	loderai	Tel laghtl	1 Sim	nx	Doutly Claude	vioderated Ligi	10
	Static Wate	TE MIEWOO	VEINIEM 12	(ivieasureme	ents in fee	t mad	e from top o	of well	casin	g)	CONTROL OF THE PROPERTY OF THE	-
	2-inch = 0	1632 ga	_ Total Do	ch = 0 653	p of Scree	n_	_ Filter Pack	Inter	/al	Borehole Diar	neter(inches)	
10	Well Casing	7.1032 ga 7 ID V	1/11 4-111 Vell Casino	CII = 0.052	s gai/π (b-incr	1 = 1.4688	gal/f	t Cas	sing Volume:	gallons	
/A	Well purge	d with:	ven casing	, OD FI	otective C	asing :	стіскир	weii C	asing	Stickup Feet o	f Water	
(FINAL WEL	L MEASURI	MENTS									
	Static Water	r Level	Total Dep	th Total V	olume Pu	rged	_ Saturated	Boreh	ole V	olume (gal) Ma	x Pumning Rate	
												-
	Buffer 7	Measured	Value 7	KTONO OTemp. 12.	7°C	Con	ductivity M	leter:	Meter	Number CM 1	-2104-0	1479
	Buffer (O	Measured	Value 10	OTemp.12.	5°C	Stan	dard 0, 1911	mS/cm	Mea	sured Value O.	mS/cm Ter	np. <u>12</u> °C
	Turbidity I	Meter:New	WStand:	ardin /a NTI	Measure	d Valu	ie N/a N	TU St	tandar	sured Value 0. d \(\lambda \) \(\lambda \	mS/cm Ten	np. 12°C
		CIAIT LEIV IAIT	ASUREM	ENTS DURIN	G PURGIN	G				- David Midde	ned value <u>/ U/DC</u>	NTO
	Time	Volume	pН	Cond.	Tem		Turbidi			(Comments	
	~5	(gallons)		(μS/cm)	。c\sq.	F□	Visual E					
	11:15	n/a	7.2	0.2	3.	(-0	Measure 18.3			T-10 -::		
		100	102	06 2	00	0-	1800	5	Dr	ELD FILT	ERED 1	- HNO3
									Pr	KESERVE	D BOTTL	EX1
									1	L BOTTL	E FOR	
			7						K	ADIUNUC	LIDES	>
									0.0			
									CC	MECTEL	SAMP	LES
	-								MC	TH DISPO	SABLE	
									SA	MPLIN	6 CUP	S
	-											
	FINAL SAI			ERS								
	Sample	1		Discharge_	pН		Cond.	Ter	np.	Turbidity		
	Date	Time	cfs	□ gpm□			μS/cm)	(°0	C)	Visual		
										Est.□ Measu red□		
	5/16/2	3 11:1	5 1	nla	77		0 1	7	10			-
*1	Duplicate Sa				7.2		0.2	3.		18.3		
	_	•		ontrol numb	\$5-10-100 m		RIBO		2)		
	Field Blank-		(sample o	ontrol numb	er/time	CF	ARIBO	U	03)		
1	Rinsate Sam	ple-04	(sample of	control numb	er/time		n/a)		
1	Matrix Spike	e-MS	(sample c	ontrol numb	er/time_		n/a)		
_				control numb			n/0	1				
1	Notes:		, F	on a manne	, ci, tiiiic		1.10)		
		om at-										
2	Sampler's Si	4900	0- 1	O A :								
			Dloo	u W	Loton	\sim	5/1	6/	72	>		
				1	-0 UV	,	-/1	ω	-	•		

SURFACE WATER SAMPLING DATA SHEET

SWAMP	Field Data	Sheet (Wate	er Chemist	ry & Discre	te Probe) -	EventType	=WQ	EROL BOARD	Pb(1a6se4\Mn2i0a0	884-4-2	0.6		
*StationID		2-01		*Date (mm/e		1 14	123		,	r/date)	NA		of Pgs
*Funding:	n/c	ת		ArrivalTime!			ne: 8:40	ets.				*Agency:	NA
*Personnel	: BM				cle all that apply);				ne (1st sample):	-	0	*Protocol:	nla
*Location	Bank Thalweg	Midchannel	OpenWater	*GPS/DGP	- "	A STATE OF THE PARTY OF THE PAR			2	*PurposeFai	00101		
	GPS WA					d.ddddd)	The second secon	ldd.ddddd)			Walk-in Brid		Other
Datum: NA			m):1.20	Target:		7904		57585		ANK (facing o	downstream): (LB / RB / N	Α
				*Actual:	39.97	8992	A 100 91	5757%		int of Sample	(if Integrated,	then -88 in dba	ase)
8	servations (WADEABILITY:	BEAUFORT SCALE (see		DISTANCE		STREAM WI	DTH (m): 2	5"
SII	E ODOR:	None, Sulfide	s,Sewage,Petr	oleum,Mixed,0	Other	Y/N/Unk	attachment):		FROM BANK	12.5	WATER DEF	TH (m): 7	711
SK	Y CODE:	Clear, Partly	Cloudy, Overd	ast, Fog		WIND	N.	HYDROMODII	FICATION: None	Bridge, Pipes,	ConcreteChanne	l, GradeControl,	Culvert,
OTHER	PRESENCE:				rash,Other	DIRECTION (from):	Photo B	AerialZipline, C	(RB & LB assigned	d when facing		DN (to sample): I BB / US / DS /	
DOMINAN	ITSUBSTRATE:	Bedrock, Cor	ncrete. Cobblé	Gravel Sand	d, Mud, Unk, O			dov	wnstream; RENAM	45.4			
WATE	RCLARITY:		ottom), Cloudy				NTATION!	-	de_yyyy_mm_dd_u	uniquecode): 🚣	12: (DB / LB /	01- BB/US/DS/	JUNE
WAT	ERODOR: (es, Sewage, Pe				PITATION:		Drizzle, Rain, Sr				
	RCOLOR:		een, Yellow, E		ed, Other	PRECI	PITATION (las	st 24 hrs):	Unknown, <1	", >1", None	2002	01-02	JUNE
	RVED FLOW:	A STATE OF THE PARTY OF THE PAR		-								BB/US/DS/	
		(Sample T	erbody Bed, N	Obs Flow, Is	solated Pool, Tr	ickle (<0.1cfs)	, 0.1-1cfs, 1-5	ofs, 5-20cfs, 20	0-50cfs, 50-200	cfs, >200cfs	10 22	-01-03	SJUNE
1 leid Me	asurements	(Sample I y	pe = Fieldi	Vleasure; N	lethod = Fie	eld)	100						
	DepthCollec (m)	Velocity (fps)	Air Temp	Water Temp (°C)	pН	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (uS/cm)	Salinity (ppt)	Turbidity (ntu)	Stage Ht (units		
SUBSURF/MID BOTTOM/REF	> ("	1.43	46.90	9.30	7.9	nla	nla	0,1	n/a	4.5	n/a		
SUBSURF/MID BOTTOM/REF													
SUBSURF/MIC BOTTOM/REF		- /											
Instrument			Ambien	-	Children			Bluelab					
Calib. Date			10/00		6/14/23			n/a					
Samples	Taken (# of	containers	filled) - Me	thod=Wate	er_Grab	Field Dup YES	NO: (Sample	Type = Grab / Inf	tegrated; LABEL_	ID = FieldOA: cr	eate collection r	Cord upon date	-4
SAMPLE T	YPE: Grab Ir	itegrated	COLLE	CTION EQUIF	PMENT:				Teflon tubing; k				
	DepthCollec	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC		Dissolved		Dissolved			ablecu
Sub/Surfac	(m)	,	,		1007000	,	Total Hg	Mercury	Total Metals	Metals	Organics	Toxicity	VOAs
Sub/Surfac		n/a	nla	N/a		non		2	9	1	nla	nla	n/a
COMMENTS													
PLE	ASE	SEE	IAI	2 0 0	DOP.	T-3.					No.		
Run:		Carried Committee	Sample Co.	> 100	TUIL	W	T -	IS	ample Processing	Date			
Sample ID #:									ample i rocessing	Date.			
	Site Code:												
	# Small Wells												
	# Large Wells												
	Empty Wells												
Yellow +	MPN												
	# Small Wells		_	_									
	# Large Wells					+							
Yellow+	False									1			
Fluorescence (+)	Positives MPN												
1	Start	4Hr. C	hack						_				
	Start	print. C	FIELD DUP	LICATES	14 Hr. Chec	(18 Hr. Check	1	22 Hr.	Check, if needed		
	Normal Sample # Duplicate Sample	#					Normal Sample	#		AB DUPLICATI			
		MPN			95% CI		Duplicate Samp) ie #	MPN			95% CI	
	Normal			LUWEI		Opper	Normal				Lower		Upper
	Duplicate Mean			Pass	Need	s Review	Duplicate Mean						
	Normal Duplicate						Normal				Pass	Nee	ds Review
	Mean			Pass			Duplicate Mean				Pass		do Davier
	Field Sample #			Pass		ds Review	Lab Sample #				Pass		ds Review ds Review
Mean = Mean of	Normal and Duplicate, ture / Date / Time Ar	which is then comp	ared to the individu	al corresponding Cl	l's to determine acce	ptability of data							
				n incubator Bu / F				COLUMN ASSESSMENT OF THE PARTY				STREET, STREET	
Processor / Dat		iliveu.		om Incubator By / C						Read By:			

Brooke Moran 6/14/23

SURFACE WATER SAMPLING DATA SHEET

SWAM	P Field Da	ta Sheet (Wa	ter Chemist	ry & Discre	te Probe) -	EventTyne	=WO	FROLBOA	RD. (1 6 July 1	30 00)		4 .	
*StationII	D: <u>2</u> 0	22-0	72	*Date (mm/e			123		RD-b ⁽¹ a6se4)/m	fit fat 19/date)	nla	Pg \	of Pgs
*Funding	: _ 1/1	(a			7:25		ime: 8:00		nla		_	-	nla
*Personne	BN	\					WaterTox FieldC	*SampleT	ime (1st sam		9	*Protocol:	n/a
*Location	: Bank)Thal	weg Midchannel	OpenWater	*GPS/DGP	Parameter and the same of the	d.ddddd)				A STATE OF THE PARTY OF THE PAR	ailure: n/a		
GPS Device	000	JAYDOIA	ITS ADE	V 100 100 100 100 100 100 100 100 100 10	39.97			ddd.ddddd)	-	TION METHOD	-		Other
Datum: NA	AD83	Accuracy (ft	(m)) 1 4	Target:	18 16	5787		56932	STARTIN	IG BANK (facing	downstream):	LB (RB)	NA
Field O	bservation	s (SampleTy	pe = FieldO	he)	5-1,-17		IDEALIEODE	56930		Point of Sampl	e (if Integrated,	then -88 in di	pase)
B	TE ODOR:		es,Sewage,Pet		<u></u>	WADEABILITY Y N / Un	· looner	2	DISTANC FROM BA		STREAM WI		
SK.	Y CODE:	7			Jiner		attachment):	LUVDDOMOS	(m): 1 (WATER DEF	TH (m): 1	201
			y Cloudy, Over			WIND DIRECTION	N-4⊕A®	AerialZipline,	Other	lone, Bridge, Pipes	ConcreteChanne, LOCATIO	I, GradeControl N (to sample):	, Culvert, US / DS /WI/
	RPRESENCE NTSUBSTRATE		onvascular,Oilys	Sheen,Foam,Tr	ash,Other_	(from):	1			gned when facing	1: (RB / LB /	BB / US / DS	/ ##)
	RCLARITY:		oncrete, Cobbie			her		StationCo	ode_yyyy_mm_	NAME to dd_uniquecode):	2022-02	2-01-	JUNE
	ERODOR:		oottom), Cloudy				PITATION:		Drizzle, Rair	, Snow			
	ERCOLOR:		les, Sewage, P		d, Other	PREC	IPITATION (las	st 24 hrs):	Unknown,	<1", >1", None	2022-	02-02	-JUNE
	RVED FLOW:	ACCOUNT AND ADDRESS OF THE PARTY OF THE PART	Green, Yellow, E			L		_			3: (RB / LB /		
and the second second	Control of the second	ts (SampleT	woo = Eigld!	o Obs Flow, Is	olated Pool, Tr	ickle (<0.1cfs)), 0.1-1cfs, 1-5d	cfs, 5-20cfs, 2	20-50cfs, 50-	200cfs, >200cfs	2022	02-0	3_JUNE
				weasure; M	ethod = Fie	ld)							
	DepthCol (m)	Velocity (fps	Air Temp	Water Temp (°C)	рН	O ₂ (mg/L)	O ₂ (%)	Specific Conductivit (uS/cm)	Salinity (p	opt) Turbidity (ntu)	Stage Ht (units)		
SUBSURF/MII BOTTOM/REI SUBSURF/MII	P	4,45	45.10	7.80	8.2	n/a	nla	0.3	3 n/a	1 3.5	nla		
BOTTOM/REI													
SUBSURF/MID BOTTOM/REF	P												
Instrument			Ambient	etta.	Oakton			Blueby					
The state of the s		of containers	GULLAN BA	1	6/14/12			Na					
SAMPLE TO	YPE: Grab	Internated				Field Dup YE	S / NO: (Sample)	Type = Grab / Ir	ntegrated; LABI	EL_ID = FieldQA; c	reate collection re	cord upon data	entry
	DepthColl	90		CTION EQUIP	MENT:	Indiv bottle (b	y hand, by pole	e, by bucket);	Teflon tubing	g; Kemmer; Pole	& Beaker; Othe	Dalispo.	sable -
	(m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Meta	Discohood	Organics	Toxicity	VOAs
Sub/Surfac		n/a	n/a	n/a	1	2/01	1	2	1	Ivietais	nla	nla	7
Sub/Surfac											1110	VVICA	nla
		D BLA	NK:20	22-0	2-02	2							
PL	-EAS	ES	EEL	AB	REPO	RT	34						
Run: Sample ID#:							, and the second	S	ample Process	ing Date:			
	Site Code:												
	# Small Wells			_									
	# Large Wells					-							
Yellow +	Empty Wells MPN												
	# Small Wells												
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luorescence (+)	Positives MPN											+-	+
emp/Time	Start	4Hr. C	heck										
			FIELD DUP	LICATES	14 Hr. Check		18	Hr. Check		22 Hr. C	Check, if needed		
	Normal Sample Duplicate Samp	le#					Normal Sample # Duplicate Sampl	*		LAB DUPLICATE	:8		
		MPN		LUWGI			- Prileate Gampi	-	MPN	L		95% CI	
OLIFORM	Normal Duplicate						Normal Duplicate				Lower		Upper
E. COLI	Viean Vormal			Pass	Needs	Review	Mean Normal				Pass	Nee	ds Review
7	Ouplicate Mean			Pass	Needs	Review	Duplicate Mean						
#	ield Sample ‡			Pass	Needs	Review	меал Lab Sample #				Pass Pass		ds Review ds Review
ean = Mean of N	ormal and Duplica	te, which is then comp	ared to the individue									i weed	19 I /AAIAM
ampici Oignatt	ire / Date / Time	Arrived:	Placed in	Incubator Rv / Da	te / Time:	ability of data							
ocessor / Date	ne / Date / Time	Arrived:	Placed in	Incubator By / Da	te / Time:	ability of data		***************************************		ys Read By: ered into database:			Talkan da ana ana ana ana ana ana ana ana an

Brooke Mozam 6/14/23

					·*			
IDENTII	FICATION			GROUND	WATER SAMPL	ING DAT	A SHEET	
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Sample C	ontrol Numl	oer	n/a		Date	4/25	Start Time 17:00	Stop time 3:15 Page of
WEATH	ER CONDI	TIONS	71175		1	Samp	olers BM, KL	
ANTHOROUGH .	Am remiber	rature:	.) /	~ °C 🗆	OTT NT AND			Madamata D. T. 1. F
INITIAL W	ELL MEASIE	REMENITS /	Massumana		Eight	- Summy	rainy Cloudy	,
Static Wat	er Level	_ rotar Deg	pthンUっTor	of Screen	Filter Pag	ok Intonial	10/0 0 11 -	9"(0-40 f meter(inches)57"(40-20
2-inch =	0.1632 gal	/ft 4-inc	h = 0.6528	gal/ft 6-	-inch = 1.468	8 gal/ft	Casing Volume: 180	meter(inches)5 ± "(40-20
well casin	g ID <u>/1/01</u> W	ell Casing (OD X Pro	otective Cad	sing Stickuph	Well Cas	Casing Volume: 180 Sing Stickup 2 Feet o	10 gallons
1 0-	- VIII	V L	PUMP	>			ing stickupy ~ ~ reet t	or water n/O
FINAL WEL	LL MEASURE	MENTS	100					
INCTRIA	er Level <u>ó/</u> T IENT CAL	otal Depth	100 Total Vo	olume Purg	ed Saturate	d Borehol	e Volume (gal) 85 Ma	ax Pumping Rate \(\sigma \sigma \)
nH Meter	Meter Nur	BRATIO	<u>n</u> Etono					
Buffer \rightarrow	Measured V	Value 7.	Temp 12		Conductivity N	Meter: M	leter Number $\subset M$	-2104-01479
Buffer	Measured V	Value 10.	Temp 12	l°C	Standard 0,997	ms/cm I	Measured Value 0,0	mS/cm Temp./> °C
1 urbidity	Meter: New	Standar	ITTUO N b	Measured	Value o /a 1	ms/cm I	Measured Value ().	mS/cm Temp. 2°C ured Value NTU
	AMETER ME	ASUREME	NTS DURING	PURGING	Variation 1	VIO Stan	idard MIDNIU Measi	ured Value n/a NTU
Time	Volume	рН	Cond.	Temp.		dity		-
	(gallons)						,	Comments
ll i	(Salions)	'	' (μS/cm)	°C⊠ °FL	☐ Visual I	Tet 🗍		
			(μS/cm)	°C\(\overline{\overline}\) °F[□ Visual I Measur			
12:00		7.5	(μS/cm)		Measur	red 🛛		materially provided the Waterland provided
12:00		7.5	0.4	10.9	Measur 3° 3°	redQ'	FIELD-FILT	ERED BOTTLES
	Ø				Measur 3.0	redQ'	FIELD-FILT 1 HNOZ-P	BRED BOTTLES RESERVED X
	Ø		0.4	10.9	Measur 3° 3°	redQ'	FIEUD-FILT 1 HNO2-P 1 2-L FOR	TERED BOTTLES RESERVED & RADIONIUS LIDE
	Ø		0.4	10.9	Measur 3° 3°	redQ'	FIELD-FILT 1 HNO3-P 1 1-L FOR	BRED BOTTLES RESERVED & R RADIONUCLIDE
	Ø		0.4	10.9	Measur 3° 3°	redQ'	FIELD-FILT 1 HNOZ-P 1 1-L FOR SAMPLES	ERED BOTTLES RESERVED & RADIONUCLIDE COLLECTED
	Ø		0.4	10.9	Measur 3° 3°	redQ'	FIELD-FILT 1 HNO3-P 1 1-L FOR	PRED BOTTLES RESERVED & RESERVED & RADIONIUCLIDS COLLECTED POSABLE CUP
	Ø		0.4	10.9	Measur 3° 3°	redQ'	FIELD-FILT 1 HNO3-P 1 1-L FOR	ERED BOTTLES RESERVED & R RADIONUCLIDS COLLECTED POSABLE CUP
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	Ø		0.4	10.9	Measur 3° 3°	redQ'	FIELD-FILT 1 HNO3-P 1 1-L FOR	ERED BOTTLES RESERVED & RESERVED & RADIONUCLIDE COLLECTED POSABLE CUP
	Ø		0.4	10.9	Measur 3° 3°	redQ'	FIELD-FILT 1 HNO3-P 1 1-L FOR	PRED BOTTLES RESERVED & RESERVED & RADIONIUCUDO COLLECTED POSABLE CUP
	Ø		0.4	10.9	Measur 3° 3°	redQ'	FIELD-FILT 1 HNO3-P 1 1-L FOR	ERED BOTTLES RESERVED & RESERVED & RADIONUCLIDE COLLECTED POSABLE CUP
	Ø		0.4	10.9	Measur 3° 3°	redQ'	FIELD-FILT 1 HNO3-P 1 1-L FOR	ERED BOTTLES RESERVED & R RADIONUCLIDS COLLECTED POSABLE CUP
	Ø		0.4	10.9	Measur 3° 3°	redQ'	FIELD-FILT 1 HNO3-P 1 1-L FOR	PRED BOTTLES RESERVED & R RADIONUCLIDS COLLECTED POSABLE CUP
13:00	Ø 624	7,3	0.4	10.9	Measur 3° 3°	redQ'	FIELD-FILT 1 HNO3-P 1 1-L FOR	TERED BOTTLES RESERVED & R RADIONUCLIDS COLLECTED POSABLE CUP
FINAL SAI	DO D	7,3	0.4 0.3	70.5	Measur 3° 3° 2° 2°	red[]'	FIEUD-FILT 1 HNOZ-P 1 2-L FOR SAMPLES WITH DISP	ERED BOTTLES RESERVED & R RADIONUCLIDS COLLECTED POSABLE CUP
13:00	DE PAR	AMETER e Dis	O.Y. O.3	10.9	Measur 3° 3°° 2° 7°° Cond.	Temp	FIELD-FILT 1 HNO2-P 1 2-L FOR SAMPLES WITH DISP D. Turbidity	PRED BOTTLES RESERVED & R RADIONUCLIDS COLLECTED POSABLE CUP
FINAL SAI	MPLE PAR	AMETER e Dis	0.4 0.3	70.5	Measur 3° 3° 2° 2°	red[]'	ELEUD-FILT 1 HNO2-P 1 2-L FOR SAMPLES WITH DISP D. Turbidity Visual	RESERVED & RESERVED & RADIONIUCUDO COLLECTED POSABLE CUP
FINAL SAI	MPLE PAR	AMETER e Dis	O.Y. O.3	70.5	Measur 3° 3°° 2° 7°° Cond.	Temp	FIELD-FILT 1 HNO2-P 1 2-L FOR SAMPLES WITH DISP D. Turbidity	ERED BOTTLES RESERVED & RADIONUCLIDS COLLECTED POSABLE CUP

Brooke Moran 6/14/23

GROUND	MATED	SAMPLING	DATA	C
GRUUND	WAIFR	SAMPLING	DATA	CHEET

	Sample Los Sample Comment of MEATHE Ambient of MEATHE MITIAL WE Static Water Country of Mean MEATH Meter: Suffer Country of MEATH Meter: Suffer Country of MELD PARA	Air Temperion: None ELL MEASURE OF Level 2 3 3 10 10 0 W. I WEASURE OF LEVEL 2 3 10 10 W. I MEASURE OF LEVEL 2 3 10 MEET NOT CAL Measured W. Measured W. Measured W. METER ME	TIONS rature: Rain REMENTS Total De /ft 4-inc /ell Casing MENTS Fotal Depth IBRATIO nber Value Value Volue V	Snow Holder Hold	eavy Ments in fee of Screen B gal/ft (otective Cotective Cotec	of Fig. 1 (a) Stand of Value	Not Meas te Light L e from top of Filter Pack a = 1.4688 Stickup Nov Saturated ductivity M dard Land	Samured El Sunnof well Intervented El Sunnof well Care Boreholder:	Standard Sta	wind: Heavy \(\text{N} \)	foderate Light Li	(0-50 ft) (50-165 f √a 01479 up. 13°C
	Time	Volume (gallons)	рН	Cond. (μS/cm)	Tem °C⊠ °		Turbidi Visual Es			C	Comments	
	170						Measure					
	13:00	554	7.8	0.3	5	.60	5, 4	<u> </u>	FIT	ELD-FILTE	ERED BO	HLES:
	10,50	334	8.2	0,5		250	40	+	1	HNO3-PI	RESERV	ED &
									1-	-1L FOR	RADIO	VUCLI BS
									01	2001	0011	
									SF	+/MPULS	COLLE	CTED
									W	LIA DIS	PUSABL	E CUP
			a a									
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151	DATA T. CA I	A PART PART										
I.	Sample	MPLE PAI		ischarge	TT	T	~ 1	T				
	Date	Time		gpm⊠	pН	1	Cond. µS/cm)	Ten	-	Turbidity Visual		
				,			, om	(-)	Est.□ Measu		
	6/14/2:	2 12	20 1	0 11	0 0		0 0			red☑		
				0.4	8.2		0,3	5.		4.7		
	iplicate Sa			ontrol numb			MPLIAN					
	eld Blank-		(sample co	ontrol numbe	er/time	CON	NPLIA	NC	<u> </u>	03)		
	nsate Sam	•	(sample co	ontrol numb	er/time		n/a)		
M	atrix Spike	e-MS	(sample co	ontrol numbe	er/time		nla)		
				ontrol numb)		
No	otes:SAM	PLED	ATU	JELL ,*	65"	(-1	-50 CI	7 8	. U	支(15-165	CT)	
Sa	mpler's Si	gnature			28		JUTT	1 ~	-1.	2110-165) TT)	
7	mod	te M	Men	1 6/1	4/2	3						

GROUND WATER	SAMPLING	DATA	SHEET
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]	Sample Lo	ICATION	RIBAIL	. NELL			- ((()	100	7	10.00	Pro	ject Number:
	Sample Co	ontrol Numb	per	WELL		1	Date 6/14	Son	Sta	rt Time 10:30	Stop time 11:45	Page / of
	WEATHI	TR CONDI	TIONE					_ Sali	ipiers	RM KI		
1	Ambient A	Air Temper	rature: _	51.30	<u>°</u> °C□	°F 🛛	Not Meas	ured [,	Wind: Heavv□ N	/oderate□ Ligh	केट र
J	Ambient Air Temperature: 5 3 °C °F Not Measured Wind: Heavy Moderate Light Precipitation: None Rain Snow Heavy Moderate Light Sunny Partly Cloudy INITIAL WELL MEASUREMENTS (Measurements in feet made from ton of well as a constant of the c											
	INITIAL WELL MEASUREMENTS (Measurements in feet made from top of well casing) Static Water Level-20 Total Depth 105 Top of Screen 75 Filter Park Internal in 1997 (0-26 ft)											
5	Static Water Level 20 Total Depth 165Top of Screen 25 Filter Pack Interval 16 Borehole Diameter (inches) 6" (26-165- 2-inch = 0.1632 gal/ft 4-inch = 0.6528 gal/ft 6-inch = 1.4688 gal/ft Casing Volume: 125 gallons											
١	Well Casing IDM/a Well Casing OD Protective Casing Stickup Well Casing Stickup Stickup Feet of Water M/a											
١	Well parged Will											
F	FINAL WELL MEASUREMENTS											
S	Static Water Level 2 Total Depth Total Volume Purged Saturated Borehole Volume (gal) 126 Max Pumping Rate 100 INSTRUMENT CALIBRATION											
_	TO THE PART OF THE											
E	pH Meter: Meter Number OAKTONO(Buffer 7 Measured Value 7.0 Temp. 13.0 °C Buffer 10 Measured Value 10.0 Temp. 13.0 °C Standard 0.447mS/cm Measured Value 0.5 mS/cm Temp. 13.0 °C											
Ŀ												
1	Turbidity Meter: New Standard of NTU Measured Value of NTU Standard of NTU Measured Value of NTU Standard of NTU Measured Value of N											
E	THE WILLIAM PORTING											
			рН	Cond.	Temp. °C⊠ °F□		Turbidity Visual Est.□		Comments			
		(gallons)		(μS/cm)								
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	11:30			0.2	6.30		3.2		PIELD FILTER ED BOTTLES			
	11.70	100	8,2	0.0	6.10		Val		1 HIVUS-PRESERVED K			
									-	1-11 FOR RADIONUCL		
									SAMIRES COLLECTED			
									WITH DISPOSABLE CUP.			
		× .										
	å											
F	NAL SA	MPLE PAI	RAMETE	RS								
	Sample			ischarge	pН		Cond.	Ter	np.	Turbidity		
	Date	Time	cfs[□ gpm □		(μS/cm)	(°(_	Visual		
	_									Est.□ Measu		
	6/14/2	3 11:31) /	0.0	0.0		0 7	,	163	red		
٦					8.2		0.3	00	10	0.9		
Duplicate Sample-02 (sample control number/time)												
Fi	eld Blank-	-03	(sample co	ontrol numbe	er/time		nla)		
Ri	nsate Sam	ple-04	(sample co	ontrol numb	er/time		n/a)		
M	Matrix Spike-MS (sample control number/time											
(sample control number/time)												
Notes: SAMELLE MARCHES ()												
Notes: SAMPLED VIA PORT, * 6 \frac{2}{8}(-1-26+1) \(\lambda \) \(\lamb												
~4	inpier 5 bi	gnature		Tem								
	100	vone	1100	, work	V	1 1	1111					

GROUND WATER SAMPLING DATA SHEET IDENTIFICATION Date 6/14/23 Start Time 0:30 Stop time 1:15 Page 1 of 1 Sample Location CARIBOU WEATHER CONDITIONS Ambient Air Temperature: °C□ °F□ Not Measured □ Wind: Heavy□ Moderate□ Light□ INITIAL WELL MEASUREMENTS (Measurements in feet made from top of well casing) Static Water Level____ Total Depth____Top of Screen____ Filter Pack Interval_____ Borehole Diameter(inches) 2-inch = 0.1632 gal/ft 4-inch = 0.6528 gal/ft 6-inch = 1.4688 gal/ft Casing Volume:_____ gallons Well Casing ID ____ Well Casing OD ___ Protective Casing Stickup ___ Well Casing Stickup ___ Feet of Water Well purged with: _ FINAL WELL MEASUREMENTS Static Water Level__ Total Depth__ Total Volume Purged__ Saturated Borehole Volume (gal)__ Max Pumping Rate INSTRUMENT CALIBRATION pH Meter: Meter Number OAKTONO Conductivity Meter: Meter Number CM 1-2104-01479 Buffer 7 Measured Value 7.0Temp. 3.1°C Standard 0.447 mS/cm Measured Value 0.5 mS/cm Temp. 13°C Buffer Measured Value 10,0 Temp. 13, °C Standard 0.44 mS/cm Measured Value 0.5 mS/cm Temp. 13°C Turbidity Meter: NTU Standard NTU Measured Value NTU Standard NTU Measured Value NTU FIELD PARAMETER MEASUREMENTS DURING PURGING Time Volume рН Cond. Turbidity Temp. Comments (gallons) (µS/cm) °C\(\overline{\o Visual Est.□ Measured⊠ 11:15 h/a 0.4 3.800 92 FINAL SAMPLE PARAMETERS Sample Sample Discharge pH Cond. Temp. **Turbidity** Date Time cfs□ gpm□ $(\mu S/cm)$ (°C) Visual Est. Measu red 11:15 n/a 8.5 0.4 9.3

Duplicate Sample-02 (sample control number/time CARIBOU - 02 Field Blank-03 (sample control number/time CAR\BO\)-03 Rinsate Sample-04 (sample control number/time_ Matrix Spike-MS (sample control number/time_ (sample control number/time Notes:

Sampler's Signature .

Mooke Moran 6/14/23

GROUND WATER SAMPLING DATA SHEFT

	IDENTIF	ICATION					EN SMINIPLIN				Pro	ject Number:	
	Sample Lo	ocation	ROSS	PORTAL		1	Date <u>6/14</u>	123	Sta	rt Time 12:00	Stop time \2:3	Page of	
	Sample Location CROSS PORTAL Date 6/14/23 Start Time 12:00 Stop time 12:30 Page WEATHER CONDITIONS Project Sample Control Number Samplers Smith Stop time 12:30 Page Sample Smith Stop time 12:30 Page Samplers Smith Stop time 12:30 Page Smith Smit									1 48401			
	Ambient Air Temperature: °C□ °F□ Not Measured □ Wind: Heavy□ Moderate□ Light□ Precipitation: None□ Rain□ Snow□ Heavy□ Moderate□ Light□ Sunny□ Partly Cloudy□												
	INVITIAL WELL IVIEASUREIVIENTS (Measurements in feet made from top of well engine)												
	Static Water Level Total Depth Top of Screen Filter Pack Interval Borehole Diameter (inches)												
Λ	2-inch = 0.1632 gal/ft 4-inch = 0.6528 gal/ft 6-inch = 1.4688 gal/ft Casing Volume: gallons												
4	Well Casing ID Well Casing OD Protective Casing Stickup Well Casing Stickup Feet of Water												
	ven purged with.												
	FINAL WELL MEASUREMENTS												
	Static Water Level Total Depth Total Volume Purged Saturated Borehole Volume (gal) Max Pumping Rate												
	pH Meter: Meter Number Of Tonol Buffer Measured Value 7.0 Temp. 3.0 °C Buffer Measured Value 10.0 Temp. 3.0 °C Standard 0.44 mS/cm Measured Value 0.5 mS/cm Temp. 3 °C Standard 0.44 mS/cm Measured Value 0.5 mS/cm Temp. 3 °C Turbidity Meter: Meter Number 0.4 70 14 79 Standard 0.44 mS/cm Measured Value 0.5 mS/cm Temp. 3 °C Standard 0.44 mS/cm Measured Value 0.5 mS/cm Temp. 3 °C Standard 0.44 mS/cm Measured Value 0.5 mS/cm Temp. 3 °C Turbidity Meter: Meter Number 0.4 70 MEASUREMENTS DURING PURGING												
	Buffer Measured Value 7.0 Temp. 3.0 °C Standard 0.447mS/cm Measured Value 0.5 mS/cm Measured Va												
	Buffer Measured Value O. Temp. 3. °C Standard O. 44 ms/cm Measured Value O. 5 ms/cm Temp. 3°C												
	FIELD PARA	METER ME	ASURFMI	ENTS DURING	Measure	a vali	ie <u>v////</u> N	IU St	andar	d Measu	red Value	_NTU	
	Time	Volume		Cond.	- onem	=							
		pii cond.		(μS/cm)	Temp. °C⊠ °F□		Turbidity Visual Est.□		Comments				
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				· ·				COLLECTED SAMPLES WITH					
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F		MPLE PAI	RAMETI	ERS			000000000000000000000000000000000000000						
	Sample	1 1	1	Discharge	pН		Cond.	Ter	np.	Turbidity			
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										Est.□ Measu			
	1 /11/20 15				0.0		^ ^			red⊡			
	6/14/2	6/14/23 12:15 Na		MIQ	8.2		0.3	5.0		15-8			
Γ	Suplicate Sa	ample-02	(sample c	ontrol numb	er/time_	n/o	21)			
F	ield Blank-	-03	(sample c	ontrol numbe	er/time	n/	CA)			
						* 4 /	/)			
	insate Sam	•	(sample c	ontrol numb	er/time	n/	9)			
N	latrix Spik	e-MS	(sample c	ontrol numbe	er/time	<u>n</u>	/a	u to a so so to so so)			
****	(sample control number/time)												
Notes:													
2	Sampler's Signature Brookle Morean 6/14/23												
		,	000	10	- U CEC	W F	0110	1/2					

APPENDIX F PHOTOGRAPHS

APPENDIX F.1 SAMPLE LOCATION 2022-01 PHOTOGRAPHS

APRIL 2023







APPENDIX F.1 SAMPLE LOCATION 2022-01 PHOTOGRAPHS

MAY 2023







APPENDIX F.1 SAMPLE LOCATION 2022-01 PHOTOGRAPHS

JUNE 2023







APPENDIX F.2 SAMPLE LOCATION 2022-02 PHOTOGRAPHS

APRIL 2023







APPENDIX F.2 SAMPLE LOCATION 2022-02 PHOTOGRAPHS

MAY 2023







APPENDIX F.2 SAMPLE LOCATION 2022-02 PHOTOGRAPHS

JUNE 2023



