



THIRD 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

December 29, 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. At the time of issuance of this Quarterly Report, the Operator has collected and has laboratory analyzed 20 contiguous months (6 quarters and 2 months) of site waters, from May 2022 through December of 2023.

Technical Revision 10 (TR-10) 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). This includes a 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 15, 16 and 17 for the months of July, August, and September 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 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 July, August, and September 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 July 28, 2023

Parameter	Standard	Cross Well	Caribou Well	Compliance Well	Compliance Well Duplicate	Unit	Comments
Aluminum (Al)	5	0.001	0.014	0.003	0.002	mg/l	Dissolved
Antimony (Sb)	0.006	ND	ND	ND	ND	mg/l	Dissolved
Arsenic (As)	0.01	0.0020	ND	ND	ND	mg/l	Dissolved
Barium (Ba)	2	0.0284	0.0067	0.0357	0.0350	mg/l	Dissolved
Beryllium (Be)	0.004	ND	ND	ND	ND	mg/l	Dissolved
Beta and Photon Emitters	4	<2.9	<3.2	<3.2	<3.0	pCi/l	Std is in mrem/year; Lab reports pCi/l
Boron (B)	0.75	ND	ND	ND	ND	mg/l	Dissolved
Cadmium (Cd)	0.005	0.0006	ND	ND	ND	mg/l	Dissolved
Chloride (Cl)	250	1.66	0.45	2.31	2.31	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	0.0020	0.0851	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	0.7	0.9	0.5	0.9	pCi/l	
Iron (Fe)	0.3	0.005	ND	ND	ND	mg/l	Dissolved
Lead (Pb)	0.05	0.0004	0.0004	ND	0.0001	mg/l	Dissolved
Lithium (Li)	2.5	ND	ND	ND	ND	mg/l	Dissolved
Manganese (Mn)	0.05	0.0049	ND	0.0060	0.0063	mg/l	Dissolved
Mercury (inorganic) (Hg)	0.002	ND	ND	ND	ND	mg/l	Dissolved
Molybdenum (Mo)	0.21	0.0011	ND	0.0040	0.0040	mg/l	Dissolved
Nickel (Ni)	0.1	ND	ND	ND	ND	mg/l	Dissolved
Nitrate (NO3)	10	0.27	0.09	0.30	0.30	mg/l as N	Dissolved
Nitrate-NitriteTotal	10	0.27	0.09	0.30	0.30	mg/l as N	Dissolved
Nitrite (NO2)	1	ND	ND	ND	ND	mg/l as N	Dissolved
pH (field)	6.5 - 8.5	7.9	6.5	7.6	7.6	pH units	
Selenium (Se)	0.02	0.0185	ND	ND	ND	mg/l	Dissolved
Silver (Ag)	0.05	ND	ND	ND	ND	mg/l	Dissolved
Sulfate (SO4)	250	9.41	2.73	7.48	7.49	mg/l	Dissolved
TDS	400	89	38	80	79	mg/l	Total
Thallium (Tl)	0.002	ND	ND	ND	ND	mg/l	Dissolved
Uranium (U)	0.0168 -0.03	ND	ND	ND	ND	mg/l	Dissolved
Vanadium (V)	0.1	ND	ND	ND	ND	mg/l	Dissolved
Zinc (Zn)	2	0.800	0.012	0.087	0.087	mg/l	Dissolved

The highlighted cells Indicate Test Results Higher than the Reference Values from Reg. 5 CCR 1002-41

"ND" Indicates Not Detected

Table 2.1.2 Groundwater Quality Test Results – Sample Date August 31, 2023

Parameter	Standard	Cross Well	Caribou Well	Compliance Well	Compliance Well Duplicate	Unit	Comments
Aluminum (Al)	5	ND	0.002	0.003	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	0.0322	0.0066	0.0420	0.0416	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	<3.4	pCi/l	Std is in mrem/year; Lab reports pCi/l
Boron (B)	0.75	ND	ND	ND	ND	mg/l	Dissolved
Cadmium (Cd)	0.005	0.0002	ND	ND	ND	mg/l	Dissolved
Chloride (Cl)	250	3.00	0.45	2.81	2.77	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	0.0036	0.1309	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	2.4	0.5	1.5	2.5	pCi/l	
Iron (Fe)	0.3	ND	ND	ND	0.009	mg/l	Dissolved
Lead (Pb)	0.05	0.0004	0.0002	0.0002	0.0001	mg/l	Dissolved
Lithium (Li)	2.5	ND	ND	ND	ND	mg/l	Dissolved
Manganese (Mn)	0.05	0.0022	0.0052	0.0085	0.0083	mg/l	Dissolved
Mercury (inorganic) (Hg)	0.002	ND	ND	ND	ND	mg/l	Dissolved
Molybdenum (Mo)	0.21	0.0008	ND	0.0051	0.0051	mg/l	Dissolved
Nickel (Ni)	0.1	ND	ND	ND	ND	mg/l	Dissolved
Nitrate (NO3)	10	0.32	0.09	0.32	0.32	mg/l as N	Dissolved
Nitrate-NitriteTotal	10	0.32	0.09	0.32	0.32	mg/l as N	Dissolved
Nitrite (NO2)	1	ND	ND	ND	ND	mg/l as N	Dissolved
pH (field)	6.5 - 8.5	7.8	7.8	7.3	7.3	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	9.85	2.71	8.77	8.64	mg/l	Dissolved
TDS	400	143	43	92	85	mg/l	Total
Thallium (Tl)	0.002	ND	ND	ND	ND	mg/l	Dissolved
Uranium (U)	0.0168 -0.03	ND	ND	ND	0.0002	mg/l	Dissolved
Vanadium (V)	0.1	ND	ND	ND	ND	mg/l	Dissolved
Zinc (Zn)	2	0.760	0.004	0.181	0.180	mg/l	Dissolved

The highlighted cells Indicate Test Results Higher than the Reference Values from Reg. 5 CCR 1002-41

"ND" Indicates Not Detected

Table 2.1.3 Groundwater Quality Test Results – Sample Date September 28, 2023

Parameter	Standard	Cross Well	Caribou Well	Compliance Well	Compliance Well Duplicate	Compliance Well FB	Unit	Comments
Aluminum (Al)	5	0.024	ND	ND	ND	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	0.029	0.0073	0.043	0.039	ND	mg/l	Dissolved
Beryllium (Be)	0.004	ND	ND	ND	ND	ND	mg/l	Dissolved
Beta and Photon Emitters	4	4.87	0.729	0.982	1.34	0	pCi/l	Std is in mrem/year; Lab reports pCi/l
Boron (B)	0.75	0.0061	0.002	0.0049	0.0039	0.0015	mg/l	Dissolved
Cadmium (Cd)	0.005	0.00019	ND	ND	ND	ND	mg/l	Dissolved
Chloride (Cl)	250	3.4	ND	3.1	3.1	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	0.0057	0.15	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	11.3	0.398	-0.332	0.842	-0.215	pCi/l	
Iron (Fe)	0.3	0.036	0.014	0.034	0.012	ND	mg/l	Dissolved
Lead (Pb)	0.05	0.00081	0.00026	ND	ND	ND	mg/l	Dissolved
Lithium (Li)	2.5	ND	ND	ND	ND	ND	mg/l	Dissolved
Manganese (Mn)	0.05	0.0013	ND	0.0063	0.0057	ND	mg/l	Dissolved
Mercury (inorganic) (Hg)	0.002	ND	ND	ND	ND	ND	mg/l	Dissolved
Molybdenum (Mo)	0.21	0.00065	ND	0.0045	0.0043	ND	mg/l	Dissolved
Nickel (Ni)	0.1	ND	ND	ND	ND	ND	mg/l	Dissolved
Nitrate (NO3)	10	0.24	0.092	0.28	0.28	ND	mg/l as N	Dissolved
Nitrate-NitriteTotal	10	0.29	0.099	0.34	0.34	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	7.1	7.6	8.3	8.3	ND	pH units	
Selenium (Se)	0.02	ND	ND	ND	ND	ND	mg/l	Dissolved
Silver (Ag)	0.05	0.000055	0.000069	ND	ND	ND	mg/l	Dissolved
Sulfate (SO4)	250	9.0	2.4	9.2	8.9	ND	mg/l	Dissolved
TDS	400	87	24	80	90	ND	mg/l	Total
Thallium (Tl)	0.002	ND	ND	ND	ND	ND	mg/l	Dissolved
Uranium (U)	0.0168 - 0.03	ND	ND	0.00016	0.00017	ND	mg/l	Dissolved
Vanadium (V)	0.1	ND	ND	ND	ND	ND	mg/l	Dissolved
Zinc (Zn)	2	1.2	0.0056	0.099	0.09	0.012	mg/l	Dissolved

The highlighted cells indicate Test Results Higher than the Reference Values from Reg. 5 CCR 1002-41

"ND" Indicates Not Detected



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 July, August, and September 2023, respectively. The groundwater elevations shown on the tables were used to develop the potentiometric water surfaces depicted on Figures 15, 16, and 17 for the month of July, August, and September 2023, respectively.

Table 2.2.1 Wells Groundwater Elevation – July 28, 2023

Groundwater Elevation - July		
WELL	COLLAR ELEV.	7/28/2023
	Ft. AMSL	
Caribou	9,744.25	9,705.76
Cabin (Compliance)	9,677.35	9,633.97
Cross	9,692.85	9,643.78
Winze	9,697.48	9,643.30

Table 2.2.2 Wells Groundwater Elevation – August 31, 2023

Groundwater Elevation - August		
WELL	COLLAR ELEV.	8/31/2023
	Ft. AMSL	
Caribou	9,744.25	9,707.13
Cabin (Compliance)	9,677.35	9,646.60
Cross	9,692.85	9,645.88
Winze	9,697.48	9,604.10

Table 2.2.3 Wells Groundwater Elevation – September 28, 2023

Groundwater Elevation - September		
WELL	COLLAR ELEV.	9/28/2023
	Ft. AMSL	
Caribou	9,744.25	9,707.77
Cabin (Compliance)	9,677.35	9,634.49
Cross	9,692.85	9,647.80
Winze	9,697.48	9,604.10



Figure 15 Potentiometric Water Surface – July 2023

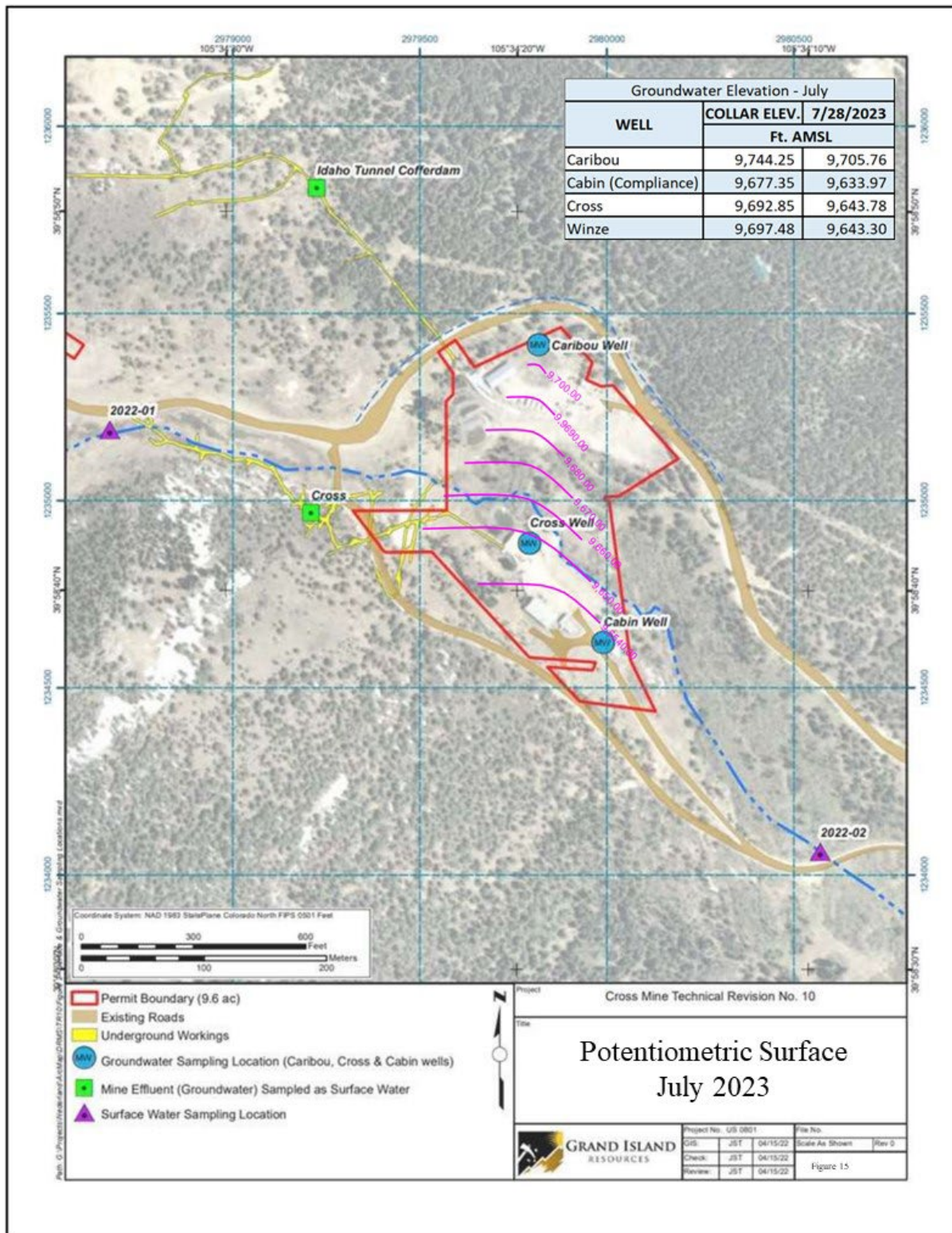




Figure 16 Potentiometric Water Surface – August 2023

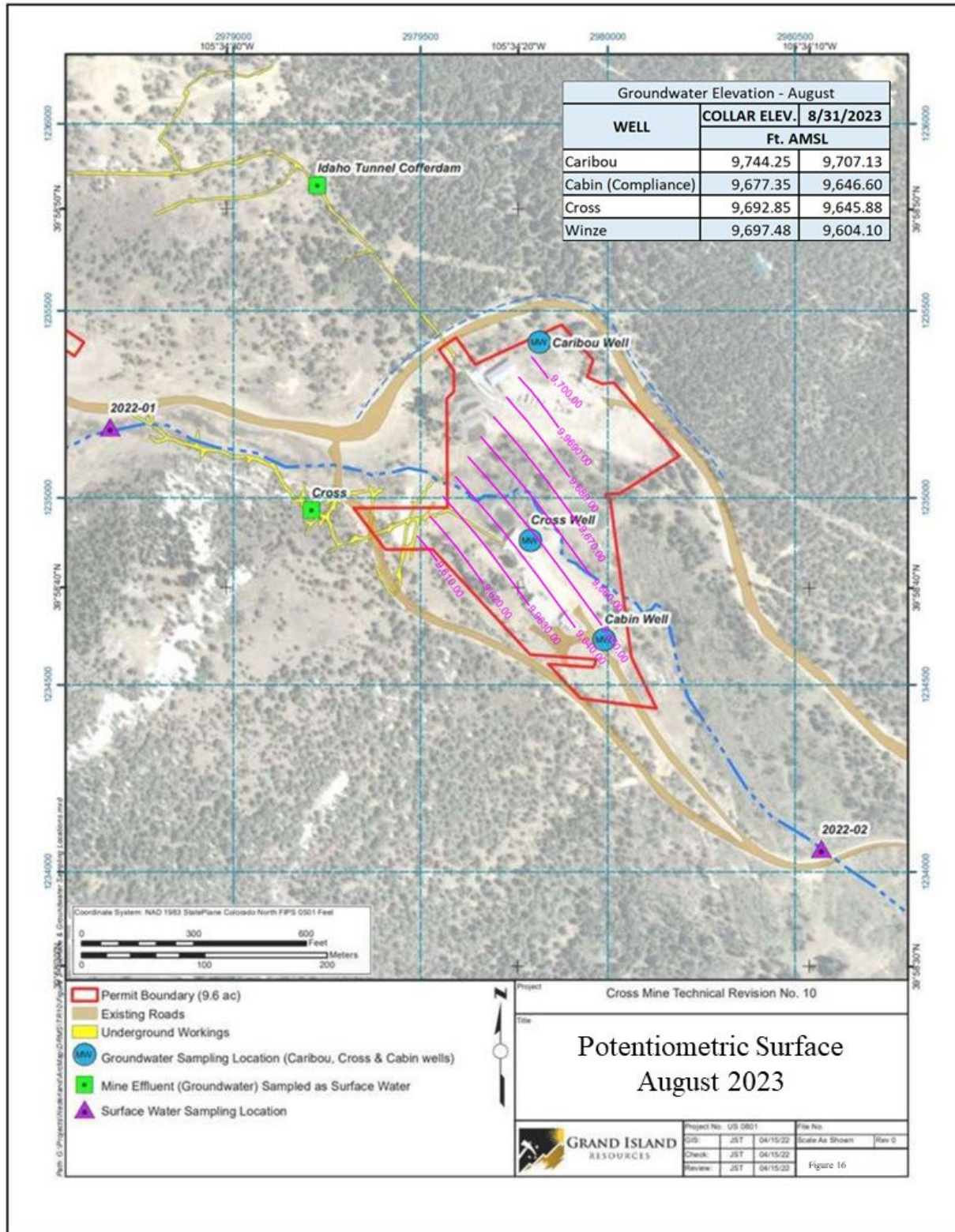
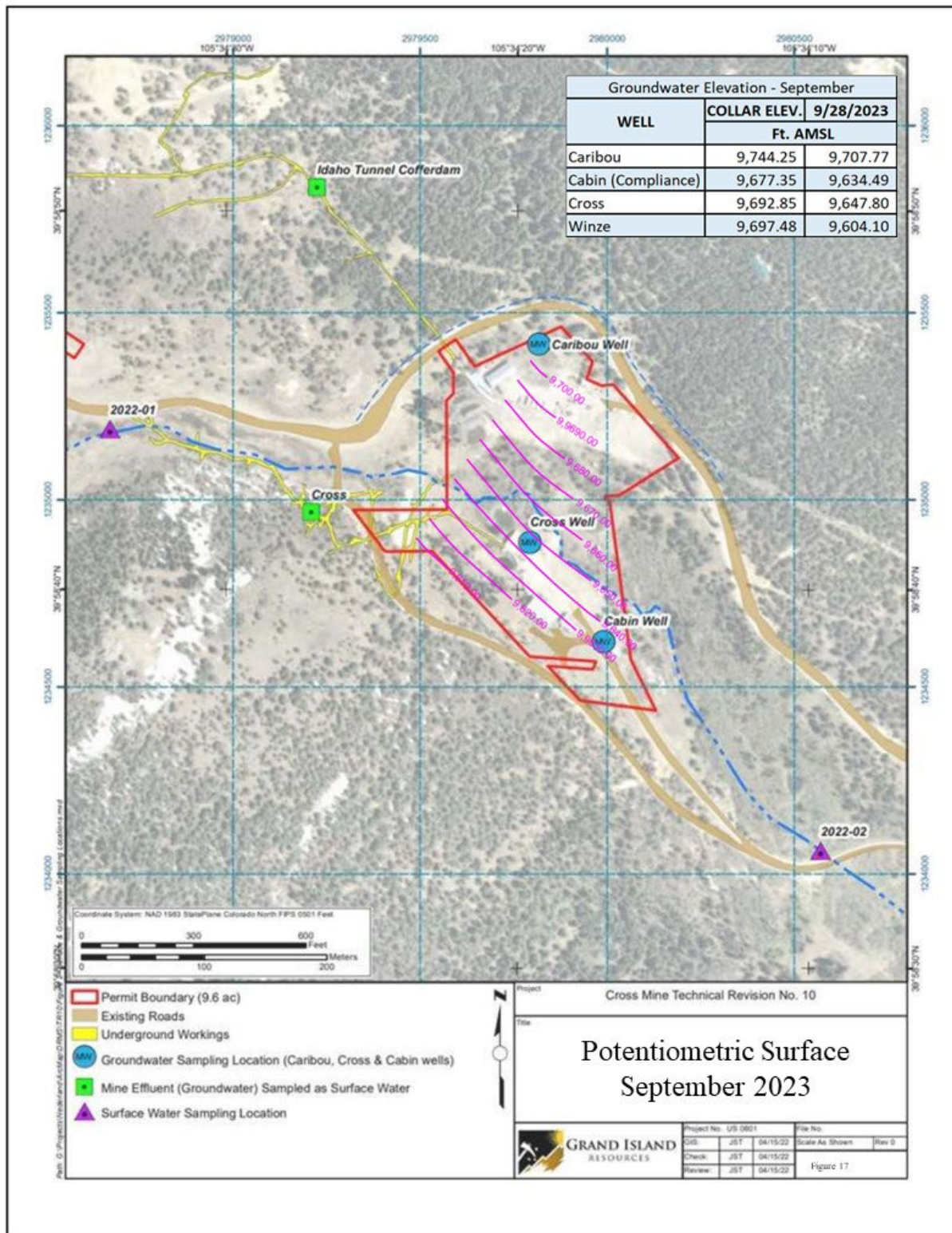




Figure 17 Potentiometric Water Surface – September 2023





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 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 July, August, and September 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 July 28, 2023

Parameter	Standard	Cross Portal	Caribou Portal	Caribou Portal Duplicate	Unit	Comments
Aluminum (Al)	5	0.004	0.003	0.002	mg/l	Dissolved
Antimony (Sb)	0.006	ND	ND	ND	mg/l	Dissolved
Arsenic (As)	0.01	ND	ND	ND	mg/l	Dissolved
Barium (Ba)	2	0.0579	0.0554	0.0561	mg/l	Dissolved
Beryllium (Be)	0.004	ND	ND	ND	mg/l	Dissolved
Beta and Photon Emitters	4	<3.4	3.8	<3.4	pCi/l	Std is in mrem/year; Lab reports pCi/l
Boron (B)	0.75	ND	ND	ND	mg/l	Dissolved
Cadmium (Cd)	0.005	0.0010	ND	ND	mg/l	Dissolved
Chloride (Cl)	250	0.95	0.56	0.57	mg/l	Dissolved
Chromium (Cr)	0.1	ND	ND	ND	mg/l	Dissolved
Cobalt (Co)	0.05	ND	ND	ND	mg/l	Dissolved
Copper (Cu)	0.2	0.0019	ND	ND	mg/l	Dissolved
Cyanide [Free] (Cn)	0.2	ND	ND	ND	mg/l	Total
Fluoride (F)	2	ND	ND	ND	mg/l	Dissolved
Gross Alpha Particle Activity	15	2	5.4	6.1	pCi/l	
Iron (Fe)	0.3	ND	ND	ND	mg/l	Dissolved
Lead (Pb)	0.05	0.0012	0.0004	0.0003	mg/l	Dissolved
Lithium (Li)	2.5	ND	ND	ND	mg/l	Dissolved
Manganese (Mn)	0.05	0.0083	0.0029	0.0028	mg/l	Dissolved
Mercury (inorganic) (Hg)	0.002	ND	ND	ND	mg/l	Dissolved
Molybdenum (Mo)	0.21	0.0043	0.0054	0.0055	mg/l	Dissolved
Nickel (Ni)	0.1	ND	ND	ND	mg/l	Dissolved
Nitrate (NO3)	10	0.10	0.24	0.37	mg/l as N	Dissolved
Nitrate-NitriteTotal	10	0.10	0.24	0.37	mg/l as N	Dissolved
Nitrite (NO2)	1	ND	ND	ND	mg/l as N	Dissolved
pH (field)	6.5 - 8.5	8.1	8.3	8.3	pH units	
Selenium (Se)	0.02	ND	ND	ND	mg/l	Dissolved
Silver (Ag)	0.05	ND	ND	ND	mg/l	Dissolved
Sulfate (SO4)	250	8.63	11.6	11.6	mg/l	Dissolved
TDS	400	103	148	139	mg/l	Total
Thallium (Tl)	0.002	ND	ND	ND	mg/l	Dissolved
Uranium (U)	0.0168 - 0.03	0.0005	0.0049	0.0048	mg/l	Dissolved
Vanadium (V)	0.1	ND	ND	ND	mg/l	Dissolved
Zinc (Zn)	2	0.209	0.014	0.016	mg/l	Dissolved

The highlighted cells indicate Test Results Higher than the Reference Values from Reg. 5 CCR 1002-41

"ND" Indicates Not Detected

Table 3.2 Effluent Quality Test Results – Sample Date August 31, 2023

Parameter	Standard	Cross Portal	Caribou Portal	Caribou Portal Duplicate	Unit	Comments
Aluminum (Al)	5	ND	ND	0.001	mg/l	Dissolved
Antimony (Sb)	0.006	ND	ND	ND	mg/l	Dissolved
Arsenic (As)	0.01	ND	ND	ND	mg/l	Dissolved
Barium (Ba)	2	0.0633	0.0632	0.0594	mg/l	Dissolved
Beryllium (Be)	0.004	ND	ND	ND	mg/l	Dissolved
Beta and Photon Emitters	4	<3.4	4.4	4.5	pCi/l	Std is in mrem/year; Lab reports pCi/l
Boron (B)	0.75	ND	ND	ND	mg/l	Dissolved
Cadmium (Cd)	0.005	0.0010	ND	ND	mg/l	Dissolved
Chloride (Cl)	250	0.76	0.56	0.56	mg/l	Dissolved
Chromium (Cr)	0.1	ND	ND	ND	mg/l	Dissolved
Cobalt (Co)	0.05	ND	ND	ND	mg/l	Dissolved
Copper (Cu)	0.2	0.0017	ND	ND	mg/l	Dissolved
Cyanide [Free] (Cn)	0.2	ND	ND	ND	mg/l	Total
Fluoride (F)	2	ND	ND	ND	mg/l	Dissolved
Gross Alpha Particle Activity	15	2.7	7.7	6.4	pCi/l	
Iron (Fe)	0.3	0.005	0.005	0.005	mg/l	Dissolved
Lead (Pb)	0.05	0.0010	0.0002	0.0003	mg/l	Dissolved
Lithium (Li)	2.5	ND	ND	ND	mg/l	Dissolved
Manganese (Mn)	0.05	0.0081	0.0024	0.0024	mg/l	Dissolved
Mercury (inorganic) (Hg)	0.002	ND	ND	ND	mg/l	Dissolved
Molybdenum (Mo)	0.21	0.0052	0.0058	0.0058	mg/l	Dissolved
Nickel (Ni)	0.1	ND	ND	ND	mg/l	Dissolved
Nitrate (NO3)	10	0.07	0.21	0.22	mg/l as N	Dissolved
Nitrate-NitriteTotal	10	0.07	0.21	0.22	mg/l as N	Dissolved
Nitrite (NO2)	1	ND	ND	ND	mg/l as N	Dissolved
pH (field)	6.5 - 8.5	7.9	8	8	pH units	
Selenium (Se)	0.02	ND	ND	ND	mg/l	Dissolved
Silver (Ag)	0.05	ND	ND	ND	mg/l	Dissolved
Sulfate (SO4)	250	9.12	11.6	11.6	mg/l	Dissolved
TDS	400	110	140	159	mg/l	Total
Thallium (Tl)	0.002	ND	ND	ND	mg/l	Dissolved
Uranium (U)	0.0168 - 0.03	0.0006	0.0058	0.0055	mg/l	Dissolved
Vanadium (V)	0.1	ND	ND	ND	mg/l	Dissolved
Zinc (Zn)	2	0.187	0.012	0.011	mg/l	Dissolved

The highlighted cells indicate Test Results Higher than the Reference Values from Reg. 5 CCR 1002-41

"ND" Indicates Not Detected

Table 3.3 Effluent Quality Test Results – September 28, 2023

Parameter	Standard	Cross Portal	Caribou Portal	Caribou Portal Duplicate	Unit	Comments
Aluminum (Al)	5	ND	0.021	ND	mg/l	Dissolved
Antimony (Sb)	0.006	0.00045	0.001	0.001	mg/l	Dissolved
Arsenic (As)	0.01	ND	ND	0.0007	mg/l	Dissolved
Barium (Ba)	2	0.069	0.057	0.058	mg/l	Dissolved
Beryllium (Be)	0.004	ND	ND	ND	mg/l	Dissolved
Beta and Photon Emitters	4	1.91	1.6	2.56	pCi/l	Std is in mrem/year; Lab reports pCi/l
Boron (B)	0.75	0.0041	0.0033	0.0029	mg/l	Dissolved
Cadmium (Cd)	0.005	0.001	ND	ND	mg/l	Dissolved
Chloride (Cl)	250	ND	ND	ND	mg/l	Dissolved
Chromium (Cr)	0.1	ND	ND	ND	mg/l	Dissolved
Cobalt (Co)	0.05	ND	ND	ND	mg/l	Dissolved
Copper (Cu)	0.2	0.0019	ND	ND	mg/l	Dissolved
Cyanide [Free] (Cn)	0.2	ND	ND	ND	mg/l	Total
Fluoride (F)	2	ND	ND	ND	mg/l	Dissolved
Gross Alpha Particle Activity	15	2.48	6.11	6.69	pCi/l	
Iron (Fe)	0.3	0.021	0.02	0.011	mg/l	Dissolved
Lead (Pb)	0.05	0.00088	0.00023	ND	mg/l	Dissolved
Lithium (Li)	2.5	ND	ND	ND	mg/l	Dissolved
Manganese (Mn)	0.05	0.0085	ND	ND	mg/l	Dissolved
Mercury (inorganic) (Hg)	0.002	ND	ND	ND	mg/l	Dissolved
Molybdenum (Mo)	0.21	0.0061	0.0063	0.0062	mg/l	Dissolved
Nickel (Ni)	0.1	ND	ND	ND	mg/l	Dissolved
Nitrate (NO3)	10	ND	0.15	0.15	mg/l as N	Dissolved
Nitrate-NitriteTotal	10	0.066	0.18	0.17	mg/l as N	Dissolved
Nitrite (NO2)	1	ND	ND	ND	mg/l as N	Dissolved
pH (field)	6.5 - 8.5	7.8	8.1	8.1	pH units	
Selenium (Se)	0.02	ND	ND	ND	mg/l	Dissolved
Silver (Ag)	0.05	ND	ND	ND	mg/l	Dissolved
Sulfate (SO4)	250	10	11	11	mg/l	Dissolved
TDS	400	110	130	130	mg/l	Total
Thallium (Tl)	0.002	ND	ND	ND	mg/l	Dissolved
Uranium (U)	0.0168 - 0.03	0.00074	0.006	0.0062	mg/l	Dissolved
Vanadium (V)	0.1	ND	ND	ND	mg/l	Dissolved
Zinc (Zn)	2	0.22	0.011	0.01	mg/l	Dissolved

The highlighted cells indicate Test Results Higher than the Reference Values from Reg. 5 CCR 1002-41

"ND" Indicates Not Detected



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 August for Station 2022-01 and from both surface sampling stations for the month of September 2023 because no surface flows were observed at the time of the sampling event. Surface water analytical results are presented on tables 4.1 and 4.2 for the months of July and August 2023, respectively.

4.2. Surface Water Flows

No flow measurements were taken during the Month of August for Station 2022-01 and from both surface sampling stations for the month of September 2023 because no surface flows were observed at the time of the sampling event.



Table 4.1 Surface Water Quality Test Results – Sample Date July 28, 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	ND	ND	ND	ug/L
Cadmium Total Recoverable	ND	ND	ND	ND	ug/L
Chromium Potentially Dissolved	ND	0.57	ND	ND	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	1.2	1.2	ND	ug/L
Copper Total Recoverable	2.2	0.9	1.1	ND	ug/L
Field pH	6.9	8.1	8.1	n/a	SU
Field Temperature	15.1	10.2	10.2	n/a	Degrees C
Iron Total Recoverable	230	170	200	ND	ug/L
Lead Potentially Dissolved	0.42	0.59	0.8	ND	ug/L
Lead Total Recoverable	0.25	0.78	0.58	ND	ug/L
Manganese Potentially Dissolved	26	4.3	4.3	ND	ug/L
Mercury, Potentially Dissolved	2.7	2.9	2.6	0.33	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	7.4	8	8	6.3	SU
Selenium Potentially Dissolved	ND	ND	ND	ND	ug/L
Silver Potentially Dissolved	0.15	0.068	ND	ND	ug/L
Specific Conductance	75	190	190	ND	umhos/cm
Specific Conductance Total	75	190	190	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	19.4	19.3	19.6	19.8	Degrees C
Total Suspended Solids	ND	ND	1.2	ND	mg/L
Un-ionized Hydrogen Sulfide Total	ND	ND	ND	ND	mg/L
Zinc, Total Recoverable	2.4	15	16	ND	ug/L
Zinc Potentially Dissolved	9.6	16	16	7	ug/L



Table 4.2 Surface Water Quality Test Results – Sample Date August 31, 2023

Parameter	Sta. 2022-02	Sta. 2022-02 Duplicate	Sta. 2022-02 Field Blank	Unit
Arsenic Potentially Dissolved	ND	ND	ND	ug/L
Arsenic Total Recoverable	ND	ND	ND	ug/L
Cadmium Potentially Dissolved	ND	ND	ND	ug/L
Cadmium Total Recoverable	0.52	ND	ND	ug/L
Chromium Potentially Dissolved	ND	ND	ND	ug/L
Chromium Total Recoverable	ND	ND	ND	ug/L
Chromium, hexavalent Dissolved	ND	ND	ND	mg/L
Chromium, hexavalent Total	ND	ND	ND	mg/L
Chromium, trivalent Potentially Dissolved	ND	ND	ND	mg/L
Chromium, trivalent Total Recoverable	ND	ND	ND	mg/L
Copper Potentially Dissolved	3.8	0.73	ND	ug/L
Copper Total Recoverable	ND	0.77	ND	ug/L
Field pH	8.2	8.2	n/a	SU
Field Temperature	10.7	10.7	n/a	Degrees C
Iron Total Recoverable	140	130	9.2	ug/L
Lead Potentially Dissolved	24	0.37	ND	ug/L
Lead Total Recoverable	0.48	0.5	ND	ug/L
Manganese Potentially Dissolved	95	29	ND	ug/L
Mercury, Potentially Dissolved	1.8	5.8	ND	ng/L
Mercury, Total Recoverable	ND	ND	ND	ug/L
Nickel Potentially Dissolved	ND	ND	ND	ug/L
pH adj. to 25 deg C	7.4	7.9	7.9	SU
Selenium Potentially Dissolved	ND	ND	ND	ug/L
Silver Potentially Dissolved	ND	ND	ND	ug/L
Specific Conductance	210	210	ND	umhos/cm
Specific Conductance Total	210	210	ND	umhos/cm
Sulfide Total (SM 4500 S2 D)	ND	0.026	0.025	mg/L
Sulfide Total (SM4500 S2 H)	ND	ND	ND	mg/L
Temperature	20.7	20.2	20.8	Degrees C
Total Suspended Solids	37	ND	ND	mg/L
Un-ionized Hydrogen Sulfide Total	ND	ND	ND	mg/L
Zinc, Total Recoverable	14	15	ND	ug/L
Zinc Potentially Dissolved	55	22	4.1	ug/L



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 SOP 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

A Trip Blank Quality Control Sample was collected at the Cabin Well (Compliance) during the September sampling event. Field Duplicate samples were collected from the Cabin Well (Compliance) during the July, August and September sampling events. 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 Duplicate samples were collected from the Caribou Portal during the July, August and September sampling events. 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

Field Duplicates and Trip Blanks were collected from Station 2022-02 during the sampling events of July and August.

No samples were collected during the Month of August for Station 2022-01 and from both surface sampling stations for the month of September 2023 because no surface flows were observed at the time of the sampling event.



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.

Table 6.1 Months of July through September present the DMR filed by The Operator with CDPHE for the 3rd quarter 2023.

Table 6.1 DMR July-September 2023

DMR Copy of Record

Permit

Permit #:

CO0032751

Major:

No

Permitted Feature:

001
External Outfall

Permittee:

Grand Island Resources LLC

Permittee Address:

12567 W Cedar Dr
Lakewood, CO 80228

Discharge:

001-Q
Quarterly Monitoring for 001A

Facility:

CROSS AND CARIBOU MINES

Facility Location:

CROSS AND CARIBOU MINES
BOULDER COUNTY, CO 80466

Report Dates & Status

Monitoring Period:

From 07/01/23 to 09/30/23

DMR Due Date:

10/28/23

Status:

NetDMR Validated

Considerations for Form Completion

Quarterly monitoring - see I.C.18, pg 3.

Principal Executive Officer

First Name:

Last Name:

Title:

Telephone:

No Data Indicator (NODI)

Form NODI:

--

Code	Parameter	Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration					# of Ex.	Frequency of Analysis	Sample Type
	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units	
50286	Mercury, total [low level]	1 - Effluent Gross	0	--	Sample								=	0.0046			28 - ug/L	0
					Permit Req.									Req Mon 30DA AVG			Req Mon DAILY MX 28 - ug/L	
					Value NODI													

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

Attachments

Name	Type	Size
2023_07_CrossCaribouMine_Results_1.pdf	pdf	1150268.0
2023_09_CrossCaribouMine_CoverLetter.pdf	pdf	193160.0

Report Last Saved By

Grand Island Resources LLC

User:

pdelaney@alexcoresource.com

Name:

Patrick Delaney

E-Mail:

pdelaney@blackfoxmining.com

Date/Time:

2023-11-01 09:24 (Time Zone: -06:00)

Report Last Signed By

User:

pdelaney@alexcoresource.com

Name:

Patrick Delaney

E-Mail:

pdelaney@blackfoxmining.com

Date/Time:

2023-11-01 09:24 (Time Zone: -06:00)

Table 6.1 (continued) DMR July-September 2023

DMR Copy of Record

Permit		Permit #:		CO0032751		Permittee:		Grand Island Resources LLC		Facility:		CROSS AND CARIBOU MINES	
Major:		No		Permittee Address:		12567 W Cedar Dr Lakewood, CO 80228		Facility Location:		CROSS AND CARIBOU MINES BOULDER COUNTY, CO 80466			
Permitted Feature:		001 External Outfall		Discharge:		001-X CHRONIC WET TESTING FOR 001A							
Report Dates & Status													
Monitoring Period:		From 07/01/23 to 09/30/23		DMR Due Date:		10/28/23		Status:		NetDMR Validated			
Considerations for Form Completion													
See I.B.3 for details of test procedure. Report NOEC using test code "S". Report IC25 using test code "P". Report highest number between "P" and "S" at "T" for each parameter. IWC=73% (1st qtr), 52%(2nd/4th qtr) and 53% (3rd qtr).													
Principal Executive Officer													
First Name:				Title:				Telephone:					
Last Name:													
No Data Indicator (NODI)													
Form NODI: --													
Table with 14 columns: Code, Parameter Name, Monitoring Location, Season #, Param. NODI, Quantity or Loading (Qualifier 1, Value 1, Qualifier 2, Value 2, Units), Quality or Concentration (Qualifier 1, Value 1, Qualifier 2, Value 2, Qualifier 3, Value 3, Units), # of Ex., Frequency of Analysis, Sample Type													
TKP3B Static Renewal 7 Day Chronic Ceriodaphnia dubia P - See Comments 0 -- Sample Permit Req. Value NODI 100.0 2G - tox chronic 0 01/90 - Quarterly G3 - GRAB-3													
TKP3B Static Renewal 7 Day Chronic Ceriodaphnia dubia S - See Comments 0 -- Sample Permit Req. Value NODI 100.0 2G - tox chronic 0 01/90 - Quarterly G3 - GRAB-3													
TKP3B Static Renewal 7 Day Chronic Ceriodaphnia dubia T - See Comments 3 -- Sample Permit Req. Value NODI 100.0 53.0 MN VALUE 2G - tox chronic 0 01/90 - Quarterly G3 - GRAB-3													
TKP6C Static Renewal 7 Day Chronic Pimephales promelas P - See Comments 0 -- Sample Permit Req. Value NODI 100.0 2G - tox chronic 0 01/90 - Quarterly G3 - GRAB-3													
TKP6C Static Renewal 7 Day Chronic Pimephales promelas S - See Comments 0 -- Sample Permit Req. Value NODI 100.0 2G - tox chronic 0 01/90 - Quarterly G3 - GRAB-3													
TKP6C Static Renewal 7 Day Chronic Pimephales promelas T - See Comments 3 -- Sample Permit Req. Value NODI 100.0 53.0 MN VALUE 2G - tox chronic 0 01/90 - Quarterly G3 - GRAB-3													
Submission Note													
If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.													
Edit Check Errors													
No errors.													
Comments													
Attachments													
Table with 3 columns: Name, Type, Size													
2023_3rdQuarterWET_Test_GIR.pdf pdf 8290672.0													
2023_09_CrossCaribouMine_CoverLetter.pdf pdf 193160.0													
Report Last Saved By													
Grand Island Resources LLC													
User: pdelaney@alexcoresource.com													
Name: Patrick Delaney													
E-Mail: pdelaney@blackfoxmining.com													
Date/Time: 2023-11-01 09:19 (Time Zone: -06:00)													
Report Last Signed By													
User: pdelaney@alexcoresource.com													

Name: Patrick Delaney
E-Mail: pdelaney@blackfoxmining.com
Date/Time: 2023-11-01 09:22 (Time Zone: -06:00)

Appendices

APPENDICES

APPENDIX A GROUNDWATER AND EFFLUENT ANALYTICAL RESULTS

APPENDIX A.1 JULY 2023 GROUNDWATER AND EFFLUENT ANALYTICAL RESULTS

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.: 230728058

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 7/28/23

Date Reported: 9/1/23

Matrix: Water - Ground

Customer Sample ID Cross Well

Sample Date/Time: 7/28/23 1:00 PM

Lab Number: 230728058-01

Test	Result / Units	Method	RL	MDL	Date Analyzed	QC Batch ID	Analyzed By
Chloride	1.66 mg/L	EPA 300.0	0.10	0.007	7/28/23	QC66791	NRP
Cyanide-Free	ND mg/L	ASTM D4282-15	0.005	0.0005	8/2/23	QC66822	DPL
Fluoride	ND mg/L	EPA 300.0	0.10	0.024	7/28/23	QC66792	NRP
Nitrate Nitrogen	0.27 mg/L	EPA 300.0	0.05	0.02	7/28/23	QC66793	NRP
Nitrate/ Nitrite Nitrogen	0.27 mg/L	Calculation	0.05	0.02	7/28/23	-	AMJ
Nitrite Nitrogen	ND mg/L	EPA 300.0	0.03	0.01	7/28/23	QC66794	NRP
Sulfate	9.41 mg/L	EPA 300.0	0.10	0.012	7/28/23	QC66795	NRP
Dissolved							
Mercury	ND mg/L	EPA 245.7	0.0002	0.00002	8/3/23	QC66848	MAT
Aluminum	0.001 mg/L	EPA 200.8	0.001	0.00003	8/3/23	QC66861	MBN
Antimony	ND mg/L	EPA 200.8	0.0012	0.00012	8/3/23	QC66861	MBN
Arsenic	0.0020 mg/L	EPA 200.8	0.0006	0.00006	8/3/23	QC66861	MBN
Barium	0.0284 mg/L	EPA 200.8	0.0007	0.00007	8/3/23	QC66861	MBN
Beryllium	ND mg/L	EPA 200.8	0.0001	0.000008	8/3/23	QC66861	MBN
Cadmium	0.0006 mg/L	EPA 200.8	0.0001	0.000006	8/3/23	QC66861	MBN
Chromium	ND mg/L	EPA 200.8	0.0015	0.00015	8/3/23	QC66861	MBN
Cobalt	ND mg/L	EPA 200.8	0.0002	0.00005	8/3/23	QC66861	MBN
Copper	0.0020 mg/L	EPA 200.8	0.0008	0.00001	8/3/23	QC66861	MBN
Lead	0.0004 mg/L	EPA 200.8	0.0001	0.000006	8/3/23	QC66861	MBN
Manganese	0.0049 mg/L	EPA 200.8	0.0008	0.00001	8/3/23	QC66861	MBN
Molybdenum	0.0011 mg/L	EPA 200.8	0.0005	0.00005	8/3/23	QC66861	MBN
Nickel	ND mg/L	EPA 200.8	0.0009	0.00005	8/3/23	QC66861	MBN
Selenium	0.0185 mg/L	EPA 200.8	0.0008	0.00008	8/3/23	QC66861	MBN
Silver	ND mg/L	EPA 200.8	0.0005	0.000003	8/3/23	QC66861	MBN
Thallium	ND mg/L	EPA 200.8	0.0002	0.000003	8/3/23	QC66861	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

ND = Not Detected at Reporting Limit.

Analytical Results

TASK NO: 230728058

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.: 230728058

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 7/28/23

Date Reported: 9/1/23

Matrix: Water - Ground

Customer Sample ID Cross Well

Sample Date/Time: 7/28/23 1:00 PM

Lab Number: 230728058-01

Test	Result / Units	Method	RL	MDL	Date Analyzed	QC Batch ID	Analyzed By
<u>Dissolved</u>							
Uranium	ND mg/L	EPA 200.8	0.0002	0.000002	8/3/23	QC66861	MBN
Vanadium	ND mg/L	EPA 200.8	0.001	0.0001	8/3/23	QC66861	MBN
Zinc	0.800 mg/L	EPA 200.8	0.001	0.00003	8/3/23	QC66861	MBN
Boron	ND mg/L	EPA 200.7	0.05	0.01	8/1/23	QC66799	MBN
Calcium	16.4 mg/L	EPA 200.7	0.1	0.01	8/1/23	QC66799	MBN
Iron	0.005 mg/L	EPA 200.7	0.005	0.0005	8/1/23	QC66799	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

ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313

Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507

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.: 230728058
Client PO: \$1500 Prepayment Received
Client Project: Monthly Groundwater

Date Received: 7/28/23
Date Reported: 9/1/23
Matrix: Water - Ground

Customer Sample ID Compliance Well
Sample Date/Time: 7/28/23 1:30 PM
Lab Number: 230728058-02

Test	Result / Units	Method	RL	MDL	Date Analyzed	QC Batch ID	Analyzed By
Chloride	2.31 mg/L	EPA 300.0	0.10	0.007	7/28/23	QC66791	NRP
Cyanide-Free	ND mg/L	ASTM D4282-15	0.005	0.0005	8/2/23	QC66822	DPL
Fluoride	ND mg/L	EPA 300.0	0.10	0.024	7/28/23	QC66792	NRP
Nitrate Nitrogen	0.30 mg/L	EPA 300.0	0.05	0.02	7/28/23	QC66793	NRP
Nitrate/ Nitrite Nitrogen	0.30 mg/L	Calculation	0.05	0.02	7/28/23	-	AMJ
Nitrite Nitrogen	ND mg/L	EPA 300.0	0.03	0.01	7/28/23	QC66794	NRP
Sulfate	7.48 mg/L	EPA 300.0	0.10	0.012	7/28/23	QC66795	NRP
Dissolved							
Mercury	ND mg/L	EPA 245.7	0.0002	0.00002	8/3/23	QC66848	MAT
Aluminum	0.003 mg/L	EPA 200.8	0.001	0.00003	8/3/23	QC66861	MBN
Antimony	ND mg/L	EPA 200.8	0.0012	0.00012	8/3/23	QC66861	MBN
Arsenic	ND mg/L	EPA 200.8	0.0006	0.00006	8/3/23	QC66861	MBN
Barium	0.0357 mg/L	EPA 200.8	0.0007	0.00007	8/3/23	QC66861	MBN
Beryllium	ND mg/L	EPA 200.8	0.0001	0.000008	8/3/23	QC66861	MBN
Cadmium	ND mg/L	EPA 200.8	0.0001	0.000006	8/3/23	QC66861	MBN
Chromium	ND mg/L	EPA 200.8	0.0015	0.00015	8/3/23	QC66861	MBN
Cobalt	ND mg/L	EPA 200.8	0.0002	0.00005	8/3/23	QC66861	MBN
Copper	ND mg/L	EPA 200.8	0.0008	0.00001	8/3/23	QC66861	MBN
Lead	ND mg/L	EPA 200.8	0.0001	0.000006	8/3/23	QC66861	MBN
Manganese	0.0060 mg/L	EPA 200.8	0.0008	0.00001	8/3/23	QC66861	MBN
Molybdenum	0.0040 mg/L	EPA 200.8	0.0005	0.00005	8/3/23	QC66861	MBN
Nickel	ND mg/L	EPA 200.8	0.0009	0.00005	8/3/23	QC66861	MBN
Selenium	ND mg/L	EPA 200.8	0.0008	0.00008	8/3/23	QC66861	MBN
Silver	ND mg/L	EPA 200.8	0.0005	0.000003	8/3/23	QC66861	MBN
Thallium	ND mg/L	EPA 200.8	0.0002	0.000003	8/3/23	QC66861	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

ND = Not Detected at Reporting Limit.

Analytical Results

TASK NO: 230728058

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.: 230728058

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 7/28/23

Date Reported: 9/1/23

Matrix: Water - Ground

Customer Sample ID Compliance Well

Sample Date/Time: 7/28/23 1:30 PM

Lab Number: 230728058-02

Test	Result / Units	Method	RL	MDL	Date Analyzed	QC Batch ID	Analyzed By
<u>Dissolved</u>							
Uranium	ND mg/L	EPA 200.8	0.0002	0.000002	8/3/23	QC66861	MBN
Vanadium	ND mg/L	EPA 200.8	0.001	0.0001	8/3/23	QC66861	MBN
Zinc	0.087 mg/L	EPA 200.8	0.001	0.00003	8/3/23	QC66861	MBN
Boron	ND mg/L	EPA 200.7	0.05	0.01	8/1/23	QC66799	MBN
Calcium	13.3 mg/L	EPA 200.7	0.1	0.01	8/1/23	QC66799	MBN
Iron	ND mg/L	EPA 200.7	0.005	0.0005	8/1/23	QC66799	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

ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313

Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507

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.: 230728058

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 7/28/23

Date Reported: 9/1/23

Matrix: Water - Ground

Customer Sample ID Compliance 02

Sample Date/Time: 7/28/23 1:30 PM

Lab Number: 230728058-03

Test	Result / Units	Method	RL	MDL	Date Analyzed	QC Batch ID	Analyzed By
Chloride	2.31 mg/L	EPA 300.0	0.10	0.007	7/28/23	QC66791	NRP
Cyanide-Free	ND mg/L	ASTM D4282-15	0.005	0.0005	8/2/23	QC66822	DPL
Fluoride	ND mg/L	EPA 300.0	0.10	0.024	7/28/23	QC66792	NRP
Nitrate Nitrogen	0.30 mg/L	EPA 300.0	0.05	0.02	7/28/23	QC66793	NRP
Nitrate/ Nitrite Nitrogen	0.30 mg/L	Calculation	0.05	0.02	7/28/23	-	AMJ
Nitrite Nitrogen	ND mg/L	EPA 300.0	0.03	0.01	7/28/23	QC66794	NRP
Sulfate	7.49 mg/L	EPA 300.0	0.10	0.012	7/28/23	QC66795	NRP
Dissolved							
Mercury	ND mg/L	EPA 245.7	0.0002	0.00002	8/3/23	QC66848	MAT
Aluminum	0.002 mg/L	EPA 200.8	0.001	0.00003	8/3/23	QC66861	MBN
Antimony	ND mg/L	EPA 200.8	0.0012	0.00012	8/3/23	QC66861	MBN
Arsenic	ND mg/L	EPA 200.8	0.0006	0.00006	8/3/23	QC66861	MBN
Barium	0.0350 mg/L	EPA 200.8	0.0007	0.00007	8/3/23	QC66861	MBN
Beryllium	ND mg/L	EPA 200.8	0.0001	0.000008	8/3/23	QC66861	MBN
Cadmium	ND mg/L	EPA 200.8	0.0001	0.000006	8/3/23	QC66861	MBN
Chromium	ND mg/L	EPA 200.8	0.0015	0.00015	8/3/23	QC66861	MBN
Cobalt	ND mg/L	EPA 200.8	0.0002	0.00005	8/3/23	QC66861	MBN
Copper	ND mg/L	EPA 200.8	0.0008	0.00001	8/3/23	QC66861	MBN
Lead	0.0001 mg/L	EPA 200.8	0.0001	0.000006	8/3/23	QC66861	MBN
Manganese	0.0063 mg/L	EPA 200.8	0.0008	0.00001	8/3/23	QC66861	MBN
Molybdenum	0.0040 mg/L	EPA 200.8	0.0005	0.00005	8/3/23	QC66861	MBN
Nickel	ND mg/L	EPA 200.8	0.0009	0.00005	8/3/23	QC66861	MBN
Selenium	ND mg/L	EPA 200.8	0.0008	0.00008	8/3/23	QC66861	MBN
Silver	ND mg/L	EPA 200.8	0.0005	0.000003	8/3/23	QC66861	MBN
Thallium	ND mg/L	EPA 200.8	0.0002	0.000003	8/3/23	QC66861	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

ND = Not Detected at Reporting Limit.

Analytical Results

TASK NO: 230728058

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.: 230728058
Client PO: \$1500 Prepayment Received
Client Project: Monthly Groundwater

Date Received: 7/28/23
Date Reported: 9/1/23
Matrix: Water - Ground

Customer Sample ID Compliance 02
Sample Date/Time: 7/28/23 1:30 PM
Lab Number: 230728058-03

Test	Result / Units	Method	RL	MDL	Date Analyzed	QC Batch ID	Analyzed By
<u>Dissolved</u>							
Uranium	ND mg/L	EPA 200.8	0.0002	0.000002	8/3/23	QC66861	MBN
Vanadium	ND mg/L	EPA 200.8	0.001	0.0001	8/3/23	QC66861	MBN
Zinc	0.087 mg/L	EPA 200.8	0.001	0.00003	8/3/23	QC66861	MBN
Boron	ND mg/L	EPA 200.7	0.05	0.01	8/1/23	QC66799	MBN
Calcium	13.3 mg/L	EPA 200.7	0.1	0.01	8/1/23	QC66799	MBN
Iron	ND mg/L	EPA 200.7	0.005	0.0005	8/1/23	QC66799	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

ND = Not Detected at Reporting Limit.

Analytical Results

TASK NO: 230728058

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.: 230728058

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 7/28/23

Date Reported: 9/1/23

Matrix: Water - Ground

Customer Sample ID Caribou Well

Sample Date/Time: 7/28/23 11:30 AM

Lab Number: 230728058-04

Test	Result / Units	Method	RL	MDL	Date Analyzed	QC Batch ID	Analyzed By
Chloride	0.45 mg/L	EPA 300.0	0.10	0.007	7/28/23	QC66791	NRP
Cyanide-Free	ND mg/L	ASTM D4282-15	0.005	0.0005	8/2/23	QC66822	DPL
Fluoride	ND mg/L	EPA 300.0	0.10	0.024	7/28/23	QC66792	NRP
Nitrate Nitrogen	0.09 mg/L	EPA 300.0	0.05	0.02	7/28/23	QC66793	NRP
Nitrate/ Nitrite Nitrogen	0.09 mg/L	Calculation	0.05	0.02	7/28/23	-	AMJ
Nitrite Nitrogen	ND mg/L	EPA 300.0	0.03	0.01	7/28/23	QC66794	NRP
Sulfate	2.73 mg/L	EPA 300.0	0.10	0.012	7/28/23	QC66795	NRP
Dissolved							
Mercury	ND mg/L	EPA 245.7	0.0002	0.00002	8/3/23	QC66848	MAT
Aluminum	0.014 mg/L	EPA 200.8	0.001	0.00003	8/3/23	QC66861	MBN
Antimony	ND mg/L	EPA 200.8	0.0012	0.00012	8/3/23	QC66861	MBN
Arsenic	ND mg/L	EPA 200.8	0.0006	0.00006	8/3/23	QC66861	MBN
Barium	0.0067 mg/L	EPA 200.8	0.0007	0.00007	8/3/23	QC66861	MBN
Beryllium	ND mg/L	EPA 200.8	0.0001	0.000008	8/3/23	QC66861	MBN
Cadmium	ND mg/L	EPA 200.8	0.0001	0.000006	8/3/23	QC66861	MBN
Chromium	ND mg/L	EPA 200.8	0.0015	0.00015	8/3/23	QC66861	MBN
Cobalt	ND mg/L	EPA 200.8	0.0002	0.00005	8/3/23	QC66861	MBN
Copper	0.0851 mg/L	EPA 200.8	0.0008	0.00001	8/3/23	QC66861	MBN
Lead	0.0004 mg/L	EPA 200.8	0.0001	0.000006	8/3/23	QC66861	MBN
Manganese	ND mg/L	EPA 200.8	0.0008	0.00001	8/3/23	QC66861	MBN
Molybdenum	ND mg/L	EPA 200.8	0.0005	0.00005	8/3/23	QC66861	MBN
Nickel	ND mg/L	EPA 200.8	0.0009	0.00005	8/3/23	QC66861	MBN
Selenium	ND mg/L	EPA 200.8	0.0008	0.00008	8/3/23	QC66861	MBN
Silver	ND mg/L	EPA 200.8	0.0005	0.000003	8/3/23	QC66861	MBN
Thallium	ND mg/L	EPA 200.8	0.0002	0.000003	8/3/23	QC66861	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

ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313

Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507

Analytical Results

TASK NO: 230728058

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.: 230728058
Client PO: \$1500 Prepayment Received
Client Project: Monthly Groundwater

Date Received: 7/28/23
Date Reported: 9/1/23
Matrix: Water - Ground

Customer Sample ID Caribou Well
Sample Date/Time: 7/28/23 11:30 AM
Lab Number: 230728058-04

Test	Result / Units	Method	RL	MDL	Date Analyzed	QC Batch ID	Analyzed By
<u>Dissolved</u>							
Uranium	ND mg/L	EPA 200.8	0.0002	0.000002	8/3/23	QC66861	MBN
Vanadium	ND mg/L	EPA 200.8	0.001	0.0001	8/3/23	QC66861	MBN
Zinc	0.012 mg/L	EPA 200.8	0.001	0.00003	8/3/23	QC66861	MBN
Boron	ND mg/L	EPA 200.7	0.05	0.01	8/1/23	QC66799	MBN
Calcium	3.9 mg/L	EPA 200.7	0.1	0.01	8/1/23	QC66799	MBN
Iron	ND mg/L	EPA 200.7	0.005	0.0005	8/1/23	QC66799	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

ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313

Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507

Analytical Results

TASK NO: 230728058

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.: 230728058

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 7/28/23

Date Reported: 9/1/23

Matrix: Water - Ground

Customer Sample ID Cross Portal

Sample Date/Time: 7/28/23 12:15 PM

Lab Number: 230728058-05

Test	Result / Units	Method	RL	MDL	Date Analyzed	QC Batch ID	Analyzed By
Chloride	0.95 mg/L	EPA 300.0	0.10	0.007	7/28/23	QC66791	NRP
Cyanide-Free	ND mg/L	ASTM D4282-15	0.005	0.0005	8/2/23	QC66822	DPL
Fluoride	ND mg/L	EPA 300.0	0.10	0.024	7/28/23	QC66792	NRP
Nitrate Nitrogen	0.10 mg/L	EPA 300.0	0.05	0.02	7/28/23	QC66793	NRP
Nitrate/ Nitrite Nitrogen	0.10 mg/L	Calculation	0.05	0.02	7/28/23	-	AMJ
Nitrite Nitrogen	ND mg/L	EPA 300.0	0.03	0.01	7/28/23	QC66794	NRP
Sulfate	8.63 mg/L	EPA 300.0	0.10	0.012	7/28/23	QC66795	NRP
Dissolved							
Mercury	ND mg/L	EPA 245.7	0.0002	0.00002	8/3/23	QC66848	MAT
Aluminum	0.004 mg/L	EPA 200.8	0.001	0.00003	8/3/23	QC66861	MBN
Antimony	ND mg/L	EPA 200.8	0.0012	0.00012	8/3/23	QC66861	MBN
Arsenic	ND mg/L	EPA 200.8	0.0006	0.00006	8/3/23	QC66861	MBN
Barium	0.0579 mg/L	EPA 200.8	0.0007	0.00007	8/3/23	QC66861	MBN
Beryllium	ND mg/L	EPA 200.8	0.0001	0.000008	8/3/23	QC66861	MBN
Cadmium	0.0010 mg/L	EPA 200.8	0.0001	0.000006	8/3/23	QC66861	MBN
Chromium	ND mg/L	EPA 200.8	0.0015	0.00015	8/3/23	QC66861	MBN
Cobalt	ND mg/L	EPA 200.8	0.0002	0.00005	8/3/23	QC66861	MBN
Copper	0.0019 mg/L	EPA 200.8	0.0008	0.00001	8/3/23	QC66861	MBN
Lead	0.0012 mg/L	EPA 200.8	0.0001	0.000006	8/3/23	QC66861	MBN
Manganese	0.0083 mg/L	EPA 200.8	0.0008	0.00001	8/3/23	QC66861	MBN
Molybdenum	0.0043 mg/L	EPA 200.8	0.0005	0.00005	8/3/23	QC66861	MBN
Nickel	ND mg/L	EPA 200.8	0.0009	0.00005	8/3/23	QC66861	MBN
Selenium	ND mg/L	EPA 200.8	0.0008	0.00008	8/3/23	QC66861	MBN
Silver	ND mg/L	EPA 200.8	0.0005	0.000003	8/3/23	QC66861	MBN
Thallium	ND mg/L	EPA 200.8	0.0002	0.000003	8/3/23	QC66861	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

ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313

Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507

Analytical Results

TASK NO: 230728058

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.: 230728058
Client PO: \$1500 Prepayment Received
Client Project: Monthly Groundwater

Date Received: 7/28/23
Date Reported: 9/1/23
Matrix: Water - Ground

Customer Sample ID Cross Portal
Sample Date/Time: 7/28/23 12:15 PM
Lab Number: 230728058-05

Test	Result / Units	Method	RL	MDL	Date Analyzed	QC Batch ID	Analyzed By
<u>Dissolved</u>							
Uranium	0.0005 mg/L	EPA 200.8	0.0002	0.000002	8/3/23	QC66861	MBN
Vanadium	ND mg/L	EPA 200.8	0.001	0.0001	8/3/23	QC66861	MBN
Zinc	0.209 mg/L	EPA 200.8	0.001	0.00003	8/3/23	QC66861	MBN
Boron	ND mg/L	EPA 200.7	0.05	0.01	8/1/23	QC66799	MBN
Calcium	19.9 mg/L	EPA 200.7	0.1	0.01	8/1/23	QC66799	MBN
Iron	ND mg/L	EPA 200.7	0.005	0.0005	8/1/23	QC66799	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

ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313

Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507

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.: 230728058

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 7/28/23

Date Reported: 9/1/23

Matrix: Water - Ground

Customer Sample ID Caribou 02

Sample Date/Time: 7/28/23 11:15 AM

Lab Number: 230728058-06

Test	Result / Units	Method	RL	MDL	Date Analyzed	QC Batch ID	Analyzed By
Chloride	0.57 mg/L	EPA 300.0	0.10	0.007	7/28/23	QC66791	NRP
Cyanide-Free	ND mg/L	ASTM D4282-15	0.005	0.0005	8/2/23	QC66822	DPL
Fluoride	ND mg/L	EPA 300.0	0.10	0.024	7/28/23	QC66792	NRP
Nitrate Nitrogen	0.37 mg/L	EPA 300.0	0.05	0.02	7/28/23	QC66793	NRP
Nitrate/ Nitrite Nitrogen	0.37 mg/L	Calculation	0.05	0.02	7/28/23	-	AMJ
Nitrite Nitrogen	ND mg/L	EPA 300.0	0.03	0.01	7/28/23	QC66794	NRP
Sulfate	11.63 mg/L	EPA 300.0	0.10	0.012	7/28/23	QC66795	NRP
Dissolved							
Mercury	ND mg/L	EPA 245.7	0.0002	0.00002	8/3/23	QC66848	MAT
Aluminum	0.002 mg/L	EPA 200.8	0.001	0.00003	8/3/23	QC66861	MBN
Antimony	ND mg/L	EPA 200.8	0.0012	0.00012	8/3/23	QC66861	MBN
Arsenic	ND mg/L	EPA 200.8	0.0006	0.00006	8/3/23	QC66861	MBN
Barium	0.0561 mg/L	EPA 200.8	0.0007	0.00007	8/3/23	QC66861	MBN
Beryllium	ND mg/L	EPA 200.8	0.0001	0.000008	8/3/23	QC66861	MBN
Cadmium	ND mg/L	EPA 200.8	0.0001	0.000006	8/3/23	QC66861	MBN
Chromium	ND mg/L	EPA 200.8	0.0015	0.00015	8/3/23	QC66861	MBN
Cobalt	ND mg/L	EPA 200.8	0.0002	0.00005	8/3/23	QC66861	MBN
Copper	ND mg/L	EPA 200.8	0.0008	0.00001	8/3/23	QC66861	MBN
Lead	0.0003 mg/L	EPA 200.8	0.0001	0.000006	8/3/23	QC66861	MBN
Manganese	0.0028 mg/L	EPA 200.8	0.0008	0.00001	8/3/23	QC66861	MBN
Molybdenum	0.0055 mg/L	EPA 200.8	0.0005	0.00005	8/3/23	QC66861	MBN
Nickel	ND mg/L	EPA 200.8	0.0009	0.00005	8/3/23	QC66861	MBN
Selenium	ND mg/L	EPA 200.8	0.0008	0.00008	8/3/23	QC66861	MBN
Silver	ND mg/L	EPA 200.8	0.0005	0.000003	8/3/23	QC66861	MBN
Thallium	ND mg/L	EPA 200.8	0.0002	0.000003	8/3/23	QC66861	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

ND = Not Detected at Reporting Limit.

Analytical Results

TASK NO: 230728058

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.: 230728058
Client PO: \$1500 Prepayment Received
Client Project: Monthly Groundwater

Date Received: 7/28/23
Date Reported: 9/1/23
Matrix: Water - Ground

Customer Sample ID Caribou 02
Sample Date/Time: 7/28/23 11:15 AM
Lab Number: 230728058-06

Test	Result / Units	Method	RL	MDL	Date Analyzed	QC Batch ID	Analyzed By
<u>Dissolved</u>							
Uranium	0.0048 mg/L	EPA 200.8	0.0002	0.000002	8/3/23	QC66861	MBN
Vanadium	ND mg/L	EPA 200.8	0.001	0.0001	8/3/23	QC66861	MBN
Zinc	0.016 mg/L	EPA 200.8	0.001	0.00003	8/3/23	QC66861	MBN
Boron	ND mg/L	EPA 200.7	0.05	0.01	8/1/23	QC66799	MBN
Calcium	27.4 mg/L	EPA 200.7	0.1	0.01	8/1/23	QC66799	MBN
Iron	ND mg/L	EPA 200.7	0.005	0.0005	8/1/23	QC66799	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

ND = Not Detected at Reporting Limit.

Analytical Results

TASK NO: 230728058

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.: 230728058

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 7/28/23

Date Reported: 9/1/23

Matrix: Water - Ground

Customer Sample ID Caribou Portal

Sample Date/Time: 7/28/23 11:15 AM

Lab Number: 230728058-07

Test	Result / Units	Method	RL	MDL	Date Analyzed	QC Batch ID	Analyzed By
Chloride	0.56 mg/L	EPA 300.0	0.10	0.007	7/28/23	QC66791	NRP
Cyanide-Free	ND mg/L	ASTM D4282-15	0.005	0.0005	8/2/23	QC66822	DPL
Fluoride	ND mg/L	EPA 300.0	0.10	0.024	7/28/23	QC66792	NRP
Nitrate Nitrogen	0.24 mg/L	EPA 300.0	0.05	0.02	7/28/23	QC66793	NRP
Nitrate/ Nitrite Nitrogen	0.24 mg/L	Calculation	0.05	0.02	7/28/23	-	AMJ
Nitrite Nitrogen	ND mg/L	EPA 300.0	0.03	0.01	7/28/23	QC66794	NRP
Sulfate	11.60 mg/L	EPA 300.0	0.10	0.012	7/28/23	QC66795	NRP
Dissolved							
Mercury	ND mg/L	EPA 245.7	0.0002	0.00002	8/3/23	QC66848	MAT
Aluminum	0.003 mg/L	EPA 200.8	0.001	0.00003	8/3/23	QC66861	MBN
Antimony	ND mg/L	EPA 200.8	0.0012	0.00012	8/3/23	QC66861	MBN
Arsenic	ND mg/L	EPA 200.8	0.0006	0.00006	8/3/23	QC66861	MBN
Barium	0.0554 mg/L	EPA 200.8	0.0007	0.00007	8/3/23	QC66861	MBN
Beryllium	ND mg/L	EPA 200.8	0.0001	0.000008	8/3/23	QC66861	MBN
Cadmium	ND mg/L	EPA 200.8	0.0001	0.000006	8/3/23	QC66861	MBN
Chromium	ND mg/L	EPA 200.8	0.0015	0.00015	8/3/23	QC66861	MBN
Cobalt	ND mg/L	EPA 200.8	0.0002	0.00005	8/3/23	QC66861	MBN
Copper	ND mg/L	EPA 200.8	0.0008	0.00001	8/3/23	QC66861	MBN
Lead	0.0004 mg/L	EPA 200.8	0.0001	0.000006	8/3/23	QC66861	MBN
Manganese	0.0029 mg/L	EPA 200.8	0.0008	0.00001	8/3/23	QC66861	MBN
Molybdenum	0.0054 mg/L	EPA 200.8	0.0005	0.00005	8/3/23	QC66861	MBN
Nickel	ND mg/L	EPA 200.8	0.0009	0.00005	8/3/23	QC66861	MBN
Selenium	ND mg/L	EPA 200.8	0.0008	0.00008	8/3/23	QC66861	MBN
Silver	ND mg/L	EPA 200.8	0.0005	0.000003	8/3/23	QC66861	MBN
Thallium	ND mg/L	EPA 200.8	0.0002	0.000003	8/3/23	QC66861	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

ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313

Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507

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230728058

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Analytical Results

TASK NO: 230728058

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.: 230728058
Client PO: \$1500 Prepayment Received
Client Project: Monthly Groundwater

Date Received: 7/28/23
Date Reported: 9/1/23
Matrix: Water - Ground

Customer Sample ID Caribou Portal
Sample Date/Time: 7/28/23 11:15 AM
Lab Number: 230728058-07

Test	Result / Units	Method	RL	MDL	Date Analyzed	QC Batch ID	Analyzed By
<u>Dissolved</u>							
Uranium	0.0049 mg/L	EPA 200.8	0.0002	0.000002	8/3/23	QC66861	MBN
Vanadium	ND mg/L	EPA 200.8	0.001	0.0001	8/3/23	QC66861	MBN
Zinc	0.014 mg/L	EPA 200.8	0.001	0.00003	8/3/23	QC66861	MBN
Boron	ND mg/L	EPA 200.7	0.05	0.01	8/1/23	QC66799	MBN
Calcium	27.0 mg/L	EPA 200.7	0.1	0.01	8/1/23	QC66799	MBN
Iron	ND mg/L	EPA 200.7	0.005	0.0005	8/1/23	QC66799	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

ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313

Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507

Analytical QC Summary

TASK NO: 230728058

Report To: Patrick Delaney
Company: Grand Island Resources LLC

Receive Date: 7/28/23
Project Name: Monthly Groundwater

Test	QC Batch ID	QC Type	Result	Method	Prep Date
Chloride	QC66791	Blank	ND	EPA 300.0	7/31/23
Cyanide-Free	QC66822	Blank	ND	ASTM D4282-15	8/2/23
Fluoride	QC66792	Blank	ND	EPA 300.0	7/31/23
Mercury	QC66848	Method Blank	ND	EPA 245.7	8/3/23
Aluminum	QC66861	Method Blank	ND	EPA 200.8	7/28/23
Antimony	QC66861	Method Blank	ND	EPA 200.8	7/28/23
Arsenic	QC66861	Method Blank	ND	EPA 200.8	7/28/23
Barium	QC66861	Method Blank	ND	EPA 200.8	7/28/23
Beryllium	QC66861	Method Blank	ND	EPA 200.8	7/28/23
Cadmium	QC66861	Method Blank	ND	EPA 200.8	7/28/23
Chromium	QC66861	Method Blank	ND	EPA 200.8	7/28/23
Cobalt	QC66861	Method Blank	ND	EPA 200.8	7/28/23
Copper	QC66861	Method Blank	ND	EPA 200.8	7/28/23
Lead	QC66861	Method Blank	ND	EPA 200.8	7/28/23
Manganese	QC66861	Method Blank	ND	EPA 200.8	7/28/23
Molybdenum	QC66861	Method Blank	ND	EPA 200.8	7/28/23
Nickel	QC66861	Method Blank	ND	EPA 200.8	7/28/23
Selenium	QC66861	Method Blank	ND	EPA 200.8	7/28/23
Silver	QC66861	Method Blank	ND	EPA 200.8	7/28/23
Thallium	QC66861	Method Blank	ND	EPA 200.8	7/28/23
Uranium	QC66861	Method Blank	ND	EPA 200.8	7/28/23
Vanadium	QC66861	Method Blank	ND	EPA 200.8	7/28/23
Zinc	QC66861	Method Blank	ND	EPA 200.8	7/28/23
Boron	QC66799	Method Blank	ND	EPA 200.7	7/28/23
Calcium	QC66799	Method Blank	ND	EPA 200.7	7/28/23
Iron	QC66799	Method Blank	ND	EPA 200.7	7/28/23
Nitrate Nitrogen	QC66793	Blank	ND	EPA 300.0	7/31/23
Nitrite Nitrogen	QC66794	Blank	ND	EPA 300.0	7/31/23
Sulfate	QC66795	Blank	ND	EPA 300.0	7/31/23

Test	QC Batch ID	QC Type	Limits	% Rec	RPD	Method
Chloride	QC66791	Duplicate	0 - 20	-	0.4	EPA 300.0
		LCS	90 - 110	104.7	-	
		MS	75 - 125	101.2	-	
Cyanide-Free	QC66822	Duplicate	0 - 20	-	0.0	ASTM D4282-15
		LCS	90 - 110	97.0	-	
		MS	75 - 125	100.5	-	
Fluoride	QC66792	Duplicate	0 - 20	-	1.4	EPA 300.0
		LCS	90 - 110	90.4	-	
		MS	75 - 125	87.6	-	
Mercury	QC66848	Duplicate	0 - 20	-	0.0	EPA 245.7
		LCS	90 - 110	102.2	-	

Abbreviations/ References:

RL = Reporting Limit = Minimum Level
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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.

Test	QC Batch ID	QC Type	Limits	% Rec	RPD	Method
Aluminum	QC66861	MS	80 - 120	96.0	-	EPA 200.8
		LCS	90 - 110	102.1	-	
		MS	70 - 130	91.8	-	
		MSD	0 - 10	-	4.6	
Antimony	QC66861	LCS	90 - 110	105.7	-	EPA 200.8
		MS	70 - 130	104.8	-	
		MSD	0 - 10	-	0.5	
Arsenic	QC66861	LCS	90 - 110	103.3	-	EPA 200.8
		MS	70 - 130	112.8	-	
		MSD	0 - 10	-	1.4	
Barium	QC66861	LCS	90 - 110	101.6	-	EPA 200.8
		MS	70 - 130	71.7	-	
		MSD	0 - 10	-	0.3	
Beryllium	QC66861	LCS	90 - 110	97.1	-	EPA 200.8
		MS	70 - 130	101.1	-	
		MSD	0 - 10	-	0.8	
Cadmium	QC66861	LCS	90 - 110	97.6	-	EPA 200.8
		MS	70 - 130	104.4	-	
		MSD	0 - 10	-	0.1	
Chromium	QC66861	LCS	90 - 110	100.4	-	EPA 200.8
		MS	70 - 130	102.0	-	
		MSD	0 - 10	-	0.7	
Cobalt	QC66861	LCS	90 - 110	105.5	-	EPA 200.8
		MS	70 - 130	102.5	-	
		MSD	0 - 10	-	1.0	
Copper	QC66861	LCS	90 - 110	100.5	-	EPA 200.8
		MS	70 - 130	92.4	-	
		MSD	0 - 10	-	0.1	
Lead	QC66861	LCS	90 - 110	95.8	-	EPA 200.8
		MS	70 - 130	92.8	-	
		MSD	0 - 10	-	1.4	
Manganese	QC66861	LCS	90 - 110	104.0	-	EPA 200.8
		MS	70 - 130	104.5	-	
		MSD	0 - 10	-	0.3	
Molybdenum	QC66861	LCS	90 - 110	97.5	-	EPA 200.8
		MS	70 - 130	95.7	-	
		MSD	0 - 10	-	2.0	
Nickel	QC66861	LCS	90 - 110	103.3	-	EPA 200.8
		MS	70 - 130	100.2	-	
		MSD	0 - 10	-	0.4	
Selenium	QC66861	LCS	90 - 110	98.0	-	EPA 200.8
		MS	70 - 130	120.0	-	
		MSD	0 - 10	-	2.7	
Silver	QC66861	LCS	90 - 110	91.4	-	EPA 200.8
		MS	70 - 130	97.1	-	
		MSD	0 - 10	-	0.3	
Thallium	QC66861	LCS	90 - 110	98.2	-	EPA 200.8
		MS	70 - 130	94.1	-	
		MSD	0 - 10	-	2.1	
Uranium	QC66861	LCS	90 - 110	98.7	-	EPA 200.8
		MS	70 - 130	91.9	-	

Abbreviations/ References:

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10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313

Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507

Test	QC Batch ID	QC Type	Limits	% Rec	RPD	Method
		MSD	0 - 10	-	0.2	
Vanadium	QC66861	LCS	90 - 110	102.3	-	EPA 200.8
		MS	70 - 130	108.1	-	
		MSD	0 - 10	-	1.3	
Zinc	QC66861	LCS	90 - 110	97.7	-	EPA 200.8
		MS	70 - 130	95.1	-	
		MSD	0 - 10	-	0.1	
Boron	QC66799	Duplicate	0 - 20	-	16.9	EPA 200.7
		LCS	90 - 110	106.9	-	
		MS	75 - 125	112.2	-	
Calcium	QC66799	Duplicate	0 - 20	-	0.2	EPA 200.7
		LCS	90 - 110	98.7	-	
		MS	75 - 125	101.5	-	
Iron	QC66799	Duplicate	0 - 20	-	2.5	EPA 200.7
		LCS	90 - 110	104.2	-	
		MS	75 - 125	101.0	-	
Nitrate Nitrogen	QC66793	Duplicate	0 - 20	-	0.3	EPA 300.0
		LCS	90 - 110	103.6	-	
		MS	75 - 125	94.6	-	
Nitrite Nitrogen	QC66794	Duplicate	0 - 20	-	0.0	EPA 300.0
		LCS	90 - 110	94.4	-	
		MS	75 - 125	99.3	-	
Sulfate	QC66795	Duplicate	0 - 20	-	1.8	EPA 300.0
		LCS	90 - 110	102.7	-	
		MS	75 - 125	100.5	-	

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

ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313

Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507

Colorado
Analytical
LABORATORIES, INC.

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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ANALYTICAL SUMMARY REPORT

August 14, 2023

Colorado Analytical Laboratories Inc
PO Box 507
Brighton, CO 80601-0507

Work Order: C23080087 Quote ID: C15681

Project Name: 230728058; Monthly Groundwater

Energy Laboratories, Inc. Casper WY received the following 7 samples for Colorado Analytical Laboratories Inc on 8/1/2023 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C23080087-001	230728058-01D - Cross Well	07/28/23 13:00	08/01/23	Groundwater	Metals by ICP/ICPMS, Dissolved
C23080087-002	230728058-02D - Compliance well	07/28/23 13:30	08/01/23	Groundwater	Same As Above
C23080087-003	230728058--03D - Compliance 02	07/28/23 13:30	08/01/23	Groundwater	Same As Above
C23080087-004	230728058--04D - Caribou Well	07/28/23 11:30	08/01/23	Groundwater	Same As Above
C23080087-005	230728058-05D - Cross Portal	07/28/23 12:15	08/01/23	Groundwater	Same As Above
C23080087-006	230728058-06D - Caribou 02	07/28/23 11:15	08/01/23	Groundwater	Same As Above
C23080087-007	230728058-07D - Caribou Portal	07/28/23 11:15	08/01/23	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:


Project Manager

Digitally signed by
Ashley L. Wilson
Date: 2023.08.14 16:25:29 -06:00



CLIENT: Colorado Analytical Laboratories Inc
Project: 230728058; Monthly Groundwater
Work Order: C23080087

Report Date: 08/14/23

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: 230728058; Monthly Groundwater
Lab ID: C23080087-001
Client Sample ID: 230728058-01D - Cross Well

Report Date: 08/14/23
Collection Date: 07/28/23 13:00
Date Received: 08/01/23
Matrix: Groundwater

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, DISSOLVED							
Lithium	ND	mg/L	L	0.006		E200.8	08/07/23 23:20 / eli-b

Report Definitions:
RL - Analyte Reporting Limit
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)



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Colorado Analytical Laboratories Inc
Project: 230728058; Monthly Groundwater
Lab ID: C23080087-002
Client Sample ID: 230728058-02D - Compliance well

Report Date: 08/14/23
Collection Date: 07/28/23 13:30
DateReceived: 08/01/23
Matrix: Groundwater

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, DISSOLVED							
Lithium	ND	mg/L	L	0.006		E200.8	08/07/23 23:56 / eli-b

Report Definitions:
RL - Analyte Reporting Limit
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)



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Colorado Analytical Laboratories Inc
Project: 230728058; Monthly Groundwater
Lab ID: C23080087-003
Client Sample ID: 230728058--03D - Compliance 02

Report Date: 08/14/23
Collection Date: 07/28/23 13:30
DateReceived: 08/01/23
Matrix: Groundwater

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, DISSOLVED							
Lithium	ND	mg/L	L	0.006		E200.8	08/08/23 00:02 / eli-b

Report Definitions:
RL - Analyte Reporting Limit
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)



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Colorado Analytical Laboratories Inc
Project: 230728058; Monthly Groundwater
Lab ID: C23080087-004
Client Sample ID: 230728058--04D - Caribou Well

Report Date: 08/14/23
Collection Date: 07/28/23 11:30
DateReceived: 08/01/23
Matrix: Groundwater

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, DISSOLVED							
Lithium	ND	mg/L	L	0.006		E200.8	08/08/23 00:08 / eli-b

Report Definitions:
RL - Analyte Reporting Limit
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)



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Colorado Analytical Laboratories Inc
Project: 230728058; Monthly Groundwater
Lab ID: C23080087-005
Client Sample ID: 230728058-05D - Cross Portal

Report Date: 08/14/23
Collection Date: 07/28/23 12:15
DateReceived: 08/01/23
Matrix: Groundwater

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, DISSOLVED							
Lithium	ND	mg/L	L	0.006		E200.8	08/08/23 00:14 / eli-b

Report Definitions:
RL - Analyte Reporting Limit
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)



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Colorado Analytical Laboratories Inc
Project: 230728058; Monthly Groundwater
Lab ID: C23080087-006
Client Sample ID: 230728058-06D - Caribou 02

Report Date: 08/14/23
Collection Date: 07/28/23 11:15
DateReceived: 08/01/23
Matrix: Groundwater

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, DISSOLVED							
Lithium	ND	mg/L	L	0.006		E200.8	08/08/23 00:21 / eli-b

Report Definitions:
RL - Analyte Reporting Limit
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)



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Colorado Analytical Laboratories Inc
Project: 230728058; Monthly Groundwater
Lab ID: C23080087-007
Client Sample ID: 230728058-07D - Caribou Portal

Report Date: 08/14/23
Collection Date: 07/28/23 11:15
DateReceived: 08/01/23
Matrix: Groundwater

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, DISSOLVED							
Lithium	ND	mg/L	L	0.006		E200.8	08/08/23 00:27 / eli-b

Report Definitions:
RL - Analyte Reporting Limit
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)



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Work Order: C23080087

Report Date: 08/10/23

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Analytical Run: ICPMS207-B_230807A
Lab ID: QCS		Initial Calibration Verification Standard								08/07/23 20:55
Lithium		0.0486	mg/L	0.012	97	90	110			
Lab ID: CCV		Continuing Calibration Verification Standard								08/07/23 22:19
Lithium		0.677	mg/L	0.012	108	90	110			
Lab ID: CCV		Continuing Calibration Verification Standard								08/07/23 23:38
Lithium		0.584	mg/L	0.012	93	90	110			
Method: E200.8										Batch: R406648
Lab ID: LRB		Method Blank								Run: ICPMS207-B_230807A 08/07/23 12:12
Lithium		ND	mg/L	0.002						
Lab ID: LFB		Laboratory Fortified Blank								Run: ICPMS207-B_230807A 08/07/23 12:24
Lithium		2.38	mg/L	0.013	95	85	115			
Lab ID: C23080087-001AMS		Sample Matrix Spike								Run: ICPMS207-B_230807A 08/07/23 23:26
Lithium		2.47	mg/L	0.10	99	70	130			E
Lab ID: C23080087-001AMSD		Sample Matrix Spike Duplicate								Run: ICPMS207-B_230807A 08/07/23 23:32
Lithium		2.45	mg/L	0.10	98	70	130	0.8	20	E

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

E - Estimated value - result exceeds the instrument upper quantitation limit



Work Order Receipt Checklist

Colorado Analytical Laboratories Inc

C23080087

Login completed by: Hannah R. Johnson

Date Received: 8/1/2023

Reviewed by: cjohnson

Received by: gah

Reviewed Date: 8/2/2023

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 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 Cl, Sulfite, Ferrous Iron, etc.)	Yes ☒	No ☐	
Temp Blank received in all shipping container(s)/cooler(s)?	Yes ☐	No ☒	Not Applicable ☐
Container/Temp Blank temperature:	3.9°C On Ice		
Containers requiring zero headspace have no headspace or bubble that is <6mm (1/4").	Yes ☐	No ☐	No VOA vials submitted ☒
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

073080087

Sub-Lab Chain of Custody Form

Report To Information Company Name <u>Colorado Analytical Laboratory</u> Report To: <u>Rebecca Manzanarez</u> E-Mail: <u>rebeccamanzanarez@coloradolab.com</u> Address: <u>10411 Heinz Way</u> <u>Commerce City, CO 80640</u> Phone: <u>303-659-2313</u>		Bill To Information: (If different from report to) Project Name <u>Monthly Groundwater</u>	
		Compliance Samples: Yes ☐ No ☒ Submit Data to CDPHE: Yes ☐ No ☒	
Address:		CAL TASK 230728058 SBM	

Tests Requested

Sample Date/Time	Sample ID	Matrix	Metals (Sub)	Container Type
7/28/23 1:00 PM	230728058-01D - Gross Well	Water - Ground	☒	250 ml Cylinder - HNO ₃
7/28/23 1:30 PM	230728058-02D - Compliance Well	Water - Ground	☒	250 ml Cylinder - HNO ₃
7/28/23 1:30 PM	230728058-03D - Compliance 02	Water - Ground	☒	250 ml Cylinder - HNO ₃
7/28/23 11:30 AM	230728058-04D - Caribou Well	Water - Ground	☒	250 ml Cylinder - HNO ₃
7/28/23 12:15 PM	230728058-05D - Cross Portal	Water - Ground	☒	250 ml Cylinder - HNO ₃
7/28/23 11:15 AM	230728058-06D - Caribou 02	Water - Ground	☒	250 ml Cylinder - HNO ₃
7/28/23 11:15 AM	230728058-07D - Caribou Portal	Water - Ground	☒	250 ml Cylinder - HNO ₃

Comment: *All samples filtered prior to preservation - 1500*

3.0°

Relinquished by: (Signature) <i>[Signature]</i>	Date: Time 7/31/23 1500	Received by: (Signature) <i>[Signature]</i>	Date: Time 8/1/23 10:00
Relinquished by: (Signature)		Received by: (Signature)	
Date: Time		Date: Time	



Hazen Research, Inc.
4601 Indiana Street
Golden, CO 80403 USA
Tel: (303) 279-4501
Fax: (303) 278-1528

Lab Control ID: 23H02331

Received: Jul 31, 2023

Reported: Aug 31, 2023

Purchase Order No.

None Received

Customer ID: 05377Z

Account ID: Z01034

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*

By: Roxanne Sullivan
Roxanne Sullivan
Analytical Laboratories Director

ANALYTICAL REPORT

Rebecca Manzanares
 Colorado Analytical Laboratories, Inc.

Lab Sample ID			23H02331-001					
Customer Sample ID			230728058-01C - Monthly Groundwater - Cross Well sampled on 07/28/23 @ 1300					
Parameter	Units	Code	Result	Precision* +/-	Detection Limit	Method	Analysis Date / Time	Analyst
Gross Alpha	pCi/L	T	0.7	1.1	0.1	SM 7110 B	8/22/23 @ 1245	KT
Gross Beta	pCi/L	T	<2.9	2.4	2.9	SM 7110 B	8/22/23 @ 1245	KT

Lab Sample ID			23H02331-002					
Customer Sample ID			230728058-02C - Monthly Groundwater - Compliance Well sampled on 07/28/23 @ 1330					
Parameter	Units	Code	Result	Precision* +/-	Detection Limit	Method	Analysis Date / Time	Analyst
Gross Alpha	pCi/L	T	0.5	1.2	0.1	SM 7110 B	8/22/23 @ 1247	KT
Gross Beta	pCi/L	T	<3.2	2.4	3.2	SM 7110 B	8/22/23 @ 1247	KT

Lab Sample ID			23H02331-003					
Customer Sample ID			230728058-03C - Monthly Groundwater - Compliance 02 sampled on 07/28/23 @ 1330					
Parameter	Units	Code	Result	Precision* +/-	Detection Limit	Method	Analysis Date / Time	Analyst
Gross Alpha	pCi/L	T	0.9	1.2	0.1	SM 7110 B	8/22/23 @ 1248	KT
Gross Beta	pCi/L	T	<3.0	2.3	3.0	SM 7110 B	8/22/23 @ 1248	KT

Lab Sample ID			23H02331-004					
Customer Sample ID			230728058-04C - Monthly Groundwater - Caribou Well sampled on 07/28/23 @ 1130					
Parameter	Units	Code	Result	Precision* +/-	Detection Limit	Method	Analysis Date / Time	Analyst
Gross Alpha	pCi/L	T	0.9	1.2	0.1	SM 7110 B	8/22/23 @ 1249	KT
Gross Beta	pCi/L	T	<3.2	2.2	3.2	SM 7110 B	8/22/23 @ 1249	KT

Certification ID's: CO/EPA CO00008

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

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

Customer ID: 05377Z
 Account ID: Z01034

ANALYTICAL REPORT

Rebecca Manzanares
 Colorado Analytical Laboratories, Inc.

Lab Sample ID			23H02331-005					
Customer Sample ID			230728058-05C - Monthly Groundwater - Cross Portal sampled on 07/28/23 @ 1215					
Parameter	Units	Code	Result	Precision* +/-	Detection Limit	Method	Analysis Date / Time	Analyst
Gross Alpha	pCi/L	T	2.0	1.5	0.1	SM 7110 B	8/22/23 @ 1250	KT
Gross Beta	pCi/L	T	<3.4	2.2	3.4	SM 7110 B	8/22/23 @ 1250	KT

Lab Sample ID			23H02331-006					
Customer Sample ID			230728058-06C - Monthly Groundwater - Caribou 02 sampled on 07/28/23 @ 1115					
Parameter	Units	Code	Result	Precision* +/-	Detection Limit	Method	Analysis Date / Time	Analyst
Gross Alpha	pCi/L	T	6.1	2.6	0.1	SM 7110 B	8/22/23 @ 1251	KT
Gross Beta	pCi/L	T	<3.4	2.4	3.4	SM 7110 B	8/22/23 @ 1251	KT

Lab Sample ID			23H02331-007					
Customer Sample ID			230728058-07C - Monthly Groundwater - Caribou Portal sampled on 07/28/23 @ 1115					
Parameter	Units	Code	Result	Precision* +/-	Detection Limit	Method	Analysis Date / Time	Analyst
Gross Alpha	pCi/L	T	5.4	2.5	0.1	SM 7110 B	8/22/23 @ 1252	KT
Gross Beta	pCi/L	T	3.8	2.4	3.3	SM 7110 B	8/22/23 @ 1252	KT

Certification ID's: CO/EPA CO00008

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

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

HAZEN RESEARCH, INC.
RADIOCHEMISTRY LABORATORY

Date: 08/22/2023

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*

$$\text{Calculation: } \frac{(59.0) - (1.000) - (0.6)}{57.4} \times 100 = 103\%$$

Batch QC Evaluation:

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

* Required for batch size greater than 10 samples.

Conclusions:

 x Batch QC Passes**
 Batch QC Fails
 Batch QC Passes, with exceptions**:

Reruns Required: _____

Narrative:

**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 evaluated in this report.

Batch Listing by Lab Control Number:

23H02300 _____
23H02304 _____
23H02309 _____
23H02315 _____
23H02327 _____
23H02329 _____
23H02331 _____
23H02333 _____
23H02151 _____
23H02224 _____

Evaluator:

 _____

08/29/2023

Date

HAZEN RESEARCH, INC.
RADIOCHEMISTRY LABORATORY

Date: 08/22/2023

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*

$$\text{Calculation: } \frac{(41.9) - (1.000)}{44} - \frac{(2.6) - (0.200)}{44} \times 100 = 94\%$$

Batch QC Evaluation:

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

* Required for batch size greater than 10 samples.

Conclusions:

 x Batch QC Passes**
 Batch QC Fails
 Batch QC Passes, with exceptions**:

Reruns Required: _____

Narrative:

**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 evaluated in this report.

Batch Listing by Lab Control Number:

23H02300 _____
23H02304 _____
23H02309 _____
23H02315 _____
23H02327 _____
23H02329 _____
23H02331 _____
23H02333 _____
23H02151 _____
23H02224 _____

Evaluator:

 _____

08/29/2023

Date

23H02331

Ship To: Hazen Research

Preserved: Y/N

HNO3 Lot #: 2021041412

Date Preserved: 7/28/23

Report To Information Company Name <u>Colorado Analytical Laboratory</u> Report To: <u>Rebecca Manzanares</u> E-Mail: <u>rebeccamanzanares@coloradolab.com</u>	Bill To Information: (If different from report to)	Project Name <u>Monthly Groundwater</u>
Address: <u>10411 Heinz Way</u> <u>Commerce City, CO 80640</u> Phone: <u>303-659-2313</u>	Address: CAL TASK 230728058 SBM	Compliance Samples: Yes ☐ No ☒ Submit Data to CDPHE: Yes ☐ No ☒

Tests Requested

Sample Date/Time		Sample ID	Matrix	Gross Alpha/Beta (Sub)																Container Type
7/28/23	1:00 PM	230728058-01C - Cross Well	Water - Ground	X																1L - Unpreserved
7/28/23	1:30 PM	230728058-02C - Compliance Well	Water - Ground	X																1L - Unpreserved
7/28/23	1:30 PM	230728058-03C - Compliance 02	Water - Ground	X																1L - Unpreserved
7/28/23	11:30 AM	230728058-04C - Caribou Well	Water - Ground	X																1L - Unpreserved
7/28/23	12:15 PM	230728058-05C - Cross Portal	Water - Ground	X																1L - Unpreserved
7/28/23	11:15 AM	230728058-06C - Caribou 02	Water - Ground	X																1L - Unpreserved
7/28/23	11:15 AM	230728058-07C - Caribou Portal	Water - Ground	X																1L - Unpreserved

Comment:

Preservation ✓ 07/31/23 1135 26 Ph=2

Relinquished by: (Signature) <u>Jan</u>	Date: Time: <u>7/31/23 12pm</u>	Received by: (Signature)	Date: Time:	Relinquished by: (Signature)	Date: Time:	Received by: (Signature)	Date: Time: <u>07/31/23 1130</u>
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APPENDIX A.2 AUGUST 2023 GROUNDWATER AND EFFLUENT ANALYTICAL RESULTS

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.: 230831077

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 8/31/23

Date Reported: 10/18/23

Matrix: Water - Ground

Customer Sample ID Cross Well

Sample Date/Time: 8/31/23 1:00 PM

Lab Number: 230831077-01

Test	Result / Units	Method	RL	MDL	Date Analyzed	QC Batch ID	Analyzed By
Chloride	3.00 mg/L	EPA 300.0	0.10	0.007	9/1/23	QC67632	NRP
Cyanide-Free	ND mg/L	ASTM D4282-15	0.005	0.0005	9/1/23	QC67623	JCB
Fluoride	ND mg/L	EPA 300.0	0.10	0.024	9/1/23	QC67633	NRP
Nitrate Nitrogen	0.32 mg/L	EPA 300.0	0.05	0.02	9/1/23	QC67635	NRP
Nitrate/ Nitrite Nitrogen	0.32 mg/L	Calculation	0.05	0.02	9/5/23	-	NRP
Nitrite Nitrogen	ND mg/L	EPA 300.0	0.03	0.01	9/1/23	QC67636	NRP
Sulfate	9.85 mg/L	EPA 300.0	0.10	0.012	9/1/23	QC67638	NRP
Dissolved							
Mercury	ND mg/L	EPA 245.7	0.0002	0.00002	9/7/23	QC67723	MAT
Aluminum	ND mg/L	EPA 200.8	0.001	0.00003	9/7/23	QC67657	MBN
Antimony	ND mg/L	EPA 200.8	0.0012	0.00012	9/7/23	QC67657	MBN
Arsenic	ND mg/L	EPA 200.8	0.0006	0.00006	9/7/23	QC67657	MBN
Barium	0.0322 mg/L	EPA 200.8	0.0007	0.00007	9/7/23	QC67657	MBN
Beryllium	ND mg/L	EPA 200.8	0.0001	0.000008	9/7/23	QC67657	MBN
Cadmium	0.0002 mg/L	EPA 200.8	0.0001	0.000006	9/7/23	QC67657	MBN
Chromium	ND mg/L	EPA 200.8	0.0015	0.00015	9/7/23	QC67657	MBN
Cobalt	ND mg/L	EPA 200.8	0.0002	0.00005	9/7/23	QC67657	MBN
Copper	0.0036 mg/L	EPA 200.8	0.0008	0.00001	9/7/23	QC67657	MBN
Lead	0.0004 mg/L	EPA 200.8	0.0001	0.000006	9/7/23	QC67657	MBN
Manganese	0.0022 mg/L	EPA 200.8	0.0008	0.00001	9/7/23	QC67657	MBN
Molybdenum	0.0008 mg/L	EPA 200.8	0.0005	0.00005	9/7/23	QC67657	MBN
Nickel	ND mg/L	EPA 200.8	0.0009	0.00005	9/7/23	QC67657	MBN
Selenium	ND mg/L	EPA 200.8	0.0008	0.00008	9/7/23	QC67657	MBN
Silver	ND mg/L	EPA 200.8	0.0005	0.000003	9/7/23	QC67657	MBN
Thallium	ND mg/L	EPA 200.8	0.0002	0.000003	9/7/23	QC67657	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

ND = Not Detected at Reporting Limit.

Analytical Results

TASK NO: 230831077

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.: 230831077

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 8/31/23

Date Reported: 10/18/23

Matrix: Water - Ground

Customer Sample ID Cross Well

Sample Date/Time: 8/31/23 1:00 PM

Lab Number: 230831077-01

Test	Result / Units	Method	RL	MDL	Date Analyzed	QC Batch ID	Analyzed By
<u>Dissolved</u>							
Uranium	ND mg/L	EPA 200.8	0.0002	0.000002	9/7/23	QC67657	MBN
Vanadium	ND mg/L	EPA 200.8	0.001	0.0001	9/7/23	QC67657	MBN
Zinc	0.760 mg/L	EPA 200.8	0.001	0.00003	9/7/23	QC67657	MBN
Boron	ND mg/L	EPA 200.7	0.05	0.01	9/5/23	QC67634	MAT
Calcium	18.1 mg/L	EPA 200.7	0.1	0.01	9/5/23	QC67634	MAT
Iron	ND mg/L	EPA 200.7	0.005	0.0005	9/5/23	QC67634	MAT

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

ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313

Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507

Analytical Results

TASK NO: 230831077

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.: 230831077

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 8/31/23

Date Reported: 10/18/23

Matrix: Water - Ground

Customer Sample ID Compliance Well

Sample Date/Time: 8/31/23 1:30 PM

Lab Number: 230831077-02

Test	Result / Units	Method	RL	MDL	Date Analyzed	QC Batch ID	Analyzed By
Chloride	2.81 mg/L	EPA 300.0	0.10	0.007	9/1/23	QC67632	NRP
Cyanide-Free	ND mg/L	ASTM D4282-15	0.005	0.0005	9/1/23	QC67623	JCB
Fluoride	ND mg/L	EPA 300.0	0.10	0.024	9/1/23	QC67633	NRP
Nitrate Nitrogen	0.32 mg/L	EPA 300.0	0.05	0.02	9/1/23	QC67635	NRP
Nitrate/ Nitrite Nitrogen	0.32 mg/L	Calculation	0.05	0.02	9/5/23	-	NRP
Nitrite Nitrogen	ND mg/L	EPA 300.0	0.03	0.01	9/1/23	QC67636	NRP
Sulfate	8.77 mg/L	EPA 300.0	0.10	0.012	9/1/23	QC67638	NRP
Dissolved							
Mercury	ND mg/L	EPA 245.7	0.0002	0.00002	9/7/23	QC67723	MAT
Aluminum	0.003 mg/L	EPA 200.8	0.001	0.00003	9/7/23	QC67657	MBN
Antimony	ND mg/L	EPA 200.8	0.0012	0.00012	9/7/23	QC67657	MBN
Arsenic	ND mg/L	EPA 200.8	0.0006	0.00006	9/7/23	QC67657	MBN
Barium	0.0420 mg/L	EPA 200.8	0.0007	0.00007	9/7/23	QC67657	MBN
Beryllium	ND mg/L	EPA 200.8	0.0001	0.000008	9/7/23	QC67657	MBN
Cadmium	ND mg/L	EPA 200.8	0.0001	0.000006	9/7/23	QC67657	MBN
Chromium	ND mg/L	EPA 200.8	0.0015	0.00015	9/7/23	QC67657	MBN
Cobalt	ND mg/L	EPA 200.8	0.0002	0.00005	9/7/23	QC67657	MBN
Copper	ND mg/L	EPA 200.8	0.0008	0.00001	9/7/23	QC67657	MBN
Lead	0.0002 mg/L	EPA 200.8	0.0001	0.000006	9/7/23	QC67657	MBN
Manganese	0.0085 mg/L	EPA 200.8	0.0008	0.00001	9/7/23	QC67657	MBN
Molybdenum	0.0051 mg/L	EPA 200.8	0.0005	0.00005	9/7/23	QC67657	MBN
Nickel	ND mg/L	EPA 200.8	0.0009	0.00005	9/7/23	QC67657	MBN
Selenium	ND mg/L	EPA 200.8	0.0008	0.00008	9/7/23	QC67657	MBN
Silver	ND mg/L	EPA 200.8	0.0005	0.000003	9/7/23	QC67657	MBN
Thallium	ND mg/L	EPA 200.8	0.0002	0.000003	9/7/23	QC67657	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

ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313

Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507

Analytical Results

TASK NO: 230831077

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.: 230831077

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 8/31/23

Date Reported: 10/18/23

Matrix: Water - Ground

Customer Sample ID Compliance Well

Sample Date/Time: 8/31/23 1:30 PM

Lab Number: 230831077-02

Test	Result / Units	Method	RL	MDL	Date Analyzed	QC Batch ID	Analyzed By
<u>Dissolved</u>							
Uranium	ND mg/L	EPA 200.8	0.0002	0.000002	9/7/23	QC67657	MBN
Vanadium	ND mg/L	EPA 200.8	0.001	0.0001	9/7/23	QC67657	MBN
Zinc	0.181 mg/L	EPA 200.8	0.001	0.00003	9/7/23	QC67657	MBN
Boron	ND mg/L	EPA 200.7	0.05	0.01	9/5/23	QC67634	MAT
Calcium	ND mg/L	EPA 200.7	0.1	0.01	9/5/23	QC67634	MAT
Iron	ND mg/L	EPA 200.7	0.005	0.0005	9/5/23	QC67634	MAT

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

ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313

Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507

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.: 230831077

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 8/31/23

Date Reported: 10/18/23

Matrix: Water - Ground

Customer Sample ID Caribou Well

Sample Date/Time: 8/31/23 11:30 AM

Lab Number: 230831077-03

Test	Result / Units	Method	RL	MDL	Date Analyzed	QC Batch ID	Analyzed By
Chloride	0.45 mg/L	EPA 300.0	0.10	0.007	9/1/23	QC67632	NRP
Cyanide-Free	ND mg/L	ASTM D4282-15	0.005	0.0005	9/1/23	QC67623	JCB
Fluoride	ND mg/L	EPA 300.0	0.10	0.024	9/1/23	QC67633	NRP
Nitrate Nitrogen	0.09 mg/L	EPA 300.0	0.05	0.02	9/1/23	QC67635	NRP
Nitrate/ Nitrite Nitrogen	0.09 mg/L	Calculation	0.05	0.02	9/5/23	-	NRP
Nitrite Nitrogen	ND mg/L	EPA 300.0	0.03	0.01	9/1/23	QC67636	NRP
Sulfate	2.71 mg/L	EPA 300.0	0.10	0.012	9/1/23	QC67638	NRP
Dissolved							
Mercury	ND mg/L	EPA 245.7	0.0002	0.00002	9/7/23	QC67723	MAT
Aluminum	0.002 mg/L	EPA 200.8	0.001	0.00003	9/7/23	QC67657	MBN
Antimony	ND mg/L	EPA 200.8	0.0012	0.00012	9/7/23	QC67657	MBN
Arsenic	ND mg/L	EPA 200.8	0.0006	0.00006	9/7/23	QC67657	MBN
Barium	0.0066 mg/L	EPA 200.8	0.0007	0.00007	9/7/23	QC67657	MBN
Beryllium	ND mg/L	EPA 200.8	0.0001	0.000008	9/7/23	QC67657	MBN
Cadmium	ND mg/L	EPA 200.8	0.0001	0.000006	9/7/23	QC67657	MBN
Chromium	ND mg/L	EPA 200.8	0.0015	0.00015	9/7/23	QC67657	MBN
Cobalt	ND mg/L	EPA 200.8	0.0002	0.00005	9/7/23	QC67657	MBN
Copper	0.1309 mg/L	EPA 200.8	0.0008	0.00001	9/7/23	QC67657	MBN
Lead	0.0002 mg/L	EPA 200.8	0.0001	0.000006	9/7/23	QC67657	MBN
Manganese	0.0052 mg/L	EPA 200.8	0.0008	0.00001	9/7/23	QC67657	MBN
Molybdenum	ND mg/L	EPA 200.8	0.0005	0.00005	9/7/23	QC67657	MBN
Nickel	ND mg/L	EPA 200.8	0.0009	0.00005	9/7/23	QC67657	MBN
Selenium	ND mg/L	EPA 200.8	0.0008	0.00008	9/7/23	QC67657	MBN
Silver	ND mg/L	EPA 200.8	0.0005	0.000003	9/7/23	QC67657	MBN
Thallium	ND mg/L	EPA 200.8	0.0002	0.000003	9/7/23	QC67657	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

ND = Not Detected at Reporting Limit.

Analytical Results

TASK NO: 230831077

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.: 230831077

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 8/31/23

Date Reported: 10/18/23

Matrix: Water - Ground

Customer Sample ID Caribou Well

Sample Date/Time: 8/31/23 11:30 AM

Lab Number: 230831077-03

Test	Result / Units	Method	RL	MDL	Date Analyzed	QC Batch ID	Analyzed By
<u>Dissolved</u>							
Uranium	ND mg/L	EPA 200.8	0.0002	0.000002	9/7/23	QC67657	MBN
Vanadium	ND mg/L	EPA 200.8	0.001	0.0001	9/7/23	QC67657	MBN
Zinc	0.004 mg/L	EPA 200.8	0.001	0.00003	9/7/23	QC67657	MBN
Boron	ND mg/L	EPA 200.7	0.05	0.01	9/5/23	QC67634	MAT
Calcium	4.0 mg/L	EPA 200.7	0.1	0.01	9/5/23	QC67634	MAT
Iron	ND mg/L	EPA 200.7	0.005	0.0005	9/5/23	QC67634	MAT

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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ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313

Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507

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.: 230831077

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 8/31/23

Date Reported: 10/18/23

Matrix: Water - Ground

Customer Sample ID Cross Portal

Sample Date/Time: 8/31/23 12:15 PM

Lab Number: 230831077-04

Test	Result / Units	Method	RL	MDL	Date Analyzed	QC Batch ID	Analyzed By
Chloride	0.76 mg/L	EPA 300.0	0.10	0.007	9/1/23	QC67632	NRP
Cyanide-Free	ND mg/L	ASTM D4282-15	0.005	0.0005	9/1/23	QC67623	JCB
Fluoride	ND mg/L	EPA 300.0	0.10	0.024	9/1/23	QC67633	NRP
Nitrate Nitrogen	0.07 mg/L	EPA 300.0	0.05	0.02	9/1/23	QC67635	NRP
Nitrate/ Nitrite Nitrogen	0.07 mg/L	Calculation	0.05	0.02	9/5/23	-	NRP
Nitrite Nitrogen	ND mg/L	EPA 300.0	0.03	0.01	9/1/23	QC67636	NRP
Sulfate	9.12 mg/L	EPA 300.0	0.10	0.012	9/1/23	QC67638	NRP
Dissolved							
Mercury	ND mg/L	EPA 245.7	0.0002	0.00002	9/7/23	QC67723	MAT
Aluminum	ND mg/L	EPA 200.8	0.001	0.00003	9/7/23	QC67657	MBN
Antimony	ND mg/L	EPA 200.8	0.0012	0.00012	9/7/23	QC67657	MBN
Arsenic	ND mg/L	EPA 200.8	0.0006	0.00006	9/7/23	QC67657	MBN
Barium	0.0633 mg/L	EPA 200.8	0.0007	0.00007	9/7/23	QC67657	MBN
Beryllium	ND mg/L	EPA 200.8	0.0001	0.000008	9/7/23	QC67657	MBN
Cadmium	0.0010 mg/L	EPA 200.8	0.0001	0.000006	9/7/23	QC67657	MBN
Chromium	ND mg/L	EPA 200.8	0.0015	0.00015	9/7/23	QC67657	MBN
Cobalt	ND mg/L	EPA 200.8	0.0002	0.00005	9/7/23	QC67657	MBN
Copper	0.0017 mg/L	EPA 200.8	0.0008	0.00001	9/7/23	QC67657	MBN
Lead	0.0010 mg/L	EPA 200.8	0.0001	0.000006	9/7/23	QC67657	MBN
Manganese	0.0081 mg/L	EPA 200.8	0.0008	0.00001	9/7/23	QC67657	MBN
Molybdenum	0.0052 mg/L	EPA 200.8	0.0005	0.00005	9/7/23	QC67657	MBN
Nickel	ND mg/L	EPA 200.8	0.0009	0.00005	9/7/23	QC67657	MBN
Selenium	ND mg/L	EPA 200.8	0.0008	0.00008	9/7/23	QC67657	MBN
Silver	ND mg/L	EPA 200.8	0.0005	0.000003	9/7/23	QC67657	MBN
Thallium	ND mg/L	EPA 200.8	0.0002	0.000003	9/7/23	QC67657	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

ND = Not Detected at Reporting Limit.

Analytical Results

TASK NO: 230831077

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.: 230831077
Client PO: \$1500 Prepayment Received
Client Project: Monthly Groundwater

Date Received: 8/31/23
Date Reported: 10/18/23
Matrix: Water - Ground

Customer Sample ID Cross Portal
Sample Date/Time: 8/31/23 12:15 PM
Lab Number: 230831077-04

Test	Result / Units	Method	RL	MDL	Date Analyzed	QC Batch ID	Analyzed By
<u>Dissolved</u>							
Uranium	0.0006 mg/L	EPA 200.8	0.0002	0.000002	9/7/23	QC67657	MBN
Vanadium	ND mg/L	EPA 200.8	0.001	0.0001	9/7/23	QC67657	MBN
Zinc	0.187 mg/L	EPA 200.8	0.001	0.00003	9/7/23	QC67657	MBN
Boron	ND mg/L	EPA 200.7	0.05	0.01	9/5/23	QC67634	MAT
Calcium	23.1 mg/L	EPA 200.7	0.1	0.01	9/5/23	QC67634	MAT
Iron	0.005 mg/L	EPA 200.7	0.005	0.0005	9/5/23	QC67634	MAT

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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(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.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313

Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507

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.: 230831077

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 8/31/23

Date Reported: 10/18/23

Matrix: Water - Ground

Customer Sample ID Caribou 02

Sample Date/Time: 8/31/23 11:15 AM

Lab Number: 230831077-05

Test	Result / Units	Method	RL	MDL	Date Analyzed	QC Batch ID	Analyzed By
Chloride	0.56 mg/L	EPA 300.0	0.10	0.007	9/1/23	QC67632	NRP
Cyanide-Free	ND mg/L	ASTM D4282-15	0.005	0.0005	9/1/23	QC67623	JCB
Fluoride	ND mg/L	EPA 300.0	0.10	0.024	9/1/23	QC67633	NRP
Nitrate Nitrogen	0.22 mg/L	EPA 300.0	0.05	0.02	9/1/23	QC67635	NRP
Nitrate/ Nitrite Nitrogen	0.22 mg/L	Calculation	0.05	0.02	9/5/23	-	NRP
Nitrite Nitrogen	ND mg/L	EPA 300.0	0.03	0.01	9/1/23	QC67636	NRP
Sulfate	11.6 mg/L	EPA 300.0	0.10	0.012	9/1/23	QC67638	NRP
Dissolved							
Mercury	ND mg/L	EPA 245.7	0.0002	0.00002	9/7/23	QC67723	MAT
Aluminum	0.001 mg/L	EPA 200.8	0.001	0.00003	9/7/23	QC67657	MBN
Antimony	ND mg/L	EPA 200.8	0.0012	0.00012	9/7/23	QC67657	MBN
Arsenic	ND mg/L	EPA 200.8	0.0006	0.00006	9/7/23	QC67657	MBN
Barium	0.0594 mg/L	EPA 200.8	0.0007	0.00007	9/7/23	QC67657	MBN
Beryllium	ND mg/L	EPA 200.8	0.0001	0.000008	9/7/23	QC67657	MBN
Cadmium	ND mg/L	EPA 200.8	0.0001	0.000006	9/7/23	QC67657	MBN
Chromium	ND mg/L	EPA 200.8	0.0015	0.00015	9/7/23	QC67657	MBN
Cobalt	ND mg/L	EPA 200.8	0.0002	0.00005	9/7/23	QC67657	MBN
Copper	ND mg/L	EPA 200.8	0.0008	0.00001	9/7/23	QC67657	MBN
Lead	0.0003 mg/L	EPA 200.8	0.0001	0.000006	9/7/23	QC67657	MBN
Manganese	0.0024 mg/L	EPA 200.8	0.0008	0.00001	9/7/23	QC67657	MBN
Molybdenum	0.0058 mg/L	EPA 200.8	0.0005	0.00005	9/7/23	QC67657	MBN
Nickel	ND mg/L	EPA 200.8	0.0009	0.00005	9/7/23	QC67657	MBN
Selenium	ND mg/L	EPA 200.8	0.0008	0.00008	9/7/23	QC67657	MBN
Silver	ND mg/L	EPA 200.8	0.0005	0.000003	9/7/23	QC67657	MBN
Thallium	ND mg/L	EPA 200.8	0.0002	0.000003	9/7/23	QC67657	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

ND = Not Detected at Reporting Limit.

Analytical Results

TASK NO: 230831077

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.: 230831077
Client PO: \$1500 Prepayment Received
Client Project: Monthly Groundwater

Date Received: 8/31/23
Date Reported: 10/18/23
Matrix: Water - Ground

Customer Sample ID Caribou 02
Sample Date/Time: 8/31/23 11:15 AM
Lab Number: 230831077-05

Test	Result / Units	Method	RL	MDL	Date Analyzed	QC Batch ID	Analyzed By
<u>Dissolved</u>							
Uranium	0.0055 mg/L	EPA 200.8	0.0002	0.000002	9/7/23	QC67657	MBN
Vanadium	ND mg/L	EPA 200.8	0.001	0.0001	9/7/23	QC67657	MBN
Zinc	0.011 mg/L	EPA 200.8	0.001	0.00003	9/7/23	QC67657	MBN
Boron	ND mg/L	EPA 200.7	0.05	0.01	9/5/23	QC67634	MAT
Calcium	28.9 mg/L	EPA 200.7	0.1	0.01	9/5/23	QC67634	MAT
Iron	0.005 mg/L	EPA 200.7	0.005	0.0005	9/5/23	QC67634	MAT

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

ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313

Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507

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.: 230831077

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 8/31/23

Date Reported: 10/18/23

Matrix: Water - Ground

Customer Sample ID Caribou Portal

Sample Date/Time: 8/31/23 11:15 AM

Lab Number: 230831077-06

Test	Result / Units	Method	RL	MDL	Date Analyzed	QC Batch ID	Analyzed By
Chloride	0.56 mg/L	EPA 300.0	0.10	0.007	9/1/23	QC67632	NRP
Cyanide-Free	ND mg/L	ASTM D4282-15	0.005	0.0005	9/1/23	QC67623	JCB
Fluoride	ND mg/L	EPA 300.0	0.10	0.024	9/1/23	QC67633	NRP
Nitrate Nitrogen	0.21 mg/L	EPA 300.0	0.05	0.02	9/1/23	QC67635	NRP
Nitrate/ Nitrite Nitrogen	0.21 mg/L	Calculation	0.05	0.02	9/5/23	-	NRP
Nitrite Nitrogen	ND mg/L	EPA 300.0	0.03	0.01	9/1/23	QC67636	NRP
Sulfate	11.6 mg/L	EPA 300.0	0.10	0.012	9/1/23	QC67638	NRP
Dissolved							
Mercury	ND mg/L	EPA 245.7	0.0002	0.00002	9/7/23	QC67723	MAT
Aluminum	ND mg/L	EPA 200.8	0.001	0.00003	9/8/23	QC67657	MBN
Antimony	ND mg/L	EPA 200.8	0.0012	0.00012	9/8/23	QC67657	MBN
Arsenic	ND mg/L	EPA 200.8	0.0006	0.00006	9/8/23	QC67657	MBN
Barium	0.0632 mg/L	EPA 200.8	0.0007	0.00007	9/8/23	QC67657	MBN
Beryllium	ND mg/L	EPA 200.8	0.0001	0.000008	9/8/23	QC67657	MBN
Cadmium	ND mg/L	EPA 200.8	0.0001	0.000006	9/8/23	QC67657	MBN
Chromium	ND mg/L	EPA 200.8	0.0015	0.00015	9/8/23	QC67657	MBN
Cobalt	ND mg/L	EPA 200.8	0.0002	0.00005	9/8/23	QC67657	MBN
Copper	ND mg/L	EPA 200.8	0.0008	0.00001	9/8/23	QC67657	MBN
Lead	0.0002 mg/L	EPA 200.8	0.0001	0.000006	9/8/23	QC67657	MBN
Manganese	0.0024 mg/L	EPA 200.8	0.0008	0.00001	9/8/23	QC67657	MBN
Molybdenum	0.0058 mg/L	EPA 200.8	0.0005	0.00005	9/8/23	QC67657	MBN
Nickel	ND mg/L	EPA 200.8	0.0009	0.00005	9/8/23	QC67657	MBN
Selenium	ND mg/L	EPA 200.8	0.0008	0.00008	9/8/23	QC67657	MBN
Silver	ND mg/L	EPA 200.8	0.0005	0.000003	9/8/23	QC67657	MBN
Thallium	ND mg/L	EPA 200.8	0.0002	0.000003	9/8/23	QC67657	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

ND = Not Detected at Reporting Limit.

Analytical Results

TASK NO: 230831077

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.: 230831077

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 8/31/23

Date Reported: 10/18/23

Matrix: Water - Ground

Customer Sample ID Caribou Portal

Sample Date/Time: 8/31/23 11:15 AM

Lab Number: 230831077-06

Test	Result / Units	Method	RL	MDL	Date Analyzed	QC Batch ID	Analyzed By
<u>Dissolved</u>							
Uranium	0.0058 mg/L	EPA 200.8	0.0002	0.000002	9/8/23	QC67657	MBN
Vanadium	ND mg/L	EPA 200.8	0.001	0.0001	9/8/23	QC67657	MBN
Zinc	0.012 mg/L	EPA 200.8	0.001	0.00003	9/8/23	QC67657	MBN
Boron	ND mg/L	EPA 200.7	0.05	0.01	9/5/23	QC67634	MAT
Calcium	29.3 mg/L	EPA 200.7	0.1	0.01	9/5/23	QC67634	MAT
Iron	0.005 mg/L	EPA 200.7	0.005	0.0005	9/5/23	QC67634	MAT

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

ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313

Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507

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.: 230831077

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 8/31/23

Date Reported: 10/18/23

Matrix: Water - Ground

Customer Sample ID Compliance 02

Sample Date/Time: 8/31/23 1:30 PM

Lab Number: 230831077-07

Test	Result / Units	Method	RL	MDL	Date Analyzed	QC Batch ID	Analyzed By
Chloride	2.77 mg/L	EPA 300.0	0.10	0.007	9/1/23	QC67632	NRP
Cyanide-Free	ND mg/L	ASTM D4282-15	0.005	0.0005	9/1/23	QC67623	JCB
Fluoride	ND mg/L	EPA 300.0	0.10	0.024	9/1/23	QC67633	NRP
Nitrate Nitrogen	0.32 mg/L	EPA 300.0	0.05	0.02	9/1/23	QC67635	NRP
Nitrate/ Nitrite Nitrogen	0.32 mg/L	Calculation	0.05	0.02	9/5/23	-	NRP
Nitrite Nitrogen	ND mg/L	EPA 300.0	0.03	0.01	9/1/23	QC67636	NRP
Sulfate	8.64 mg/L	EPA 300.0	0.10	0.012	9/1/23	QC67638	NRP
Dissolved							
Mercury	ND mg/L	EPA 245.7	0.0002	0.00002	9/7/23	QC67723	MAT
Aluminum	ND mg/L	EPA 200.8	0.001	0.00003	9/8/23	QC67657	MBN
Antimony	ND mg/L	EPA 200.8	0.0012	0.00012	9/8/23	QC67657	MBN
Arsenic	ND mg/L	EPA 200.8	0.0006	0.00006	9/8/23	QC67657	MBN
Barium	0.0416 mg/L	EPA 200.8	0.0007	0.00007	9/8/23	QC67657	MBN
Beryllium	ND mg/L	EPA 200.8	0.0001	0.000008	9/8/23	QC67657	MBN
Cadmium	ND mg/L	EPA 200.8	0.0001	0.000006	9/8/23	QC67657	MBN
Chromium	ND mg/L	EPA 200.8	0.0015	0.00015	9/8/23	QC67657	MBN
Cobalt	ND mg/L	EPA 200.8	0.0002	0.00005	9/8/23	QC67657	MBN
Copper	ND mg/L	EPA 200.8	0.0008	0.00001	9/8/23	QC67657	MBN
Lead	0.0001 mg/L	EPA 200.8	0.0001	0.000006	9/8/23	QC67657	MBN
Manganese	0.0083 mg/L	EPA 200.8	0.0008	0.00001	9/8/23	QC67657	MBN
Molybdenum	0.0051 mg/L	EPA 200.8	0.0005	0.00005	9/8/23	QC67657	MBN
Nickel	ND mg/L	EPA 200.8	0.0009	0.00005	9/8/23	QC67657	MBN
Selenium	ND mg/L	EPA 200.8	0.0008	0.00008	9/8/23	QC67657	MBN
Silver	ND mg/L	EPA 200.8	0.0005	0.000003	9/8/23	QC67657	MBN
Thallium	ND mg/L	EPA 200.8	0.0002	0.000003	9/8/23	QC67657	MBN

Abbreviations/ References:

RL = Reporting Limit = Minimum Level

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Analytical Results

TASK NO: 230831077

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.: 230831077

Client PO: \$1500 Prepayment Received

Client Project: Monthly Groundwater

Date Received: 8/31/23

Date Reported: 10/18/23

Matrix: Water - Ground

Customer Sample ID Compliance 02

Sample Date/Time: 8/31/23 1:30 PM

Lab Number: 230831077-07

Test	Result / Units	Method	RL	MDL	Date Analyzed	QC Batch ID	Analyzed By
<u>Dissolved</u>							
Uranium	0.0002 mg/L	EPA 200.8	0.0002	0.000002	9/8/23	QC67657	MBN
Vanadium	ND mg/L	EPA 200.8	0.001	0.0001	9/8/23	QC67657	MBN
Zinc	0.180 mg/L	EPA 200.8	0.001	0.00003	9/8/23	QC67657	MBN
Boron	ND mg/L	EPA 200.7	0.05	0.01	9/5/23	QC67634	MAT
Calcium	16.1 mg/L	EPA 200.7	0.1	0.01	9/5/23	QC67634	MAT
Iron	0.009 mg/L	EPA 200.7	0.005	0.0005	9/5/23	QC67634	MAT

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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ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313

Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507

Analytical QC Summary

TASK NO: 230831077

Report To: Patrick Delaney
Company: Grand Island Resources LLC

Receive Date: 8/31/23
Project Name: Monthly Groundwater

Test	QC Batch ID	QC Type	Result	Method	Prep Date
Chloride	QC67632	Blank	ND	EPA 300.0	9/1/23
Cyanide-Free	QC67623	Blank	ND	ASTM D4282-15	9/1/23
Fluoride	QC67633	Blank	ND	EPA 300.0	9/1/23
Mercury	QC67723	Method Blank	ND	EPA 245.7	9/7/23
Aluminum	QC67657	Method Blank	ND	EPA 200.8	8/31/23
Antimony	QC67657	Method Blank	ND	EPA 200.8	8/31/23
Arsenic	QC67657	Method Blank	ND	EPA 200.8	8/31/23
Barium	QC67657	Method Blank	ND	EPA 200.8	8/31/23
Beryllium	QC67657	Method Blank	ND	EPA 200.8	8/31/23
Cadmium	QC67657	Method Blank	ND	EPA 200.8	8/31/23
Chromium	QC67657	Method Blank	ND	EPA 200.8	8/31/23
Cobalt	QC67657	Method Blank	ND	EPA 200.8	8/31/23
Copper	QC67657	Method Blank	ND	EPA 200.8	8/31/23
Lead	QC67657	Method Blank	ND	EPA 200.8	8/31/23
Manganese	QC67657	Method Blank	ND	EPA 200.8	8/31/23
Molybdenum	QC67657	Method Blank	ND	EPA 200.8	8/31/23
Nickel	QC67657	Method Blank	ND	EPA 200.8	8/31/23
Selenium	QC67657	Method Blank	ND	EPA 200.8	8/31/23
Silver	QC67657	Method Blank	ND	EPA 200.8	8/31/23
Thallium	QC67657	Method Blank	ND	EPA 200.8	8/31/23
Uranium	QC67657	Method Blank	ND	EPA 200.8	8/31/23
Vanadium	QC67657	Method Blank	ND	EPA 200.8	8/31/23
Zinc	QC67657	Method Blank	ND	EPA 200.8	8/31/23
Boron	QC67634	Method Blank	ND	EPA 200.7	8/31/23
Calcium	QC67634	Method Blank	ND	EPA 200.7	8/31/23
Iron	QC67634	Method Blank	ND	EPA 200.7	8/31/23
Nitrate Nitrogen	QC67635	Blank	ND	EPA 300.0	9/1/23
Nitrite Nitrogen	QC67636	Blank	ND	EPA 300.0	9/1/23
Sulfate	QC67638	Blank	ND	EPA 300.0	9/1/23

Test	QC Batch ID	QC Type	Limits	% Rec	RPD	Method
Chloride	QC67632	Duplicate	0 - 20	-	1.9	EPA 300.0
		LCS	90 - 110	103.5	-	
		MS	75 - 125	100.7	-	
Cyanide-Free	QC67623	Duplicate	0 - 20	-	15.4	ASTM D4282-15
		LCS	90 - 110	102.5	-	
		MS	75 - 125	104.5	-	
		MSD	0 - 30	-	0.0	
Fluoride	QC67633	Duplicate	0 - 20	-	3.2	EPA 300.0
		LCS	90 - 110	96.5	-	
		MS	75 - 125	93.1	-	
Mercury	QC67723	Duplicate	0 - 20	-	0.0	EPA 245.7

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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

ND = Not Detected at Reporting Limit.

Test	QC Batch ID	QC Type	Limits	% Rec	RPD	Method
Aluminum	QC67657	LCS	90 - 110	105.4	-	EPA 200.8
		MS	80 - 120	98.0	-	
		MSD	0 - 10	-	0.6	
Antimony	QC67657	LCS	90 - 110	103.4	-	EPA 200.8
		MS	70 - 130	101.6	-	
		MSD	0 - 10	-	3.5	
Arsenic	QC67657	LCS	90 - 110	98.8	-	EPA 200.8
		MS	70 - 130	102.0	-	
		MSD	0 - 10	-	3.8	
Barium	QC67657	LCS	90 - 110	100.2	-	EPA 200.8
		MS	70 - 130	103.2	-	
		MSD	0 - 10	-	2.3	
Beryllium	QC67657	LCS	90 - 110	98.2	-	EPA 200.8
		MS	70 - 130	107.1	-	
		MSD	0 - 10	-	1.4	
Cadmium	QC67657	LCS	90 - 110	98.2	-	EPA 200.8
		MS	70 - 130	103.7	-	
		MSD	0 - 10	-	2.9	
Chromium	QC67657	LCS	90 - 110	104.1	-	EPA 200.8
		MS	70 - 130	106.5	-	
		MSD	0 - 10	-	1.3	
Cobalt	QC67657	LCS	90 - 110	105.0	-	EPA 200.8
		MS	70 - 130	106.5	-	
		MSD	0 - 10	-	1.2	
Copper	QC67657	LCS	90 - 110	99.9	-	EPA 200.8
		MS	70 - 130	104.9	-	
		MSD	0 - 10	-	2.2	
Lead	QC67657	LCS	90 - 110	96.0	-	EPA 200.8
		MS	70 - 130	86.1	-	
		MSD	0 - 10	-	3.4	
Manganese	QC67657	LCS	90 - 110	105.7	-	EPA 200.8
		MS	70 - 130	109.2	-	
		MSD	0 - 10	-	1.2	
Molybdenum	QC67657	LCS	90 - 110	98.2	-	EPA 200.8
		MS	70 - 130	104.6	-	
		MSD	0 - 10	-	2.2	
Nickel	QC67657	LCS	90 - 110	102.4	-	EPA 200.8
		MS	70 - 130	107.0	-	
		MSD	0 - 10	-	1.3	
Selenium	QC67657	LCS	90 - 110	95.7	-	EPA 200.8
		MS	70 - 130	102.5	-	
		MSD	0 - 10	-	4.3	
Silver	QC67657	LCS	90 - 110	99.0	-	EPA 200.8
		MS	70 - 130	103.0	-	
		MSD	0 - 10	-	1.0	
Thallium	QC67657	LCS	90 - 110	97.7	-	EPA 200.8
		MS	70 - 130	86.9	-	
		MSD	0 - 10	-	2.2	
Uranium	QC67657	LCS	90 - 110	101.9	-	EPA 200.8

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10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313

Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507

Test	QC Batch ID	QC Type	Limits	% Rec	RPD	Method
Vanadium	QC67657	MS	70 - 130	88.9	-	EPA 200.8
		MSD	0 - 10	-	2.3	
		LCS	90 - 110	101.6	-	
		MS	70 - 130	106.4	-	
Zinc	QC67657	MSD	0 - 10	-	1.3	EPA 200.8
		LCS	90 - 110	99.0	-	
		MS	70 - 130	98.6	-	
		MSD	0 - 10	-	2.1	
Boron	QC67634	Duplicate	0 - 20	-	13.3	EPA 200.7
		LCS	90 - 110	108.4	-	
		MS	75 - 125	94.9	-	
Calcium	QC67634	Duplicate	0 - 20	-	4.7	EPA 200.7
		LCS	90 - 110	102.1	-	
		MS	75 - 125	112.7	-	
Iron	QC67634	Duplicate	0 - 20	-	0.0	EPA 200.7
		LCS	90 - 110	102.5	-	
		MS	75 - 125	98.8	-	
Nitrate Nitrogen	QC67635	Duplicate	0 - 20	-	1.4	EPA 300.0
		LCS	90 - 110	100.9	-	
		MS	75 - 125	91.9	-	
Nitrite Nitrogen	QC67636	Duplicate	0 - 20	-	0.0	EPA 300.0
		LCS	90 - 110	92.1	-	
		MS	75 - 125	89.7	-	
Sulfate	QC67638	Duplicate	0 - 20	-	2.0	EPA 300.0
		LCS	90 - 110	101.0	-	
		MS	75 - 125	89.4	-	

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
MDL = Method Detection Limit
mg/L = Milligrams Per Liter or PPM
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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

ND = Not Detected at Reporting Limit.

Chain of Custody Form



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

Report To Information	Bill To Information (If different from report to)	Project Name / Number
Company Name: <u>Grand Island Resources</u>	Company Name: _____	
Contact Name: <u>Brooke Moran</u>	Contact Name: _____	
Address: <u>12567 W Cedar Rd Ste 251</u>	Address: _____	Task Number (Lab Use Only)
City: <u>Lakewood</u> State: <u>CO</u> Zip: <u>80228</u>	City: _____ State: _____ Zip: _____	CAL Task 230831077 ARF
Phone: <u>303-506-1618</u>	Phone: _____	
Email: <u>bmolsonm@g.emporia.edu</u>	Email: _____	
Sample Collector: <u>BM</u>	PO No.: _____	
Sample Collector Phone: <u>303-506-1618</u>		

Sample Matrix (Select One Only)			No. of Containers	Grab or (Check One Only) Composite	Tests Requested												
Waste Water ☐	Soil ☐	Drinking Water ☐															
Ground Water ☒	Sludge ☐				<u>QB022050014</u> <u>Revised 3/2023</u> <u>"Monthly Groundwater"</u>												
Date	Time	Sample ID															
<u>8/31/23</u>	<u>13:00</u>	<u>CROSS WELL</u>	<u>4</u>	<u>G</u>													
<u>"</u>	<u>13:30</u>	<u>COMPLIANCE WELL</u>	<u>4</u>	<u>G</u>													
<u>"</u>	<u>11:30</u>	<u>CARIBOU WELL</u>	<u>4</u>	<u>G</u>													
<u>"</u>	<u>12:15</u>	<u>CROSS PORTAL</u>	<u>4</u>	<u>G</u>													
<u>"</u>	<u>11:15</u>	<u>CARIBOU 02</u>	<u>4</u>	<u>G</u>													
<u>"</u>	<u>11:15</u>	<u>CARIBOU PORTAL</u>	<u>4</u>	<u>G</u>													
<u>"</u>	<u>13:30</u>	<u>COMPLIANCE 02</u>	<u>4</u>	<u>G</u>													
Instructions: <u>1 HNO₃ & 1 (1L) Field Filtered. Used glass because we ran out of plastic</u>			C/S Info: <u>Hand</u>		Seals Present Yes ☐ No ☒												
Relinquished By: <u>Brooke Moran</u>			Deliver Via: <u>Hand</u>		Temp. <u>8.4</u> °C/Ice <u>Y</u> Sample Pres. Yes ☒ No ☐												
Date/Time: <u>8/31/23</u>		Received By: <u>A. Fort</u>		Date/Time: <u>8/31/23</u>		Relinquished By: _____		Date/Time: _____		Received By: _____		Date/Time: _____					



ANALYTICAL SUMMARY REPORT

October 02, 2023

Colorado Analytical Laboratories Inc
PO Box 507
Brighton, CO 80601-0507

Work Order: C23090272 Quote ID: C15681

Project Name: 230831077; Monthly Groundwater

Energy Laboratories, Inc. Casper WY received the following 7 samples for Colorado Analytical Laboratories Inc on 9/8/2023 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C23090272-001	230831077-01D - Cross Well	08/31/23 13:00	09/08/23	Groundwater	Metals by ICP/ICPMS, Dissolved
C23090272-002	230831077-02D - Compliance Well	08/31/23 13:30	09/08/23	Groundwater	Same As Above
C23090272-003	230831077-03D - Caribou Well	08/31/23 11:30	09/08/23	Groundwater	Same As Above
C23090272-004	230831077-04D - Cross Portal	08/31/23 12:15	09/08/23	Groundwater	Same As Above
C23090272-005	230831077-05 - Caribou 02	08/31/23 11:15	09/08/23	Groundwater	Same As Above
C23090272-006	230831077-06 - Caribou Portal	08/31/23 11:15	09/08/23	Groundwater	Same As Above
C23090272-007	230831077-07 - Compliance 02	08/31/23 13:30	09/08/23	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:


Project Manager

Digitally signed by
Ashley L. Wilson
Date: 2023.10.02 07:39:53 -06:00



CLIENT: Colorado Analytical Laboratories Inc
Project: 230831077; Monthly Groundwater
Work Order: C23090272

Report Date: 10/02/23

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: 230831077; Monthly Groundwater
Lab ID: C23090272-001
Client Sample ID: 230831077-01D - Cross Well

Report Date: 10/02/23
Collection Date: 08/31/23 13:00
DateReceived: 09/08/23
Matrix: Groundwater

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, DISSOLVED							
Lithium	ND	mg/L	L	0.006		E200.8	09/28/23 04:29 / eli-b

Report Definitions:
RL - Analyte Reporting Limit
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)



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Colorado Analytical Laboratories Inc
Project: 230831077; Monthly Groundwater
Lab ID: C23090272-002
Client Sample ID: 230831077-02D - Compliance Well

Report Date: 10/02/23
Collection Date: 08/31/23 13:30
DateReceived: 09/08/23
Matrix: Groundwater

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, DISSOLVED							
Lithium	ND	mg/L	L	0.006		E200.8	09/28/23 04:35 / eli-b

Report Definitions:
RL - Analyte Reporting Limit
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)



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Colorado Analytical Laboratories Inc
Project: 230831077; Monthly Groundwater
Lab ID: C23090272-003
Client Sample ID: 230831077-03D - Caribou Well

Report Date: 10/02/23
Collection Date: 08/31/23 11:30
DateReceived: 09/08/23
Matrix: Groundwater

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, DISSOLVED							
Lithium	ND	mg/L	L	0.006		E200.8	09/28/23 04:41 / eli-b

Report Definitions:
RL - Analyte Reporting Limit
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)



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Colorado Analytical Laboratories Inc
Project: 230831077; Monthly Groundwater
Lab ID: C23090272-004
Client Sample ID: 230831077-04D - Cross Portal

Report Date: 10/02/23
Collection Date: 08/31/23 12:15
DateReceived: 09/08/23
Matrix: Groundwater

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, DISSOLVED							
Lithium	ND	mg/L	L	0.006		E200.8	09/28/23 04:48 / eli-b

Report Definitions:
RL - Analyte Reporting Limit
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)



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Colorado Analytical Laboratories Inc
Project: 230831077; Monthly Groundwater
Lab ID: C23090272-005
Client Sample ID: 230831077-05 - Caribou 02

Report Date: 10/02/23
Collection Date: 08/31/23 11:15
DateReceived: 09/08/23
Matrix: Groundwater

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, DISSOLVED							
Lithium	ND	mg/L	L	0.006		E200.8	09/28/23 05:13 / eli-b

Report Definitions:
RL - Analyte Reporting Limit
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)



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Colorado Analytical Laboratories Inc
Project: 230831077; Monthly Groundwater
Lab ID: C23090272-006
Client Sample ID: 230831077-06 - Caribou Portal

Report Date: 10/02/23
Collection Date: 08/31/23 11:15
DateReceived: 09/08/23
Matrix: Groundwater

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, DISSOLVED							
Lithium	ND	mg/L	L	0.006		E200.8	09/28/23 05:19 / eli-b

Report Definitions:
RL - Analyte Reporting Limit
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)



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Colorado Analytical Laboratories Inc
Project: 230831077; Monthly Groundwater
Lab ID: C23090272-007
Client Sample ID: 230831077-07 - Compliance 02

Report Date: 10/02/23
Collection Date: 08/31/23 13:30
DateReceived: 09/08/23
Matrix: Groundwater

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, DISSOLVED							
Lithium	ND	mg/L	L	0.006		E200.8	09/28/23 05:38 / eli-b

Report Definitions:
RL - Analyte Reporting Limit
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)



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Work Order: C23090272

Report Date: 09/29/23

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8 Analytical Run: ICPMS208-B_230927A										
Lab ID: QCS	Initial Calibration Verification Standard									
Lithium		0.0531	mg/L	0.0062	106	90	110			09/27/23 21:58
Lab ID: CCV	Continuing Calibration Verification Standard									
Lithium		0.641	mg/L	0.0062	103	90	110			09/28/23 03:57
Lab ID: CCV	Continuing Calibration Verification Standard									
Lithium		0.633	mg/L	0.0062	101	90	110			09/28/23 05:26
Method: E200.8 Batch: R409570										
Lab ID: LRB	Method Blank									
Lithium		ND	mg/L	0.003						Run: ICPMS208-B_230927A 09/27/23 12:58
Lab ID: LFB	Laboratory Fortified Blank									
Lithium		2.59	mg/L	0.0064	103	85	115			Run: ICPMS208-B_230927A 09/27/23 13:11
Lab ID: C23090272-004AMS	Sample Matrix Spike									
Lithium		2.49	mg/L	0.10	100	70	130			Run: ICPMS208-B_230927A 09/28/23 04:54 E
Lab ID: C23090272-004AMSD	Sample Matrix Spike Duplicate									
Lithium		2.66	mg/L	0.10	106	70	130	6.4	20	Run: ICPMS208-B_230927A 09/28/23 05:00 E

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

E - Estimated value - result exceeds the instrument upper quantitation limit



Work Order Receipt Checklist

Colorado Analytical Laboratories Inc

C23090272

Login completed by: Hannah R. Johnson

Date Received: 9/8/2023

Reviewed by: cjohnson

Received by: slr

Reviewed Date: 9/12/2023

Carrier name: UPS

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 Cl, Sulfite, Ferrous Iron, etc.)	Yes ☒	No ☐	
Temp Blank received in all shipping container(s)/cooler(s)?	Yes ☐	No ☒	Not Applicable ☐
Container/Temp Blank temperature:	5.1°C No Ice		
Containers requiring zero headspace have no headspace or bubble that is <6mm (1/4").	Yes ☐	No ☐	No VOA vials submitted ☒
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

Report To Information Company Name <u>Colorado Analytical Laboratory</u> Report To: <u>Rebecca Manzanares</u> E-Mail: <u>rebeccamanzanares@coloradolab.com</u> Address: <u>10411 Heinz Way</u> <u>Commerce City, CO 80640</u> Phone: <u>303-659-2313</u>		Bill To Information: (If different from report to) Project Name <u>Monthly Groundwater</u>	
		CAL TASK 230831077 ARF	
		Compliance Samples: Yes ☐ No ☒ Submit Data to CDPHE: Yes ☐ No ☒	

Tests Requested

Sample Date/Time	Sample ID	Matrix	Metals (Sub)	Container Type
8/31/23	1:00 PM 230831077-01D - Cross Well	Water - Ground	X	250 ml Cylinder - HNO3
8/31/23	1:30 PM 230831077-02D - Compliance Well	Water - Ground	X	250 ml Cylinder - HNO3
8/31/23	11:30 AM 230831077-03D - Caribou Well	Water - Ground	X	250 ml Cylinder - HNO3
8/31/23	12:15 PM 230831077-04D - Cross Portal	Water - Ground	X	250 ml Cylinder - HNO3
8/31/23	11:15 AM 230831077-05D - Caribou 02	Water - Ground	X	250 ml Cylinder - HNO3
8/31/23	11:15 AM 230831077-06D - Caribou Portal	Water - Ground	X	250 ml Cylinder - HNO3
8/31/23	1:30 PM 230831077-07D - Compliance 02	Water - Ground	X	250 ml Cylinder - HNO3

Relinquished by: (Signature) <i>A. Fortu</i>	Date: Time: 9/5/23 1500	Received by: (Signature) <i>Gregory Richards</i>	Date: Time: 9-6-23 1012
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Sub-Lab Chain of Custody Form

03090272

[illegible]

Tests Requested

Metals (Sub)

Sample Date/Time	Sample ID	Matrix
------------------	-----------	--------

Container Type

Comment:	230831077-01D - Please report Dissolved Lithium only. Sample was filtered prior to preservation.
	230831077-02D - Please report Dissolved Lithium only. Sample was filtered prior to preservation.
	230831077-03D - Please report Dissolved Lithium only. Sample was filtered prior to preservation.
	230831077-04D - Please report Dissolved Lithium only. Sample was filtered prior to preservation.
	230831077-05D - Please report Dissolved Lithium only. Sample was filtered prior to preservation.
	230831077-06D - Please report Dissolved Lithium only. Sample was filtered prior to preservation.
	230831077-07D - Please report Dissolved Lithium only. Sample was filtered prior to preservation.

Relinquished by: (Signature)	Date:	Time:
<i>[Handwritten Signature]</i>	9/5/73	1500



Hazen Research, Inc.
4601 Indiana Street
Golden, CO 80403 USA
Tel: (303) 279-4501
Fax: (303) 278-1528

Lab Control ID: 23H02572

Received: Sep 01, 2023

Reported: Oct 16, 2023

Purchase Order No.

None Received

Customer ID: 05377Z

Account ID: Z01034

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*

By: *Roxanne Sullivan*
Roxanne Sullivan
Analytical Laboratories Director

ANALYTICAL REPORT

Rebecca Manzanares
 Colorado Analytical Laboratories, Inc.

Lab Sample ID			23H02572-001					
Customer Sample ID			230831077-01C - Monthly Groundwater - Cross Well sampled on 08/31/23 @ 1300					
Parameter	Units	Code	Result	Precision* +/-	Detection Limit	Method	Analysis Date / Time	Analyst
Gross Alpha	pCi/L	T	2.4	1.9	0.1	SM 7110 B	10/06/23 @ 1352	KT
Gross Beta	pCi/L	T	3.3	2.4	3.0	SM 7110 B	10/06/23 @ 1352	KT

Lab Sample ID			23H02572-002					
Customer Sample ID			230831077-02C - Monthly Groundwater - Compliance Well sampled on 08/31/23 @ 1330					
Parameter	Units	Code	Result	Precision* +/-	Detection Limit	Method	Analysis Date / Time	Analyst
Gross Alpha	pCi/L	T	1.5	1.6	0.1	SM 7110 B	10/06/23 @ 1354	KT
Gross Beta	pCi/L	T	3.2	2.4	3.1	SM 7110 B	10/06/23 @ 1354	KT

Lab Sample ID			23H02572-003					
Customer Sample ID			230831077-03C - Monthly Groundwater - Caribou Well sampled on 08/31/23 @ 1130					
Parameter	Units	Code	Result	Precision* +/-	Detection Limit	Method	Analysis Date / Time	Analyst
Gross Alpha	pCi/L	T	0.5	1.2	0.1	SM 7110 B	10/06/23 @ 1355	KT
Gross Beta	pCi/L	T	<3.2	2.4	3.2	SM 7110 B	10/06/23 @ 1355	KT

Lab Sample ID			23H02572-004					
Customer Sample ID			230831077-04C - Monthly Groundwater - Cross Portal sampled on 08/31/23 @ 1215					
Parameter	Units	Code	Result	Precision* +/-	Detection Limit	Method	Analysis Date / Time	Analyst
Gross Alpha	pCi/L	T	2.7	1.7	0.1	SM 7110 B	10/06/23 @ 1356	KT
Gross Beta	pCi/L	T	<3.4	2.4	3.4	SM 7110 B	10/06/23 @ 1356	KT

Certification ID's: CO/EPA CO00008

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

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

Customer ID: 05377Z
 Account ID: Z01034

ANALYTICAL REPORT

Rebecca Manzanares
 Colorado Analytical Laboratories, Inc.

Lab Sample ID			23H02572-005					
Customer Sample ID			230831077-05C - Monthly Groundwater - Caribou 02 sampled on 08/31/23 @ 1115					
Parameter	Units	Code	Result	Precision* +/-	Detection Limit	Method	Analysis Date / Time	Analyst
Gross Alpha	pCi/L	T	6.4	2.7	0.1	SM 7110 B	10/06/23 @ 1357	KT
Gross Beta	pCi/L	T	4.5	2.6	3.4	SM 7110 B	10/06/23 @ 1357	KT

Lab Sample ID			23H02572-006					
Customer Sample ID			230831077-06C - Monthly Groundwater - Caribou Portal sampled on 08/31/23 @ 1115					
Parameter	Units	Code	Result	Precision* +/-	Detection Limit	Method	Analysis Date / Time	Analyst
Gross Alpha	pCi/L	T	7.7	2.8	0.1	SM 7110 B	10/06/23 @ 1358	KT
Gross Beta	pCi/L	T	4.4	2.4	3.1	SM 7110 B	10/06/23 @ 1358	KT

Lab Sample ID			23H02572-007					
Customer Sample ID			230831077-07C - Monthly Groundwater - Compliance 02 sampled on 08/31/23 @ 1330					
Parameter	Units	Code	Result	Precision* +/-	Detection Limit	Method	Analysis Date / Time	Analyst
Gross Alpha	pCi/L	T	2.5	1.7	0.1	SM 7110 B	10/06/23 @ 1359	KT
Gross Beta	pCi/L	T	<3.4	2.4	3.4	SM 7110 B	10/06/23 @ 1359	KT

Certification ID's: CO/EPA CO00008

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

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

HAZEN RESEARCH, INC.
RADIOCHEMISTRY LABORATORY

Date: 10/06/2023

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*

$$\text{Calculation: } \frac{(61.0) - (1.000) - (1.3) - (0.200)}{57.4} \times 100 = 106\%$$

Batch QC Evaluation:

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

* Required for batch size greater than 10 samples.

Conclusions:

 x Batch QC Passes**
 Batch QC Fails
 Batch QC Passes, with exceptions**:

Reruns Required: _____

Narrative:

**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 evaluated in this report.

Batch Listing by Lab Control Number:

23H02484	_____
23H02559	_____
23H02560	_____
23H02574	_____
23H02554	_____
23H02508	_____
23H02578	_____
23H02572	_____
23H02653	_____
_____	_____

Evaluator:

 _____

10/16/2023

Date

HAZEN RESEARCH, INC.
RADIOCHEMISTRY LABORATORY

Date: 10/06/2023

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*

$$\text{Calculation: } \frac{(43.1) - (1.000)}{44} - \frac{(1.7) - (0.200)}{44} \times 100 = 97\%$$

Batch QC Evaluation:

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

* Required for batch size greater than 10 samples.

Conclusions:

 x Batch QC Passes**
 Batch QC Fails
 Batch QC Passes, with exceptions**:

Reruns Required: _____

Narrative:

**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 evaluated in this report.

Batch Listing by Lab Control Number:

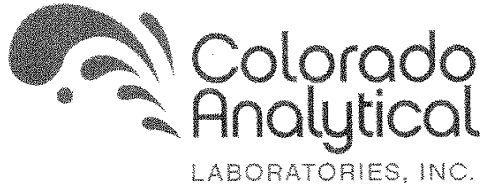
23H02484 _____
23H02559 _____
23H02560 _____
23H02574 _____
23H02554 _____
23H02508 _____
23H02578 _____
23H02572 _____
23H02653 _____

Evaluator:

 _____

10/16/2023

Date



23H02572

Ship To: Hazen Research

Preserved: Y/N

HNO3 Lot #: 2021041412

Date Preserved: 8/31/23

Report To Information Company Name <u>Colorado Analytical Laboratory</u> Report To: <u>Rebecca Manzanares</u> E-Mail: <u>rebeccamanzanares@coloradolab.com</u>	Bill To Information: (If different from report to) 	Project Name <u>Monthly Groundwater</u>
Address: <u>10411 Heinz Way</u> <u>Commerce City, CO 80640</u> Phone: <u>303-659-2313</u>	Address: CAL TASK 230831077 ARF	Compliance Samples: Yes ☐ No ☒ Submit Data to CDPHE: Yes ☐ No ☒

Tests Requested

Sample Date/Time		Sample ID	Matrix	Gross Alpha/Beta (Sub)																	Container Type
8/31/23	1:00 PM	230831077-01C - Cross Well	Water - Ground	X																	1L - Unpreserved
8/31/23	1:30 PM	230831077-02C - Compliance Well	Water - Ground	X																	1L - Unpreserved
8/31/23	11:30 AM	230831077-03C - Caribou Well	Water - Ground	X																	1L - Unpreserved
8/31/23	12:15 PM	230831077-04C - Cross Portal	Water - Ground	X																	1L - Unpreserved
8/31/23	11:15 AM	230831077-05C - Caribou 02	Water - Ground	X																	1L - Unpreserved
8/31/23	11:15 AM	230831077-06C - Caribou Portal	Water - Ground	X																	1L - Unpreserved
8/31/23	1:30 PM	230831077-07C - Compliance 02	Water - Ground	X																	1L - Unpreserved

Comment:

Received preserved 9/1/23

Relinquished by: (Signature) <u>A. Fort</u>	Date: Time: <u>9/1/23 1000</u>	Received by: (Signature)	Date: Time:	Relinquished by: (Signature)	Date: Time:	Received by: (Signature) <u>[Signature]</u>	Date: Time: <u>RECEIVED SEP 01 2023</u>
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APPENDIX A.3 SEPTEMBER 2023 GROUNDWATER AND EFFLUENT ANALYTICAL RESULTS

ANALYTICAL REPORT

PREPARED FOR

Attn: Brooke Molson Moran
Grand Island Resources
12567 West Cedar Road
Suite 250
Lakewood, Colorado 80228

Generated 10/30/2023 5:07:57 PM

JOB DESCRIPTION

Nederland, CO - Groundwater

JOB NUMBER

280-182134-1

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
10/30/2023 5:07:57 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
Project/Site: Nederland, CO - Groundwater

Job ID: 280-182134-1

Qualifiers

Metals

Qualifier	Qualifier Description
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.
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
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Rad

Qualifier	Qualifier Description
G	The Sample MDC is greater than the requested RL.
U	Result is less than the sample detection limit.

Glossary

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

Case Narrative

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-182134-1

Job ID: 280-182134-1

Laboratory: Eurofins Denver

Narrative

CASE NARRATIVE

Client: Grand Island Resources

Project: Nederland, CO - Groundwater

Report Number: 280-182134-1

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.

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

RECEIPT

The samples were received on 9/28/2023 4:22 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 7.5° C, 9.4° C and 9.9° C.

Receipt temperature is considered acceptable as the samples were collected and submitted to the laboratory on the same date.

DISSOLVED METALS (ICP)

Samples CROSS WELL (280-182134-1), COMPLIANCE WELL (280-182134-2), COMPLIANCE 02 (280-182134-3), COMPLIANCE 03 (280-182134-4), CARIBOU WELL (280-182134-5), CROSS PORTAL (280-182134-6), CARIBOU PORTAL (280-182134-7) and CARIBOU 02 (280-182134-8) were analyzed for Dissolved metals (ICP) in accordance with EPA Method 200.7. The samples were prepared and analyzed on 10/26/2023.

Iron was detected in method blank MB 280-631084/1-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 analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED METALS (ICPMS)

Samples CROSS WELL (280-182134-1), COMPLIANCE WELL (280-182134-2), COMPLIANCE 02 (280-182134-3), COMPLIANCE 03 (280-182134-4), CARIBOU WELL (280-182134-5), CROSS PORTAL (280-182134-6), CARIBOU PORTAL (280-182134-7) and CARIBOU 02 (280-182134-8) were analyzed for dissolved metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared on 10/26/2023 and analyzed on 10/26/2023 and 10/27/2023.

Zinc failed the recovery criteria high for the MSD of sample CROSS WELL (280-182134-1) in batch 280-631488. Refer to the QC report for details.

The presence of the '4' qualifier indicates analytes where the concentration in the unspiked sample exceeded four times the spiking

Case Narrative

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-182134-1

Job ID: 280-182134-1 (Continued)

Laboratory: Eurofins Denver (Continued)

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.

DISSOLVED MERCURY (CVAA)

Samples CROSS WELL (280-182134-1), COMPLIANCE WELL (280-182134-2), COMPLIANCE 02 (280-182134-3), COMPLIANCE 03 (280-182134-4), CARIBOU WELL (280-182134-5), CROSS PORTAL (280-182134-6), CARIBOU PORTAL (280-182134-7) and CARIBOU 02 (280-182134-8) were analyzed for dissolved mercury (CVAA) in accordance with EPA Method 245.1. The samples were prepared and analyzed on 10/24/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL DISSOLVED SOLIDS

Samples CROSS WELL (280-182134-1), COMPLIANCE WELL (280-182134-2), COMPLIANCE 02 (280-182134-3), COMPLIANCE 03 (280-182134-4), CARIBOU WELL (280-182134-5), CROSS PORTAL (280-182134-6), CARIBOU PORTAL (280-182134-7) and CARIBOU 02 (280-182134-8) were analyzed for total dissolved solids in accordance with SM20 2540C. The samples were analyzed on 10/04/2023.

Total Dissolved Solids (TDS) exceeded the RPD limit for the laboratory duplicate analysis of sample CROSS PORTAL (280-182134-6). Sample matrix interference is suspected. 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.

ANIONS (28 DAYS)

Samples CROSS WELL (280-182134-1), COMPLIANCE WELL (280-182134-2), COMPLIANCE 02 (280-182134-3), COMPLIANCE 03 (280-182134-4), CARIBOU WELL (280-182134-5), CROSS PORTAL (280-182134-6), CARIBOU PORTAL (280-182134-7) and CARIBOU 02 (280-182134-8) were analyzed for anions (28 days) in accordance with EPA Method 300.0 (28 Days). The samples were analyzed on 10/21/2023.

Fluoride exceeded the RPD limit for the duplicate of sample 280-182915-1. 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.

ANIONS (48 HOURS)

Samples CROSS WELL (280-182134-1), COMPLIANCE WELL (280-182134-2), COMPLIANCE 02 (280-182134-3), COMPLIANCE 03 (280-182134-4), CARIBOU WELL (280-182134-5), CROSS PORTAL (280-182134-6), CARIBOU PORTAL (280-182134-7) and CARIBOU 02 (280-182134-8) were analyzed for anions (48 hours) in accordance with EPA Method 300.0 (48 Hours). The samples were analyzed on 09/29/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

NITRATE-NITRITE AS NITROGEN

Samples CROSS WELL (280-182134-1), COMPLIANCE WELL (280-182134-2), COMPLIANCE 02 (280-182134-3), COMPLIANCE 03 (280-182134-4), CARIBOU WELL (280-182134-5), CROSS PORTAL (280-182134-6), CARIBOU PORTAL (280-182134-7) and CARIBOU 02 (280-182134-8) were analyzed for nitrate-nitrite as nitrogen in accordance with EPA Method 353.2. The samples were analyzed on 10/12/2023 and 10/17/2023.

Nitrate Nitrite as N failed the recovery criteria low for the MS of sample 280-182709-11 in batch 280-629664. 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.

FREE CYANIDE

Samples CROSS WELL (280-182134-1), COMPLIANCE WELL (280-182134-2), COMPLIANCE 02 (280-182134-3), COMPLIANCE 03 (280-182134-4), CARIBOU WELL (280-182134-5), CROSS PORTAL (280-182134-6), CARIBOU PORTAL (280-182134-7) and CARIBOU 02 (280-182134-8) were analyzed for Weak Acid Dissociable Cyanide in accordance with 4500_CN_I. The samples were analyzed on

Case Narrative

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-182134-1

Job ID: 280-182134-1 (Continued)

Laboratory: Eurofins Denver (Continued)

10/11/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL CHLORIDE

Samples CROSS WELL (280-182134-1), COMPLIANCE WELL (280-182134-2), COMPLIANCE 02 (280-182134-3), COMPLIANCE 03 (280-182134-4), CARIBOU WELL (280-182134-5), CROSS PORTAL (280-182134-6), CARIBOU PORTAL (280-182134-7) and CARIBOU 02 (280-182134-8) were analyzed for total chloride in accordance with SM20 4500 Cl-E. The samples were analyzed on 10/04/2023.

Chloride exceeded the RPD limit for the MSD of sample CARIBOU 02 (280-182134-8) in batch 280-628488. Sample matrix interference is suspected. 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.

SULFATE

Samples CROSS WELL (280-182134-1), COMPLIANCE WELL (280-182134-2), COMPLIANCE 02 (280-182134-3), COMPLIANCE 03 (280-182134-4), CARIBOU WELL (280-182134-5), CROSS PORTAL (280-182134-6), CARIBOU PORTAL (280-182134-7) and CARIBOU 02 (280-182134-8) were analyzed for sulfate in accordance with SM 4500 S04 E. The samples were analyzed on 10/04/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GROSS ALPHA AND GROSS BETA RADIOACTIVITY - DISSOLVED

Samples CROSS WELL (280-182134-1), COMPLIANCE WELL (280-182134-2), COMPLIANCE 02 (280-182134-3), COMPLIANCE 03 (280-182134-4), CARIBOU WELL (280-182134-5), CROSS PORTAL (280-182134-6), CARIBOU PORTAL (280-182134-7) and CARIBOU 02 (280-182134-8) were analyzed for Gross Alpha and Gross Beta Radioactivity - Dissolved in accordance with EPA 900.0. The samples were prepared on 10/03/2023 and analyzed on 10/20/2023.

The detection goal was not met for the following samples. The samples and batch QC were prepped at full volume. Matrix interferences are suspected because the method blank achieved the detection goal demonstrating acceptable sample preparation and instrument performance. Additionally activity in the samples is above the MDC: CARIBOU PORTAL (280-182134-7) and CARIBOU 02 (280-182134-8). Analytical results are reported with the detection limit achieved.

The detection goal was not met for the following samples due to a reduction of the sample size attributed to high residual mass: (180-163079-E-1-B) and (180-163079-E-1-E DU). Analytical results are reported with the detection limit achieved.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

CESIUM 137 & OTHER GAMMA EMITTERS (GS) - DISSOLVED

Samples CROSS WELL (280-182134-1), COMPLIANCE WELL (280-182134-2), COMPLIANCE 02 (280-182134-3), COMPLIANCE 03 (280-182134-4), CARIBOU WELL (280-182134-5), CROSS PORTAL (280-182134-6), CARIBOU PORTAL (280-182134-7) and CARIBOU 02 (280-182134-8) were analyzed for Cesium 137 & Other Gamma Emitters (GS) - Dissolved in accordance with EPA 901.1. The samples were prepared on 10/04/2023 and analyzed on 10/24/2023.

The minimum detectable concentration (MDC) for the method blank (MB) is above the requested limit for Cesium 137. The activity was not observed in the MB above the MDC or reporting limit (RL). The data for the following sample have been reported with the MDC achieved: (MB 160-630719/1-A)

The detection goal of 20 pCi/L was not met for Cs-137 for the following samples. An elevated MDC can occur when higher background counts are applied to a peak ROI. This is due to the relatively small size of the peak or subsequent "force-fit" of the non-existent peak which resulted in higher than normal background counts due to statistical fluctuations in the Compton baseline. The laboratory does not believe this adversely affects the data, the Cs-137 activity is well below the RL and MDC: CROSS WELL (280-182134-1), COMPLIANCE 03 (280-182134-4) and CARIBOU 02 (280-182134-8).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-182134-1

Client Sample ID: CROSS WELL

Lab Sample ID: 280-182134-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.024	J	0.10	0.018	mg/L	1		200.7 Rev 4.4	Dissolved
Boron	0.0061	J	0.10	0.0015	mg/L	1		200.7 Rev 4.4	Dissolved
Iron	0.036	J B	0.10	0.0091	mg/L	1		200.7 Rev 4.4	Dissolved
Barium	0.029		0.0030	0.00038	mg/L	1		200.8	Dissolved
Cadmium	0.00019	J	0.0010	0.00019	mg/L	1		200.8	Dissolved
Copper	0.0057		0.0020	0.00071	mg/L	1		200.8	Dissolved
Lead	0.00081	J	0.0010	0.00023	mg/L	1		200.8	Dissolved
Manganese	0.0013	J	0.0030	0.00051	mg/L	1		200.8	Dissolved
Molybdenum	0.00065	J	0.0020	0.00037	mg/L	1		200.8	Dissolved
Silver	0.000055	J	0.0010	0.000045	mg/L	1		200.8	Dissolved
Zinc	1.2		0.10	0.020	mg/L	10		200.8	Dissolved
Nitrate as N	0.24	J	0.50	0.090	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	0.29		0.10	0.044	mg/L	1		353.2	Total/NA
Total Dissolved Solids (TDS)	87		10	4.7	mg/L	1		SM 2540C	Total/NA
Chloride	3.4		2.0	0.68	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	9.0		5.0	0.71	mg/L	1		SM 4500 SO4 E	Total/NA

Client Sample ID: COMPLIANCE WELL

Lab Sample ID: 280-182134-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.0049	J	0.10	0.0015	mg/L	1		200.7 Rev 4.4	Dissolved
Iron	0.034	J B	0.10	0.0091	mg/L	1		200.7 Rev 4.4	Dissolved
Barium	0.043		0.0030	0.00038	mg/L	1		200.8	Dissolved
Manganese	0.0063		0.0030	0.00051	mg/L	1		200.8	Dissolved
Molybdenum	0.0045		0.0020	0.00037	mg/L	1		200.8	Dissolved
Uranium	0.00016	J	0.0010	0.000030	mg/L	1		200.8	Dissolved
Zinc	0.099		0.010	0.0020	mg/L	1		200.8	Dissolved
Nitrate as N	0.28	J	0.50	0.090	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	0.34		0.10	0.044	mg/L	1		353.2	Total/NA
Total Dissolved Solids (TDS)	80		10	4.7	mg/L	1		SM 2540C	Total/NA
Chloride	3.1		2.0	0.68	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	9.2		5.0	0.71	mg/L	1		SM 4500 SO4 E	Total/NA

Client Sample ID: COMPLIANCE 02

Lab Sample ID: 280-182134-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.0039	J	0.10	0.0015	mg/L	1		200.7 Rev 4.4	Dissolved
Iron	0.012	J B	0.10	0.0091	mg/L	1		200.7 Rev 4.4	Dissolved
Barium	0.039		0.0030	0.00038	mg/L	1		200.8	Dissolved
Manganese	0.0057		0.0030	0.00051	mg/L	1		200.8	Dissolved
Molybdenum	0.0043		0.0020	0.00037	mg/L	1		200.8	Dissolved
Uranium	0.00017	J	0.0010	0.000030	mg/L	1		200.8	Dissolved
Zinc	0.090		0.010	0.0020	mg/L	1		200.8	Dissolved
Nitrate as N	0.28	J	0.50	0.090	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	0.34		0.10	0.044	mg/L	1		353.2	Total/NA
Total Dissolved Solids (TDS)	90		10	4.7	mg/L	1		SM 2540C	Total/NA
Chloride	3.1		2.0	0.68	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	8.9		5.0	0.71	mg/L	1		SM 4500 SO4 E	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Denver

Detection Summary

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-182134-1

Client Sample ID: COMPLIANCE 03

Lab Sample ID: 280-182134-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.0015	J	0.10	0.0015	mg/L	1		200.7 Rev 4.4	Dissolved
Zinc	0.012		0.010	0.0020	mg/L	1		200.8	Dissolved

Client Sample ID: CARIBOU WELL

Lab Sample ID: 280-182134-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.0020	J	0.10	0.0015	mg/L	1		200.7 Rev 4.4	Dissolved
Iron	0.014	J B	0.10	0.0091	mg/L	1		200.7 Rev 4.4	Dissolved
Barium	0.0073		0.0030	0.00038	mg/L	1		200.8	Dissolved
Copper	0.15		0.0020	0.00071	mg/L	1		200.8	Dissolved
Lead	0.00026	J	0.0010	0.00023	mg/L	1		200.8	Dissolved
Silver	0.000069	J	0.0010	0.000045	mg/L	1		200.8	Dissolved
Zinc	0.0056	J	0.010	0.0020	mg/L	1		200.8	Dissolved
Nitrate as N	0.092	J	0.50	0.090	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	0.099	J	0.10	0.044	mg/L	1		353.2	Total/NA
Total Dissolved Solids (TDS)	24		10	4.7	mg/L	1		SM 2540C	Total/NA
Sulfate	2.4	J	5.0	0.71	mg/L	1		SM 4500 SO4 E	Total/NA

Client Sample ID: CROSS PORTAL

Lab Sample ID: 280-182134-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.0041	J	0.10	0.0015	mg/L	1		200.7 Rev 4.4	Dissolved
Iron	0.021	J B	0.10	0.0091	mg/L	1		200.7 Rev 4.4	Dissolved
Antimony	0.00045	J	0.0020	0.00040	mg/L	1		200.8	Dissolved
Barium	0.069		0.0030	0.00038	mg/L	1		200.8	Dissolved
Cadmium	0.0010		0.0010	0.00019	mg/L	1		200.8	Dissolved
Copper	0.0019	J	0.0020	0.00071	mg/L	1		200.8	Dissolved
Lead	0.00088	J	0.0010	0.00023	mg/L	1		200.8	Dissolved
Manganese	0.0085		0.0030	0.00051	mg/L	1		200.8	Dissolved
Molybdenum	0.0061		0.0020	0.00037	mg/L	1		200.8	Dissolved
Uranium	0.00074	J	0.0010	0.000030	mg/L	1		200.8	Dissolved
Zinc	0.22		0.010	0.0020	mg/L	1		200.8	Dissolved
Nitrate Nitrite as N	0.066	J	0.10	0.044	mg/L	1		353.2	Total/NA
Total Dissolved Solids (TDS)	110		10	4.7	mg/L	1		SM 2540C	Total/NA
Sulfate	10		5.0	0.71	mg/L	1		SM 4500 SO4 E	Total/NA

Client Sample ID: CARIBOU PORTAL

Lab Sample ID: 280-182134-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.021	J	0.10	0.018	mg/L	1		200.7 Rev 4.4	Dissolved
Boron	0.0033	J	0.10	0.0015	mg/L	1		200.7 Rev 4.4	Dissolved
Iron	0.020	J B	0.10	0.0091	mg/L	1		200.7 Rev 4.4	Dissolved
Antimony	0.0010	J	0.0020	0.00040	mg/L	1		200.8	Dissolved
Barium	0.057		0.0030	0.00038	mg/L	1		200.8	Dissolved
Lead	0.00023	J	0.0010	0.00023	mg/L	1		200.8	Dissolved
Molybdenum	0.0063		0.0020	0.00037	mg/L	1		200.8	Dissolved
Uranium	0.0060		0.0010	0.000030	mg/L	1		200.8	Dissolved
Zinc	0.011		0.010	0.0020	mg/L	1		200.8	Dissolved
Nitrate as N	0.15	J	0.50	0.090	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	0.18		0.10	0.044	mg/L	1		353.2	Total/NA
Total Dissolved Solids (TDS)	130		10	4.7	mg/L	1		SM 2540C	Total/NA
Sulfate	11		5.0	0.71	mg/L	1		SM 4500 SO4 E	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Denver

Detection Summary

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-182134-1

Client Sample ID: CARIBOU 02

Lab Sample ID: 280-182134-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Boron	0.0029	J	0.10	0.0015	mg/L	1			200.7 Rev 4.4	Dissolved
Iron	0.011	J B	0.10	0.0091	mg/L	1			200.7 Rev 4.4	Dissolved
Antimony	0.0010	J	0.0020	0.00040	mg/L	1			200.8	Dissolved
Arsenic	0.00070	J	0.0050	0.00050	mg/L	1			200.8	Dissolved
Barium	0.058		0.0030	0.00038	mg/L	1			200.8	Dissolved
Molybdenum	0.0062		0.0020	0.00037	mg/L	1			200.8	Dissolved
Uranium	0.0062		0.0010	0.000030	mg/L	1			200.8	Dissolved
Zinc	0.010		0.010	0.0020	mg/L	1			200.8	Dissolved
Nitrate as N	0.15	J	0.50	0.090	mg/L	1			300.0	Total/NA
Nitrate Nitrite as N	0.17		0.10	0.044	mg/L	1			353.2	Total/NA
Total Dissolved Solids (TDS)	130		10	4.7	mg/L	1			SM 2540C	Total/NA
Sulfate	11		5.0	0.71	mg/L	1			SM 4500 SO4 E	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Denver

Method Summary

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-182134-1

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
300.0	Anions, Ion Chromatography	EPA	EET DEN
353.2	Nitrogen, Nitrate-Nitrite	EPA	EET DEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET DEN
SM 4500 Cl- E	Chloride, Total	SM	EET DEN
SM 4500 CN I	Cyanide, Weak Acid Dissociable	SM	EET DEN
SM 4500 SO4 E	Sulfate, Total	SM	EET DEN
900.0	Gross Alpha and Gross Beta Radioactivity	EPA	EET SL
901.1	Cesium 137 & Other Gamma Emitters (GS)	EPA	EET SL
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
Evaporation	Preparation, Evaporation	None	EET SL
Fill_Geo-0	Fill Geometry, No In-Growth	None	EET SL

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 SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-182134-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-182134-1	CROSS WELL	Water	09/28/23 13:00	09/28/23 16:22
280-182134-2	COMPLIANCE WELL	Water	09/28/23 13:30	09/28/23 16:22
280-182134-3	COMPLIANCE 02	Water	09/28/23 13:30	09/28/23 16:22
280-182134-4	COMPLIANCE 03	Water	09/28/23 13:30	09/28/23 16:22
280-182134-5	CARIBOU WELL	Water	09/28/23 11:30	09/28/23 16:22
280-182134-6	CROSS PORTAL	Water	09/28/23 12:15	09/28/23 16:22
280-182134-7	CARIBOU PORTAL	Water	09/28/23 11:15	09/28/23 16:22
280-182134-8	CARIBOU 02	Water	09/28/23 11:15	09/28/23 16:22

Client Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-182134-1

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Dissolved

Client Sample ID: CROSS WELL

Date Collected: 09/28/23 13:00

Date Received: 09/28/23 16:22

Lab Sample ID: 280-182134-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.024	J	0.10	0.018	mg/L		10/26/23 08:55	10/26/23 19:33	1
Boron	0.0061	J	0.10	0.0015	mg/L		10/26/23 08:55	10/26/23 19:33	1
Iron	0.036	J B	0.10	0.0091	mg/L		10/26/23 08:55	10/26/23 19:33	1
Lithium	ND		0.020	0.0091	mg/L		10/26/23 08:55	10/26/23 19:33	1

Client Sample ID: COMPLIANCE WELL

Date Collected: 09/28/23 13:30

Date Received: 09/28/23 16:22

Lab Sample ID: 280-182134-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.10	0.018	mg/L		10/26/23 08:55	10/26/23 19:54	1
Boron	0.0049	J	0.10	0.0015	mg/L		10/26/23 08:55	10/26/23 19:54	1
Iron	0.034	J B	0.10	0.0091	mg/L		10/26/23 08:55	10/26/23 19:54	1
Lithium	ND		0.020	0.0091	mg/L		10/26/23 08:55	10/26/23 19:54	1

Client Sample ID: COMPLIANCE 02

Date Collected: 09/28/23 13:30

Date Received: 09/28/23 16:22

Lab Sample ID: 280-182134-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.10	0.018	mg/L		10/26/23 08:55	10/26/23 19:58	1
Boron	0.0039	J	0.10	0.0015	mg/L		10/26/23 08:55	10/26/23 19:58	1
Iron	0.012	J B	0.10	0.0091	mg/L		10/26/23 08:55	10/26/23 19:58	1
Lithium	ND		0.020	0.0091	mg/L		10/26/23 08:55	10/26/23 19:58	1

Client Sample ID: COMPLIANCE 03

Date Collected: 09/28/23 13:30

Date Received: 09/28/23 16:22

Lab Sample ID: 280-182134-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.10	0.018	mg/L		10/26/23 08:55	10/26/23 20:02	1
Boron	0.0015	J	0.10	0.0015	mg/L		10/26/23 08:55	10/26/23 20:02	1
Iron	ND		0.10	0.0091	mg/L		10/26/23 08:55	10/26/23 20:02	1
Lithium	ND		0.020	0.0091	mg/L		10/26/23 08:55	10/26/23 20:02	1

Client Sample ID: CARIBOU WELL

Date Collected: 09/28/23 11:30

Date Received: 09/28/23 16:22

Lab Sample ID: 280-182134-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.10	0.018	mg/L		10/26/23 08:55	10/26/23 20:06	1
Boron	0.0020	J	0.10	0.0015	mg/L		10/26/23 08:55	10/26/23 20:06	1
Iron	0.014	J B	0.10	0.0091	mg/L		10/26/23 08:55	10/26/23 20:06	1
Lithium	ND		0.020	0.0091	mg/L		10/26/23 08:55	10/26/23 20:06	1

Client Sample ID: CROSS PORTAL

Date Collected: 09/28/23 12:15

Date Received: 09/28/23 16:22

Lab Sample ID: 280-182134-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.10	0.018	mg/L		10/26/23 08:55	10/26/23 20:26	1
Boron	0.0041	J	0.10	0.0015	mg/L		10/26/23 08:55	10/26/23 20:26	1
Iron	0.021	J B	0.10	0.0091	mg/L		10/26/23 08:55	10/26/23 20:26	1
Lithium	ND		0.020	0.0091	mg/L		10/26/23 08:55	10/26/23 20:26	1

Eurofins Denver

Client Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-182134-1

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Dissolved

Client Sample ID: CARIBOU PORTAL

Date Collected: 09/28/23 11:15

Date Received: 09/28/23 16:22

Lab Sample ID: 280-182134-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.021	J	0.10	0.018	mg/L		10/26/23 08:55	10/26/23 20:30	1
Boron	0.0033	J	0.10	0.0015	mg/L		10/26/23 08:55	10/26/23 20:30	1
Iron	0.020	J B	0.10	0.0091	mg/L		10/26/23 08:55	10/26/23 20:30	1
Lithium	ND		0.020	0.0091	mg/L		10/26/23 08:55	10/26/23 20:30	1

Client Sample ID: CARIBOU 02

Date Collected: 09/28/23 11:15

Date Received: 09/28/23 16:22

Lab Sample ID: 280-182134-8

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.10	0.018	mg/L		10/26/23 08:55	10/26/23 20:34	1
Boron	0.0029	J	0.10	0.0015	mg/L		10/26/23 08:55	10/26/23 20:34	1
Iron	0.011	J B	0.10	0.0091	mg/L		10/26/23 08:55	10/26/23 20:34	1
Lithium	ND		0.020	0.0091	mg/L		10/26/23 08:55	10/26/23 20:34	1

Method: EPA 200.8 - Metals (ICP/MS) - Dissolved

Client Sample ID: CROSS WELL

Date Collected: 09/28/23 13:00

Date Received: 09/28/23 16:22

Lab Sample ID: 280-182134-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00040	mg/L		10/26/23 08:55	10/26/23 18:11	1
Arsenic	ND		0.0050	0.00050	mg/L		10/26/23 08:55	10/26/23 18:11	1
Barium	0.029		0.0030	0.00038	mg/L		10/26/23 08:55	10/26/23 18:11	1
Beryllium	ND		0.0010	0.00030	mg/L		10/26/23 08:55	10/26/23 18:11	1
Cadmium	0.00019	J	0.0010	0.00019	mg/L		10/26/23 08:55	10/26/23 18:11	1
Chromium	ND		0.0030	0.00050	mg/L		10/26/23 08:55	10/26/23 18:11	1
Cobalt	ND		0.0010	0.00033	mg/L		10/26/23 08:55	10/26/23 18:11	1
Copper	0.0057		0.0020	0.00071	mg/L		10/26/23 08:55	10/26/23 18:11	1
Lead	0.00081	J	0.0010	0.00023	mg/L		10/26/23 08:55	10/26/23 18:11	1
Manganese	0.0013	J	0.0030	0.00051	mg/L		10/26/23 08:55	10/26/23 18:11	1
Molybdenum	0.00065	J	0.0020	0.00037	mg/L		10/26/23 08:55	10/26/23 18:11	1
Nickel	ND		0.0030	0.00083	mg/L		10/26/23 08:55	10/26/23 18:11	1
Selenium	ND		0.0050	0.0010	mg/L		10/26/23 08:55	10/26/23 18:11	1
Silver	0.000055	J	0.0010	0.000045	mg/L		10/26/23 08:55	10/26/23 18:11	1
Thallium	ND		0.0010	0.00021	mg/L		10/26/23 08:55	10/26/23 18:11	1
Uranium	ND		0.0010	0.000030	mg/L		10/26/23 08:55	10/26/23 18:11	1
Vanadium	ND		0.0050	0.0011	mg/L		10/26/23 08:55	10/26/23 18:11	1
Zinc	1.2		0.10	0.020	mg/L		10/26/23 08:55	10/27/23 11:06	10

Client Sample ID: COMPLIANCE WELL

Date Collected: 09/28/23 13:30

Date Received: 09/28/23 16:22

Lab Sample ID: 280-182134-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00040	mg/L		10/26/23 08:55	10/26/23 18:22	1
Arsenic	ND		0.0050	0.00050	mg/L		10/26/23 08:55	10/26/23 18:22	1
Barium	0.043		0.0030	0.00038	mg/L		10/26/23 08:55	10/26/23 18:22	1
Beryllium	ND		0.0010	0.00030	mg/L		10/26/23 08:55	10/26/23 18:22	1
Cadmium	ND		0.0010	0.00019	mg/L		10/26/23 08:55	10/26/23 18:22	1
Chromium	ND		0.0030	0.00050	mg/L		10/26/23 08:55	10/26/23 18:22	1
Cobalt	ND		0.0010	0.00033	mg/L		10/26/23 08:55	10/26/23 18:22	1

Eurofins Denver

Client Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-182134-1

Method: EPA 200.8 - Metals (ICP/MS) - Dissolved (Continued)

Client Sample ID: COMPLIANCE WELL

Date Collected: 09/28/23 13:30

Date Received: 09/28/23 16:22

Lab Sample ID: 280-182134-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		0.0020	0.00071	mg/L		10/26/23 08:55	10/26/23 18:22	1
Lead	ND		0.0010	0.00023	mg/L		10/26/23 08:55	10/26/23 18:22	1
Manganese	0.0063		0.0030	0.00051	mg/L		10/26/23 08:55	10/26/23 18:22	1
Molybdenum	0.0045		0.0020	0.00037	mg/L		10/26/23 08:55	10/26/23 18:22	1
Nickel	ND		0.0030	0.00083	mg/L		10/26/23 08:55	10/26/23 18:22	1
Selenium	ND		0.0050	0.0010	mg/L		10/26/23 08:55	10/26/23 18:22	1
Silver	ND		0.0010	0.000045	mg/L		10/26/23 08:55	10/26/23 18:22	1
Thallium	ND		0.0010	0.00021	mg/L		10/26/23 08:55	10/26/23 18:22	1
Uranium	0.00016	J	0.0010	0.000030	mg/L		10/26/23 08:55	10/26/23 18:22	1
Vanadium	ND		0.0050	0.0011	mg/L		10/26/23 08:55	10/26/23 18:22	1
Zinc	0.099		0.010	0.0020	mg/L		10/26/23 08:55	10/27/23 11:25	1

Client Sample ID: COMPLIANCE 02

Date Collected: 09/28/23 13:30

Date Received: 09/28/23 16:22

Lab Sample ID: 280-182134-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00040	mg/L		10/26/23 08:55	10/26/23 18:24	1
Arsenic	ND		0.0050	0.00050	mg/L		10/26/23 08:55	10/26/23 18:24	1
Barium	0.039		0.0030	0.00038	mg/L		10/26/23 08:55	10/26/23 18:24	1
Beryllium	ND		0.0010	0.00030	mg/L		10/26/23 08:55	10/26/23 18:24	1
Cadmium	ND		0.0010	0.00019	mg/L		10/26/23 08:55	10/26/23 18:24	1
Chromium	ND		0.0030	0.00050	mg/L		10/26/23 08:55	10/26/23 18:24	1
Cobalt	ND		0.0010	0.00033	mg/L		10/26/23 08:55	10/26/23 18:24	1
Copper	ND		0.0020	0.00071	mg/L		10/26/23 08:55	10/26/23 18:24	1
Lead	ND		0.0010	0.00023	mg/L		10/26/23 08:55	10/26/23 18:24	1
Manganese	0.0057		0.0030	0.00051	mg/L		10/26/23 08:55	10/26/23 18:24	1
Molybdenum	0.0043		0.0020	0.00037	mg/L		10/26/23 08:55	10/26/23 18:24	1
Nickel	ND		0.0030	0.00083	mg/L		10/26/23 08:55	10/26/23 18:24	1
Selenium	ND		0.0050	0.0010	mg/L		10/26/23 08:55	10/26/23 18:24	1
Silver	ND		0.0010	0.000045	mg/L		10/26/23 08:55	10/26/23 18:24	1
Thallium	ND		0.0010	0.00021	mg/L		10/26/23 08:55	10/26/23 18:24	1
Uranium	0.00017	J	0.0010	0.000030	mg/L		10/26/23 08:55	10/26/23 18:24	1
Vanadium	ND		0.0050	0.0011	mg/L		10/26/23 08:55	10/26/23 18:24	1
Zinc	0.090		0.010	0.0020	mg/L		10/26/23 08:55	10/27/23 11:29	1

Client Sample ID: COMPLIANCE 03

Date Collected: 09/28/23 13:30

Date Received: 09/28/23 16:22

Lab Sample ID: 280-182134-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00040	mg/L		10/26/23 08:55	10/26/23 18:27	1
Arsenic	ND		0.0050	0.00050	mg/L		10/26/23 08:55	10/26/23 18:27	1
Barium	ND		0.0030	0.00038	mg/L		10/26/23 08:55	10/26/23 18:27	1
Beryllium	ND		0.0010	0.00030	mg/L		10/26/23 08:55	10/26/23 18:27	1
Cadmium	ND		0.0010	0.00019	mg/L		10/26/23 08:55	10/26/23 18:27	1
Chromium	ND		0.0030	0.00050	mg/L		10/26/23 08:55	10/26/23 18:27	1
Cobalt	ND		0.0010	0.00033	mg/L		10/26/23 08:55	10/26/23 18:27	1
Copper	ND		0.0020	0.00071	mg/L		10/26/23 08:55	10/26/23 18:27	1
Lead	ND		0.0010	0.00023	mg/L		10/26/23 08:55	10/26/23 18:27	1
Manganese	ND		0.0030	0.00051	mg/L		10/26/23 08:55	10/26/23 18:27	1
Molybdenum	ND		0.0020	0.00037	mg/L		10/26/23 08:55	10/26/23 18:27	1

Eurofins Denver

Client Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-182134-1

Method: EPA 200.8 - Metals (ICP/MS) - Dissolved (Continued)

Client Sample ID: COMPLIANCE 03

Date Collected: 09/28/23 13:30

Date Received: 09/28/23 16:22

Lab Sample ID: 280-182134-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	ND		0.0030	0.00083	mg/L		10/26/23 08:55	10/26/23 18:27	1
Selenium	ND		0.0050	0.0010	mg/L		10/26/23 08:55	10/26/23 18:27	1
Silver	ND		0.0010	0.000045	mg/L		10/26/23 08:55	10/26/23 18:27	1
Thallium	ND		0.0010	0.00021	mg/L		10/26/23 08:55	10/26/23 18:27	1
Uranium	ND		0.0010	0.000030	mg/L		10/26/23 08:55	10/26/23 18:27	1
Vanadium	ND		0.0050	0.0011	mg/L		10/26/23 08:55	10/26/23 18:27	1
Zinc	0.012		0.010	0.0020	mg/L		10/26/23 08:55	10/27/23 15:16	1

Client Sample ID: CARIBOU WELL

Date Collected: 09/28/23 11:30

Date Received: 09/28/23 16:22

Lab Sample ID: 280-182134-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00040	mg/L		10/26/23 08:55	10/26/23 18:33	1
Arsenic	ND		0.0050	0.00050	mg/L		10/26/23 08:55	10/26/23 18:33	1
Barium	0.0073		0.0030	0.00038	mg/L		10/26/23 08:55	10/26/23 18:33	1
Beryllium	ND		0.0010	0.00030	mg/L		10/26/23 08:55	10/26/23 18:33	1
Cadmium	ND		0.0010	0.00019	mg/L		10/26/23 08:55	10/26/23 18:33	1
Chromium	ND		0.0030	0.00050	mg/L		10/26/23 08:55	10/26/23 18:33	1
Cobalt	ND		0.0010	0.00033	mg/L		10/26/23 08:55	10/26/23 18:33	1
Copper	0.15		0.0020	0.00071	mg/L		10/26/23 08:55	10/26/23 18:33	1
Lead	0.00026	J	0.0010	0.00023	mg/L		10/26/23 08:55	10/26/23 18:33	1
Manganese	ND		0.0030	0.00051	mg/L		10/26/23 08:55	10/26/23 18:33	1
Molybdenum	ND		0.0020	0.00037	mg/L		10/26/23 08:55	10/26/23 18:33	1
Nickel	ND		0.0030	0.00083	mg/L		10/26/23 08:55	10/26/23 18:33	1
Selenium	ND		0.0050	0.0010	mg/L		10/26/23 08:55	10/26/23 18:33	1
Silver	0.000069	J	0.0010	0.000045	mg/L		10/26/23 08:55	10/26/23 18:33	1
Thallium	ND		0.0010	0.00021	mg/L		10/26/23 08:55	10/26/23 18:33	1
Uranium	ND		0.0010	0.000030	mg/L		10/26/23 08:55	10/26/23 18:33	1
Vanadium	ND		0.0050	0.0011	mg/L		10/26/23 08:55	10/26/23 18:33	1
Zinc	0.0056	J	0.010	0.0020	mg/L		10/26/23 08:55	10/26/23 18:33	1

Client Sample ID: CROSS PORTAL

Date Collected: 09/28/23 12:15

Date Received: 09/28/23 16:22

Lab Sample ID: 280-182134-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00045	J	0.0020	0.00040	mg/L		10/26/23 08:55	10/26/23 18:36	1
Arsenic	ND		0.0050	0.00050	mg/L		10/26/23 08:55	10/26/23 18:36	1
Barium	0.069		0.0030	0.00038	mg/L		10/26/23 08:55	10/26/23 18:36	1
Beryllium	ND		0.0010	0.00030	mg/L		10/26/23 08:55	10/26/23 18:36	1
Cadmium	0.0010		0.0010	0.00019	mg/L		10/26/23 08:55	10/26/23 18:36	1
Chromium	ND		0.0030	0.00050	mg/L		10/26/23 08:55	10/26/23 18:36	1
Cobalt	ND		0.0010	0.00033	mg/L		10/26/23 08:55	10/26/23 18:36	1
Copper	0.0019	J	0.0020	0.00071	mg/L		10/26/23 08:55	10/26/23 18:36	1
Lead	0.00088	J	0.0010	0.00023	mg/L		10/26/23 08:55	10/26/23 18:36	1
Manganese	0.0085		0.0030	0.00051	mg/L		10/26/23 08:55	10/26/23 18:36	1
Molybdenum	0.0061		0.0020	0.00037	mg/L		10/26/23 08:55	10/26/23 18:36	1
Nickel	ND		0.0030	0.00083	mg/L		10/26/23 08:55	10/26/23 18:36	1
Selenium	ND		0.0050	0.0010	mg/L		10/26/23 08:55	10/26/23 18:36	1
Silver	ND		0.0010	0.000045	mg/L		10/26/23 08:55	10/26/23 18:36	1
Thallium	ND		0.0010	0.00021	mg/L		10/26/23 08:55	10/26/23 18:36	1

Eurofins Denver

Client Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-182134-1

Method: EPA 200.8 - Metals (ICP/MS) - Dissolved (Continued)

Client Sample ID: CROSS PORTAL

Date Collected: 09/28/23 12:15

Date Received: 09/28/23 16:22

Lab Sample ID: 280-182134-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	0.00074	J	0.0010	0.000030	mg/L		10/26/23 08:55	10/26/23 18:36	1
Vanadium	ND		0.0050	0.0011	mg/L		10/26/23 08:55	10/26/23 18:36	1
Zinc	0.22		0.010	0.0020	mg/L		10/26/23 08:55	10/26/23 18:36	1

Client Sample ID: CARIBOU PORTAL

Date Collected: 09/28/23 11:15

Date Received: 09/28/23 16:22

Lab Sample ID: 280-182134-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	J	0.0020	0.00040	mg/L		10/26/23 08:55	10/26/23 18:38	1
Arsenic	ND		0.0050	0.00050	mg/L		10/26/23 08:55	10/26/23 18:38	1
Barium	0.057		0.0030	0.00038	mg/L		10/26/23 08:55	10/26/23 18:38	1
Beryllium	ND		0.0010	0.00030	mg/L		10/26/23 08:55	10/26/23 18:38	1
Cadmium	ND		0.0010	0.00019	mg/L		10/26/23 08:55	10/26/23 18:38	1
Chromium	ND		0.0030	0.00050	mg/L		10/26/23 08:55	10/26/23 18:38	1
Cobalt	ND		0.0010	0.00033	mg/L		10/26/23 08:55	10/26/23 18:38	1
Copper	ND		0.0020	0.00071	mg/L		10/26/23 08:55	10/26/23 18:38	1
Lead	0.00023	J	0.0010	0.00023	mg/L		10/26/23 08:55	10/26/23 18:38	1
Manganese	ND		0.0030	0.00051	mg/L		10/26/23 08:55	10/26/23 18:38	1
Molybdenum	0.0063		0.0020	0.00037	mg/L		10/26/23 08:55	10/26/23 18:38	1
Nickel	ND		0.0030	0.00083	mg/L		10/26/23 08:55	10/26/23 18:38	1
Selenium	ND		0.0050	0.0010	mg/L		10/26/23 08:55	10/26/23 18:38	1
Silver	ND		0.0010	0.000045	mg/L		10/26/23 08:55	10/26/23 18:38	1
Thallium	ND		0.0010	0.00021	mg/L		10/26/23 08:55	10/26/23 18:38	1
Uranium	0.0060		0.0010	0.000030	mg/L		10/26/23 08:55	10/26/23 18:38	1
Vanadium	ND		0.0050	0.0011	mg/L		10/26/23 08:55	10/26/23 18:38	1
Zinc	0.011		0.010	0.0020	mg/L		10/26/23 08:55	10/26/23 18:38	1

Client Sample ID: CARIBOU 02

Date Collected: 09/28/23 11:15

Date Received: 09/28/23 16:22

Lab Sample ID: 280-182134-8

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	J	0.0020	0.00040	mg/L		10/26/23 08:55	10/26/23 18:40	1
Arsenic	0.00070	J	0.0050	0.00050	mg/L		10/26/23 08:55	10/26/23 18:40	1
Barium	0.058		0.0030	0.00038	mg/L		10/26/23 08:55	10/26/23 18:40	1
Beryllium	ND		0.0010	0.00030	mg/L		10/26/23 08:55	10/26/23 18:40	1
Cadmium	ND		0.0010	0.00019	mg/L		10/26/23 08:55	10/26/23 18:40	1
Chromium	ND		0.0030	0.00050	mg/L		10/26/23 08:55	10/26/23 18:40	1
Cobalt	ND		0.0010	0.00033	mg/L		10/26/23 08:55	10/26/23 18:40	1
Copper	ND		0.0020	0.00071	mg/L		10/26/23 08:55	10/26/23 18:40	1
Lead	ND		0.0010	0.00023	mg/L		10/26/23 08:55	10/26/23 18:40	1
Manganese	ND		0.0030	0.00051	mg/L		10/26/23 08:55	10/26/23 18:40	1
Molybdenum	0.0062		0.0020	0.00037	mg/L		10/26/23 08:55	10/26/23 18:40	1
Nickel	ND		0.0030	0.00083	mg/L		10/26/23 08:55	10/26/23 18:40	1
Selenium	ND		0.0050	0.0010	mg/L		10/26/23 08:55	10/26/23 18:40	1
Silver	ND		0.0010	0.000045	mg/L		10/26/23 08:55	10/26/23 18:40	1
Thallium	ND		0.0010	0.00021	mg/L		10/26/23 08:55	10/26/23 18:40	1
Uranium	0.0062		0.0010	0.000030	mg/L		10/26/23 08:55	10/26/23 18:40	1
Vanadium	ND		0.0050	0.0011	mg/L		10/26/23 08:55	10/26/23 18:40	1
Zinc	0.010		0.010	0.0020	mg/L		10/26/23 08:55	10/26/23 18:40	1

Eurofins Denver

Client Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-182134-1

Method: EPA 245.1 - Mercury (CVAA) - Dissolved

Client Sample ID: CROSS WELL
Date Collected: 09/28/23 13:00
Date Received: 09/28/23 16:22

Lab Sample ID: 280-182134-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000061	mg/L		10/24/23 17:06	10/24/23 21:22	1

Client Sample ID: COMPLIANCE WELL
Date Collected: 09/28/23 13:30
Date Received: 09/28/23 16:22

Lab Sample ID: 280-182134-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000061	mg/L		10/24/23 17:06	10/24/23 21:25	1

Client Sample ID: COMPLIANCE 02
Date Collected: 09/28/23 13:30
Date Received: 09/28/23 16:22

Lab Sample ID: 280-182134-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000061	mg/L		10/24/23 17:06	10/24/23 21:27	1

Client Sample ID: COMPLIANCE 03
Date Collected: 09/28/23 13:30
Date Received: 09/28/23 16:22

Lab Sample ID: 280-182134-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000061	mg/L		10/24/23 17:06	10/24/23 21:30	1

Client Sample ID: CARIBOU WELL
Date Collected: 09/28/23 11:30
Date Received: 09/28/23 16:22

Lab Sample ID: 280-182134-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000061	mg/L		10/24/23 17:06	10/24/23 21:38	1

Client Sample ID: CROSS PORTAL
Date Collected: 09/28/23 12:15
Date Received: 09/28/23 16:22

Lab Sample ID: 280-182134-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000061	mg/L		10/24/23 17:06	10/24/23 21:40	1

Client Sample ID: CARIBOU PORTAL
Date Collected: 09/28/23 11:15
Date Received: 09/28/23 16:22

Lab Sample ID: 280-182134-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000061	mg/L		10/24/23 17:06	10/24/23 21:43	1

Client Sample ID: CARIBOU 02
Date Collected: 09/28/23 11:15
Date Received: 09/28/23 16:22

Lab Sample ID: 280-182134-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000061	mg/L		10/24/23 17:06	10/24/23 21:45	1

General Chemistry

Client Sample ID: CROSS WELL
Date Collected: 09/28/23 13:00
Date Received: 09/28/23 16:22

Lab Sample ID: 280-182134-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (EPA 300.0)	ND		0.50	0.17	mg/L			10/21/23 16:08	1
Nitrate as N (EPA 300.0)	0.24	J	0.50	0.090	mg/L			09/29/23 01:35	1

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Client Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-182134-1

General Chemistry (Continued)

Client Sample ID: CROSS WELL

Date Collected: 09/28/23 13:00

Date Received: 09/28/23 16:22

Lab Sample ID: 280-182134-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N (EPA 300.0)	ND		0.50	0.049	mg/L			09/29/23 01:35	1
Nitrate Nitrite as N (EPA 353.2)	0.29		0.10	0.044	mg/L			10/12/23 16:22	1
Total Dissolved Solids (TDS) (SM 2540C)	87		10	4.7	mg/L			10/04/23 16:48	1
Chloride (SM 4500 Cl- E)	3.4		2.0	0.68	mg/L			10/04/23 14:37	1
Cyanide, Free (SM 4500 CN I)	ND		0.010	0.0050	mg/L			10/11/23 12:26	1
Sulfate (SM 4500 SO4 E)	9.0		5.0	0.71	mg/L			10/04/23 17:00	1

Client Sample ID: COMPLIANCE WELL

Date Collected: 09/28/23 13:30

Date Received: 09/28/23 16:22

Lab Sample ID: 280-182134-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (EPA 300.0)	ND		0.50	0.17	mg/L			10/21/23 15:45	1
Nitrate as N (EPA 300.0)	0.28	J	0.50	0.090	mg/L			09/29/23 01:50	1
Nitrite as N (EPA 300.0)	ND		0.50	0.049	mg/L			09/29/23 01:50	1
Nitrate Nitrite as N (EPA 353.2)	0.34		0.10	0.044	mg/L			10/12/23 16:24	1
Total Dissolved Solids (TDS) (SM 2540C)	80		10	4.7	mg/L			10/04/23 16:48	1
Chloride (SM 4500 Cl- E)	3.1		2.0	0.68	mg/L			10/04/23 14:38	1
Cyanide, Free (SM 4500 CN I)	ND		0.010	0.0050	mg/L			10/11/23 12:28	1
Sulfate (SM 4500 SO4 E)	9.2		5.0	0.71	mg/L			10/04/23 17:01	1

Client Sample ID: COMPLIANCE 02

Date Collected: 09/28/23 13:30

Date Received: 09/28/23 16:22

Lab Sample ID: 280-182134-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (EPA 300.0)	ND		0.50	0.17	mg/L			10/21/23 15:57	1
Nitrate as N (EPA 300.0)	0.28	J	0.50	0.090	mg/L			09/29/23 02:05	1
Nitrite as N (EPA 300.0)	ND		0.50	0.049	mg/L			09/29/23 02:05	1
Nitrate Nitrite as N (EPA 353.2)	0.34		0.10	0.044	mg/L			10/12/23 16:26	1
Total Dissolved Solids (TDS) (SM 2540C)	90		10	4.7	mg/L			10/04/23 16:48	1
Chloride (SM 4500 Cl- E)	3.1		2.0	0.68	mg/L			10/04/23 14:38	1
Cyanide, Free (SM 4500 CN I)	ND		0.010	0.0050	mg/L			10/11/23 12:31	1
Sulfate (SM 4500 SO4 E)	8.9		5.0	0.71	mg/L			10/04/23 17:01	1

Client Sample ID: COMPLIANCE 03

Date Collected: 09/28/23 13:30

Date Received: 09/28/23 16:22

Lab Sample ID: 280-182134-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (EPA 300.0)	ND		0.50	0.17	mg/L			10/21/23 15:34	1
Nitrate as N (EPA 300.0)	ND		0.50	0.090	mg/L			09/29/23 02:20	1
Nitrite as N (EPA 300.0)	ND		0.50	0.049	mg/L			09/29/23 02:20	1
Nitrate Nitrite as N (EPA 353.2)	ND		0.10	0.044	mg/L			10/12/23 16:40	1
Total Dissolved Solids (TDS) (SM 2540C)	ND		10	4.7	mg/L			10/04/23 16:48	1
Chloride (SM 4500 Cl- E)	ND		2.0	0.68	mg/L			10/04/23 14:38	1
Cyanide, Free (SM 4500 CN I)	ND		0.010	0.0050	mg/L			10/11/23 12:42	1
Sulfate (SM 4500 SO4 E)	ND		5.0	0.71	mg/L			10/04/23 17:01	1

Eurofins Denver

Client Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-182134-1

General Chemistry

Client Sample ID: CARIBOU WELL

Date Collected: 09/28/23 11:30

Date Received: 09/28/23 16:22

Lab Sample ID: 280-182134-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (EPA 300.0)	ND		0.50	0.17	mg/L			10/21/23 15:23	1
Nitrate as N (EPA 300.0)	0.092	J	0.50	0.090	mg/L			09/29/23 02:35	1
Nitrite as N (EPA 300.0)	ND		0.50	0.049	mg/L			09/29/23 02:35	1
Nitrate Nitrite as N (EPA 353.2)	0.099	J	0.10	0.044	mg/L			10/12/23 16:42	1
Total Dissolved Solids (TDS) (SM 2540C)	24		10	4.7	mg/L			10/04/23 16:48	1
Chloride (SM 4500 Cl- E)	ND		2.0	0.68	mg/L			10/04/23 14:38	1
Cyanide, Free (SM 4500 CN I)	ND		0.010	0.0050	mg/L			10/11/23 12:44	1
Sulfate (SM 4500 SO4 E)	2.4	J	5.0	0.71	mg/L			10/04/23 17:38	1

Client Sample ID: CROSS PORTAL

Date Collected: 09/28/23 12:15

Date Received: 09/28/23 16:22

Lab Sample ID: 280-182134-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (EPA 300.0)	ND		0.50	0.17	mg/L			10/21/23 15:11	1
Nitrate as N (EPA 300.0)	ND		0.50	0.090	mg/L			09/29/23 02:50	1
Nitrite as N (EPA 300.0)	ND		0.50	0.049	mg/L			09/29/23 02:50	1
Nitrate Nitrite as N (EPA 353.2)	0.066	J	0.10	0.044	mg/L			10/12/23 16:44	1
Total Dissolved Solids (TDS) (SM 2540C)	110		10	4.7	mg/L			10/04/23 16:53	1
Chloride (SM 4500 Cl- E)	ND		2.0	0.68	mg/L			10/04/23 14:44	1
Cyanide, Free (SM 4500 CN I)	ND		0.010	0.0050	mg/L			10/11/23 12:47	1
Sulfate (SM 4500 SO4 E)	10		5.0	0.71	mg/L			10/04/23 17:02	1

Client Sample ID: CARIBOU PORTAL

Date Collected: 09/28/23 11:15

Date Received: 09/28/23 16:22

Lab Sample ID: 280-182134-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (EPA 300.0)	ND		0.50	0.17	mg/L			10/21/23 15:00	1
Nitrate as N (EPA 300.0)	0.15	J	0.50	0.090	mg/L			09/29/23 03:05	1
Nitrite as N (EPA 300.0)	ND		0.50	0.049	mg/L			09/29/23 03:05	1
Nitrate Nitrite as N (EPA 353.2)	0.18		0.10	0.044	mg/L			10/12/23 16:46	1
Total Dissolved Solids (TDS) (SM 2540C)	130		10	4.7	mg/L			10/04/23 16:53	1
Chloride (SM 4500 Cl- E)	ND		2.0	0.68	mg/L			10/04/23 14:44	1
Cyanide, Free (SM 4500 CN I)	ND		0.010	0.0050	mg/L			10/11/23 12:50	1
Sulfate (SM 4500 SO4 E)	11		5.0	0.71	mg/L			10/04/23 17:02	1

Client Sample ID: CARIBOU 02

Date Collected: 09/28/23 11:15

Date Received: 09/28/23 16:22

Lab Sample ID: 280-182134-8

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (EPA 300.0)	ND		0.50	0.17	mg/L			10/21/23 14:26	1
Nitrate as N (EPA 300.0)	0.15	J	0.50	0.090	mg/L			09/29/23 03:20	1
Nitrite as N (EPA 300.0)	ND		0.50	0.049	mg/L			09/29/23 03:20	1
Nitrate Nitrite as N (EPA 353.2)	0.17		0.10	0.044	mg/L			10/17/23 14:40	1
Total Dissolved Solids (TDS) (SM 2540C)	130		10	4.7	mg/L			10/04/23 16:53	1
Chloride (SM 4500 Cl- E)	ND	F2	2.0	0.68	mg/L			10/04/23 14:42	1
Cyanide, Free (SM 4500 CN I)	ND		0.010	0.0050	mg/L			10/11/23 12:53	1
Sulfate (SM 4500 SO4 E)	11		5.0	0.71	mg/L			10/04/23 17:07	1

Eurofins Denver

Client Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-182134-1

Method: EPA 900.0 - Gross Alpha and Gross Beta Radioactivity - Dissolved

Client Sample ID: CROSS WELL
Date Collected: 09/28/23 13:00
Date Received: 09/28/23 16:22

Lab Sample ID: 280-182134-1
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	11.3		2.13	2.49	3.00	1.47	pCi/L	10/03/23 11:14	10/20/23 21:35	1
Gross Beta	4.87		1.00	1.11	4.00	1.02	pCi/L	10/03/23 11:14	10/20/23 21:35	1

Client Sample ID: COMPLIANCE WELL
Date Collected: 09/28/23 13:30
Date Received: 09/28/23 16:22

Lab Sample ID: 280-182134-2
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	-0.332	U	0.621	0.622	3.00	1.41	pCi/L	10/03/23 11:14	10/20/23 21:35	1
Gross Beta	0.982		0.586	0.595	4.00	0.888	pCi/L	10/03/23 11:14	10/20/23 21:35	1

Client Sample ID: COMPLIANCE 02
Date Collected: 09/28/23 13:30
Date Received: 09/28/23 16:22

Lab Sample ID: 280-182134-3
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	0.842	U	1.23	1.24	3.00	2.08	pCi/L	10/03/23 11:14	10/20/23 21:35	1
Gross Beta	1.34		0.678	0.691	4.00	0.983	pCi/L	10/03/23 11:14	10/20/23 21:35	1

Client Sample ID: COMPLIANCE 03
Date Collected: 09/28/23 13:30
Date Received: 09/28/23 16:22

Lab Sample ID: 280-182134-4
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	-0.215	U	0.412	0.412	3.00	0.903	pCi/L	10/03/23 11:14	10/20/23 21:35	1
Gross Beta	0.000	U	0.399	0.399	4.00	0.732	pCi/L	10/03/23 11:14	10/20/23 21:35	1

Client Sample ID: CARIBOU WELL
Date Collected: 09/28/23 11:30
Date Received: 09/28/23 16:22

Lab Sample ID: 280-182134-5
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	0.398	U	0.782	0.784	3.00	1.37	pCi/L	10/03/23 11:14	10/20/23 21:35	1
Gross Beta	0.729	U	0.537	0.542	4.00	0.821	pCi/L	10/03/23 11:14	10/20/23 21:35	1

Client Sample ID: CROSS PORTAL
Date Collected: 09/28/23 12:15
Date Received: 09/28/23 16:22

Lab Sample ID: 280-182134-6
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	2.48		1.50	1.53	3.00	2.09	pCi/L	10/03/23 11:14	10/20/23 21:35	1
Gross Beta	1.91		0.738	0.762	4.00	0.991	pCi/L	10/03/23 11:14	10/20/23 21:35	1

Eurofins Denver

Client Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-182134-1

Method: EPA 900.0 - Gross Alpha and Gross Beta Radioactivity - Dissolved

Client Sample ID: CARIBOU PORTAL
Date Collected: 09/28/23 11:15
Date Received: 09/28/23 16:22

Lab Sample ID: 280-182134-7
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	6.11	G	2.50	2.59	3.00	3.18	pCi/L	10/03/23 11:14	10/20/23 21:35	1
Gross Beta	1.60		0.768	0.784	4.00	1.04	pCi/L	10/03/23 11:14	10/20/23 21:35	1

Client Sample ID: CARIBOU 02
Date Collected: 09/28/23 11:15
Date Received: 09/28/23 16:22

Lab Sample ID: 280-182134-8
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	6.69	G	2.63	2.74	3.00	3.42	pCi/L	10/03/23 11:14	10/20/23 21:35	1
Gross Beta	2.56		0.879	0.915	4.00	1.14	pCi/L	10/03/23 11:14	10/20/23 21:35	1

Method: EPA 901.1 - Cesium 137 & Other Gamma Emitters (GS) - Dissolved

Client Sample ID: CROSS WELL
Date Collected: 09/28/23 13:00
Date Received: 09/28/23 16:22

Lab Sample ID: 280-182134-1
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Cesium-137	-4.37	U G	12.2	12.2	20.0	20.9	pCi/L	10/04/23 16:49	10/24/23 17:09	1
Other Detected Radionuclides			Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Other Detected Radionuclide			None				pCi/L	10/04/23 16:49	10/24/23 17:09	1

Client Sample ID: COMPLIANCE WELL
Date Collected: 09/28/23 13:30
Date Received: 09/28/23 16:22

Lab Sample ID: 280-182134-2
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Cesium-137	-0.00270	U	9.90	9.90	20.0	17.7	pCi/L	10/04/23 16:49	10/24/23 18:41	1
Other Detected Radionuclides			Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Other Detected Radionuclide			None				pCi/L	10/04/23 16:49	10/24/23 18:41	1

Client Sample ID: COMPLIANCE 02
Date Collected: 09/28/23 13:30
Date Received: 09/28/23 16:22

Lab Sample ID: 280-182134-3
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Cesium-137	1.88	U	8.95	8.95	20.0	15.9	pCi/L	10/04/23 16:49	10/24/23 18:41	1

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Client Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-182134-1

Method: EPA 901.1 - Cesium 137 & Other Gamma Emitters (GS) - Dissolved (Continued)

<i>Other Detected Radionuclides</i>	<i>Result</i>	<i>Qualifier</i>	<i>Count Uncert. (2σ+/-)</i>	<i>Total Uncert. (2σ+/-)</i>	<i>RL</i>	<i>MDC</i>	<i>Unit</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Other Detected Radionuclide</i>	None						pCi/L	10/04/23 16:49	10/24/23 18:41	1

Client Sample ID: COMPLIANCE 03
Date Collected: 09/28/23 13:30
Date Received: 09/28/23 16:22

Lab Sample ID: 280-182134-4
Matrix: Water

<i>Analyte</i>	<i>Result</i>	<i>Qualifier</i>	<i>Count Uncert. (2σ+/-)</i>	<i>Total Uncert. (2σ+/-)</i>	<i>RL</i>	<i>MDC</i>	<i>Unit</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Cesium-137	5.99	U G	13.7	13.7	20.0	23.6	pCi/L	10/04/23 16:49	10/24/23 19:49	1
<i>Other Detected Radionuclides</i>	<i>Result</i>	<i>Qualifier</i>	<i>Count Uncert. (2σ+/-)</i>	<i>Total Uncert. (2σ+/-)</i>	<i>RL</i>	<i>MDC</i>	<i>Unit</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Bi-214	78.9		31.9	33.3		33.8	pCi/L	10/04/23 16:49	10/24/23 19:49	1
<i>Other Detected Radionuclide</i>	None						pCi/L	10/04/23 16:49	10/24/23 19:49	1
Pb-214	58.0		19.8	21.0		30.8	pCi/L	10/04/23 16:49	10/24/23 19:49	1

Client Sample ID: CARIBOU WELL
Date Collected: 09/28/23 11:30
Date Received: 09/28/23 16:22

Lab Sample ID: 280-182134-5
Matrix: Water

<i>Analyte</i>	<i>Result</i>	<i>Qualifier</i>	<i>Count Uncert. (2σ+/-)</i>	<i>Total Uncert. (2σ+/-)</i>	<i>RL</i>	<i>MDC</i>	<i>Unit</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Cesium-137	-0.840	U	8.84	8.84	20.0	15.8	pCi/L	10/04/23 16:49	10/24/23 19:49	1
<i>Other Detected Radionuclides</i>	<i>Result</i>	<i>Qualifier</i>	<i>Count Uncert. (2σ+/-)</i>	<i>Total Uncert. (2σ+/-)</i>	<i>RL</i>	<i>MDC</i>	<i>Unit</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Bi-214	96.0		26.4	28.7		26.8	pCi/L	10/04/23 16:49	10/24/23 19:49	1
Pb-214	79.2		24.0	25.8		20.6	pCi/L	10/04/23 16:49	10/24/23 19:49	1

Client Sample ID: CROSS PORTAL
Date Collected: 09/28/23 12:15
Date Received: 09/28/23 16:22

Lab Sample ID: 280-182134-6
Matrix: Water

<i>Analyte</i>	<i>Result</i>	<i>Qualifier</i>	<i>Count Uncert. (2σ+/-)</i>	<i>Total Uncert. (2σ+/-)</i>	<i>RL</i>	<i>MDC</i>	<i>Unit</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Cesium-137	0.565	U	10.8	10.8	20.0	19.2	pCi/L	10/04/23 16:49	10/24/23 19:49	1
<i>Other Detected Radionuclides</i>	<i>Result</i>	<i>Qualifier</i>	<i>Count Uncert. (2σ+/-)</i>	<i>Total Uncert. (2σ+/-)</i>	<i>RL</i>	<i>MDC</i>	<i>Unit</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Bi-214	167		40.3	44.8		35.8	pCi/L	10/04/23 16:49	10/24/23 19:49	1
Pb-214	99.5		24.8	27.4		23.3	pCi/L	10/04/23 16:49	10/24/23 19:49	1

Client Sample ID: CARIBOU PORTAL
Date Collected: 09/28/23 11:15
Date Received: 09/28/23 16:22

Lab Sample ID: 280-182134-7
Matrix: Water

<i>Analyte</i>	<i>Result</i>	<i>Qualifier</i>	<i>Count Uncert. (2σ+/-)</i>	<i>Total Uncert. (2σ+/-)</i>	<i>RL</i>	<i>MDC</i>	<i>Unit</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Cesium-137	-0.440	U G	12.1	12.1	20.0	22.3	pCi/L	10/04/23 16:49	10/24/23 21:02	1

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Client Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-182134-1

Method: EPA 901.1 - Cesium 137 & Other Gamma Emitters (GS) - Dissolved (Continued)

			Count	Total						
Other Detected			Uncert.	Uncert.						
Radionuclides	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Bi-214	205		65.9	70.2		93.6	pCi/L	10/04/23 16:49	10/24/23 21:02	1
Pb-214	186		32.8	39.6		36.5	pCi/L	10/04/23 16:49	10/24/23 21:02	1

Client Sample ID: CARIBOU 02
Date Collected: 09/28/23 11:15
Date Received: 09/28/23 16:22

Lab Sample ID: 280-182134-8
Matrix: Water

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Cesium-137	3.92	U	8.69	8.70	20.0	14.9	pCi/L	10/04/23 16:49	10/24/23 21:02	1
Other Detected Radionuclides			Count	Total						
			Uncert.	Uncert.						
	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Bi-214	60.8		23.8	24.9		26.9	pCi/L	10/04/23 16:49	10/24/23 21:02	1
Pb-214	53.0		17.9	18.9		16.8	pCi/L	10/04/23 16:49	10/24/23 21:02	1

QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-182134-1

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 280-631084/1-A

Matrix: Water

Analysis Batch: 631444

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 631084

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.10	0.018	mg/L		10/26/23 08:55	10/26/23 19:09	1
Boron	ND		0.10	0.0015	mg/L		10/26/23 08:55	10/26/23 19:09	1
Iron	0.0285	J	0.10	0.0091	mg/L		10/26/23 08:55	10/26/23 19:09	1
Lithium	ND		0.020	0.0091	mg/L		10/26/23 08:55	10/26/23 19:09	1

Lab Sample ID: LCS 280-631084/2-A

Matrix: Water

Analysis Batch: 631444

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 631084

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	10.0	9.60		mg/L		96	87 - 111
Boron	2.00	2.07		mg/L		103	86 - 110
Iron	10.0	10.1		mg/L		101	85 - 115
Lithium	1.00	1.00		mg/L		100	90 - 112

Lab Sample ID: 280-182134-1 MS

Matrix: Water

Analysis Batch: 631444

Client Sample ID: CROSS WELL

Prep Type: Dissolved

Prep Batch: 631084

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	0.024	J	10.0	9.97		mg/L		99	70 - 130
Boron	0.0061	J	2.00	2.15		mg/L		107	70 - 130
Iron	0.036	J B	10.0	10.4		mg/L		103	70 - 130
Lithium	ND		1.00	1.03		mg/L		103	70 - 130

Lab Sample ID: 280-182134-1 MSD

Matrix: Water

Analysis Batch: 631444

Client Sample ID: CROSS WELL

Prep Type: Dissolved

Prep Batch: 631084

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	0.024	J	10.0	9.65		mg/L		96	70 - 130	3	20
Boron	0.0061	J	2.00	2.10		mg/L		105	70 - 130	3	20
Iron	0.036	J B	10.0	10.1		mg/L		100	70 - 130	3	20
Lithium	ND		1.00	0.996		mg/L		100	70 - 130	3	20

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 280-631084/1-A

Matrix: Water

Analysis Batch: 631395

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 631084

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00040	mg/L		10/26/23 08:55	10/26/23 18:06	1
Arsenic	ND		0.0050	0.00050	mg/L		10/26/23 08:55	10/26/23 18:06	1
Barium	ND		0.0030	0.00038	mg/L		10/26/23 08:55	10/26/23 18:06	1
Beryllium	ND		0.0010	0.00030	mg/L		10/26/23 08:55	10/26/23 18:06	1
Cadmium	ND		0.0010	0.00019	mg/L		10/26/23 08:55	10/26/23 18:06	1
Chromium	ND		0.0030	0.00050	mg/L		10/26/23 08:55	10/26/23 18:06	1
Cobalt	ND		0.0010	0.00033	mg/L		10/26/23 08:55	10/26/23 18:06	1
Copper	ND		0.0020	0.00071	mg/L		10/26/23 08:55	10/26/23 18:06	1

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QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-182134-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 280-631084/1-A

Matrix: Water

Analysis Batch: 631395

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 631084

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0010	0.00023	mg/L		10/26/23 08:55	10/26/23 18:06	1
Manganese	ND		0.0030	0.00051	mg/L		10/26/23 08:55	10/26/23 18:06	1
Molybdenum	ND		0.0020	0.00037	mg/L		10/26/23 08:55	10/26/23 18:06	1
Nickel	ND		0.0030	0.00083	mg/L		10/26/23 08:55	10/26/23 18:06	1
Selenium	ND		0.0050	0.0010	mg/L		10/26/23 08:55	10/26/23 18:06	1
Silver	ND		0.0010	0.000045	mg/L		10/26/23 08:55	10/26/23 18:06	1
Thallium	ND		0.0010	0.00021	mg/L		10/26/23 08:55	10/26/23 18:06	1
Uranium	ND		0.0010	0.000030	mg/L		10/26/23 08:55	10/26/23 18:06	1
Vanadium	ND		0.0050	0.0011	mg/L		10/26/23 08:55	10/26/23 18:06	1

Lab Sample ID: MB 280-631084/1-A

Matrix: Water

Analysis Batch: 631488

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 631084

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		0.010	0.0020	mg/L		10/26/23 08:55	10/27/23 11:02	1

Lab Sample ID: LCS 280-631084/25-A

Matrix: Water

Analysis Batch: 631395

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 631084

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.0400	0.0388		mg/L		97	85 - 115
Arsenic	0.0400	0.0398		mg/L		99	89 - 111
Barium	0.0400	0.0389		mg/L		97	89 - 115
Beryllium	0.0400	0.0383		mg/L		96	85 - 115
Cadmium	0.0400	0.0386		mg/L		97	89 - 111
Chromium	0.0400	0.0388		mg/L		97	86 - 115
Cobalt	0.0400	0.0385		mg/L		96	92 - 115
Copper	0.0400	0.0385		mg/L		96	90 - 115
Lead	0.0400	0.0390		mg/L		97	88 - 115
Manganese	0.0400	0.0377		mg/L		94	87 - 115
Molybdenum	0.0400	0.0393		mg/L		98	89 - 112
Nickel	0.0400	0.0402		mg/L		100	86 - 115
Selenium	0.0400	0.0394		mg/L		98	85 - 114
Silver	0.0400	0.0379		mg/L		95	90 - 114
Thallium	0.0400	0.0389		mg/L		97	86 - 115
Uranium	0.0400	0.0387		mg/L		97	85 - 115
Vanadium	0.0400	0.0388		mg/L		97	90 - 115

Lab Sample ID: LCS 280-631084/25-A

Matrix: Water

Analysis Batch: 631488

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 631084

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	0.0400	0.0380		mg/L		95	88 - 115

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QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-182134-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: 280-182134-1 MS

Matrix: Water

Analysis Batch: 631395

Client Sample ID: CROSS WELL

Prep Type: Dissolved

Prep Batch: 631084

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	ND		0.0400	0.0387		mg/L		97	85 - 115
Arsenic	ND		0.0400	0.0376		mg/L		94	79 - 120
Barium	0.029		0.0400	0.0677		mg/L		96	89 - 115
Beryllium	ND		0.0400	0.0396		mg/L		99	85 - 115
Cadmium	0.00019	J	0.0400	0.0394		mg/L		98	89 - 111
Chromium	ND		0.0400	0.0375		mg/L		94	86 - 115
Cobalt	ND		0.0400	0.0374		mg/L		94	92 - 115
Copper	0.0057		0.0400	0.0424		mg/L		92	90 - 115
Lead	0.00081	J	0.0400	0.0389		mg/L		95	88 - 115
Manganese	0.0013	J	0.0400	0.0381		mg/L		92	87 - 115
Molybdenum	0.00065	J	0.0400	0.0404		mg/L		99	89 - 112
Nickel	ND		0.0400	0.0381		mg/L		95	86 - 115
Selenium	ND		0.0400	0.0407		mg/L		102	85 - 114
Silver	0.000055	J	0.0400	0.0380		mg/L		95	70 - 130
Thallium	ND		0.0400	0.0383		mg/L		96	86 - 115
Uranium	ND		0.0400	0.0381		mg/L		95	85 - 115
Vanadium	ND		0.0400	0.0389		mg/L		97	90 - 115

Lab Sample ID: 280-182134-1 MS

Matrix: Water

Analysis Batch: 631488

Client Sample ID: CROSS WELL

Prep Type: Dissolved

Prep Batch: 631084

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	1.2		0.0400	1.29	4	mg/L		103	88 - 115

Lab Sample ID: 280-182134-1 MSD

Matrix: Water

Analysis Batch: 631395

Client Sample ID: CROSS WELL

Prep Type: Dissolved

Prep Batch: 631084

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	ND		0.0400	0.0407		mg/L		102	85 - 115	5	20
Arsenic	ND		0.0400	0.0397		mg/L		99	79 - 120	6	20
Barium	0.029		0.0400	0.0692		mg/L		100	89 - 115	2	20
Beryllium	ND		0.0400	0.0384		mg/L		96	85 - 115	3	20
Cadmium	0.00019	J	0.0400	0.0416		mg/L		104	89 - 111	5	20
Chromium	ND		0.0400	0.0400		mg/L		100	86 - 115	6	20
Cobalt	ND		0.0400	0.0391		mg/L		98	92 - 115	5	20
Copper	0.0057		0.0400	0.0454		mg/L		99	90 - 115	7	20
Lead	0.00081	J	0.0400	0.0419		mg/L		103	88 - 115	7	20
Manganese	0.0013	J	0.0400	0.0416		mg/L		101	87 - 115	9	20
Molybdenum	0.00065	J	0.0400	0.0423		mg/L		104	89 - 112	5	20
Nickel	ND		0.0400	0.0403		mg/L		101	86 - 115	6	20
Selenium	ND		0.0400	0.0399		mg/L		100	85 - 114	2	20
Silver	0.000055	J	0.0400	0.0402		mg/L		100	70 - 130	6	20
Thallium	ND		0.0400	0.0413		mg/L		103	86 - 115	8	20
Uranium	ND		0.0400	0.0411		mg/L		103	85 - 115	8	20
Vanadium	ND		0.0400	0.0394		mg/L		98	90 - 115	1	20

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QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-182134-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: 280-182134-1 MSD
Matrix: Water
Analysis Batch: 631488

Client Sample ID: CROSS WELL
Prep Type: Dissolved
Prep Batch: 631084

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Zinc	1.2		0.0400	1.39	4	mg/L		346	88 - 115	7	20

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 280-630940/1-A
Matrix: Water
Analysis Batch: 631064

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 630940

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000061	mg/L		10/24/23 17:06	10/24/23 20:37	1

Lab Sample ID: LCS 280-630940/2-A
Matrix: Water
Analysis Batch: 631064

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 630940

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00500	0.00507		mg/L		101	90 - 110

Lab Sample ID: 280-182110-B-1-D MS
Matrix: Water
Analysis Batch: 631064

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 630940

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		0.00500	0.00513		mg/L		103	80 - 120

Lab Sample ID: 280-182110-B-1-E MSD
Matrix: Water
Analysis Batch: 631064

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 630940

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.00500	0.00502		mg/L		100	80 - 120	2	10

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 280-627758/40
Matrix: Water
Analysis Batch: 627758

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.50	0.090	mg/L			09/28/23 22:20	1
Nitrite as N	ND		0.50	0.049	mg/L			09/28/23 22:20	1

Lab Sample ID: LCS 280-627758/38
Matrix: Water
Analysis Batch: 627758

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	5.00	4.70		mg/L		94	90 - 110
Nitrite as N	5.00	4.91		mg/L		98	90 - 110

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QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-182134-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 280-627758/39

Matrix: Water

Analysis Batch: 627758

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	5.00	4.70		mg/L		94	90 - 110	0	10
Nitrite as N	5.00	4.92		mg/L		98	90 - 110	0	10

Lab Sample ID: MRL 280-627758/3

Matrix: Water

Analysis Batch: 627758

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	0.500	0.411	J	mg/L		82	50 - 150		
Nitrite as N	0.500	0.447	J	mg/L		89	50 - 150		

Lab Sample ID: 280-182134-8 MS

Matrix: Water

Analysis Batch: 627758

Client Sample ID: CARIBOU 02

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	0.15	J	5.00	5.53		mg/L		108	80 - 120		
Nitrite as N	ND		5.00	4.51		mg/L		90	80 - 120		

Lab Sample ID: 280-182134-8 MSD

Matrix: Water

Analysis Batch: 627758

Client Sample ID: CARIBOU 02

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	0.15	J	5.00	5.71		mg/L		111	80 - 120	3	20
Nitrite as N	ND		5.00	4.67		mg/L		93	80 - 120	3	20

Lab Sample ID: 280-182134-8 DU

Matrix: Water

Analysis Batch: 627758

Client Sample ID: CARIBOU 02

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	0.15	J	0.151	J	mg/L				0.4	15
Nitrite as N	ND		ND		mg/L				NC	15

Lab Sample ID: MB 280-630648/56

Matrix: Water

Analysis Batch: 630648

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.50	0.17	mg/L			10/21/23 08:24	1

Lab Sample ID: LCS 280-630648/52

Matrix: Water

Analysis Batch: 630648

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	5.00	5.35		mg/L		107	90 - 110		

Eurofins Denver

QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-182134-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 280-630648/55

Matrix: Water

Analysis Batch: 630648

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	5.00	4.88		mg/L		98	90 - 110	9	10

Lab Sample ID: MRL 280-630648/3

Matrix: Water

Analysis Batch: 630648

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.500	0.357	J	mg/L		71	50 - 150		

Lab Sample ID: 280-182915-C-1 MS

Matrix: Water

Analysis Batch: 630648

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.91		5.00	5.80		mg/L		98	80 - 120		

Lab Sample ID: 280-182915-C-1 MSD

Matrix: Water

Analysis Batch: 630648

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.91		5.00	5.85		mg/L		99	80 - 120	1	20

Lab Sample ID: 280-182915-C-1 DU

Matrix: Water

Analysis Batch: 630648

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	DU Result	DU Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.91			0.778	F5	mg/L				16	15

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 280-629664/104

Matrix: Water

Analysis Batch: 629664

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.10	0.044	mg/L			10/12/23 15:34	1

Lab Sample ID: MB 280-629664/22

Matrix: Water

Analysis Batch: 629664

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.10	0.044	mg/L			10/12/23 12:50	1

Eurofins Denver

QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-182134-1

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: LCS 280-629664/103

Matrix: Water

Analysis Batch: 629664

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	5.00	4.94		mg/L		99	90 - 110

Lab Sample ID: LCS 280-629664/21

Matrix: Water

Analysis Batch: 629664

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	5.00	5.03		mg/L		101	90 - 110

Lab Sample ID: 280-182709-C-11 MS

Matrix: Water

Analysis Batch: 629664

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	18	F1	20.0	ND	F1	mg/L		0	90 - 110

Lab Sample ID: 280-182709-C-11 MSD

Matrix: Water

Analysis Batch: 629664

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate Nitrite as N	18	F1	20.0	37.3		mg/L		95	90 - 110	NC	10

Lab Sample ID: MB 280-630185/60

Matrix: Water

Analysis Batch: 630185

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.10	0.044	mg/L			10/17/23 14:32	1

Lab Sample ID: LCS 280-630185/59

Matrix: Water

Analysis Batch: 630185

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	5.00	5.07		mg/L		101	90 - 110

Lab Sample ID: 580-132638-B-1 MS

Matrix: Water

Analysis Batch: 630185

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	5.6		8.00	13.4		mg/L		98	90 - 110

Lab Sample ID: 580-132638-B-1 MSD

Matrix: Water

Analysis Batch: 630185

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate Nitrite as N	5.6		8.00	13.4		mg/L		98	90 - 110	0	10

Eurofins Denver

QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-182134-1

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 280-628495/1

Matrix: Water

Analysis Batch: 628495

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	ND		10	4.7	mg/L			10/04/23 16:47	1

Lab Sample ID: LCS 280-628495/2

Matrix: Water

Analysis Batch: 628495

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids (TDS)	507	508		mg/L		100	88 - 114

Lab Sample ID: LCSD 280-628495/3

Matrix: Water

Analysis Batch: 628495

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids (TDS)	507	506		mg/L		100	88 - 114	0	20

Lab Sample ID: 280-181946-D-1 DU

Matrix: Water

Analysis Batch: 628495

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids (TDS)	190		189		mg/L		2	10

Lab Sample ID: MB 280-628496/1

Matrix: Water

Analysis Batch: 628496

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	ND		10	4.7	mg/L			10/04/23 16:53	1

Lab Sample ID: LCS 280-628496/2

Matrix: Water

Analysis Batch: 628496

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids (TDS)	509	516		mg/L		101	88 - 114

Lab Sample ID: LCSD 280-628496/3

Matrix: Water

Analysis Batch: 628496

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids (TDS)	509	507		mg/L		100	88 - 114	2	20

Lab Sample ID: 280-182134-6 DU

Matrix: Water

Analysis Batch: 628496

Client Sample ID: CROSS PORTAL

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids (TDS)	110		96.0	F3	mg/L		16	10

Eurofins Denver

QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-182134-1

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 280-628488/15
Matrix: Water
Analysis Batch: 628488

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		2.0	0.68	mg/L			10/04/23 14:37	1

Lab Sample ID: MB 280-628488/38
Matrix: Water
Analysis Batch: 628488

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		2.0	0.68	mg/L			10/04/23 14:42	1

Lab Sample ID: LCS 280-628488/13
Matrix: Water
Analysis Batch: 628488

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	19.8		mg/L		99	90 - 110

Lab Sample ID: LCS 280-628488/36
Matrix: Water
Analysis Batch: 628488

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	20.4		mg/L		102	90 - 110

Lab Sample ID: LCSD 280-628488/14
Matrix: Water
Analysis Batch: 628488

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	20.0	19.9		mg/L		100	90 - 110	1	10

Lab Sample ID: LCSD 280-628488/37
Matrix: Water
Analysis Batch: 628488

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	20.0	20.5		mg/L		103	90 - 110	1	10

Lab Sample ID: 280-182134-1 MS
Matrix: Water
Analysis Batch: 628488

Client Sample ID: CROSS WELL
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	3.4		20.0	24.4		mg/L		105	90 - 110

Lab Sample ID: 280-182134-1 MSD
Matrix: Water
Analysis Batch: 628488

Client Sample ID: CROSS WELL
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	3.4		20.0	23.5		mg/L		101	90 - 110	3	10

Eurofins Denver

QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-182134-1

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: 280-182134-8 MS

Matrix: Water

Analysis Batch: 628488

Client Sample ID: CARIBOU 02

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	ND	F2	20.0	20.9		mg/L		105	90 - 110		

Lab Sample ID: 280-182134-8 MSD

Matrix: Water

Analysis Batch: 628488

Client Sample ID: CARIBOU 02

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	ND	F2	20.0	18.7	F2	mg/L		93	90 - 110	11	10

Method: SM 4500 CN I - Cyanide, Weak Acid Dissociable

Lab Sample ID: MB 280-629381/20

Matrix: Water

Analysis Batch: 629381

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Free	ND		0.010	0.0050	mg/L			10/11/23 12:15	1

Lab Sample ID: HLCS 280-629381/19

Matrix: Water

Analysis Batch: 629381

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Free	0.350	0.359		mg/L		103	75 - 120		

Lab Sample ID: LCS 280-629381/17

Matrix: Water

Analysis Batch: 629381

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Free	0.100	0.111		mg/L		111	75 - 120		

Lab Sample ID: LLCS 280-629381/18

Matrix: Water

Analysis Batch: 629381

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Free	0.100	0.107		mg/L		107	90 - 110		

Lab Sample ID: 280-182067-I-1 MS

Matrix: Water

Analysis Batch: 629381

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Free	ND		0.100	0.115		mg/L		115	75 - 120		

Eurofins Denver

QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-182134-1

Method: SM 4500 CN I - Cyanide, Weak Acid Dissociable (Continued)

Lab Sample ID: 280-182067-I-1 MSD

Matrix: Water

Analysis Batch: 629381

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Free	ND		0.100	0.109		mg/L		109	75 - 120	5	20

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 280-628532/14

Matrix: Water

Analysis Batch: 628532

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		5.0	0.71	mg/L			10/04/23 17:00	1

Lab Sample ID: MB 280-628532/34

Matrix: Water

Analysis Batch: 628532

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		5.0	0.71	mg/L			10/04/23 17:07	1

Lab Sample ID: LCS 280-628532/12

Matrix: Water

Analysis Batch: 628532

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	25.0	26.0		mg/L		104	90 - 110

Lab Sample ID: LCS 280-628532/32

Matrix: Water

Analysis Batch: 628532

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	25.0	25.9		mg/L		104	90 - 110

Lab Sample ID: LCSD 280-628532/13

Matrix: Water

Analysis Batch: 628532

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	25.0	25.9		mg/L		104	90 - 110	0	10

Lab Sample ID: LCSD 280-628532/33

Matrix: Water

Analysis Batch: 628532

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	25.0	25.8		mg/L		103	90 - 110	0	10

Eurofins Denver

QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-182134-1

Method: SM 4500 SO4 E - Sulfate, Total (Continued)

Lab Sample ID: 280-182134-1 MS

Matrix: Water

Analysis Batch: 628532

Client Sample ID: CROSS WELL

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfate	9.0		25.0	35.2		mg/L		105	90 - 110		

Lab Sample ID: 280-182134-1 MSD

Matrix: Water

Analysis Batch: 628532

Client Sample ID: CROSS WELL

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	9.0		25.0	34.9		mg/L		104	90 - 110	1	10

Lab Sample ID: 280-182134-8 MS

Matrix: Water

Analysis Batch: 628532

Client Sample ID: CARIBOU 02

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfate	11		25.0	37.0		mg/L		103	90 - 110		

Lab Sample ID: 280-182134-8 MSD

Matrix: Water

Analysis Batch: 628532

Client Sample ID: CARIBOU 02

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	11		25.0	36.2		mg/L		100	90 - 110	2	10

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Lab Sample ID: MB 160-630525/1-A

Matrix: Water

Analysis Batch: 632839

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 630525

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	0.3183	U	0.527	0.528	3.00	0.912	pCi/L	10/03/23 11:14	10/20/23 21:35	1
Gross Beta	-0.1233	U	0.477	0.477	4.00	0.868	pCi/L	10/03/23 11:14	10/20/23 21:35	1

Lab Sample ID: LCS 160-630525/2-A

Matrix: Water

Analysis Batch: 633701

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 630525

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Gross Alpha	49.6	51.32		7.48	3.00	2.16	pCi/L	104	75 - 125		

Lab Sample ID: LCSB 160-630525/3-B

Matrix: Water

Analysis Batch: 632839

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 630525

Analyte	Spike Added	LCSB Result	LCSB Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Gross Beta	72.5	72.51		7.78	4.00	0.909	pCi/L	100	75 - 125		

Eurofins Denver

QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-182134-1

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity (Continued)

Lab Sample ID: 180-163079-E-1-C MS
Matrix: Water
Analysis Batch: 632841

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 630525

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Gross Alpha	12500	G	19700	35300		4890	3.00	1080	pCi/L	116	60 - 140

Lab Sample ID: 180-163079-E-1-D MSBT
Matrix: Water
Analysis Batch: 632841

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 630525

Analyte	Sample Result	Sample Qual	Spike Added	MSBT Result	MSBT Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Gross Beta	5600	G	29000	31940	G	3420	4.00	525	pCi/L	91	60 - 140

Lab Sample ID: 180-163079-E-1-E DU
Matrix: Water
Analysis Batch: 632841

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 630525

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Gross Alpha	12500	G	10190	G	1970	3.00	1150	pCi/L	0.52	1
Gross Beta	5600	G	4619	G	733	4.00	508	pCi/L	0.62	1

Method: 901.1 - Cesium 137 & Other Gamma Emitters (GS)

Lab Sample ID: MB 160-630719/1-A
Matrix: Water
Analysis Batch: 633139

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 630719

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Cesium-137	-10.37	U G	18.0	18.1	20.0	30.4	pCi/L	10/04/23 16:49	10/24/23 17:08	1
Other Detected Radionuclides	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Other Detected Radionuclide	None						pCi/L	10/04/23 16:49	10/24/23 17:08	1

Lab Sample ID: LCS 160-630719/2-A
Matrix: Water
Analysis Batch: 633142

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 630719

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Americium-241	135000	152900		18200		431	pCi/L	113	75 - 125
Cesium-137	40300	42010		5010	20.0	115	pCi/L	104	75 - 125
Cobalt-60	16500	17230		2060		67.5	pCi/L	104	75 - 125

QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-182134-1

Method: 901.1 - Cesium 137 & Other Gamma Emitters (GS) (Continued)

Lab Sample ID: 280-182134-1 DU
Matrix: Water
Analysis Batch: 633139

Client Sample ID: CROSS WELL
Prep Type: Dissolved
Prep Batch: 630719

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Cesium-137	-4.37	U G	5.988	U G	11.7	20.0	20.0	pCi/L	0.43	1
Other Detected Radionuclides	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Other Detected Radionuclide	None		None					pCi/L		

QC Association Summary

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-182134-1

Metals

Prep Batch: 630940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182134-1	CROSS WELL	Dissolved	Water	245.1	
280-182134-2	COMPLIANCE WELL	Dissolved	Water	245.1	
280-182134-3	COMPLIANCE 02	Dissolved	Water	245.1	
280-182134-4	COMPLIANCE 03	Dissolved	Water	245.1	
280-182134-5	CARIBOU WELL	Dissolved	Water	245.1	
280-182134-6	CROSS PORTAL	Dissolved	Water	245.1	
280-182134-7	CARIBOU PORTAL	Dissolved	Water	245.1	
280-182134-8	CARIBOU 02	Dissolved	Water	245.1	
MB 280-630940/1-A	Method Blank	Total/NA	Water	245.1	
LCS 280-630940/2-A	Lab Control Sample	Total/NA	Water	245.1	
280-182110-B-1-D MS	Matrix Spike	Dissolved	Water	245.1	
280-182110-B-1-E MSD	Matrix Spike Duplicate	Dissolved	Water	245.1	

Analysis Batch: 631064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182134-1	CROSS WELL	Dissolved	Water	245.1	630940
280-182134-2	COMPLIANCE WELL	Dissolved	Water	245.1	630940
280-182134-3	COMPLIANCE 02	Dissolved	Water	245.1	630940
280-182134-4	COMPLIANCE 03	Dissolved	Water	245.1	630940
280-182134-5	CARIBOU WELL	Dissolved	Water	245.1	630940
280-182134-6	CROSS PORTAL	Dissolved	Water	245.1	630940
280-182134-7	CARIBOU PORTAL	Dissolved	Water	245.1	630940
280-182134-8	CARIBOU 02	Dissolved	Water	245.1	630940
MB 280-630940/1-A	Method Blank	Total/NA	Water	245.1	630940
LCS 280-630940/2-A	Lab Control Sample	Total/NA	Water	245.1	630940
280-182110-B-1-D MS	Matrix Spike	Dissolved	Water	245.1	630940
280-182110-B-1-E MSD	Matrix Spike Duplicate	Dissolved	Water	245.1	630940

Prep Batch: 631084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182134-1	CROSS WELL	Dissolved	Water	200.7	
280-182134-1	CROSS WELL	Dissolved	Water	200.8	
280-182134-2	COMPLIANCE WELL	Dissolved	Water	200.8	
280-182134-3	COMPLIANCE 02	Dissolved	Water	200.8	
280-182134-4	COMPLIANCE 03	Dissolved	Water	200.8	
280-182134-5	CARIBOU WELL	Dissolved	Water	200.8	
280-182134-6	CROSS PORTAL	Dissolved	Water	200.8	
280-182134-7	CARIBOU PORTAL	Dissolved	Water	200.8	
280-182134-8	CARIBOU 02	Dissolved	Water	200.8	
MB 280-631084/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-631084/25-A	Lab Control Sample	Total Recoverable	Water	200.8	
LCS 280-631084/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
280-182134-1 MS	CROSS WELL	Dissolved	Water	200.7	
280-182134-1 MS	CROSS WELL	Dissolved	Water	200.8	
280-182134-1 MSD	CROSS WELL	Dissolved	Water	200.7	
280-182134-1 MSD	CROSS WELL	Dissolved	Water	200.8	

Analysis Batch: 631395

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182134-1	CROSS WELL	Dissolved	Water	200.8	631084
280-182134-2	COMPLIANCE WELL	Dissolved	Water	200.8	631084

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QC Association Summary

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-182134-1

Metals (Continued)

Analysis Batch: 631395 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182134-3	COMPLIANCE 02	Dissolved	Water	200.8	631084
280-182134-4	COMPLIANCE 03	Dissolved	Water	200.8	631084
280-182134-5	CARIBOU WELL	Dissolved	Water	200.8	631084
280-182134-6	CROSS PORTAL	Dissolved	Water	200.8	631084
280-182134-7	CARIBOU PORTAL	Dissolved	Water	200.8	631084
280-182134-8	CARIBOU 02	Dissolved	Water	200.8	631084
MB 280-631084/1-A	Method Blank	Total Recoverable	Water	200.8	631084
LCS 280-631084/25-A	Lab Control Sample	Total Recoverable	Water	200.8	631084
280-182134-1 MS	CROSS WELL	Dissolved	Water	200.8	631084
280-182134-1 MSD	CROSS WELL	Dissolved	Water	200.8	631084

Analysis Batch: 631444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182134-1	CROSS WELL	Dissolved	Water	200.7 Rev 4.4	631084
280-182134-2	COMPLIANCE WELL	Dissolved	Water	200.7 Rev 4.4	631084
280-182134-3	COMPLIANCE 02	Dissolved	Water	200.7 Rev 4.4	631084
280-182134-4	COMPLIANCE 03	Dissolved	Water	200.7 Rev 4.4	631084
280-182134-5	CARIBOU WELL	Dissolved	Water	200.7 Rev 4.4	631084
280-182134-6	CROSS PORTAL	Dissolved	Water	200.7 Rev 4.4	631084
280-182134-7	CARIBOU PORTAL	Dissolved	Water	200.7 Rev 4.4	631084
280-182134-8	CARIBOU 02	Dissolved	Water	200.7 Rev 4.4	631084
MB 280-631084/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	631084
LCS 280-631084/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	631084
280-182134-1 MS	CROSS WELL	Dissolved	Water	200.7 Rev 4.4	631084
280-182134-1 MSD	CROSS WELL	Dissolved	Water	200.7 Rev 4.4	631084

Analysis Batch: 631488

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182134-1	CROSS WELL	Dissolved	Water	200.8	631084
280-182134-2	COMPLIANCE WELL	Dissolved	Water	200.8	631084
280-182134-3	COMPLIANCE 02	Dissolved	Water	200.8	631084
MB 280-631084/1-A	Method Blank	Total Recoverable	Water	200.8	631084
LCS 280-631084/25-A	Lab Control Sample	Total Recoverable	Water	200.8	631084
280-182134-1 MS	CROSS WELL	Dissolved	Water	200.8	631084
280-182134-1 MSD	CROSS WELL	Dissolved	Water	200.8	631084

Analysis Batch: 631555

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182134-4	COMPLIANCE 03	Dissolved	Water	200.8	631084

General Chemistry

Analysis Batch: 627758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182134-1	CROSS WELL	Total/NA	Water	300.0	
280-182134-2	COMPLIANCE WELL	Total/NA	Water	300.0	
280-182134-3	COMPLIANCE 02	Total/NA	Water	300.0	
280-182134-4	COMPLIANCE 03	Total/NA	Water	300.0	
280-182134-5	CARIBOU WELL	Total/NA	Water	300.0	
280-182134-6	CROSS PORTAL	Total/NA	Water	300.0	
280-182134-7	CARIBOU PORTAL	Total/NA	Water	300.0	

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QC Association Summary

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-182134-1

General Chemistry (Continued)

Analysis Batch: 627758 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182134-8	CARIBOU 02	Total/NA	Water	300.0	
MB 280-627758/40	Method Blank	Total/NA	Water	300.0	
LCS 280-627758/38	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-627758/39	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-627758/3	Lab Control Sample	Total/NA	Water	300.0	
280-182134-8 MS	CARIBOU 02	Total/NA	Water	300.0	
280-182134-8 MSD	CARIBOU 02	Total/NA	Water	300.0	
280-182134-8 DU	CARIBOU 02	Total/NA	Water	300.0	

Analysis Batch: 628488

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182134-1	CROSS WELL	Total/NA	Water	SM 4500 Cl- E	
280-182134-2	COMPLIANCE WELL	Total/NA	Water	SM 4500 Cl- E	
280-182134-3	COMPLIANCE 02	Total/NA	Water	SM 4500 Cl- E	
280-182134-4	COMPLIANCE 03	Total/NA	Water	SM 4500 Cl- E	
280-182134-5	CARIBOU WELL	Total/NA	Water	SM 4500 Cl- E	
280-182134-6	CROSS PORTAL	Total/NA	Water	SM 4500 Cl- E	
280-182134-7	CARIBOU PORTAL	Total/NA	Water	SM 4500 Cl- E	
280-182134-8	CARIBOU 02	Total/NA	Water	SM 4500 Cl- E	
MB 280-628488/15	Method Blank	Total/NA	Water	SM 4500 Cl- E	
MB 280-628488/38	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 280-628488/13	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
LCS 280-628488/36	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
LCSD 280-628488/14	Lab Control Sample Dup	Total/NA	Water	SM 4500 Cl- E	
LCSD 280-628488/37	Lab Control Sample Dup	Total/NA	Water	SM 4500 Cl- E	
280-182134-1 MS	CROSS WELL	Total/NA	Water	SM 4500 Cl- E	
280-182134-1 MSD	CROSS WELL	Total/NA	Water	SM 4500 Cl- E	
280-182134-8 MS	CARIBOU 02	Total/NA	Water	SM 4500 Cl- E	
280-182134-8 MSD	CARIBOU 02	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 628495

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182134-1	CROSS WELL	Total/NA	Water	SM 2540C	
280-182134-2	COMPLIANCE WELL	Total/NA	Water	SM 2540C	
280-182134-3	COMPLIANCE 02	Total/NA	Water	SM 2540C	
280-182134-4	COMPLIANCE 03	Total/NA	Water	SM 2540C	
280-182134-5	CARIBOU WELL	Total/NA	Water	SM 2540C	
MB 280-628495/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-628495/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 280-628495/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
280-181946-D-1 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 628496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182134-6	CROSS PORTAL	Total/NA	Water	SM 2540C	
280-182134-7	CARIBOU PORTAL	Total/NA	Water	SM 2540C	
280-182134-8	CARIBOU 02	Total/NA	Water	SM 2540C	
MB 280-628496/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-628496/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 280-628496/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
280-182134-6 DU	CROSS PORTAL	Total/NA	Water	SM 2540C	

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QC Association Summary

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-182134-1

General Chemistry

Analysis Batch: 628532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182134-1	CROSS WELL	Total/NA	Water	SM 4500 SO4 E	
280-182134-2	COMPLIANCE WELL	Total/NA	Water	SM 4500 SO4 E	
280-182134-3	COMPLIANCE 02	Total/NA	Water	SM 4500 SO4 E	
280-182134-4	COMPLIANCE 03	Total/NA	Water	SM 4500 SO4 E	
280-182134-5	CARIBOU WELL	Total/NA	Water	SM 4500 SO4 E	
280-182134-6	CROSS PORTAL	Total/NA	Water	SM 4500 SO4 E	
280-182134-7	CARIBOU PORTAL	Total/NA	Water	SM 4500 SO4 E	
280-182134-8	CARIBOU 02	Total/NA	Water	SM 4500 SO4 E	
MB 280-628532/14	Method Blank	Total/NA	Water	SM 4500 SO4 E	
MB 280-628532/34	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 280-628532/12	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
LCS 280-628532/32	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
LCSD 280-628532/13	Lab Control Sample Dup	Total/NA	Water	SM 4500 SO4 E	
LCSD 280-628532/33	Lab Control Sample Dup	Total/NA	Water	SM 4500 SO4 E	
280-182134-1 MS	CROSS WELL	Total/NA	Water	SM 4500 SO4 E	
280-182134-1 MSD	CROSS WELL	Total/NA	Water	SM 4500 SO4 E	
280-182134-8 MS	CARIBOU 02	Total/NA	Water	SM 4500 SO4 E	
280-182134-8 MSD	CARIBOU 02	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 629381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182134-1	CROSS WELL	Total/NA	Water	SM 4500 CN I	
280-182134-2	COMPLIANCE WELL	Total/NA	Water	SM 4500 CN I	
280-182134-3	COMPLIANCE 02	Total/NA	Water	SM 4500 CN I	
280-182134-4	COMPLIANCE 03	Total/NA	Water	SM 4500 CN I	
280-182134-5	CARIBOU WELL	Total/NA	Water	SM 4500 CN I	
280-182134-6	CROSS PORTAL	Total/NA	Water	SM 4500 CN I	
280-182134-7	CARIBOU PORTAL	Total/NA	Water	SM 4500 CN I	
280-182134-8	CARIBOU 02	Total/NA	Water	SM 4500 CN I	
MB 280-629381/20	Method Blank	Total/NA	Water	SM 4500 CN I	
HLCS 280-629381/19	Lab Control Sample	Total/NA	Water	SM 4500 CN I	
LCS 280-629381/17	Lab Control Sample	Total/NA	Water	SM 4500 CN I	
LLCS 280-629381/18	Lab Control Sample	Total/NA	Water	SM 4500 CN I	
280-182067-I-1 MS	Matrix Spike	Total/NA	Water	SM 4500 CN I	
280-182067-I-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 CN I	

Analysis Batch: 629664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182134-1	CROSS WELL	Total/NA	Water	353.2	
280-182134-2	COMPLIANCE WELL	Total/NA	Water	353.2	
280-182134-3	COMPLIANCE 02	Total/NA	Water	353.2	
280-182134-4	COMPLIANCE 03	Total/NA	Water	353.2	
280-182134-5	CARIBOU WELL	Total/NA	Water	353.2	
280-182134-6	CROSS PORTAL	Total/NA	Water	353.2	
280-182134-7	CARIBOU PORTAL	Total/NA	Water	353.2	
MB 280-629664/104	Method Blank	Total/NA	Water	353.2	
MB 280-629664/22	Method Blank	Total/NA	Water	353.2	
LCS 280-629664/103	Lab Control Sample	Total/NA	Water	353.2	
LCS 280-629664/21	Lab Control Sample	Total/NA	Water	353.2	
280-182709-C-11 MS	Matrix Spike	Total/NA	Water	353.2	
280-182709-C-11 MSD	Matrix Spike Duplicate	Total/NA	Water	353.2	

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QC Association Summary

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-182134-1

General Chemistry

Analysis Batch: 630185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182134-8	CARIBOU 02	Total/NA	Water	353.2	
MB 280-630185/60	Method Blank	Total/NA	Water	353.2	
LCS 280-630185/59	Lab Control Sample	Total/NA	Water	353.2	
580-132638-B-1 MS	Matrix Spike	Total/NA	Water	353.2	
580-132638-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	353.2	

Analysis Batch: 630648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182134-1	CROSS WELL	Total/NA	Water	300.0	
280-182134-2	COMPLIANCE WELL	Total/NA	Water	300.0	
280-182134-3	COMPLIANCE 02	Total/NA	Water	300.0	
280-182134-4	COMPLIANCE 03	Total/NA	Water	300.0	
280-182134-5	CARIBOU WELL	Total/NA	Water	300.0	
280-182134-6	CROSS PORTAL	Total/NA	Water	300.0	
280-182134-7	CARIBOU PORTAL	Total/NA	Water	300.0	
280-182134-8	CARIBOU 02	Total/NA	Water	300.0	
MB 280-630648/56	Method Blank	Total/NA	Water	300.0	
LCS 280-630648/52	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-630648/55	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-630648/3	Lab Control Sample	Total/NA	Water	300.0	
280-182915-C-1 MS	Matrix Spike	Total/NA	Water	300.0	
280-182915-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
280-182915-C-1 DU	Duplicate	Total/NA	Water	300.0	

Rad

Prep Batch: 630525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182134-1	CROSS WELL	Dissolved	Water	Evaporation	
280-182134-2	COMPLIANCE WELL	Dissolved	Water	Evaporation	
280-182134-3	COMPLIANCE 02	Dissolved	Water	Evaporation	
280-182134-4	COMPLIANCE 03	Dissolved	Water	Evaporation	
280-182134-5	CARIBOU WELL	Dissolved	Water	Evaporation	
280-182134-6	CROSS PORTAL	Dissolved	Water	Evaporation	
280-182134-7	CARIBOU PORTAL	Dissolved	Water	Evaporation	
280-182134-8	CARIBOU 02	Dissolved	Water	Evaporation	
MB 160-630525/1-A	Method Blank	Total/NA	Water	Evaporation	
LCS 160-630525/2-A	Lab Control Sample	Total/NA	Water	Evaporation	
LCSB 160-630525/3-B	Lab Control Sample	Total/NA	Water	Evaporation	
180-163079-E-1-C MS	Matrix Spike	Total/NA	Water	Evaporation	
180-163079-E-1-D MSBT	Matrix Spike	Total/NA	Water	Evaporation	
180-163079-E-1-E DU	Duplicate	Total/NA	Water	Evaporation	

Prep Batch: 630719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182134-1	CROSS WELL	Dissolved	Water	Fill_Geo-0	
280-182134-2	COMPLIANCE WELL	Dissolved	Water	Fill_Geo-0	
280-182134-3	COMPLIANCE 02	Dissolved	Water	Fill_Geo-0	
280-182134-4	COMPLIANCE 03	Dissolved	Water	Fill_Geo-0	
280-182134-5	CARIBOU WELL	Dissolved	Water	Fill_Geo-0	
280-182134-6	CROSS PORTAL	Dissolved	Water	Fill_Geo-0	

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QC Association Summary

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-182134-1

Rad (Continued)

Prep Batch: 630719 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182134-7	CARIBOU PORTAL	Dissolved	Water	Fill_Geo-0	
280-182134-8	CARIBOU 02	Dissolved	Water	Fill_Geo-0	
MB 160-630719/1-A	Method Blank	Total/NA	Water	Fill_Geo-0	
LCS 160-630719/2-A	Lab Control Sample	Total/NA	Water	Fill_Geo-0	
280-182134-1 DU	CROSS WELL	Dissolved	Water	Fill_Geo-0	

Lab Chronicle

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-182134-1

Client Sample ID: CROSS WELL

Lab Sample ID: 280-182134-1

Date Collected: 09/28/23 13:00

Matrix: Water

Date Received: 09/28/23 16:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	200.7			50 mL	50 mL	631084	10/26/23 08:55	KMS	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			631444	10/26/23 19:33	BN	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	631084	10/26/23 08:55	KMS	EET DEN
Dissolved	Analysis	200.8		1			631395	10/26/23 18:11	LMT	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	631084	10/26/23 08:55	KMS	EET DEN
Dissolved	Analysis	200.8		10			631488	10/27/23 11:06	LMT	EET DEN
Dissolved	Prep	245.1			30 mL	50 mL	630940	10/24/23 17:06	PFM	EET DEN
Dissolved	Analysis	245.1		1			631064	10/24/23 21:22	PFM	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	627758	09/29/23 01:35	MEC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	630648	10/21/23 16:08	EJS	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	629664	10/12/23 16:22	BCR	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	628495	10/04/23 16:48	SK	EET DEN
Total/NA	Analysis	SM 4500 Cl- E		1	2 mL	2 mL	628488	10/04/23 14:37	SL	EET DEN
Total/NA	Analysis	SM 4500 CN I		1	10 mL	10 mL	629381	10/11/23 12:26	MMP	EET DEN
Total/NA	Analysis	SM 4500 SO4 E		1	2 mL	2 mL	628532	10/04/23 17:00	SL	EET DEN
Dissolved	Prep	Evaporation			199.99 mL	1.0 g	630525	10/03/23 11:14	DQC	EET SL
Dissolved	Analysis	900.0		1			632839	10/20/23 21:35	FLC	EET SL
Dissolved	Prep	Fill_Geo-0			1000 mL	1.0 g	630719	10/04/23 16:49	SEH	EET SL
Dissolved	Analysis	901.1		1			633144	10/24/23 17:09	CAH	EET SL

Client Sample ID: COMPLIANCE WELL

Lab Sample ID: 280-182134-2

Date Collected: 09/28/23 13:30

Matrix: Water

Date Received: 09/28/23 16:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	200.8			50 mL	50 mL	631084	10/26/23 08:55	KMS	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			631444	10/26/23 19:54	BN	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	631084	10/26/23 08:55	KMS	EET DEN
Dissolved	Analysis	200.8		1			631395	10/26/23 18:22	LMT	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	631084	10/26/23 08:55	KMS	EET DEN
Dissolved	Analysis	200.8		1			631488	10/27/23 11:25	LMT	EET DEN
Dissolved	Prep	245.1			30 mL	50 mL	630940	10/24/23 17:06	PFM	EET DEN
Dissolved	Analysis	245.1		1			631064	10/24/23 21:25	PFM	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	627758	09/29/23 01:50	MEC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	630648	10/21/23 15:45	EJS	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	629664	10/12/23 16:24	BCR	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	628495	10/04/23 16:48	SK	EET DEN
Total/NA	Analysis	SM 4500 Cl- E		1	2 mL	2 mL	628488	10/04/23 14:38	SL	EET DEN
Total/NA	Analysis	SM 4500 CN I		1	10 mL	10 mL	629381	10/11/23 12:28	MMP	EET DEN
Total/NA	Analysis	SM 4500 SO4 E		1	2 mL	2 mL	628532	10/04/23 17:01	SL	EET DEN
Dissolved	Prep	Evaporation			200.00 mL	1.0 g	630525	10/03/23 11:14	DQC	EET SL
Dissolved	Analysis	900.0		1			632839	10/20/23 21:35	FLC	EET SL

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Lab Chronicle

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-182134-1

Client Sample ID: COMPLIANCE WELL

Lab Sample ID: 280-182134-2

Date Collected: 09/28/23 13:30

Matrix: Water

Date Received: 09/28/23 16:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	Fill_Geo-0			1000 mL	1.0 g	630719	10/04/23 16:49	SEH	EET SL
Dissolved	Analysis	901.1		1			633142	10/24/23 18:41	CAH	EET SL

Client Sample ID: COMPLIANCE 02

Lab Sample ID: 280-182134-3

Date Collected: 09/28/23 13:30

Matrix: Water

Date Received: 09/28/23 16:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	200.8			50 mL	50 mL	631084	10/26/23 08:55	KMS	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			631444	10/26/23 19:58	BN	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	631084	10/26/23 08:55	KMS	EET DEN
Dissolved	Analysis	200.8		1			631395	10/26/23 18:24	LMT	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	631084	10/26/23 08:55	KMS	EET DEN
Dissolved	Analysis	200.8		1			631488	10/27/23 11:29	LMT	EET DEN
Dissolved	Prep	245.1			30 mL	50 mL	630940	10/24/23 17:06	PFM	EET DEN
Dissolved	Analysis	245.1		1			631064	10/24/23 21:27	PFM	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	627758	09/29/23 02:05	MEC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	630648	10/21/23 15:57	EJS	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	629664	10/12/23 16:26	BCR	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	628495	10/04/23 16:48	SK	EET DEN
Total/NA	Analysis	SM 4500 Cl- E		1	2 mL	2 mL	628488	10/04/23 14:38	SL	EET DEN
Total/NA	Analysis	SM 4500 CN I		1	10 mL	10 mL	629381	10/11/23 12:31	MMP	EET DEN
Total/NA	Analysis	SM 4500 SO4 E		1	2 mL	2 mL	628532	10/04/23 17:01	SL	EET DEN
Dissolved	Prep	Evaporation			200.00 mL	1.0 g	630525	10/03/23 11:14	DQC	EET SL
Dissolved	Analysis	900.0		1	1.0 mL	1.0 mL	632839	10/20/23 21:35	FLC	EET SL
Dissolved	Prep	Fill_Geo-0			1000 mL	1.0 g	630719	10/04/23 16:49	SEH	EET SL
Dissolved	Analysis	901.1		1			633144	10/24/23 18:41	CAH	EET SL

Client Sample ID: COMPLIANCE 03

Lab Sample ID: 280-182134-4

Date Collected: 09/28/23 13:30

Matrix: Water

Date Received: 09/28/23 16:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	200.8			50 mL	50 mL	631084	10/26/23 08:55	KMS	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			631444	10/26/23 20:02	BN	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	631084	10/26/23 08:55	KMS	EET DEN
Dissolved	Analysis	200.8		1			631395	10/26/23 18:27	LMT	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	631084	10/26/23 08:55	KMS	EET DEN
Dissolved	Analysis	200.8		1			631555	10/27/23 15:16	LMT	EET DEN
Dissolved	Prep	245.1			30 mL	50 mL	630940	10/24/23 17:06	PFM	EET DEN
Dissolved	Analysis	245.1		1			631064	10/24/23 21:30	PFM	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	627758	09/29/23 02:20	MEC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	630648	10/21/23 15:34	EJS	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	629664	10/12/23 16:40	BCR	EET DEN

Eurofins Denver

Lab Chronicle

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-182134-1

Client Sample ID: COMPLIANCE 03

Lab Sample ID: 280-182134-4

Date Collected: 09/28/23 13:30

Matrix: Water

Date Received: 09/28/23 16:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	628495	10/04/23 16:48	SK	EET DEN
Total/NA	Analysis	SM 4500 Cl- E		1	2 mL	2 mL	628488	10/04/23 14:38	SL	EET DEN
Total/NA	Analysis	SM 4500 CN I		1	10 mL	10 mL	629381	10/11/23 12:42	MMP	EET DEN
Total/NA	Analysis	SM 4500 SO4 E		1	2 mL	2 mL	628532	10/04/23 17:01	SL	EET DEN
Dissolved	Prep	Evaporation			200.00 mL	1.0 g	630525	10/03/23 11:14	DQC	EET SL
Dissolved	Analysis	900.0		1			632839	10/20/23 21:35	FLC	EET SL
Dissolved	Prep	Fill_Geo-0			1000 mL	1.0 g	630719	10/04/23 16:49	SEH	EET SL
Dissolved	Analysis	901.1		1			633139	10/24/23 19:49	CAH	EET SL

Client Sample ID: CARIBOU WELL

Lab Sample ID: 280-182134-5

Date Collected: 09/28/23 11:30

Matrix: Water

Date Received: 09/28/23 16:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	200.8			50 mL	50 mL	631084	10/26/23 08:55	KMS	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			631444	10/26/23 20:06	BN	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	631084	10/26/23 08:55	KMS	EET DEN
Dissolved	Analysis	200.8		1			631395	10/26/23 18:33	LMT	EET DEN
Dissolved	Prep	245.1			30 mL	50 mL	630940	10/24/23 17:06	PFM	EET DEN
Dissolved	Analysis	245.1		1			631064	10/24/23 21:38	PFM	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	627758	09/29/23 02:35	MEC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	630648	10/21/23 15:23	EJS	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	629664	10/12/23 16:42	BCR	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	628495	10/04/23 16:48	SK	EET DEN
Total/NA	Analysis	SM 4500 Cl- E		1	2 mL	2 mL	628488	10/04/23 14:38	SL	EET DEN
Total/NA	Analysis	SM 4500 CN I		1	10 mL	10 mL	629381	10/11/23 12:44	MMP	EET DEN
Total/NA	Analysis	SM 4500 SO4 E		1	2 mL	2 mL	628532	10/04/23 17:38	SL	EET DEN
Dissolved	Prep	Evaporation			200.01 mL	1.0 g	630525	10/03/23 11:14	DQC	EET SL
Dissolved	Analysis	900.0		1	1.0 mL	1.0 mL	632839	10/20/23 21:35	FLC	EET SL
Dissolved	Prep	Fill_Geo-0			1000 mL	1.0 g	630719	10/04/23 16:49	SEH	EET SL
Dissolved	Analysis	901.1		1			633142	10/24/23 19:49	CAH	EET SL

Client Sample ID: CROSS PORTAL

Lab Sample ID: 280-182134-6

Date Collected: 09/28/23 12:15

Matrix: Water

Date Received: 09/28/23 16:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	200.8			50 mL	50 mL	631084	10/26/23 08:55	KMS	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			631444	10/26/23 20:26	BN	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	631084	10/26/23 08:55	KMS	EET DEN
Dissolved	Analysis	200.8		1			631395	10/26/23 18:36	LMT	EET DEN
Dissolved	Prep	245.1			30 mL	50 mL	630940	10/24/23 17:06	PFM	EET DEN
Dissolved	Analysis	245.1		1			631064	10/24/23 21:40	PFM	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	627758	09/29/23 02:50	MEC	EET DEN

Eurofins Denver

Lab Chronicle

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-182134-1

Client Sample ID: CROSS PORTAL

Lab Sample ID: 280-182134-6

Date Collected: 09/28/23 12:15

Matrix: Water

Date Received: 09/28/23 16:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	10 mL	10 mL	630648	10/21/23 15:11	EJS	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	629664	10/12/23 16:44	BCR	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	628496	10/04/23 16:53	SK	EET DEN
Total/NA	Analysis	SM 4500 CI- E		1	2 mL	2 mL	628488	10/04/23 14:44	SL	EET DEN
Total/NA	Analysis	SM 4500 CN I		1	10 mL	10 mL	629381	10/11/23 12:47	MMP	EET DEN
Total/NA	Analysis	SM 4500 SO4 E		1	2 mL	2 mL	628532	10/04/23 17:02	SL	EET DEN
Dissolved	Prep	Evaporation			200.01 mL	1.0 g	630525	10/03/23 11:14	DQC	EET SL
Dissolved	Analysis	900.0		1			632839	10/20/23 21:35	FLC	EET SL
Dissolved	Prep	Fill_Geo-0			1000 mL	1.0 g	630719	10/04/23 16:49	SEH	EET SL
Dissolved	Analysis	901.1		1			633144	10/24/23 19:49	CAH	EET SL

Client Sample ID: CARIBOU PORTAL

Lab Sample ID: 280-182134-7

Date Collected: 09/28/23 11:15

Matrix: Water

Date Received: 09/28/23 16:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	200.8			50 mL	50 mL	631084	10/26/23 08:55	KMS	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			631444	10/26/23 20:30	BN	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	631084	10/26/23 08:55	KMS	EET DEN
Dissolved	Analysis	200.8		1			631395	10/26/23 18:38	LMT	EET DEN
Dissolved	Prep	245.1			30 mL	50 mL	630940	10/24/23 17:06	PFM	EET DEN
Dissolved	Analysis	245.1		1			631064	10/24/23 21:43	PFM	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	627758	09/29/23 03:05	MEC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	630648	10/21/23 15:00	EJS	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	629664	10/12/23 16:46	BCR	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	628496	10/04/23 16:53	SK	EET DEN
Total/NA	Analysis	SM 4500 CI- E		1	2 mL	2 mL	628488	10/04/23 14:44	SL	EET DEN
Total/NA	Analysis	SM 4500 CN I		1	10 mL	10 mL	629381	10/11/23 12:50	MMP	EET DEN
Total/NA	Analysis	SM 4500 SO4 E		1	2 mL	2 mL	628532	10/04/23 17:02	SL	EET DEN
Dissolved	Prep	Evaporation			200.00 mL	1.0 g	630525	10/03/23 11:14	DQC	EET SL
Dissolved	Analysis	900.0		1	1.0 mL	1.0 mL	632839	10/20/23 21:35	FLC	EET SL
Dissolved	Prep	Fill_Geo-0			1000 mL	1.0 g	630719	10/04/23 16:49	SEH	EET SL
Dissolved	Analysis	901.1		1			633139	10/24/23 21:02	CAH	EET SL

Client Sample ID: CARIBOU 02

Lab Sample ID: 280-182134-8

Date Collected: 09/28/23 11:15

Matrix: Water

Date Received: 09/28/23 16:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	200.8			50 mL	50 mL	631084	10/26/23 08:55	KMS	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			631444	10/26/23 20:34	BN	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	631084	10/26/23 08:55	KMS	EET DEN
Dissolved	Analysis	200.8		1			631395	10/26/23 18:40	LMT	EET DEN

Eurofins Denver

Lab Chronicle

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-182134-1

Client Sample ID: CARIBOU 02

Lab Sample ID: 280-182134-8

Date Collected: 09/28/23 11:15

Matrix: Water

Date Received: 09/28/23 16:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	245.1			30 mL	50 mL	630940	10/24/23 17:06	PFM	EET DEN
Dissolved	Analysis	245.1		1			631064	10/24/23 21:45	PFM	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	627758	09/29/23 03:20	MEC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	630648	10/21/23 14:26	EJS	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	630185	10/17/23 14:40	BCR	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	628496	10/04/23 16:53	SK	EET DEN
Total/NA	Analysis	SM 4500 Cl- E		1	2 mL	2 mL	628488	10/04/23 14:42	SL	EET DEN
Total/NA	Analysis	SM 4500 CN I		1	10 mL	10 mL	629381	10/11/23 12:53	MMP	EET DEN
Total/NA	Analysis	SM 4500 SO4 E		1	2 mL	2 mL	628532	10/04/23 17:07	SL	EET DEN
Dissolved	Prep	Evaporation			200.00 mL	1.0 g	630525	10/03/23 11:14	DQC	EET SL
Dissolved	Analysis	900.0		1			632839	10/20/23 21:35	FLC	EET SL
Dissolved	Prep	Fill_Geo-0			1000 mL	1.0 g	630719	10/04/23 16:49	SEH	EET SL
Dissolved	Analysis	901.1		1			633142	10/24/23 21:02	CAH	EET SL

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Accreditation/Certification Summary

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-182134-1

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	12-20-23
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	06-30-24
Georgia	State	4025-011	01-08-24
Illinois	NELAP	2000172019-1	04-30-24
Iowa	State	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	06-30-24
Minnesota	NELAP	1788752	12-31-23
Nevada	State	CO000262020-1	07-31-24
New Hampshire	NELAP	2053	04-28-24
New Jersey	NELAP	230001	06-30-24
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	08-31-24
Oregon	NELAP	4025-019	01-08-24
Pennsylvania	NELAP	013	07-31-24
South Carolina	State	72002001	01-08-24
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	09-30-24
USDA	US Federal Programs	P330-20-00065	12-19-25
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-24
Virginia	NELAP	460232	06-14-24
Washington	State	C583	08-03-24
West Virginia DEP	State	354	11-30-23
Wisconsin	State	999615430	08-31-24
Wyoming (UST)	A2LA	2907.01	10-31-22 *

Laboratory: Eurofins St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-25
ANAB	Dept. of Defense ELAP	L2305	04-06-25
ANAB	Dept. of Energy	L2305.01	04-06-25
ANAB	ISO/IEC 17025	L2305	04-06-25
Arizona	State	AZ0813	12-08-23
California	Los Angeles County Sanitation Districts	10259	06-30-22 *
California	State	2886	06-30-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Denver

Accreditation/Certification Summary

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-182134-1

Laboratory: Eurofins St. Louis (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
Connecticut	State	PH-0241	03-31-25
Florida	NELAP	E87689	06-30-24
HI - RadChem Recognition	State	n/a	06-30-24
Illinois	NELAP	200023	11-30-23
Iowa	State	373	12-01-24
Kansas	NELAP	E-10236	10-31-23
Kentucky (DW)	State	KY90125	12-31-23
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-23
Louisiana	NELAP	04080	06-30-22 *
Louisiana (All)	NELAP	04080	06-30-24
Louisiana (DW)	State	LA011	12-31-23
Maryland	State	310	09-30-24
Massachusetts	State	M-MO054	06-30-24
MI - RadChem Recognition	State	9005	06-30-24
Missouri	State	780	06-30-25
Nevada	State	MO000542020-1	07-31-24
New Jersey	NELAP	MO002	06-30-24
New Mexico	State	MO00054	06-30-24
New York	NELAP	11616	03-31-24
North Carolina (DW)	State	29700	07-31-24
North Dakota	State	R-207	06-30-24
Oklahoma	NELAP	9997	08-31-24
Oregon	NELAP	4157	09-01-24
Pennsylvania	NELAP	68-00540	02-28-24
South Carolina	State	85002001	06-30-24
Texas	NELAP	T104704193	07-31-24
US Fish & Wildlife	US Federal Programs	058448	07-31-24
USDA	US Federal Programs	P330-17-00028	05-18-26
Utah	NELAP	MO000542021-14	07-31-24
Virginia	NELAP	10310	06-15-25
Washington	State	C592	08-30-24
West Virginia DEP	State	381	10-31-23

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Denver

Ver: 01/16/2019

Eurofins Denver

4955 Yarrow Street

Arvada, CO 80002

Phone: 303-736-0100 Fax: 303-431-7171

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	COC No:
Client Contact		Bienuilis, Dylan T			280-674005.1
Shipping/Receiving		Phone	E-Mail	State of Origin	Page
Company			Dylan.Bienuilis@et.eurofins.com	Colorado	Page 1 of 1
TestAmerica Laboratories, Inc.		Accreditations Required (See note)			
Address		280-182134-1			
City		Analysis Requested			
State, Zip		Preservation Codes:			
MO, 63045		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)			
Phone		Other:			
Email					
Project Name					
Nederland, CO - Groundwater					
Site					
SSOW#					
Due Date Requested:		10/30/2023			
TAT Requested (days):					
PO #					
WO #					
Project #		28025589			
Sample Date		9/28/23			
Sample Time		13:00			
Sample Type (C=comp, G=grab)		Water			
Matrix (W=water, S=solid, O=water, A=air)		Water			
Field Filtered Sample (Yes or No)		X			
Perform MS/MSD (Yes or No)		X			
901.1 Cs/FIELD, FLTRD (MOD) Cesium-137 only		X			
900.0/FIELD, FLTRD Standard Target List		X			
Total Number of containers		2			
Special Instructions/Note:					
CROSS WELL (280-182134-1)		2			
COMPLIANCE WELL (280-182134-2)		2			
COMPLIANCE 02 (280-182134-3)		2			
COMPLIANCE 03 (280-182134-4)		2			
CARIBOU WELL (280-182134-5)		2			
CROSS PORTAL (280-182134-6)		2			
CARIBOU PORTAL (280-182134-7)		2			
CARIBOU 02 (280-182134-8)		2			
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/test/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					
Unconfirmed					
Deliverable Requested: I, II, III, IV, Other (specify)					
Primary Deliverable Rank: 2					
Empty Kit Relinquished by:					
Date:					
Time:					
Relinquished by:					
Date/Time:					
Relinquished by:					
Date/Time:					
Relinquished by:					
Date/Time:					
Custody Seals Intact:					
Custody Seal No.:					
Cooler Temperature(s) °C and Other Remarks					
Received by:					
Date/Time:					
Received by:					
Date/Time:					
Received by:					
Date/Time:					
Special Instructions/QC Requirements:					
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
Return To Client					
Disposal By Lab					
Archive For					
Months					

Login Sample Receipt Checklist

Client: Grand Island Resources

Job Number: 280-182134-1

Login Number: 182134

List Number: 1

Creator: Rystrom, Joshua R

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	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	Received same day of collection; chilling process has begun.
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 $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Grand Island Resources

Job Number: 280-182134-1

Login Number: 182134

List Number: 2

Creator: Pinette, Meadow L

List Source: Eurofins St. Louis

List Creation: 10/02/23 02:05 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	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.	N/A	
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.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

APPENDIX B OUTFALL-001 ANALYTICAL RESULTS

ANALYTICAL REPORT

PREPARED FOR

Attn: Brooke Molson Moran
Grand Island Resources
12567 West Cedar Road
Suite 250
Lakewood, Colorado 80228

Generated 7/27/2023 5:04:52 PM

JOB DESCRIPTION

Nederland, CO

JOB NUMBER

280-179066-1

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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7/27/2023 5:04:52 PM

Authorized for release by
Dylan Bieniulis, Project Manager I
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Definitions/Glossary

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-179066-1

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

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.
□	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

Case Narrative

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-179066-1

Job ID: 280-179066-1

Laboratory: Eurofins Denver

Narrative

CASE NARRATIVE

Client: Grand Island Resources

Project: Nederland, CO

Report Number: 280-179066-1

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 07/14/2023; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 4.3 C.

TOTAL RECOVERABLE METALS (ICP)

Sample OUTFALL-001 (280-179066-1) was analyzed for Total Recoverable Metals (ICP) in accordance with EPA Method 200.7. The samples were prepared on 07/19/2023 and analyzed on 07/20/2023.

Iron was detected in method blank MB 280-619800/1-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 (280-179066-1) was analyzed for potentially dissolved metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared and analyzed on 07/19/2023.

Manganese and Zinc were detected in method blank MB 280-613705/1-D 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 (280-179066-1) was analyzed for total recoverable metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared on 07/19/2023 and analyzed on 07/21/2023.

Chromium was detected in method blank MB 280-619800/1-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.

Case Narrative

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-179066-1

Job ID: 280-179066-1 (Continued)

Laboratory: Eurofins Denver (Continued)

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 (280-179066-1) was analyzed for total mercury (CVAA) in accordance with EPA Method 245.1. The samples were prepared and analyzed on 07/20/2023.

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 (280-179066-1) was analyzed for Trivalent Chromium - Potentially Dissolved in accordance with SM3500_CR3_B. The samples were analyzed on 07/26/2023.

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 (280-179066-1) was analyzed for Trivalent Chromium - Total Recoverable in accordance with SM3500_CR3_B. The samples were analyzed on 07/26/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SPECIFIC CONDUCTIVITY

Sample OUTFALL-001 (280-179066-1) was analyzed for specific conductivity in accordance with SM20 2510B. The samples were analyzed on 07/26/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL SUSPENDED SOLIDS

Sample OUTFALL-001 (280-179066-1) was analyzed for total suspended solids in accordance with SM20 2540D. The samples were analyzed on 07/20/2023.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED HEXAVALENT CHROMIUM

Sample OUTFALL-001 (280-179066-1) was analyzed for dissolved hexavalent chromium in accordance with SM 3500 CR B. The samples were analyzed on 07/14/2023.

Reanalysis of the following samples were performed outside of the analytical holding time due to missing QC (initial calibration blank) in the original analysis batch. Sample results confirmed between the in-hold and out-of hold batches. Data has been reported from the in-hold analysis batch. It can be noted that the batch method blanks were non-detect and were run before sample OUTFALL-001 (280-179066-1). The impacted sample is OUTFALL-001 (280-179066-1).

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HEXAVALENT CHROMIUM

Sample OUTFALL-001 (280-179066-1) was analyzed for hexavalent chromium in accordance with 3500_CR_B. The samples were analyzed on 07/14/2023.

Reanalysis of the following samples were performed outside of the analytical holding time due to missing QC (initial calibration blank) in the original analysis batch. Sample results confirmed between the in-hold and out-of hold batches. Data has been reported from the in-hold analysis batch. It can be noted that the batch method blanks were non-detect and were run before sample OUTFALL-001 (280-179066-1). The impacted sample is OUTFALL-001 (280-179066-1).

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Case Narrative

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-179066-1

Job ID: 280-179066-1 (Continued)

Laboratory: Eurofins Denver (Continued)

CORROSIVITY (PH)

Sample UTFALL-001 (280-179066-1) was analyzed for corrosivity (pH) in accordance with SM20 4500 H+ B. The samples were analyzed on 07/25/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SULFIDE

Sample UTFALL-001 (280-179066-1) was analyzed for sulfide in accordance with SM20 4500 S2 D. The samples were analyzed on 07/17/2023.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HYDROGEN SULFIDE

Sample UTFALL-001 (280-179066-1) was analyzed for Hydrogen Sulfide in accordance with SM20 4500 S2 H. The samples were analyzed on 07/18/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

LOW LEVEL MERCURY

Sample UTFALL-001 (280-179066-1) was analyzed for Low Level Mercury in accordance with EPA 1631. The samples were prepared on 07/18/2023 and analyzed on 07/20/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-179066-1

Client Sample ID: OUTFALL-001

Lab Sample ID: 280-179066-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	4.6		0.50	0.20	ng/L	1		1631E	Total/NA
Iron	22	J B	100	9.1	ug/L	1		200.7 Rev 4.4	Total Recoverable
Chromium	0.64	J B	3.0	0.50	ug/L	1		200.8	Total Recoverable
Copper	1.3	J	2.0	0.71	ug/L	1		200.8	Total Recoverable
Lead	0.83	J	1.0	0.23	ug/L	1		200.8	Total Recoverable
Zinc	11		10	2.0	ug/L	1		200.8	Total Recoverable
Lead	0.74	J	1.0	0.23	ug/L	1		200.8	Potentially Dissolved
Zinc	17	B	10	2.0	ug/L	1		200.8	Potentially Dissolved
Specific Conductance	180		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	23.2	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	23		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.

Eurofins Denver

Method Summary

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-179066-1

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: 280-179066-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-179066-1	OUTFALL-001	Water	07/14/23 10:00	07/14/23 16:00

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Client Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-179066-1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Client Sample ID: OUTFALL-001
Date Collected: 07/14/23 10:00
Date Received: 07/14/23 16:00

Lab Sample ID: 280-179066-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	4.6		0.50	0.20	ng/L		07/18/23 14:15	07/20/23 12:06	1

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Client Sample ID: OUTFALL-001
Date Collected: 07/14/23 10:00
Date Received: 07/14/23 16:00

Lab Sample ID: 280-179066-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	22	J B	100	9.1	ug/L		07/19/23 07:57	07/20/23 02:27	1

Method: EPA 200.8 - Metals (ICP/MS) - Total Recoverable

Client Sample ID: OUTFALL-001
Date Collected: 07/14/23 10:00
Date Received: 07/14/23 16:00

Lab Sample ID: 280-179066-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		07/19/23 07:57	07/21/23 04:47	1
Cadmium	ND		1.0	0.19	ug/L		07/19/23 07:57	07/21/23 04:47	1
Chromium	0.64	J B	3.0	0.50	ug/L		07/19/23 07:57	07/21/23 04:47	1
Copper	1.3	J	2.0	0.71	ug/L		07/19/23 07:57	07/21/23 18:55	1
Lead	0.83	J	1.0	0.23	ug/L		07/19/23 07:57	07/21/23 04:47	1
Zinc	11		10	2.0	ug/L		07/19/23 07:57	07/21/23 04:47	1

Method: EPA 200.8 - Metals (ICP/MS) - Potentially Dissolved

Client Sample ID: OUTFALL-001
Date Collected: 07/14/23 10:00
Date Received: 07/14/23 16:00

Lab Sample ID: 280-179066-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		07/19/23 07:57	07/19/23 22:51	1
Cadmium	ND		1.0	0.19	ug/L		07/19/23 07:57	07/19/23 22:51	1
Chromium	ND		3.0	0.50	ug/L		07/19/23 07:57	07/19/23 22:51	1
Copper	ND		2.0	0.71	ug/L		07/19/23 07:57	07/19/23 22:51	1
Lead	0.74	J	1.0	0.23	ug/L		07/19/23 07:57	07/19/23 22:51	1
Manganese	ND		3.0	0.51	ug/L		07/19/23 07:57	07/19/23 22:51	1
Nickel	ND		3.0	0.83	ug/L		07/19/23 07:57	07/19/23 22:51	1
Selenium	ND		5.0	1.0	ug/L		07/19/23 07:57	07/19/23 22:51	1
Silver	ND		0.50	0.045	ug/L		07/19/23 07:57	07/19/23 22:51	1
Zinc	17	B	10	2.0	ug/L		07/19/23 07:57	07/19/23 22:51	1

Method: EPA 245.1 - Mercury (CVAA)

Client Sample ID: OUTFALL-001
Date Collected: 07/14/23 10:00
Date Received: 07/14/23 16:00

Lab Sample ID: 280-179066-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.061	ug/L		07/20/23 13:14	07/20/23 17:12	1

Eurofins Denver

Client Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-179066-1

General Chemistry

Client Sample ID: OUTFALL-001
Date Collected: 07/14/23 10:00
Date Received: 07/14/23 16:00

Lab Sample ID: 280-179066-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (SM 2510B)	180		2.0	2.0	umhos/cm			07/26/23 09:33	1
Total Suspended Solids (SM 2540D)	ND		4.0	1.1	mg/L			07/20/23 16:02	1
Chromium, hexavalent (SM 3500 CR B)	ND		0.020	0.0040	mg/L			07/14/23 19:35	1
pH adj. to 25 deg C (SM 4500 H+ B)	7.7	HF	0.1	0.1	SU			07/25/23 16:06	1
Temperature (SM 4500 H+ B)	23.2	HF	1.0	1.0	Degrees C			07/25/23 16:06	1
Sulfide (SM 4500 S2 D)	ND		0.050	0.022	mg/L			07/17/23 16:31	1
Un-ionized Hydrogen Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			07/18/23 09:22	1
Field pH (SM4500 S2 H)	7.7		1.0	1.0	SU			07/18/23 09:22	1
Field Temperature (SM4500 S2 H)	23		1.0	1.0	Celsius			07/18/23 09:22	1
Specific Conductance (SM4500 S2 H)	180		2.0	2.0	umhos/cm			07/18/23 09:22	1
Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			07/18/23 09:22	1

General Chemistry - Total Recoverable

Client Sample ID: OUTFALL-001
Date Collected: 07/14/23 10:00
Date Received: 07/14/23 16:00

Lab Sample ID: 280-179066-1
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			07/26/23 17:45	1

General Chemistry - Dissolved

Client Sample ID: OUTFALL-001
Date Collected: 07/14/23 10:00
Date Received: 07/14/23 16:00

Lab Sample ID: 280-179066-1
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			07/14/23 19:04	1

General Chemistry - Potentially Dissolved

Client Sample ID: OUTFALL-001
Date Collected: 07/14/23 10:00
Date Received: 07/14/23 16:00

Lab Sample ID: 280-179066-1
Matrix: 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			07/26/23 17:45	1

QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-179066-1

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 400-633882/3-A

Matrix: Water

Analysis Batch: 633976

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 633882

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.50	0.20	ng/L		07/19/23 16:00	07/20/23 09:51	1

Lab Sample ID: LCS 400-633882/4-A

Matrix: Water

Analysis Batch: 633976

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 633882

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	4.75		ng/L		95	79 - 121

Lab Sample ID: LCSD 400-633882/5-A

Matrix: Water

Analysis Batch: 633976

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 633882

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Mercury	5.00	4.45		ng/L		89	79 - 121	6	20

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 280-619800/1-A

Matrix: Water

Analysis Batch: 620139

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 619800

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	10.3	J	100	9.1	ug/L		07/19/23 07:57	07/20/23 00:57	1

Lab Sample ID: LCS 280-619800/2-A

Matrix: Water

Analysis Batch: 620139

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 619800

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	10000	9910		ug/L		99	85 - 115

Lab Sample ID: LCSD 280-619800/3-A

Matrix: Water

Analysis Batch: 620139

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 619800

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Iron	10000	9920		ug/L		99	85 - 115	0	20

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 280-619800/1-A

Matrix: Water

Analysis Batch: 620314

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 619800

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		07/19/23 07:57	07/21/23 03:35	1
Cadmium	ND		1.0	0.19	ug/L		07/19/23 07:57	07/21/23 03:35	1
Chromium	0.805	J	3.0	0.50	ug/L		07/19/23 07:57	07/21/23 03:35	1
Lead	ND		1.0	0.23	ug/L		07/19/23 07:57	07/21/23 03:35	1

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QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-179066-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 280-619800/1-A
Matrix: Water
Analysis Batch: 620314

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 619800

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		10	2.0	ug/L		07/19/23 07:57	07/21/23 03:35	1

Lab Sample ID: MB 280-619800/1-A
Matrix: Water
Analysis Batch: 620428

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 619800

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		2.0	0.71	ug/L		07/19/23 07:57	07/21/23 18:40	1

Lab Sample ID: LCS 280-619800/27-A
Matrix: Water
Analysis Batch: 620314

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 619800

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	40.0	40.0		ug/L		100	89 - 111
Cadmium	40.0	39.3		ug/L		98	89 - 111
Chromium	40.0	39.8		ug/L		100	86 - 115
Lead	40.0	40.6		ug/L		102	88 - 115
Zinc	40.0	40.1		ug/L		100	88 - 115

Lab Sample ID: LCS 280-619800/27-A
Matrix: Water
Analysis Batch: 620428

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 619800

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Copper	40.0	41.8		ug/L		105	90 - 115

Lab Sample ID: LCSD 280-619800/28-A
Matrix: Water
Analysis Batch: 620314

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 619800

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	40.0	39.8		ug/L		100	89 - 111	0	20
Cadmium	40.0	39.9		ug/L		100	89 - 111	2	20
Chromium	40.0	39.5		ug/L		99	86 - 115	1	20
Lead	40.0	41.4		ug/L		104	88 - 115	2	20
Zinc	40.0	37.7		ug/L		94	88 - 115	6	20

Lab Sample ID: LCSD 280-619800/28-A
Matrix: Water
Analysis Batch: 620431

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 619800

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Copper	40.0	41.7		ug/L		104	90 - 115	0	20

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QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-179066-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 280-613705/1-D

Matrix: Water

Analysis Batch: 620150

Client Sample ID: Method Blank

Prep Type: Potentially Dissolved

Prep Batch: 619930

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		07/19/23 07:57	07/19/23 22:19	1
Cadmium	ND		1.0	0.19	ug/L		07/19/23 07:57	07/19/23 22:19	1
Chromium	ND		3.0	0.50	ug/L		07/19/23 07:57	07/19/23 22:19	1
Copper	ND		2.0	0.71	ug/L		07/19/23 07:57	07/19/23 22:19	1
Lead	ND		1.0	0.23	ug/L		07/19/23 07:57	07/19/23 22:19	1
Manganese	0.789	J	3.0	0.51	ug/L		07/19/23 07:57	07/19/23 22:19	1
Nickel	ND		3.0	0.83	ug/L		07/19/23 07:57	07/19/23 22:19	1
Selenium	ND		5.0	1.0	ug/L		07/19/23 07:57	07/19/23 22:19	1
Silver	ND		0.50	0.045	ug/L		07/19/23 07:57	07/19/23 22:19	1
Zinc	3.89	J	10	2.0	ug/L		07/19/23 07:57	07/19/23 22:19	1

Lab Sample ID: LCS 280-613705/2-F

Matrix: Water

Analysis Batch: 620150

Client Sample ID: Lab Control Sample

Prep Type: Potentially Dissolved

Prep Batch: 619930

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	40.0	37.4		ug/L		94	89 - 111
Cadmium	40.0	40.4		ug/L		101	89 - 111
Chromium	40.0	38.5		ug/L		96	86 - 115
Copper	40.0	37.6		ug/L		94	90 - 115
Lead	40.0	39.2		ug/L		98	88 - 115
Manganese	40.0	37.6		ug/L		94	87 - 115
Nickel	40.0	37.9		ug/L		95	86 - 115
Selenium	40.0	37.8		ug/L		94	85 - 114
Silver	40.0	38.5		ug/L		96	90 - 114
Zinc	40.0	38.6		ug/L		97	88 - 115

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 280-620096/1-A

Matrix: Water

Analysis Batch: 620351

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 620096

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.061	ug/L		07/20/23 13:14	07/20/23 16:29	1

Lab Sample ID: LCS 280-620096/2-A

Matrix: Water

Analysis Batch: 620351

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 620096

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	4.98		ug/L		100	90 - 110

Lab Sample ID: LCSD 280-620096/3-A

Matrix: Water

Analysis Batch: 620351

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 620096

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	5.00	5.06		ug/L		101	90 - 110	1	10

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QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-179066-1

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: MB 280-620778/31
Matrix: Water
Analysis Batch: 620778

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	ND		2.0	2.0	umhos/cm			07/26/23 09:33	1

Lab Sample ID: LCS 280-620778/30
Matrix: Water
Analysis Batch: 620778

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Specific Conductance	1410	1310		umhos/cm		93	90 - 110

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 280-620255/1
Matrix: Water
Analysis Batch: 620255

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	1.1	mg/L			07/20/23 16:02	1

Lab Sample ID: LCS 280-620255/2
Matrix: Water
Analysis Batch: 620255

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	504	400		mg/L		79	79 - 114

Lab Sample ID: LCSD 280-620255/3
Matrix: Water
Analysis Batch: 620255

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Suspended Solids	504	472		mg/L		94	79 - 114	16	20

Method: SM 3500 CR B - Chromium, Hexavalent

Lab Sample ID: MB 280-619675/18
Matrix: Water
Analysis Batch: 619675

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		0.020	0.0040	mg/L			07/14/23 19:33	1

Lab Sample ID: LCS 280-619675/16
Matrix: Water
Analysis Batch: 619675

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium, hexavalent	0.100	0.102		mg/L		102	91 - 112

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QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-179066-1

Method: SM 3500 CR B - Chromium, Hexavalent (Continued)

Lab Sample ID: LCSD 280-619675/17

Matrix: Water

Analysis Batch: 619675

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chromium, hexavalent	0.100	0.102		mg/L		102	91 - 112	0	20

Lab Sample ID: 280-179066-1 MS

Matrix: Water

Analysis Batch: 619675

Client Sample ID: OUTFALL-001

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chromium, hexavalent	ND		0.100	0.104		mg/L		104	91 - 112		

Lab Sample ID: 280-179066-1 MSD

Matrix: Water

Analysis Batch: 619675

Client Sample ID: OUTFALL-001

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chromium, hexavalent	ND		0.100	0.104		mg/L		104	91 - 112	0	20

Lab Sample ID: 280-179066-1 DU

Matrix: Water

Analysis Batch: 619675

Client Sample ID: OUTFALL-001

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chromium, hexavalent	ND		ND		mg/L		NC	20

Lab Sample ID: MB 280-619668/3-A

Matrix: Water

Analysis Batch: 619675

Client Sample ID: Method Blank

Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		0.020	0.0040	mg/L			07/14/23 19:03	1

Lab Sample ID: LCS 280-619668/1-A

Matrix: Water

Analysis Batch: 619675

Client Sample ID: Lab Control Sample

Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chromium, hexavalent	0.100	0.0987		mg/L		99	91 - 112		

Lab Sample ID: LCSD 280-619668/2-A

Matrix: Water

Analysis Batch: 619675

Client Sample ID: Lab Control Sample Dup

Prep Type: Dissolved

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chromium, hexavalent	0.100	0.0986		mg/L		99	91 - 112	0	20

Lab Sample ID: 280-179066-1 MS

Matrix: Water

Analysis Batch: 619675

Client Sample ID: OUTFALL-001

Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chromium, hexavalent	ND		0.100	0.100		mg/L		100	91 - 112		

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QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-179066-1

Method: SM 3500 CR B - Chromium, Hexavalent

Lab Sample ID: 280-179066-1 MSD

Matrix: Water

Analysis Batch: 619675

Client Sample ID: OUTFALL-001

Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chromium, hexavalent	ND		0.100	0.100		mg/L		100	91 - 112	0	20

Lab Sample ID: 280-179066-1 DU

Matrix: Water

Analysis Batch: 619675

Client Sample ID: OUTFALL-001

Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chromium, hexavalent	ND		ND		mg/L		NC	20

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 280-620840/5

Matrix: Water

Analysis Batch: 620840

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%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 280-619819/11

Matrix: Water

Analysis Batch: 619819

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		0.050	0.022	mg/L			07/17/23 16:11	1

Lab Sample ID: MB 280-619819/42

Matrix: Water

Analysis Batch: 619819

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		0.050	0.022	mg/L			07/17/23 16:25	1

Lab Sample ID: LCS 280-619819/40

Matrix: Water

Analysis Batch: 619819

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	0.501	0.520		mg/L		104	81 - 122

Lab Sample ID: LCSD 280-619819/41

Matrix: Water

Analysis Batch: 619819

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	0.501	0.523		mg/L		104	81 - 122	1	10

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QC Association Summary

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-179066-1

Metals

Filtration Batch: 613705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-613705/1-D	Method Blank	Potentially Dissolved	Water	FILTRATION	
LCS 280-613705/2-F	Lab Control Sample	Potentially Dissolved	Water	FILTRATION	

Filtration Batch: 619692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179066-1	OUTFALL-001	Potentially Dissolved	Water	Poten_Diss_Met	

Prep Batch: 619800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179066-1	OUTFALL-001	Total Recoverable	Water	200.8	
MB 280-619800/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-619800/27-A	Lab Control Sample	Total Recoverable	Water	200.8	
LCS 280-619800/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
LCSD 280-619800/28-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	
LCSD 280-619800/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	

Prep Batch: 619930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179066-1	OUTFALL-001	Potentially Dissolved	Water	200.8	619692
MB 280-613705/1-D	Method Blank	Potentially Dissolved	Water	200.8	613705
LCS 280-613705/2-F	Lab Control Sample	Potentially Dissolved	Water	200.8	613705

Prep Batch: 620096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179066-1	OUTFALL-001	Total/NA	Water	245.1	
MB 280-620096/1-A	Method Blank	Total/NA	Water	245.1	
LCS 280-620096/2-A	Lab Control Sample	Total/NA	Water	245.1	
LCSD 280-620096/3-A	Lab Control Sample Dup	Total/NA	Water	245.1	

Analysis Batch: 620139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179066-1	OUTFALL-001	Total Recoverable	Water	200.7 Rev 4.4	619800
MB 280-619800/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	619800
LCS 280-619800/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	619800
LCSD 280-619800/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	619800

Analysis Batch: 620150

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179066-1	OUTFALL-001	Potentially Dissolved	Water	200.8	619930
MB 280-613705/1-D	Method Blank	Potentially Dissolved	Water	200.8	619930
LCS 280-613705/2-F	Lab Control Sample	Potentially Dissolved	Water	200.8	619930

Analysis Batch: 620314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179066-1	OUTFALL-001	Total Recoverable	Water	200.8	619800
MB 280-619800/1-A	Method Blank	Total Recoverable	Water	200.8	619800
LCS 280-619800/27-A	Lab Control Sample	Total Recoverable	Water	200.8	619800
LCSD 280-619800/28-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	619800

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QC Association Summary

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-179066-1

Metals

Analysis Batch: 620351

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179066-1	OUTFALL-001	Total/NA	Water	245.1	620096
MB 280-620096/1-A	Method Blank	Total/NA	Water	245.1	620096
LCS 280-620096/2-A	Lab Control Sample	Total/NA	Water	245.1	620096
LCSD 280-620096/3-A	Lab Control Sample Dup	Total/NA	Water	245.1	620096

Analysis Batch: 620428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179066-1	OUTFALL-001	Total Recoverable	Water	200.8	619800
MB 280-619800/1-A	Method Blank	Total Recoverable	Water	200.8	619800
LCS 280-619800/27-A	Lab Control Sample	Total Recoverable	Water	200.8	619800

Analysis Batch: 620431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 280-619800/28-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	619800

Prep Batch: 633882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179066-1	OUTFALL-001	Total/NA	Water	1631E	
MB 400-633882/3-A	Method Blank	Total/NA	Water	1631E	
LCS 400-633882/4-A	Lab Control Sample	Total/NA	Water	1631E	
LCSD 400-633882/5-A	Lab Control Sample Dup	Total/NA	Water	1631E	

Analysis Batch: 633976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179066-1	OUTFALL-001	Total/NA	Water	1631E	633882
MB 400-633882/3-A	Method Blank	Total/NA	Water	1631E	633882
LCS 400-633882/4-A	Lab Control Sample	Total/NA	Water	1631E	633882
LCSD 400-633882/5-A	Lab Control Sample Dup	Total/NA	Water	1631E	633882

General Chemistry

Filtration Batch: 619668

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179066-1	OUTFALL-001	Dissolved	Water	FILTRATION	
MB 280-619668/3-A	Method Blank	Dissolved	Water	FILTRATION	
LCS 280-619668/1-A	Lab Control Sample	Dissolved	Water	FILTRATION	
LCSD 280-619668/2-A	Lab Control Sample Dup	Dissolved	Water	FILTRATION	
280-179066-1 MS	OUTFALL-001	Dissolved	Water	FILTRATION	
280-179066-1 MSD	OUTFALL-001	Dissolved	Water	FILTRATION	
280-179066-1 DU	OUTFALL-001	Dissolved	Water	FILTRATION	

Analysis Batch: 619675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179066-1	OUTFALL-001	Dissolved	Water	SM 3500 CR B	619668
280-179066-1	OUTFALL-001	Total/NA	Water	SM 3500 CR B	
MB 280-619668/3-A	Method Blank	Dissolved	Water	SM 3500 CR B	619668
MB 280-619675/18	Method Blank	Total/NA	Water	SM 3500 CR B	
LCS 280-619668/1-A	Lab Control Sample	Dissolved	Water	SM 3500 CR B	619668
LCS 280-619675/16	Lab Control Sample	Total/NA	Water	SM 3500 CR B	
LCSD 280-619668/2-A	Lab Control Sample Dup	Dissolved	Water	SM 3500 CR B	619668
LCSD 280-619675/17	Lab Control Sample Dup	Total/NA	Water	SM 3500 CR B	

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QC Association Summary

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-179066-1

General Chemistry (Continued)

Analysis Batch: 619675 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179066-1 MS	OUTFALL-001	Dissolved	Water	SM 3500 CR B	619668
280-179066-1 MS	OUTFALL-001	Total/NA	Water	SM 3500 CR B	
280-179066-1 MSD	OUTFALL-001	Dissolved	Water	SM 3500 CR B	619668
280-179066-1 MSD	OUTFALL-001	Total/NA	Water	SM 3500 CR B	
280-179066-1 DU	OUTFALL-001	Dissolved	Water	SM 3500 CR B	619668
280-179066-1 DU	OUTFALL-001	Total/NA	Water	SM 3500 CR B	

Analysis Batch: 619819

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179066-1	OUTFALL-001	Total/NA	Water	SM 4500 S2 D	
MB 280-619819/11	Method Blank	Total/NA	Water	SM 4500 S2 D	
MB 280-619819/42	Method Blank	Total/NA	Water	SM 4500 S2 D	
LCS 280-619819/40	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
LCSD 280-619819/41	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 D	

Analysis Batch: 619860

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179066-1	OUTFALL-001	Total/NA	Water	SM4500 S2 H	

Analysis Batch: 620255

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179066-1	OUTFALL-001	Total/NA	Water	SM 2540D	
MB 280-620255/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 280-620255/2	Lab Control Sample	Total/NA	Water	SM 2540D	
LCSD 280-620255/3	Lab Control Sample Dup	Total/NA	Water	SM 2540D	

Analysis Batch: 620778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179066-1	OUTFALL-001	Total/NA	Water	SM 2510B	
MB 280-620778/31	Method Blank	Total/NA	Water	SM 2510B	
LCS 280-620778/30	Lab Control Sample	Total/NA	Water	SM 2510B	

Analysis Batch: 620840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179066-1	OUTFALL-001	Total/NA	Water	SM 4500 H+ B	
LCS 280-620840/5	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 620888

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179066-1	OUTFALL-001	Potentially Dissolved	Water	SM3500 CR B	
280-179066-1	OUTFALL-001	Total Recoverable	Water	SM3500 CR B	

Lab Chronicle

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-179066-1

Client Sample ID: OUTFALL-001

Lab Sample ID: 280-179066-1

Date Collected: 07/14/23 10:00

Matrix: Water

Date Received: 07/14/23 16:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			40 mL	40 mL	633882	07/18/23 14:15	VLC	EET PEN
							Completed:	07/19/23 09:00 ¹		
Total/NA	Analysis	1631E		1			633976	07/20/23 12:06	VLC	EET PEN
Total Recoverable	Prep	200.8			50 mL	50 mL	619800	07/19/23 07:57	LJS	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			620139	07/20/23 02:27	ADL	EET DEN
Potentially Dissolved	Filtration	Poten_Diss_Met			250 mL	250 mL	619692	07/16/23 08:30	LRD	EET DEN
Potentially Dissolved	Prep	200.8			50 mL	50 mL	619930	07/19/23 07:57	LJS	EET DEN
Potentially Dissolved	Analysis	200.8		1			620150	07/19/23 22:51	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	619800	07/19/23 07:57	LJS	EET DEN
Total Recoverable	Analysis	200.8		1			620314	07/21/23 04:47	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	619800	07/19/23 07:57	LJS	EET DEN
Total Recoverable	Analysis	200.8		1			620428	07/21/23 18:55	LMT	EET DEN
Total/NA	Prep	245.1			30 mL	50 mL	620096	07/20/23 13:14	PFM	EET DEN
Total/NA	Analysis	245.1		1			620351	07/20/23 17:12	KMS	EET DEN
Total/NA	Analysis	SM 2510B		1			620778	07/26/23 09:33	KEG	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	620255	07/20/23 16:02	LRB	EET DEN
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	619668	07/14/23 16:48	SL	EET DEN
Dissolved	Analysis	SM 3500 CR B		1	2 mL	2 mL	619675	07/14/23 19:04	SL	EET DEN
Total/NA	Analysis	SM 3500 CR B		1	2 mL	2 mL	619675	07/14/23 19:35	SL	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			620840	07/25/23 16:06	LL	EET DEN
Total/NA	Analysis	SM 4500 S2 D		1	2 mL	2 mL	619819	07/17/23 16:31	SL	EET DEN
Potentially Dissolved	Analysis	SM3500 CR B		1			620888	07/26/23 17:45	RMS	EET DEN
Total Recoverable	Analysis	SM3500 CR B		1			620888	07/26/23 17:45	RMS	EET DEN
Total/NA	Analysis	SM4500 S2 H		1			619860	07/18/23 09:22	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: 280-179066-1

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
Iowa	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	06-30-24
Minnesota	NELAP	1788752	12-31-23
Nevada	State	CO000262020-1	07-31-23
New Hampshire	NELAP	2053	04-28-24
New Jersey	NELAP	230001	06-30-24
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	4025-019	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
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	06-30-24
ANAB	ISO/IEC 17025	L2471	02-22-26
Arkansas DEQ	State	88-00689	09-01-23
California	State	2510	06-30-24
Florida	NELAP	E81010	06-30-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Denver

Accreditation/Certification Summary

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-179066-1

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)	06-30-24
Illinois	NELAP	200041	10-09-23
Kansas	NELAP	E-10253	10-31-23
Kentucky (UST)	State	53	06-30-24
Louisiana (All)	NELAP	30976	06-30-24
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	06-30-24
Tennessee	State	TN02907	06-30-24
Texas	NELAP	T104704286	09-30-23
US Fish & Wildlife	US Federal Programs	A22340	06-30-24
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

Ver: 01/16/2019



Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Grand Island Resources

Job Number: 280-179066-1

Login Number: 179066

List Number: 1

Creator: Naylis, Patrick J

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	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 $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Grand Island Resources

Job Number: 280-179066-1

Login Number: 179066

List Number: 2

Creator: Roberts, Alexis J

List Source: Eurofins Pensacola

List Creation: 07/18/23 10:25 AM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	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	6.0°C IR8
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 $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

PREPARED FOR

Attn: Brooke Molson Moran
Grand Island Resources
12567 West Cedar Road
Suite 250
Lakewood, Colorado 80228

Generated 8/10/2023 3:33:00 PM

JOB DESCRIPTION

Nederland, CO

JOB NUMBER

280-179690-1

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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8/10/2023 3:33:00 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
Project/Site: Nederland, CO

Job ID: 280-179690-1

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.
α	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

Case Narrative

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-179690-1

Job ID: 280-179690-1

Laboratory: Eurofins Denver

Narrative

CASE NARRATIVE

Client: Grand Island Resources

Project: Nederland, CO

Report Number: 280-179690-1

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 07/28/2023; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 8.9 C.

POTENTIALLY DISSOLVED METALS (ICPMS)

Sample OUTFALL-001 (280-179690-1) was analyzed for potentially dissolved metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared on 08/07/2023 and analyzed on 08/08/2023.

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 (280-179690-1) was analyzed for total recoverable metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared and analyzed on 08/07/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-179690-1

Client Sample ID: OUTFALL-001

Lab Sample ID: 280-179690-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	1.1	J	2.0	0.71	ug/L	1		200.8	Total
Lead	0.55	J	1.0	0.23	ug/L	1		200.8	Recoverable
Copper	1.1	J	2.0	0.71	ug/L	1		200.8	Total
Lead	0.59	J	1.0	0.23	ug/L	1		200.8	Recoverable
Zinc	15		10	2.0	ug/L	1		200.8	Potentially Dissolved
									Potentially Dissolved

This Detection Summary does not include radiochemical test results.

Eurofins Denver

Method Summary

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-179690-1

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: 280-179690-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-179690-1	OUTFALL-001	Water	07/28/23 10:00	07/28/23 15:30

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Client Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-179690-1

Method: EPA 200.8 - Metals (ICP/MS) - Total Recoverable

Client Sample ID: OUTFALL-001

Date Collected: 07/28/23 10:00

Date Received: 07/28/23 15:30

Lab Sample ID: 280-179690-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	1.1	J	2.0	0.71	ug/L		08/07/23 07:46	08/07/23 18:07	1
Lead	0.55	J	1.0	0.23	ug/L		08/07/23 07:46	08/07/23 18:07	1

Method: EPA 200.8 - Metals (ICP/MS) - Potentially Dissolved

Client Sample ID: OUTFALL-001

Date Collected: 07/28/23 10:00

Date Received: 07/28/23 15:30

Lab Sample ID: 280-179690-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		1.0	0.19	ug/L		08/07/23 14:45	08/08/23 18:13	1
Copper	1.1	J	2.0	0.71	ug/L		08/07/23 14:45	08/08/23 18:13	1
Lead	0.59	J	1.0	0.23	ug/L		08/07/23 14:45	08/08/23 18:13	1
Silver	ND		0.50	0.045	ug/L		08/07/23 14:45	08/08/23 18:13	1
Zinc	15		10	2.0	ug/L		08/07/23 14:45	08/08/23 18:13	1

QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-179690-1

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 280-621860/1-A
Matrix: Water
Analysis Batch: 622121

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 621860

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		2.0	0.71	ug/L		08/07/23 07:46	08/07/23 17:10	1
Lead	ND		1.0	0.23	ug/L		08/07/23 07:46	08/07/23 17:10	1

Lab Sample ID: LCS 280-621860/2-A
Matrix: Water
Analysis Batch: 622121

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 621860

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Copper	40.0	42.2		ug/L		105	90 - 115
Lead	40.0	42.4		ug/L		106	88 - 115

Lab Sample ID: MB 280-621216/1-B
Matrix: Water
Analysis Batch: 622280

Client Sample ID: Method Blank
Prep Type: Potentially Dissolved
Prep Batch: 621993

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		1.0	0.19	ug/L		08/07/23 14:45	08/08/23 18:02	1
Copper	ND		2.0	0.71	ug/L		08/07/23 14:45	08/08/23 18:02	1
Lead	ND		1.0	0.23	ug/L		08/07/23 14:45	08/08/23 18:02	1
Silver	ND		0.50	0.045	ug/L		08/07/23 14:45	08/08/23 18:02	1
Zinc	ND		10	2.0	ug/L		08/07/23 14:45	08/08/23 18:02	1

Lab Sample ID: LCS 280-621216/2-B
Matrix: Water
Analysis Batch: 622280

Client Sample ID: Lab Control Sample
Prep Type: Potentially Dissolved
Prep Batch: 621993

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cadmium	40.0	40.5		ug/L		101	89 - 111
Copper	40.0	40.0		ug/L		100	90 - 115
Lead	40.0	40.3		ug/L		101	88 - 115
Silver	40.0	37.6		ug/L		94	90 - 114
Zinc	40.0	40.5		ug/L		101	88 - 115

QC Association Summary

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-179690-1

Metals

Filtration Batch: 621216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179690-1	OUTFALL-001	Potentially Dissolved	Water	Poten_Diss_Met	
MB 280-621216/1-B	Method Blank	Potentially Dissolved	Water	Poten_Diss_Met	
LCS 280-621216/2-B	Lab Control Sample	Potentially Dissolved	Water	Poten_Diss_Met	

Prep Batch: 621860

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179690-1	OUTFALL-001	Total Recoverable	Water	200.8	
MB 280-621860/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-621860/2-A	Lab Control Sample	Total Recoverable	Water	200.8	

Prep Batch: 621993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179690-1	OUTFALL-001	Potentially Dissolved	Water	200.8	621216
MB 280-621216/1-B	Method Blank	Potentially Dissolved	Water	200.8	621216
LCS 280-621216/2-B	Lab Control Sample	Potentially Dissolved	Water	200.8	621216

Analysis Batch: 622121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179690-1	OUTFALL-001	Total Recoverable	Water	200.8	621860
MB 280-621860/1-A	Method Blank	Total Recoverable	Water	200.8	621860
LCS 280-621860/2-A	Lab Control Sample	Total Recoverable	Water	200.8	621860

Analysis Batch: 622280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179690-1	OUTFALL-001	Potentially Dissolved	Water	200.8	621993
MB 280-621216/1-B	Method Blank	Potentially Dissolved	Water	200.8	621993
LCS 280-621216/2-B	Lab Control Sample	Potentially Dissolved	Water	200.8	621993

Lab Chronicle

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-179690-1

Client Sample ID: OUTFALL-001

Lab Sample ID: 280-179690-1

Date Collected: 07/28/23 10:00

Matrix: Water

Date Received: 07/28/23 15:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Potentially Dissolved	Filtration	Poten_Diss_Met			150 mL	150 mL	621216	07/30/23 09:00	LRD	EET DEN
Potentially Dissolved	Prep	200.8			50 mL	50 mL	621993	08/07/23 14:45	MSM	EET DEN
Potentially Dissolved	Analysis	200.8		1			622280	08/08/23 18:13	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	621860	08/07/23 07:46	LJS	EET DEN
Total Recoverable	Analysis	200.8		1			622121	08/07/23 18:07	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: 280-179690-1

Laboratory: Eurofins Denver

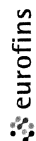
All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

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
Iowa	State	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	06-30-24
Minnesota	NELAP	1788752	12-31-23
Nevada	State	CO000262020-1	07-31-23 *
New Hampshire	NELAP	2053	04-28-24
New Jersey	NELAP	230001	06-30-24
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	4025-019	01-08-24
South Carolina	State	72002001	01-08-24
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	09-30-23
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 *
West Virginia DEP	State	354	11-30-23
Wisconsin	State	999615430	08-31-23
Wyoming (UST)	A2LA	2907.01	10-31-22 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Denver

Chain of Custody Record



Environment Testing
America

Client Information		Sampler: BM		Lab PM: Bienilius, Dylan T		Carrier Tracking No(s):		COC No:	
Client Contact: Patrick Delaney		Phone: 303-506-1618		E-Mail: Dylan.Bienilius@et.eurofins.com		State of Origin:		Page:	
Company: Grand Island Resources		Address: 12567 West Cedar Road Suite 250		City: Lakewood		State, Zip: CO, 80466		Job #:	
Phone: 315-414-6986		Compliance Project: ☐ Yes ☒ No		Advance Payment Required		PO #:		Preservation Codes:	
Email: pdelaney@blackfoxmining.com		WO #:		Project #:		SSOW#:		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
Project Name: Nederland, CO		Due Date Requested:		TAT Requested (days):		Compliance Project: ☐ Yes ☒ No		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
Site: second half of the month event		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	
Sample Identification		Sample Date		Sample Time		Sample Type		Matrix	
OUTFALL-001		7/28/23		10:00		G		W	
Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		200.8 - Potentially Dissolved Metals (Second half of the month permit list)		200.8 - Total Recoverable Metals (Second half of the month permit list)		Total Number of Containers	
☒		☒		☒		☒		☒	
Special Instructions/Note:		Special Instructions/Note:		Special Instructions/Note:		Special Instructions/Note:		Special Instructions/Note:	
*Second half of the month potentially dissolved metals permit list = 200.8 (Cd, Cu, Pb, Ag, Zn)		*Second half of the month total recoverable metals permit list = 200.8 (Cu, Pb)		*Second half of the month total recoverable metals permit list = 200.8 (Cu, Pb)		*Second half of the month total recoverable metals permit list = 200.8 (Cu, Pb)		*Second half of the month total recoverable metals permit list = 200.8 (Cu, Pb)	
Possible Hazard Identification		Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological ☐		Deliverable Requested: I, II, III, IV, Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Return To Client ☐ Disposal By Lab ☒ Archive For ☐ Months	
Empty Kit Relinquished by:		Date:		Time:		Special Instructions/QC Requirements:		Method of Shipment:	
Relinquished by: Patrick Delaney		Date: 7/28/23		Time: 15:30		Company: Grand Island Resources		Received by: BM	
Relinquished by:		Date:		Time:		Company:		Received by:	
Relinquished by:		Date:		Time:		Company:		Received by:	
Custody Seals Intact: ☒ Yes ☐ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 8.9°C to 9.0 °C		Company: Grand Island Resources		Date Time: 7/28/23 1530	

Login Sample Receipt Checklist

Client: Grand Island Resources

Job Number: 280-179690-1

Login Number: 179690

List Number: 1

Creator: Roehsner, Karen P

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	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 $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

PREPARED FOR

Attn: Brooke Molson Moran
Grand Island Resources
12567 West Cedar Road
Suite 250
Lakewood, Colorado 80228

Generated 8/21/2023 10:52:40 AM

JOB DESCRIPTION

Nederland, CO

JOB NUMBER

280-179977-1

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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8/21/2023 10:52:40 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
Project/Site: Nederland, CO

Job ID: 280-179977-1

Qualifiers

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
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	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

Glossary

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

Case Narrative

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-179977-1

Job ID: 280-179977-1

Laboratory: Eurofins Denver

Narrative

CASE NARRATIVE

Client: Grand Island Resources

Project: Nederland, CO

Report Number: 280-179977-1

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 08/07/2023; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 5.4 C.

TOTAL RECOVERABLE METALS (ICP)

Sample UTFALL-001 (280-179977-1) was analyzed for Total Recoverable Metals (ICP) in accordance with EPA Method 200.7. The samples were prepared on 08/09/2023 and analyzed on 08/14/2023.

Iron was detected in method blank MB 280-622221/1-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 UTFALL-001 (280-179977-1) was analyzed for potentially dissolved metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared on 08/11/2023 and analyzed on 08/14/2023.

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.

Several analytes failed the recovery criteria low for the MS and MSD of sample UTFALL-001 (280-179977-1) in batch 280-622966. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits. 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 UTFALL-001 (280-179977-1) was analyzed for total recoverable metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared on 08/10/2023 and analyzed on 08/14/2023.

Case Narrative

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-179977-1

Job ID: 280-179977-1 (Continued)

Laboratory: Eurofins Denver (Continued)

The continuing calibration verification (CCV) associated with batch 280-622969 recovered above the upper control limit for Zinc. The samples associated with this CCV were non-detects (MB) or within limits (LCS) for the affected analytes; therefore, the data have been reported. The associated samples are impacted: (CCV 280-622969/147), (LCS 280-622284/2-A) and (MB 280-622284/1-A).

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL MERCURY (CVAA)

Sample UTFALL-001 (280-179977-1) was analyzed for total mercury (CVAA) in accordance with EPA Method 245.1. The samples were prepared on 08/16/2023 and analyzed on 08/17/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TRIVALENT CHROMIUM - POTENTIALLY DISSOLVED

Sample UTFALL-001 (280-179977-1) was analyzed for Trivalent Chromium - Potentially Dissolved in accordance with SM3500_CR3_B. The samples were analyzed on 08/17/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TRIVALENT CHROMIUM - TOTAL RECOVERABLE

Sample UTFALL-001 (280-179977-1) was analyzed for Trivalent Chromium - Total Recoverable in accordance with SM3500_CR3_B. The samples were analyzed on 08/17/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SPECIFIC CONDUCTIVITY

Sample UTFALL-001 (280-179977-1) was analyzed for specific conductivity in accordance with SM20 2510B. The samples were analyzed on 08/16/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL SUSPENDED SOLIDS

Sample UTFALL-001 (280-179977-1) was analyzed for total suspended solids in accordance with SM20 2540D. The samples were analyzed on 08/10/2023.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED HEXAVALENT CHROMIUM

Sample UTFALL-001 (280-179977-1) was analyzed for dissolved hexavalent chromium in accordance with SM 3500 CR B. The samples were analyzed on 08/08/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HEXAVALENT CHROMIUM

Sample UTFALL-001 (280-179977-1) was analyzed for hexavalent chromium in accordance with 3500_CR_B. The samples were analyzed on 08/08/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

CORROSIVITY (PH)

Sample UTFALL-001 (280-179977-1) was analyzed for corrosivity (pH) in accordance with SM20 4500 H+ B. The samples were analyzed on 08/15/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Case Narrative

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-179977-1

Job ID: 280-179977-1 (Continued)

Laboratory: Eurofins Denver (Continued)

SULFIDE

Sample OUTFALL-001 (280-179977-1) was analyzed for sulfide in accordance with SM20 4500 S2 D. The samples were analyzed on 08/11/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HYDROGEN SULFIDE

Sample OUTFALL-001 (280-179977-1) was analyzed for Hydrogen Sulfide in accordance with SM20 4500 S2 H. The samples were analyzed on 08/15/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-179977-1

Client Sample ID: OUTFALL-001

Lab Sample ID: 280-179977-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	20	J B	100	9.1	ug/L	1		200.7 Rev 4.4	Total
Copper	1.1	J	2.0	0.71	ug/L	1		200.8	Recoverable
Lead	0.30	J	1.0	0.23	ug/L	1		200.8	Total
Zinc	11		10	2.0	ug/L	1		200.8	Recoverable
Copper	0.80	J F1	2.0	0.71	ug/L	1		200.8	Total
Lead	0.41	J	1.0	0.23	ug/L	1		200.8	Recoverable
Zinc	18	F1	10	2.0	ug/L	1		200.8	Total
Specific Conductance	120		2.0	2.0	umhos/cm	1		SM 2510B	Recoverable
pH adj. to 25 deg C	7.9	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Temperature	21.4	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	21		1.0	1.0	Celsius	1		SM4500 S2 H	Total/NA
Specific Conductance	120		2.0	2.0	umhos/cm	1		SM4500 S2 H	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Denver

Method Summary

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-179977-1

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

Sample Summary

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-179977-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-179977-1	OUTFALL-001	Water	08/07/23 11:30	08/07/23 13:59

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Client Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-179977-1

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Client Sample ID: OUTFALL-001
Date Collected: 08/07/23 11:30
Date Received: 08/07/23 13:59

Lab Sample ID: 280-179977-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	20	J B	100	9.1	ug/L		08/09/23 07:46	08/14/23 21:47	1

Method: EPA 200.8 - Metals (ICP/MS) - Total Recoverable

Client Sample ID: OUTFALL-001
Date Collected: 08/07/23 11:30
Date Received: 08/07/23 13:59

Lab Sample ID: 280-179977-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		08/10/23 07:53	08/14/23 21:52	1
Cadmium	ND		1.0	0.19	ug/L		08/10/23 07:53	08/14/23 21:52	1
Chromium	ND		3.0	0.50	ug/L		08/10/23 07:53	08/14/23 21:52	1
Copper	1.1	J	2.0	0.71	ug/L		08/10/23 07:53	08/14/23 21:52	1
Lead	0.30	J	1.0	0.23	ug/L		08/10/23 07:53	08/14/23 21:52	1
Zinc	11		10	2.0	ug/L		08/10/23 07:53	08/14/23 21:52	1

Method: EPA 200.8 - Metals (ICP/MS) - Potentially Dissolved

Client Sample ID: OUTFALL-001
Date Collected: 08/07/23 11:30
Date Received: 08/07/23 13:59

Lab Sample ID: 280-179977-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		08/11/23 13:35	08/14/23 20:42	1
Cadmium	ND		1.0	0.19	ug/L		08/11/23 13:35	08/14/23 20:42	1
Chromium	ND	F1	3.0	0.50	ug/L		08/11/23 13:35	08/14/23 20:42	1
Copper	0.80	J F1	2.0	0.71	ug/L		08/11/23 13:35	08/14/23 20:42	1
Lead	0.41	J	1.0	0.23	ug/L		08/11/23 13:35	08/14/23 20:42	1
Manganese	ND	F1	3.0	0.51	ug/L		08/11/23 13:35	08/14/23 20:42	1
Nickel	ND	F1	3.0	0.83	ug/L		08/11/23 13:35	08/14/23 20:42	1
Selenium	ND		5.0	1.0	ug/L		08/11/23 13:35	08/14/23 20:42	1
Silver	ND		0.50	0.045	ug/L		08/11/23 13:35	08/14/23 20:42	1
Zinc	18	F1	10	2.0	ug/L		08/11/23 13:35	08/14/23 20:42	1

Method: EPA 245.1 - Mercury (CVAA)

Client Sample ID: OUTFALL-001
Date Collected: 08/07/23 11:30
Date Received: 08/07/23 13:59

Lab Sample ID: 280-179977-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.061	ug/L		08/16/23 18:33	08/17/23 20:39	1

General Chemistry

Client Sample ID: OUTFALL-001
Date Collected: 08/07/23 11:30
Date Received: 08/07/23 13:59

Lab Sample ID: 280-179977-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (SM 2510B)	120		2.0	2.0	umhos/cm			08/16/23 12:06	1
Total Suspended Solids (SM 2540D)	ND		4.0	1.1	mg/L			08/10/23 14:57	1
Chromium, hexavalent (SM 3500 CR B)	ND		0.020	0.0040	mg/L			08/08/23 10:32	1
pH adj. to 25 deg C (SM 4500 H+ B)	7.9	HF	0.1	0.1	SU			08/15/23 09:04	1
Temperature (SM 4500 H+ B)	21.4	HF	1.0	1.0	Degrees C			08/15/23 09:04	1

Eurofins Denver

Client Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-179977-1

General Chemistry (Continued)

Client Sample ID: UTFALL-001

Date Collected: 08/07/23 11:30

Date Received: 08/07/23 13:59

Lab Sample ID: 280-179977-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 D)	ND		0.050	0.022	mg/L			08/11/23 16:44	1
Un-ionized Hydrogen Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			08/15/23 14:16	1
Field pH (SM4500 S2 H)	7.9		1.0	1.0	SU			08/15/23 14:16	1
Field Temperature (SM4500 S2 H)	21		1.0	1.0	Celsius			08/15/23 14:16	1
Specific Conductance (SM4500 S2 H)	120		2.0	2.0	umhos/cm			08/15/23 14:16	1
Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			08/15/23 14:16	1

General Chemistry - Total Recoverable

Client Sample ID: UTFALL-001

Date Collected: 08/07/23 11:30

Date Received: 08/07/23 13:59

Lab Sample ID: 280-179977-1

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			08/17/23 17:26	1

General Chemistry - Dissolved

Client Sample ID: UTFALL-001

Date Collected: 08/07/23 11:30

Date Received: 08/07/23 13:59

Lab Sample ID: 280-179977-1

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			08/08/23 10:25	1

General Chemistry - Potentially Dissolved

Client Sample ID: UTFALL-001

Date Collected: 08/07/23 11:30

Date Received: 08/07/23 13:59

Lab Sample ID: 280-179977-1

Matrix: 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			08/17/23 17:26	1

QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-179977-1

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 280-622221/1-A
Matrix: Water
Analysis Batch: 622987

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 622221

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	9.95	J	100	9.1	ug/L		08/09/23 07:46	08/14/23 21:09	1

Lab Sample ID: LCS 280-622221/2-A
Matrix: Water
Analysis Batch: 622987

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 622221

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	10000	10200		ug/L		102	85 - 115

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 280-622284/1-A
Matrix: Water
Analysis Batch: 622969

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 622284

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		08/10/23 07:53	08/14/23 20:51	1
Cadmium	ND		1.0	0.19	ug/L		08/10/23 07:53	08/14/23 20:51	1
Chromium	ND		3.0	0.50	ug/L		08/10/23 07:53	08/14/23 20:51	1
Copper	ND		2.0	0.71	ug/L		08/10/23 07:53	08/14/23 20:51	1
Lead	ND		1.0	0.23	ug/L		08/10/23 07:53	08/14/23 20:51	1
Zinc	ND	^+	10	2.0	ug/L		08/10/23 07:53	08/14/23 20:51	1

Lab Sample ID: LCS 280-622284/2-A
Matrix: Water
Analysis Batch: 622969

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 622284

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	40.0	40.8		ug/L		102	89 - 111
Cadmium	40.0	40.4		ug/L		101	89 - 111
Chromium	40.0	39.7		ug/L		99	86 - 115
Copper	40.0	41.1		ug/L		103	90 - 115
Lead	40.0	40.1		ug/L		100	88 - 115
Zinc	40.0	42.4	^+	ug/L		106	88 - 115

Lab Sample ID: 280-179977-1 MS
Matrix: Water
Analysis Batch: 622969

Client Sample ID: OUTFALL-001
Prep Type: Total Recoverable
Prep Batch: 622284

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	ND		40.0	42.6		ug/L		107	79 - 120
Cadmium	ND		40.0	40.9		ug/L		102	89 - 111
Chromium	ND		40.0	38.9		ug/L		97	86 - 115
Copper	1.1	J	40.0	39.8		ug/L		97	90 - 115
Lead	0.30	J	40.0	41.0		ug/L		102	88 - 115
Zinc	11		40.0	53.2		ug/L		105	88 - 115

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QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-179977-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: 280-179977-1 MSD

Matrix: Water

Analysis Batch: 622969

Client Sample ID: OUTFALL-001

Prep Type: Total Recoverable

Prep Batch: 622284

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	ND		40.0	40.2		ug/L		100	79 - 120	6	20
Cadmium	ND		40.0	40.6		ug/L		101	89 - 111	1	20
Chromium	ND		40.0	38.8		ug/L		97	86 - 115	0	20
Copper	1.1	J	40.0	38.7		ug/L		94	90 - 115	3	20
Lead	0.30	J	40.0	40.4		ug/L		100	88 - 115	2	20
Zinc	11		40.0	51.4		ug/L		101	88 - 115	3	20

Lab Sample ID: MB 280-622591/1-B

Matrix: Water

Analysis Batch: 622966

Client Sample ID: Method Blank

Prep Type: Potentially Dissolved

Prep Batch: 622617

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		08/11/23 13:35	08/14/23 20:31	1
Cadmium	ND		1.0	0.19	ug/L		08/11/23 13:35	08/14/23 20:31	1
Chromium	ND		3.0	0.50	ug/L		08/11/23 13:35	08/14/23 20:31	1
Copper	ND		2.0	0.71	ug/L		08/11/23 13:35	08/14/23 20:31	1
Lead	ND		1.0	0.23	ug/L		08/11/23 13:35	08/14/23 20:31	1
Manganese	ND		3.0	0.51	ug/L		08/11/23 13:35	08/14/23 20:31	1
Nickel	ND		3.0	0.83	ug/L		08/11/23 13:35	08/14/23 20:31	1
Selenium	ND		5.0	1.0	ug/L		08/11/23 13:35	08/14/23 20:31	1
Silver	ND		0.50	0.045	ug/L		08/11/23 13:35	08/14/23 20:31	1
Zinc	ND		10	2.0	ug/L		08/11/23 13:35	08/14/23 20:31	1

Lab Sample ID: LCS 280-622591/2-B

Matrix: Water

Analysis Batch: 622966

Client Sample ID: Lab Control Sample

Prep Type: Potentially Dissolved

Prep Batch: 622617

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	40.0	36.9		ug/L		92	89 - 111
Cadmium	40.0	38.6		ug/L		96	89 - 111
Chromium	40.0	36.2		ug/L		91	86 - 115
Copper	40.0	36.5		ug/L		91	90 - 115
Lead	40.0	37.3		ug/L		93	88 - 115
Manganese	40.0	35.6		ug/L		89	87 - 115
Nickel	40.0	35.2		ug/L		88	86 - 115
Selenium	40.0	37.1		ug/L		93	85 - 114
Silver	40.0	37.7		ug/L		94	90 - 114
Zinc	40.0	37.9		ug/L		95	88 - 115

Lab Sample ID: 280-179977-1 MS

Matrix: Water

Analysis Batch: 622966

Client Sample ID: OUTFALL-001

Prep Type: Potentially Dissolved

Prep Batch: 622617

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	ND		40.0	35.0		ug/L		87	79 - 120
Cadmium	ND		40.0	36.9		ug/L		92	89 - 111
Chromium	ND	F1	40.0	33.7	F1	ug/L		84	86 - 115
Copper	0.80	J F1	40.0	33.9	F1	ug/L		83	90 - 115
Lead	0.41	J	40.0	35.7		ug/L		88	88 - 115

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QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-179977-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: 280-179977-1 MS

Matrix: Water

Analysis Batch: 622966

Client Sample ID: OUTFALL-001

Prep Type: Potentially Dissolved

Prep Batch: 622617

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	ND	F1	40.0	33.5	F1	ug/L		84	87 - 115
Nickel	ND	F1	40.0	33.2	F1	ug/L		83	86 - 115
Selenium	ND		40.0	36.0		ug/L		90	85 - 114
Silver	ND		40.0	36.2		ug/L		91	70 - 130
Zinc	18	F1	40.0	48.5	F1	ug/L		77	88 - 115

Lab Sample ID: 280-179977-1 MSD

Matrix: Water

Analysis Batch: 622966

Client Sample ID: OUTFALL-001

Prep Type: Potentially Dissolved

Prep Batch: 622617

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	ND		40.0	34.8		ug/L		87	79 - 120	1	20
Cadmium	ND		40.0	37.0		ug/L		92	89 - 111	0	20
Chromium	ND	F1	40.0	33.4	F1	ug/L		84	86 - 115	1	20
Copper	0.80	J F1	40.0	33.9	F1	ug/L		83	90 - 115	0	20
Lead	0.41	J	40.0	35.7		ug/L		88	88 - 115	0	20
Manganese	ND	F1	40.0	33.8	F1	ug/L		84	87 - 115	1	20
Nickel	ND	F1	40.0	32.8	F1	ug/L		82	86 - 115	1	20
Selenium	ND		40.0	35.5		ug/L		89	85 - 114	1	20
Silver	ND		40.0	36.6		ug/L		92	70 - 130	1	20
Zinc	18	F1	40.0	47.9	F1	ug/L		76	88 - 115	1	20

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 280-623223/1-A

Matrix: Water

Analysis Batch: 623446

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 623223

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.061	ug/L		08/16/23 18:33	08/17/23 20:02	1

Lab Sample ID: LCS 280-623223/2-A

Matrix: Water

Analysis Batch: 623446

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 623223

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	4.98		ug/L		100	90 - 110

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: MB 280-623181/5

Matrix: Water

Analysis Batch: 623181

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	ND		2.0	2.0	umhos/cm			08/16/23 12:06	1

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QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-179977-1

Method: SM 2510B - Conductivity, Specific Conductance (Continued)

Lab Sample ID: LCS 280-623181/4

Matrix: Water

Analysis Batch: 623181

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Specific Conductance	1410	1460		umhos/cm		103	90 - 110

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 280-622553/1

Matrix: Water

Analysis Batch: 622553

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	1.1	mg/L			08/10/23 14:57	1

Lab Sample ID: LCS 280-622553/2

Matrix: Water

Analysis Batch: 622553

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	500	418		mg/L		84	79 - 114

Lab Sample ID: LCSD 280-622553/3

Matrix: Water

Analysis Batch: 622553

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Suspended Solids	500	432		mg/L		86	79 - 114	3	20

Method: SM 3500 CR B - Chromium, Hexavalent

Lab Sample ID: MB 280-622185/19

Matrix: Water

Analysis Batch: 622185

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		0.020	0.0040	mg/L			08/08/23 10:32	1

Lab Sample ID: LCS 280-622185/17

Matrix: Water

Analysis Batch: 622185

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium, hexavalent	0.100	0.105		mg/L		105	91 - 112

Lab Sample ID: LCSD 280-622185/18

Matrix: Water

Analysis Batch: 622185

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chromium, hexavalent	0.100	0.104		mg/L		104	91 - 112	0	20

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QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-179977-1

Method: SM 3500 CR B - Chromium, Hexavalent (Continued)

Lab Sample ID: 280-179977-1 MS

Matrix: Water

Analysis Batch: 622185

Client Sample ID: OUTFALL-001

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chromium, hexavalent	ND		0.100	0.107		mg/L		107	91 - 112		

Lab Sample ID: 280-179977-1 MSD

Matrix: Water

Analysis Batch: 622185

Client Sample ID: OUTFALL-001

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chromium, hexavalent	ND		0.100	0.107		mg/L		107	91 - 112	0	20

Lab Sample ID: 280-179977-1 DU

Matrix: Water

Analysis Batch: 622185

Client Sample ID: OUTFALL-001

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Chromium, hexavalent	ND			ND		mg/L				NC	20

Lab Sample ID: MB 280-622150/3-A

Matrix: Water

Analysis Batch: 622185

Client Sample ID: Method Blank

Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		0.020	0.0040	mg/L			08/08/23 10:23	1

Lab Sample ID: LCS 280-622150/1-A

Matrix: Water

Analysis Batch: 622185

Client Sample ID: Lab Control Sample

Prep Type: Dissolved

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chromium, hexavalent			0.100	0.105		mg/L		105	91 - 112		

Lab Sample ID: LCSD 280-622150/2-A

Matrix: Water

Analysis Batch: 622185

Client Sample ID: Lab Control Sample Dup

Prep Type: Dissolved

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chromium, hexavalent			0.100	0.105		mg/L		105	91 - 112	0	20

Lab Sample ID: 280-179977-1 MS

Matrix: Water

Analysis Batch: 622185

Client Sample ID: OUTFALL-001

Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chromium, hexavalent	ND		0.100	0.107		mg/L		107	91 - 112		

Lab Sample ID: 280-179977-1 MSD

Matrix: Water

Analysis Batch: 622185

Client Sample ID: OUTFALL-001

Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chromium, hexavalent	ND		0.100	0.107		mg/L		107	91 - 112	0	20

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QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-179977-1

Method: SM 3500 CR B - Chromium, Hexavalent

Lab Sample ID: 280-179977-1 DU
Matrix: Water
Analysis Batch: 622185

Client Sample ID: OUTFALL-001
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chromium, hexavalent	ND		ND		mg/L		NC	20

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 280-622988/4
Matrix: Water
Analysis Batch: 622988

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH adj. to 25 deg C	7.00	7.0		SU		100	99 - 101

Method: SM 4500 S2 D - Sulfide, Total

Lab Sample ID: 280-179977-1 MS
Matrix: Water
Analysis Batch: 622731

Client Sample ID: OUTFALL-001
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	ND		0.501	0.453		mg/L		90	81 - 122

Lab Sample ID: 280-179977-1 MSD
Matrix: Water
Analysis Batch: 622731

Client Sample ID: OUTFALL-001
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	ND		0.501	0.469		mg/L		94	81 - 122	4	10

QC Association Summary

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-179977-1

Metals

Prep Batch: 622221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179977-1	OUTFALL-001	Total Recoverable	Water	200.7	
MB 280-622221/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 280-622221/2-A	Lab Control Sample	Total Recoverable	Water	200.7	

Prep Batch: 622284

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179977-1	OUTFALL-001	Total Recoverable	Water	200.8	
MB 280-622284/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-622284/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
280-179977-1 MS	OUTFALL-001	Total Recoverable	Water	200.8	
280-179977-1 MSD	OUTFALL-001	Total Recoverable	Water	200.8	

Filtration Batch: 622588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179977-1	OUTFALL-001	Potentially Dissolved	Water	Poten_Diss_Met	
280-179977-1 MS	OUTFALL-001	Potentially Dissolved	Water	Poten_Diss_Met	
280-179977-1 MSD	OUTFALL-001	Potentially Dissolved	Water	Poten_Diss_Met	

Filtration Batch: 622591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-622591/1-B	Method Blank	Potentially Dissolved	Water	FILTRATION	
LCS 280-622591/2-B	Lab Control Sample	Potentially Dissolved	Water	FILTRATION	

Prep Batch: 622617

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179977-1	OUTFALL-001	Potentially Dissolved	Water	200.8	622588
MB 280-622591/1-B	Method Blank	Potentially Dissolved	Water	200.8	622591
LCS 280-622591/2-B	Lab Control Sample	Potentially Dissolved	Water	200.8	622591
280-179977-1 MS	OUTFALL-001	Potentially Dissolved	Water	200.8	622588
280-179977-1 MSD	OUTFALL-001	Potentially Dissolved	Water	200.8	622588

Analysis Batch: 622966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179977-1	OUTFALL-001	Potentially Dissolved	Water	200.8	622617
MB 280-622591/1-B	Method Blank	Potentially Dissolved	Water	200.8	622617
LCS 280-622591/2-B	Lab Control Sample	Potentially Dissolved	Water	200.8	622617
280-179977-1 MS	OUTFALL-001	Potentially Dissolved	Water	200.8	622617
280-179977-1 MSD	OUTFALL-001	Potentially Dissolved	Water	200.8	622617

Analysis Batch: 622969

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179977-1	OUTFALL-001	Total Recoverable	Water	200.8	622284
MB 280-622284/1-A	Method Blank	Total Recoverable	Water	200.8	622284
LCS 280-622284/2-A	Lab Control Sample	Total Recoverable	Water	200.8	622284
280-179977-1 MS	OUTFALL-001	Total Recoverable	Water	200.8	622284
280-179977-1 MSD	OUTFALL-001	Total Recoverable	Water	200.8	622284

Analysis Batch: 622987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179977-1	OUTFALL-001	Total Recoverable	Water	200.7 Rev 4.4	622221
MB 280-622221/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	622221

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QC Association Summary

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-179977-1

Metals (Continued)

Analysis Batch: 622987 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 280-622221/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	622221

Prep Batch: 623223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179977-1	OUTFALL-001	Total/NA	Water	245.1	
MB 280-623223/1-A	Method Blank	Total/NA	Water	245.1	
LCS 280-623223/2-A	Lab Control Sample	Total/NA	Water	245.1	

Analysis Batch: 623446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179977-1	OUTFALL-001	Total/NA	Water	245.1	623223
MB 280-623223/1-A	Method Blank	Total/NA	Water	245.1	623223
LCS 280-623223/2-A	Lab Control Sample	Total/NA	Water	245.1	623223

General Chemistry

Filtration Batch: 622150

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179977-1	OUTFALL-001	Dissolved	Water	FILTRATION	
MB 280-622150/3-A	Method Blank	Dissolved	Water	FILTRATION	
LCS 280-622150/1-A	Lab Control Sample	Dissolved	Water	FILTRATION	
LCSD 280-622150/2-A	Lab Control Sample Dup	Dissolved	Water	FILTRATION	
280-179977-1 MS	OUTFALL-001	Dissolved	Water	FILTRATION	
280-179977-1 MSD	OUTFALL-001	Dissolved	Water	FILTRATION	
280-179977-1 DU	OUTFALL-001	Dissolved	Water	FILTRATION	

Analysis Batch: 622185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179977-1	OUTFALL-001	Dissolved	Water	SM 3500 CR B	622150
280-179977-1	OUTFALL-001	Total/NA	Water	SM 3500 CR B	
MB 280-622150/3-A	Method Blank	Dissolved	Water	SM 3500 CR B	622150
MB 280-622185/19	Method Blank	Total/NA	Water	SM 3500 CR B	
LCS 280-622150/1-A	Lab Control Sample	Dissolved	Water	SM 3500 CR B	622150
LCS 280-622185/17	Lab Control Sample	Total/NA	Water	SM 3500 CR B	
LCSD 280-622150/2-A	Lab Control Sample Dup	Dissolved	Water	SM 3500 CR B	622150
LCSD 280-622185/18	Lab Control Sample Dup	Total/NA	Water	SM 3500 CR B	
280-179977-1 MS	OUTFALL-001	Dissolved	Water	SM 3500 CR B	622150
280-179977-1 MS	OUTFALL-001	Total/NA	Water	SM 3500 CR B	
280-179977-1 MSD	OUTFALL-001	Dissolved	Water	SM 3500 CR B	622150
280-179977-1 MSD	OUTFALL-001	Total/NA	Water	SM 3500 CR B	
280-179977-1 DU	OUTFALL-001	Dissolved	Water	SM 3500 CR B	622150
280-179977-1 DU	OUTFALL-001	Total/NA	Water	SM 3500 CR B	

Analysis Batch: 622553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179977-1	OUTFALL-001	Total/NA	Water	SM 2540D	
MB 280-622553/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 280-622553/2	Lab Control Sample	Total/NA	Water	SM 2540D	
LCSD 280-622553/3	Lab Control Sample Dup	Total/NA	Water	SM 2540D	

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QC Association Summary

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-179977-1

General Chemistry

Analysis Batch: 622731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179977-1	OUTFALL-001	Total/NA	Water	SM 4500 S2 D	
280-179977-1 MS	OUTFALL-001	Total/NA	Water	SM 4500 S2 D	
280-179977-1 MSD	OUTFALL-001	Total/NA	Water	SM 4500 S2 D	

Analysis Batch: 622988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179977-1	OUTFALL-001	Total/NA	Water	SM 4500 H+ B	
LCS 280-622988/4	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 623046

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179977-1	OUTFALL-001	Total/NA	Water	SM4500 S2 H	

Analysis Batch: 623181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179977-1	OUTFALL-001	Total/NA	Water	SM 2510B	
MB 280-623181/5	Method Blank	Total/NA	Water	SM 2510B	
LCS 280-623181/4	Lab Control Sample	Total/NA	Water	SM 2510B	

Analysis Batch: 623388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179977-1	OUTFALL-001	Potentially Dissolved	Water	SM3500 CR B	
280-179977-1	OUTFALL-001	Total Recoverable	Water	SM3500 CR B	

Lab Chronicle

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-179977-1

Client Sample ID: OUTFALL-001

Lab Sample ID: 280-179977-1

Date Collected: 08/07/23 11:30

Matrix: Water

Date Received: 08/07/23 13:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.7			50 mL	50 mL	622221	08/09/23 07:46	LJS	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			622987	08/14/23 21:47	ADL	EET DEN
Potentially Dissolved	Filtration	Poten_Diss_Met			250 mL	250 mL	622588	08/10/23 21:30	LRD	EET DEN
Potentially Dissolved	Prep	200.8			50 mL	50 mL	622617	08/11/23 13:35	MSM	EET DEN
Potentially Dissolved	Analysis	200.8		1			622966	08/14/23 20:42	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	622284	08/10/23 07:53	LJS	EET DEN
Total Recoverable	Analysis	200.8		1			622969	08/14/23 21:52	LMT	EET DEN
Total/NA	Prep	245.1			30 mL	50 mL	623223	08/16/23 18:33	PFM	EET DEN
Total/NA	Analysis	245.1		1			623446	08/17/23 20:39	PFM	EET DEN
Total/NA	Analysis	SM 2510B		1			623181	08/16/23 12:06	KEG	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	622553	08/10/23 14:57	SK	EET DEN
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	622150	08/08/23 09:39	SL	EET DEN
Dissolved	Analysis	SM 3500 CR B		1	2 mL	2 mL	622185	08/08/23 10:25	SL	EET DEN
Total/NA	Analysis	SM 3500 CR B		1	2 mL	2 mL	622185	08/08/23 10:32	SL	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			622988	08/15/23 09:04	LL	EET DEN
Total/NA	Analysis	SM 4500 S2 D		1	2 mL	2 mL	622731	08/11/23 16:44	SL	EET DEN
Potentially Dissolved	Analysis	SM3500 CR B		1			623388	08/17/23 17:26	RMS	EET DEN
Total Recoverable	Analysis	SM3500 CR B		1			623388	08/17/23 17:26	RMS	EET DEN
Total/NA	Analysis	SM4500 S2 H		1			623046	08/15/23 14:16	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: 280-179977-1

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	12-20-23
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
Iowa	State	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	06-30-24
Minnesota	NELAP	1788752	12-31-23
Nevada	State	CO000262020-1	07-31-23 *
New Hampshire	NELAP	2053	04-28-24
New Jersey	NELAP	230001	06-30-24
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	4025-019	01-08-24
South Carolina	State	72002001	01-08-24
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	08-20-23
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 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Denver

Chain of Custody Record



Environment Testing
America

Client Information		Sampler: BM		Lab PM: Bienilius, Dylan T		Carrier Tracking No(s):		COC No:	
Client Contact: Patrick Delaney		Phone: 303-506-1618		E-Mail: Dylan.Bienilius@eurofins.com		State of Origin:		Page:	
Company: Grand Island Resources		PW/SID:		Analysis Requested		Job #:		Preservation Codes:	
Address: 12567 West Cedar Road Suite 250		Due Date Requested:		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Total Number of containers	
City: Lakewood		TAT Requested (days):		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)	
State, Zip: CO, 80466		Compliance Project: ☐ Yes ☒ No		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)	
Phone: 315-414-6986		Advance Payment Required		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)	
Email: pdelaney@blackfoxmining.com		WO #:		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)	
Project Name: Nederland, CO		Project #: 28022821		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)	
Site: First half of the month event		SSOW#:		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)	
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	
OUTFALL-001		8/7/23		11:30		G		W	
Special Instructions/Note:		Special Instructions/Note:		Special Instructions/Note:		Special Instructions/Note:		Special Instructions/Note:	
*First half of the month potentially dissolved metals permit list = 200.8 (As, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, Zn)		*First half of the month potentially dissolved metals permit list = 200.8 (As, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, Zn)		*First half of the month potentially dissolved metals permit list = 200.8 (As, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, Zn)		*First half of the month potentially dissolved metals permit list = 200.8 (As, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, Zn)		*First half of the month potentially dissolved metals permit list = 200.8 (As, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, Zn)	
temp = 9°C		pH = 7.0		temp = 9°C		pH = 7.0		temp = 9°C	
pH = 7.0		pH = 7.0		pH = 7.0		pH = 7.0		pH = 7.0	
280-179977 Chain of Custody		280-179977 Chain of Custody		280-179977 Chain of Custody		280-179977 Chain of Custody		280-179977 Chain of Custody	
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
☒ Return To Client ☐ Disposal By Lab ☒ Archive For _____ Months		☒ Return To Client ☐ Disposal By Lab ☒ Archive For _____ Months		☒ Return To Client ☐ Disposal By Lab ☒ Archive For _____ Months		☒ Return To Client ☐ Disposal By Lab ☒ Archive For _____ Months		☒ Return To Client ☐ Disposal By Lab ☒ Archive For _____ Months	
Special Instructions/QC Requirements:		Special Instructions/QC Requirements:		Special Instructions/QC Requirements:		Special Instructions/QC Requirements:		Special Instructions/QC Requirements:	
Empty Kit Relinquished by:		Empty Kit Relinquished by:		Empty Kit Relinquished by:		Empty Kit Relinquished by:		Empty Kit Relinquished by:	
Relinquished by: Patrick Delaney		Relinquished by: Patrick Delaney		Relinquished by: Patrick Delaney		Relinquished by: Patrick Delaney		Relinquished by: Patrick Delaney	
Relinquished by:		Relinquished by:		Relinquished by:		Relinquished by:		Relinquished by:	
Relinquished by:		Relinquished by:		Relinquished by:		Relinquished by:		Relinquished by:	
Custody Seals Intact: ☒ Yes ☐ No		Custody Seals Intact: ☒ Yes ☐ No		Custody Seals Intact: ☒ Yes ☐ No		Custody Seals Intact: ☒ Yes ☐ No		Custody Seals Intact: ☒ Yes ☐ No	
Custody Seal No.:		Custody Seal No.:		Custody Seal No.:		Custody Seal No.:		Custody Seal No.:	
542701CF00		542701CF00		542701CF00		542701CF00		542701CF00	

Login Sample Receipt Checklist

Client: Grand Island Resources

Job Number: 280-179977-1

Login Number: 179977

List Number: 1

Creator: Held, Wesley

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ 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 $<6\text{mm}$ (1/4").		
Multiphasic samples are not present.		
Samples do not require splitting or compositing.		
Residual Chlorine Checked.		

ANALYTICAL REPORT

PREPARED FOR

Attn: Brooke Molson Moran
Grand Island Resources
12567 West Cedar Road
Suite 250
Lakewood, Colorado 80228

Generated 9/5/2023 2:09:23 PM

JOB DESCRIPTION

Nederland, CO

JOB NUMBER

280-180805-1

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: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-180805-1

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

Case Narrative

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-180805-1

Job ID: 280-180805-1

Laboratory: Eurofins Denver

Narrative

CASE NARRATIVE

Client: Grand Island Resources

Project: Nederland, CO

Report Number: 280-180805-1

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 08/25/2023; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 8.8 C.

POTENTIALLY DISSOLVED METALS (ICPMS)

Sample outfall-001 (280-180805-1) was analyzed for potentially dissolved metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared on 08/28/2023 and analyzed on 08/29/2023.

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 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 (280-180805-1) was analyzed for total recoverable metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared and analyzed on 08/30/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Job ID: 280-180805-1

Lab Sample ID: 280-180805-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Zinc	11		10	2.0	ug/L	1			200.8	Potentially Dissolved

9/5/2023

Method Summary

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-180805-1

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: 280-180805-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-180805-1	outfall-001	Water	08/25/23 11:00	08/25/23 13:43

- 1
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- 14

Client Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-180805-1

Method: EPA 200.8 - Metals (ICP/MS) - Total Recoverable

Client Sample ID: outfall-001
Date Collected: 08/25/23 11:00
Date Received: 08/25/23 13:43

Lab Sample ID: 280-180805-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		2.0	0.71	ug/L		08/30/23 07:55	08/30/23 19:11	1
Lead	ND		1.0	0.23	ug/L		08/30/23 07:55	08/30/23 19:11	1

Method: EPA 200.8 - Metals (ICP/MS) - Potentially Dissolved

Client Sample ID: outfall-001
Date Collected: 08/25/23 11:00
Date Received: 08/25/23 13:43

Lab Sample ID: 280-180805-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		1.0	0.19	ug/L		08/28/23 14:35	08/29/23 10:15	1
Copper	ND		2.0	0.71	ug/L		08/28/23 14:35	08/29/23 10:15	1
Lead	ND		1.0	0.23	ug/L		08/28/23 14:35	08/29/23 10:15	1
Silver	ND		0.50	0.045	ug/L		08/28/23 14:35	08/29/23 10:15	1
Zinc	11		10	2.0	ug/L		08/28/23 14:35	08/29/23 15:53	1

QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-180805-1

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 280-624629/1-A
Matrix: Water
Analysis Batch: 624818

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 624629

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		2.0	0.71	ug/L		08/30/23 07:55	08/30/23 19:06	1
Lead	ND		1.0	0.23	ug/L		08/30/23 07:55	08/30/23 19:06	1

Lab Sample ID: LCS 280-624629/2-A
Matrix: Water
Analysis Batch: 624818

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 624629

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Copper	40.0	43.0		ug/L		108	90 - 115
Lead	40.0	43.3		ug/L		108	88 - 115

Lab Sample ID: MB 280-624343/1-B
Matrix: Water
Analysis Batch: 624595

Client Sample ID: Method Blank
Prep Type: Potentially Dissolved
Prep Batch: 624349

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		1.0	0.19	ug/L		08/28/23 14:35	08/29/23 09:33	1
Copper	ND		2.0	0.71	ug/L		08/28/23 14:35	08/29/23 09:33	1
Lead	ND		1.0	0.23	ug/L		08/28/23 14:35	08/29/23 09:33	1
Silver	ND		0.50	0.045	ug/L		08/28/23 14:35	08/29/23 09:33	1

Lab Sample ID: MB 280-624343/1-B
Matrix: Water
Analysis Batch: 624677

Client Sample ID: Method Blank
Prep Type: Potentially Dissolved
Prep Batch: 624349

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		10	2.0	ug/L		08/28/23 14:35	08/29/23 15:41	1

Lab Sample ID: LCS 280-624343/2-C
Matrix: Water
Analysis Batch: 624595

Client Sample ID: Lab Control Sample
Prep Type: Potentially Dissolved
Prep Batch: 624349

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cadmium	40.0	38.0		ug/L		95	89 - 111
Copper	40.0	38.9		ug/L		97	90 - 115
Lead	40.0	38.3		ug/L		96	88 - 115
Silver	40.0	37.3		ug/L		93	90 - 114

Lab Sample ID: LCS 280-624343/2-C
Matrix: Water
Analysis Batch: 624677

Client Sample ID: Lab Control Sample
Prep Type: Potentially Dissolved
Prep Batch: 624349

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	40.0	39.1		ug/L		98	88 - 115

Eurofins Denver

QC Association Summary

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-180805-1

Metals

Filtration Batch: 624343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-624343/1-B	Method Blank	Potentially Dissolved	Water	FILTRATION	
LCS 280-624343/2-C	Lab Control Sample	Potentially Dissolved	Water	FILTRATION	

Prep Batch: 624349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180805-1	outfall-001	Potentially Dissolved	Water	200.8	624376
MB 280-624343/1-B	Method Blank	Potentially Dissolved	Water	200.8	624343
LCS 280-624343/2-C	Lab Control Sample	Potentially Dissolved	Water	200.8	624343

Filtration Batch: 624376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180805-1	outfall-001	Potentially Dissolved	Water	Poten_Diss_Met	

Analysis Batch: 624595

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180805-1	outfall-001	Potentially Dissolved	Water	200.8	624349
MB 280-624343/1-B	Method Blank	Potentially Dissolved	Water	200.8	624349
LCS 280-624343/2-C	Lab Control Sample	Potentially Dissolved	Water	200.8	624349

Prep Batch: 624629

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180805-1	outfall-001	Total Recoverable	Water	200.8	
MB 280-624629/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-624629/2-A	Lab Control Sample	Total Recoverable	Water	200.8	

Analysis Batch: 624677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180805-1	outfall-001	Potentially Dissolved	Water	200.8	624349
MB 280-624343/1-B	Method Blank	Potentially Dissolved	Water	200.8	624349
LCS 280-624343/2-C	Lab Control Sample	Potentially Dissolved	Water	200.8	624349

Analysis Batch: 624818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180805-1	outfall-001	Total Recoverable	Water	200.8	624629
MB 280-624629/1-A	Method Blank	Total Recoverable	Water	200.8	624629
LCS 280-624629/2-A	Lab Control Sample	Total Recoverable	Water	200.8	624629

Lab Chronicle

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-180805-1

Client Sample ID: outfall-001

Lab Sample ID: 280-180805-1

Date Collected: 08/25/23 11:00

Matrix: Water

Date Received: 08/25/23 13:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Potentially Dissolved	Filtration	Poten_Diss_Met			150 mL	150 mL	624376	08/26/23 16:30	LRD	EET DEN
Potentially Dissolved	Prep	200.8			50 mL	50 mL	624349	08/28/23 14:35	MSM	EET DEN
Potentially Dissolved	Analysis	200.8		1			624595	08/29/23 10:15	LMT	EET DEN
Potentially Dissolved	Filtration	Poten_Diss_Met			150 mL	150 mL	624376	08/26/23 16:30	LRD	EET DEN
Potentially Dissolved	Prep	200.8			50 mL	50 mL	624349	08/28/23 14:35	MSM	EET DEN
Potentially Dissolved	Analysis	200.8		1			624677	08/29/23 15:53	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	624629	08/30/23 07:55	LJS	EET DEN
Total Recoverable	Analysis	200.8		1			624818	08/30/23 19:11	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: 280-180805-1

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	12-20-23
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
Iowa	State	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	06-30-24
Minnesota	NELAP	1788752	12-31-23
Nevada	State	CO000262020-1	07-31-24
New Hampshire	NELAP	2053	04-28-24
New Jersey	NELAP	230001	06-30-24
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	4025-019	01-08-24
Pennsylvania	NELAP	013	07-31-24
South Carolina	State	72002001	01-08-24
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	09-30-23
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 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Denver

Login Sample Receipt Checklist

Client: Grand Island Resources

Job Number: 280-180805-1

Login Number: 180805

List Number: 1

Creator: Naylis, Patrick J

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	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 $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

PREPARED FOR

Attn: Brooke Molson Moran
Grand Island Resources
12567 West Cedar Road
Suite 250
Lakewood, Colorado 80228

Generated 9/25/2023 2:02:50 PM

JOB DESCRIPTION

Nederland, CO

JOB NUMBER

280-181316-1

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
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(303)736-0138

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Definitions/Glossary

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-181316-1

Qualifiers

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
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	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

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

Case Narrative

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-181316-1

Job ID: 280-181316-1

Laboratory: Eurofins Denver

Narrative

CASE NARRATIVE

Client: Grand Island Resources

Project: Nederland, CO

Report Number: 280-181316-1

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 09/11/2023; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 5.7 C.

TOTAL RECOVERABLE METALS (ICP)

Sample Outfall-001 (280-181316-1) was analyzed for Total Recoverable Metals (ICP) in accordance with EPA Method 200.7. The samples were prepared and analyzed on 09/13/2023.

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 (280-181316-1) was analyzed for potentially dissolved metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared on 09/15/2023 and analyzed on 09/15/2023 and 09/18/2023.

The continuing calibration verification (CCV) associated with batch 280-626470 recovered above the upper control limit for Arsenic. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: Outfall-001 (280-181316-1), (CCV 280-626470/24), (LCS 280-626110/2-B), and (MB 280-626109/1-B).

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 (280-181316-1) was analyzed for total recoverable metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared and analyzed on 09/13/2023.

Chromium was detected in method blank MB 280-625949/1-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)

Case Narrative

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-181316-1

Job ID: 280-181316-1 (Continued)

Laboratory: Eurofins Denver (Continued)

Sample Outfall-001 (280-181316-1) was analyzed for total mercury (CVAA) in accordance with EPA Method 245.1. The samples were prepared and analyzed on 09/15/2023.

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 (280-181316-1) was analyzed for Trivalent Chromium - Potentially Dissolved in accordance with SM3500_CR3_B. The samples were analyzed on 09/22/2023.

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 (280-181316-1) was analyzed for Trivalent Chromium - Total Recoverable in accordance with SM3500_CR3_B. The samples were analyzed on 09/22/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SPECIFIC CONDUCTIVITY

Sample Outfall-001 (280-181316-1) was analyzed for specific conductivity in accordance with SM20 2510B. The samples were analyzed on 09/20/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL SUSPENDED SOLIDS

Sample Outfall-001 (280-181316-1) was analyzed for total suspended solids in accordance with SM20 2540D. The samples were analyzed on 09/13/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED HEXAVALENT CHROMIUM

Sample Outfall-001 (280-181316-1) was analyzed for dissolved hexavalent chromium in accordance with SM 3500 CR B. The samples were analyzed on 09/11/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HEXAVALENT CHROMIUM

Sample Outfall-001 (280-181316-1) was analyzed for hexavalent chromium in accordance with 3500_CR_B. The samples were analyzed on 09/11/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

CORROSIVITY (PH)

Sample Outfall-001 (280-181316-1) was analyzed for corrosivity (pH) in accordance with SM20 4500 H+ B. The samples were analyzed on 09/15/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SULFIDE

Sample Outfall-001 (280-181316-1) was analyzed for sulfide in accordance with SM20 4500 S2 D. The samples were analyzed on 09/14/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HYDROGEN SULFIDE

Sample Outfall-001 (280-181316-1) was analyzed for Hydrogen Sulfide in accordance with SM20 4500 S2 H. The samples were analyzed

Case Narrative

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-181316-1

Job ID: 280-181316-1 (Continued)

Laboratory: Eurofins Denver (Continued)

on 09/15/2023.

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: 280-181316-1

Client Sample ID: Outfall-001

Lab Sample ID: 280-181316-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.99	J B	3.0	0.50	ug/L	1		200.8	Total
Copper	0.81	J	2.0	0.71	ug/L	1		200.8	Recoverable
Lead	0.25	J	1.0	0.23	ug/L	1		200.8	Total
Zinc	10		10	2.0	ug/L	1		200.8	Recoverable
Copper	0.87	J	2.0	0.71	ug/L	1		200.8	Total
Lead	0.28	J	1.0	0.23	ug/L	1		200.8	Potentially
Manganese	2.4	J	3.0	0.51	ug/L	1		200.8	Dissolved
Zinc	2.6	J	10	2.0	ug/L	1		200.8	Potentially
Specific Conductance	230		2.0	2.0	umhos/cm	1		SM 2510B	Dissolved
pH adj. to 25 deg C	8.2	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Temperature	19.4	HF	1.0	1.0	Degrees C	1		SM 4500 H+ B	Total/NA
Field pH	8.2		1.0	1.0	SU	1		SM4500 S2 H	Total/NA
Field Temperature	19		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.

Eurofins Denver

Method Summary

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-181316-1

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

Sample Summary

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-181316-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-181316-1	Outfall-001	Water	09/11/23 11:00	09/11/23 13:14

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Client Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-181316-1

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Client Sample ID: Outfall-001
Date Collected: 09/11/23 11:00
Date Received: 09/11/23 13:14

Lab Sample ID: 280-181316-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		100	9.1	ug/L		09/13/23 07:55	09/13/23 21:50	1

Method: EPA 200.8 - Metals (ICP/MS) - Total Recoverable

Client Sample ID: Outfall-001
Date Collected: 09/11/23 11:00
Date Received: 09/11/23 13:14

Lab Sample ID: 280-181316-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		09/13/23 07:55	09/13/23 18:53	1
Cadmium	ND		1.0	0.19	ug/L		09/13/23 07:55	09/13/23 18:53	1
Chromium	0.99	J B	3.0	0.50	ug/L		09/13/23 07:55	09/13/23 18:53	1
Copper	0.81	J	2.0	0.71	ug/L		09/13/23 07:55	09/13/23 18:53	1
Lead	0.25	J	1.0	0.23	ug/L		09/13/23 07:55	09/13/23 18:53	1
Zinc	10		10	2.0	ug/L		09/13/23 07:55	09/13/23 18:53	1

Method: EPA 200.8 - Metals (ICP/MS) - Potentially Dissolved

Client Sample ID: Outfall-001
Date Collected: 09/11/23 11:00
Date Received: 09/11/23 13:14

Lab Sample ID: 280-181316-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	^+	5.0	0.50	ug/L		09/15/23 08:50	09/15/23 16:29	1
Cadmium	ND		1.0	0.19	ug/L		09/15/23 08:50	09/15/23 16:29	1
Chromium	ND		3.0	0.50	ug/L		09/15/23 08:50	09/15/23 16:29	1
Copper	0.87	J	2.0	0.71	ug/L		09/15/23 08:50	09/15/23 16:29	1
Lead	0.28	J	1.0	0.23	ug/L		09/15/23 08:50	09/15/23 16:29	1
Manganese	2.4	J	3.0	0.51	ug/L		09/15/23 08:50	09/15/23 16:29	1
Nickel	ND		3.0	0.83	ug/L		09/15/23 08:50	09/15/23 16:29	1
Selenium	ND		5.0	1.0	ug/L		09/15/23 08:50	09/15/23 16:29	1
Silver	ND		0.50	0.045	ug/L		09/15/23 08:50	09/15/23 16:29	1
Zinc	2.6	J	10	2.0	ug/L		09/15/23 08:50	09/18/23 18:59	1

Method: EPA 245.1 - Mercury (CVAA)

Client Sample ID: Outfall-001
Date Collected: 09/11/23 11:00
Date Received: 09/11/23 13:14

Lab Sample ID: 280-181316-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.061	ug/L		09/15/23 15:09	09/15/23 22:28	1

General Chemistry

Client Sample ID: Outfall-001
Date Collected: 09/11/23 11:00
Date Received: 09/11/23 13:14

Lab Sample ID: 280-181316-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (SM 2510B)	230		2.0	2.0	umhos/cm			09/20/23 14:48	1
Total Suspended Solids (SM 2540D)	ND		4.0	1.1	mg/L			09/13/23 14:23	1
Chromium, hexavalent (SM 3500 CR B)	ND		0.020	0.0040	mg/L			09/11/23 14:57	1
pH adj. to 25 deg C (SM 4500 H+ B)	8.2	HF	0.1	0.1	SU			09/15/23 21:46	1
Temperature (SM 4500 H+ B)	19.4	HF	1.0	1.0	Degrees C			09/15/23 21:46	1

Eurofins Denver

Client Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-181316-1

General Chemistry (Continued)

Client Sample ID: Outfall-001
Date Collected: 09/11/23 11:00
Date Received: 09/11/23 13:14

Lab Sample ID: 280-181316-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 D)	ND		0.050	0.022	mg/L			09/14/23 14:59	1
Un-ionized Hydrogen Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			09/15/23 16:30	1
Field pH (SM4500 S2 H)	8.2		1.0	1.0	SU			09/15/23 16:30	1
Field Temperature (SM4500 S2 H)	19		1.0	1.0	Celsius			09/15/23 16:30	1
Specific Conductance (SM4500 S2 H)	230		2.0	2.0	umhos/cm			09/15/23 16:30	1
Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			09/15/23 16:30	1

General Chemistry - Total Recoverable

Client Sample ID: Outfall-001
Date Collected: 09/11/23 11:00
Date Received: 09/11/23 13:14

Lab Sample ID: 280-181316-1
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			09/22/23 08:35	1

General Chemistry - Dissolved

Client Sample ID: Outfall-001
Date Collected: 09/11/23 11:00
Date Received: 09/11/23 13:14

Lab Sample ID: 280-181316-1
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			09/11/23 14:48	1

General Chemistry - Potentially Dissolved

Client Sample ID: Outfall-001
Date Collected: 09/11/23 11:00
Date Received: 09/11/23 13:14

Lab Sample ID: 280-181316-1
Matrix: 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			09/22/23 08:35	1

QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-181316-1

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 280-625949/1-A

Matrix: Water

Analysis Batch: 626168

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 625949

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		100	9.1	ug/L		09/13/23 07:55	09/13/23 21:29	1

Lab Sample ID: LCS 280-625949/2-A

Matrix: Water

Analysis Batch: 626168

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 625949

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	10000	9670		ug/L		97	85 - 115

Lab Sample ID: LCSD 280-625949/3-A

Matrix: Water

Analysis Batch: 626168

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 625949

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Iron	10000	9530		ug/L		95	85 - 115	1	20

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 280-625949/1-A

Matrix: Water

Analysis Batch: 626139

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 625949

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		09/13/23 07:55	09/13/23 18:35	1
Cadmium	ND		1.0	0.19	ug/L		09/13/23 07:55	09/13/23 18:35	1
Chromium	0.924	J	3.0	0.50	ug/L		09/13/23 07:55	09/13/23 18:35	1
Copper	ND		2.0	0.71	ug/L		09/13/23 07:55	09/13/23 18:35	1
Lead	ND		1.0	0.23	ug/L		09/13/23 07:55	09/13/23 18:35	1
Zinc	ND		10	2.0	ug/L		09/13/23 07:55	09/13/23 18:35	1

Lab Sample ID: LCS 280-625949/21-A

Matrix: Water

Analysis Batch: 626139

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 625949

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	40.0	40.9		ug/L		102	89 - 111
Cadmium	40.0	40.9		ug/L		102	89 - 111
Chromium	40.0	42.3		ug/L		106	86 - 115
Copper	40.0	40.9		ug/L		102	90 - 115
Lead	40.0	40.7		ug/L		102	88 - 115
Zinc	40.0	40.4		ug/L		101	88 - 115

Lab Sample ID: LCSD 280-625949/22-A

Matrix: Water

Analysis Batch: 626139

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 625949

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Arsenic	40.0	40.9		ug/L		102	89 - 111	0	20
Cadmium	40.0	41.3		ug/L		103	89 - 111	1	20
Chromium	40.0	42.5		ug/L		106	86 - 115	0	20

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QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-181316-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 280-625949/22-A

Matrix: Water

Analysis Batch: 626139

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 625949

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Copper	40.0	41.4		ug/L		104	90 - 115	1	20
Lead	40.0	41.1		ug/L		103	88 - 115	1	20
Zinc	40.0	41.1		ug/L		103	88 - 115	2	20

Lab Sample ID: MB 280-626109/1-B

Matrix: Water

Analysis Batch: 626470

Client Sample ID: Method Blank

Prep Type: Potentially Dissolved

Prep Batch: 626128

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	^+	5.0	0.50	ug/L		09/15/23 08:50	09/15/23 16:14	1
Cadmium	ND		1.0	0.19	ug/L		09/15/23 08:50	09/15/23 16:14	1
Chromium	ND		3.0	0.50	ug/L		09/15/23 08:50	09/15/23 16:14	1
Copper	ND		2.0	0.71	ug/L		09/15/23 08:50	09/15/23 16:14	1
Lead	ND		1.0	0.23	ug/L		09/15/23 08:50	09/15/23 16:14	1
Manganese	ND		3.0	0.51	ug/L		09/15/23 08:50	09/15/23 16:14	1
Nickel	ND		3.0	0.83	ug/L		09/15/23 08:50	09/15/23 16:14	1
Selenium	ND		5.0	1.0	ug/L		09/15/23 08:50	09/15/23 16:14	1
Silver	ND		0.50	0.045	ug/L		09/15/23 08:50	09/15/23 16:14	1

Lab Sample ID: MB 280-626109/1-B

Matrix: Water

Analysis Batch: 626617

Client Sample ID: Method Blank

Prep Type: Potentially Dissolved

Prep Batch: 626128

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		10	2.0	ug/L		09/15/23 08:50	09/18/23 18:38	1

Lab Sample ID: LCS 280-626110/2-B

Matrix: Water

Analysis Batch: 626470

Client Sample ID: Lab Control Sample

Prep Type: Potentially Dissolved

Prep Batch: 626128

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	40.0	38.4	^+	ug/L		96	89 - 111
Cadmium	40.0	38.5		ug/L		96	89 - 111
Chromium	40.0	40.6		ug/L		102	86 - 115
Copper	40.0	39.6		ug/L		99	90 - 115
Lead	40.0	37.4		ug/L		93	88 - 115
Manganese	40.0	39.9		ug/L		100	87 - 115
Nickel	40.0	39.6		ug/L		99	86 - 115
Selenium	40.0	39.8		ug/L		99	85 - 114
Silver	40.0	39.2		ug/L		98	90 - 114

Lab Sample ID: LCS 280-626110/2-B

Matrix: Water

Analysis Batch: 626617

Client Sample ID: Lab Control Sample

Prep Type: Potentially Dissolved

Prep Batch: 626128

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	40.0	42.4		ug/L		106	88 - 115

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QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-181316-1

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 280-626372/1-A
Matrix: Water
Analysis Batch: 626601

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 626372

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.061	ug/L		09/15/23 15:09	09/15/23 22:20	1

Lab Sample ID: LCS 280-626372/2-A
Matrix: Water
Analysis Batch: 626601

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 626372

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	5.06		ug/L		101	90 - 110

Lab Sample ID: LCSD 280-626372/3-A
Matrix: Water
Analysis Batch: 626601

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 626372

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	5.00	5.06		ug/L		101	90 - 110	0	10

Lab Sample ID: 280-181316-1 MS
Matrix: Water
Analysis Batch: 626601

Client Sample ID: Outfall-001
Prep Type: Total/NA
Prep Batch: 626372

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		5.00	5.10		ug/L		102	80 - 120

Lab Sample ID: 280-181316-1 MSD
Matrix: Water
Analysis Batch: 626601

Client Sample ID: Outfall-001
Prep Type: Total/NA
Prep Batch: 626372

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		5.00	5.08		ug/L		102	80 - 120	0	10

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: MB 280-626873/5
Matrix: Water
Analysis Batch: 626873

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	ND		2.0	2.0	umhos/cm			09/20/23 14:48	1

Lab Sample ID: LCS 280-626873/4
Matrix: Water
Analysis Batch: 626873

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Specific Conductance	1410	1460		umhos/cm		104	90 - 110

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QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-181316-1

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 280-626098/1

Matrix: Water

Analysis Batch: 626098

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	1.1	mg/L			09/13/23 14:23	1

Lab Sample ID: LCS 280-626098/2

Matrix: Water

Analysis Batch: 626098

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	507	567		mg/L		112	79 - 114

Method: SM 3500 CR B - Chromium, Hexavalent

Lab Sample ID: MB 280-625817/20

Matrix: Water

Analysis Batch: 625817

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		0.020	0.0040	mg/L			09/11/23 14:57	1

Lab Sample ID: LCS 280-625817/18

Matrix: Water

Analysis Batch: 625817

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium, hexavalent	0.100	0.105		mg/L		105	91 - 112

Lab Sample ID: LCSD 280-625817/19

Matrix: Water

Analysis Batch: 625817

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chromium, hexavalent	0.100	0.105		mg/L		105	91 - 112	0	20

Lab Sample ID: 280-181316-1 MS

Matrix: Water

Analysis Batch: 625817

Client Sample ID: Outfall-001

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium, hexavalent	ND		0.100	0.106		mg/L		106	91 - 112

Lab Sample ID: 280-181316-1 MSD

Matrix: Water

Analysis Batch: 625817

Client Sample ID: Outfall-001

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chromium, hexavalent	ND		0.100	0.107		mg/L		107	91 - 112	1	20

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QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-181316-1

Method: SM 3500 CR B - Chromium, Hexavalent (Continued)

Lab Sample ID: 280-181316-1 DU

Matrix: Water

Analysis Batch: 625817

Client Sample ID: Outfall-001

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Chromium, hexavalent	ND		ND		mg/L		NC	20

Lab Sample ID: MB 280-625786/3-A

Matrix: Water

Analysis Batch: 625817

Client Sample ID: Method Blank

Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		0.020	0.0040	mg/L			09/11/23 14:48	1

Lab Sample ID: LCS 280-625786/1-A

Matrix: Water

Analysis Batch: 625817

Client Sample ID: Lab Control Sample

Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium, hexavalent	0.100	0.105		mg/L		105	91 - 112

Lab Sample ID: LCSD 280-625786/2-A

Matrix: Water

Analysis Batch: 625817

Client Sample ID: Lab Control Sample Dup

Prep Type: Dissolved

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Chromium, hexavalent	0.100	0.105		mg/L		105	91 - 112	0	20

Lab Sample ID: 280-181316-1 MS

Matrix: Water

Analysis Batch: 625817

Client Sample ID: Outfall-001

Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium, hexavalent	ND		0.100	0.106		mg/L		106	91 - 112

Lab Sample ID: 280-181316-1 MSD

Matrix: Water

Analysis Batch: 625817

Client Sample ID: Outfall-001

Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Chromium, hexavalent	ND		0.100	0.106		mg/L		106	91 - 112	1	20

Lab Sample ID: 280-181316-1 DU

Matrix: Water

Analysis Batch: 625817

Client Sample ID: Outfall-001

Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Chromium, hexavalent	ND		ND		mg/L		NC	20

QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-181316-1

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 280-626587/31
Matrix: Water
Analysis Batch: 626587

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH adj. to 25 deg C	7.00	7.0		SU		101	99 - 101

Method: SM 4500 S2 D - Sulfide, Total

Lab Sample ID: MB 280-626254/11
Matrix: Water
Analysis Batch: 626254

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		0.050	0.022	mg/L			09/14/23 14:56	1

Lab Sample ID: LCS 280-626254/9
Matrix: Water
Analysis Batch: 626254

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	0.500	0.509		mg/L		102	81 - 122

Lab Sample ID: LCSD 280-626254/10
Matrix: Water
Analysis Batch: 626254

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	0.500	0.503		mg/L		100	81 - 122	1	10

QC Association Summary

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-181316-1

Metals

Prep Batch: 625949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-181316-1	Outfall-001	Total Recoverable	Water	200.8	
MB 280-625949/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-625949/21-A	Lab Control Sample	Total Recoverable	Water	200.8	
LCS 280-625949/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
LCSD 280-625949/22-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	
LCSD 280-625949/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	

Filtration Batch: 626109

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-626109/1-B	Method Blank	Potentially Dissolved	Water	FILTRATION	

Filtration Batch: 626110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-181316-1	Outfall-001	Potentially Dissolved	Water	Poten_Diss_Met	
LCS 280-626110/2-B	Lab Control Sample	Potentially Dissolved	Water	Poten_Diss_Met	

Prep Batch: 626128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-181316-1	Outfall-001	Potentially Dissolved	Water	200.8	626110
MB 280-626109/1-B	Method Blank	Potentially Dissolved	Water	200.8	626109
LCS 280-626110/2-B	Lab Control Sample	Potentially Dissolved	Water	200.8	626110

Analysis Batch: 626139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-181316-1	Outfall-001	Total Recoverable	Water	200.8	625949
MB 280-625949/1-A	Method Blank	Total Recoverable	Water	200.8	625949
LCS 280-625949/21-A	Lab Control Sample	Total Recoverable	Water	200.8	625949
LCSD 280-625949/22-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	625949

Analysis Batch: 626168

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-181316-1	Outfall-001	Total Recoverable	Water	200.7 Rev 4.4	625949
MB 280-625949/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	625949
LCS 280-625949/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	625949
LCSD 280-625949/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	625949

Prep Batch: 626372

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-181316-1	Outfall-001	Total/NA	Water	245.1	
MB 280-626372/1-A	Method Blank	Total/NA	Water	245.1	
LCS 280-626372/2-A	Lab Control Sample	Total/NA	Water	245.1	
LCSD 280-626372/3-A	Lab Control Sample Dup	Total/NA	Water	245.1	
280-181316-1 MS	Outfall-001	Total/NA	Water	245.1	
280-181316-1 MSD	Outfall-001	Total/NA	Water	245.1	

Analysis Batch: 626470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-181316-1	Outfall-001	Potentially Dissolved	Water	200.8	626128
MB 280-626109/1-B	Method Blank	Potentially Dissolved	Water	200.8	626128
LCS 280-626110/2-B	Lab Control Sample	Potentially Dissolved	Water	200.8	626128

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QC Association Summary

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-181316-1

Metals

Analysis Batch: 626601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-181316-1	Outfall-001	Total/NA	Water	245.1	626372
MB 280-626372/1-A	Method Blank	Total/NA	Water	245.1	626372
LCS 280-626372/2-A	Lab Control Sample	Total/NA	Water	245.1	626372
LCSD 280-626372/3-A	Lab Control Sample Dup	Total/NA	Water	245.1	626372
280-181316-1 MS	Outfall-001	Total/NA	Water	245.1	626372
280-181316-1 MSD	Outfall-001	Total/NA	Water	245.1	626372

Analysis Batch: 626617

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-181316-1	Outfall-001	Potentially Dissolved	Water	200.8	626128
MB 280-626109/1-B	Method Blank	Potentially Dissolved	Water	200.8	626128
LCS 280-626110/2-B	Lab Control Sample	Potentially Dissolved	Water	200.8	626128

General Chemistry

Filtration Batch: 625786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-181316-1	Outfall-001	Dissolved	Water	FILTRATION	
MB 280-625786/3-A	Method Blank	Dissolved	Water	FILTRATION	
LCS 280-625786/1-A	Lab Control Sample	Dissolved	Water	FILTRATION	
LCSD 280-625786/2-A	Lab Control Sample Dup	Dissolved	Water	FILTRATION	
280-181316-1 MS	Outfall-001	Dissolved	Water	FILTRATION	
280-181316-1 MSD	Outfall-001	Dissolved	Water	FILTRATION	
280-181316-1 DU	Outfall-001	Dissolved	Water	FILTRATION	

Analysis Batch: 625817

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-181316-1	Outfall-001	Dissolved	Water	SM 3500 CR B	625786
280-181316-1	Outfall-001	Total/NA	Water	SM 3500 CR B	
MB 280-625786/3-A	Method Blank	Dissolved	Water	SM 3500 CR B	625786
MB 280-625817/20	Method Blank	Total/NA	Water	SM 3500 CR B	
LCS 280-625786/1-A	Lab Control Sample	Dissolved	Water	SM 3500 CR B	625786
LCS 280-625817/18	Lab Control Sample	Total/NA	Water	SM 3500 CR B	
LCSD 280-625786/2-A	Lab Control Sample Dup	Dissolved	Water	SM 3500 CR B	625786
LCSD 280-625817/19	Lab Control Sample Dup	Total/NA	Water	SM 3500 CR B	
280-181316-1 MS	Outfall-001	Dissolved	Water	SM 3500 CR B	625786
280-181316-1 MS	Outfall-001	Total/NA	Water	SM 3500 CR B	
280-181316-1 MSD	Outfall-001	Dissolved	Water	SM 3500 CR B	625786
280-181316-1 MSD	Outfall-001	Total/NA	Water	SM 3500 CR B	
280-181316-1 DU	Outfall-001	Dissolved	Water	SM 3500 CR B	625786
280-181316-1 DU	Outfall-001	Total/NA	Water	SM 3500 CR B	

Analysis Batch: 626098

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-181316-1	Outfall-001	Total/NA	Water	SM 2540D	
MB 280-626098/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 280-626098/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 626254

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-181316-1	Outfall-001	Total/NA	Water	SM 4500 S2 D	

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QC Association Summary

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-181316-1

General Chemistry (Continued)

Analysis Batch: 626254 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-626254/11	Method Blank	Total/NA	Water	SM 4500 S2 D	
LCS 280-626254/9	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
LCSD 280-626254/10	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 D	

Analysis Batch: 626301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-181316-1	Outfall-001	Total/NA	Water	SM4500 S2 H	

Analysis Batch: 626587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-181316-1	Outfall-001	Total/NA	Water	SM 4500 H+ B	
LCS 280-626587/31	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 626873

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-181316-1	Outfall-001	Total/NA	Water	SM 2510B	
MB 280-626873/5	Method Blank	Total/NA	Water	SM 2510B	
LCS 280-626873/4	Lab Control Sample	Total/NA	Water	SM 2510B	

Analysis Batch: 627056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-181316-1	Outfall-001	Potentially Dissolved	Water	SM3500 CR B	
280-181316-1	Outfall-001	Total Recoverable	Water	SM3500 CR B	

Lab Chronicle

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-181316-1

Client Sample ID: Outfall-001

Lab Sample ID: 280-181316-1

Date Collected: 09/11/23 11:00

Matrix: Water

Date Received: 09/11/23 13:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			50 mL	50 mL	625949	09/13/23 07:55	LJS	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			626168	09/13/23 21:50	ADL	EET DEN
Potentially Dissolved	Filtration	Poten_Diss_Met			250 mL	250 mL	626110	09/13/23 15:57	KMS	EET DEN
Potentially Dissolved	Prep	200.8			50 mL	50 mL	626128	09/15/23 08:50	KMS	EET DEN
Potentially Dissolved	Analysis	200.8		1			626617	09/18/23 18:59	LMT	EET DEN
Potentially Dissolved	Filtration	Poten_Diss_Met			250 mL	250 mL	626110	09/13/23 15:57	KMS	EET DEN
Potentially Dissolved	Prep	200.8			50 mL	50 mL	626128	09/15/23 08:50	KMS	EET DEN
Potentially Dissolved	Analysis	200.8		1			626470	09/15/23 16:29	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	625949	09/13/23 07:55	LJS	EET DEN
Total Recoverable	Analysis	200.8		1			626139	09/13/23 18:53	LMT	EET DEN
Total/NA	Prep	245.1			30 mL	50 mL	626372	09/15/23 15:09	PFM	EET DEN
Total/NA	Analysis	245.1		1			626601	09/15/23 22:28	PFM	EET DEN
Total/NA	Analysis	SM 2510B		1			626873	09/20/23 14:48	LL	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	626098	09/13/23 14:23	SK	EET DEN
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	625786	09/11/23 14:12	SL	EET DEN
Dissolved	Analysis	SM 3500 CR B		1	2 mL	2 mL	625817	09/11/23 14:48	SL	EET DEN
Total/NA	Analysis	SM 3500 CR B		1	2 mL	2 mL	625817	09/11/23 14:57	SL	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			626587	09/15/23 21:46	LL	EET DEN
Total/NA	Analysis	SM 4500 S2 D		1	2 mL	2 mL	626254	09/14/23 14:59	SL	EET DEN
Potentially Dissolved	Analysis	SM3500 CR B		1			627056	09/22/23 08:35	RMS	EET DEN
Total Recoverable	Analysis	SM3500 CR B		1			627056	09/22/23 08:35	RMS	EET DEN
Total/NA	Analysis	SM4500 S2 H		1			626301	09/15/23 16:30	P1B	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: 280-181316-1

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	12-20-23
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	06-30-24
Georgia	State	4025-011	01-08-24
Illinois	NELAP	2000172019-1	04-30-24
Iowa	State	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	06-30-24
Minnesota	NELAP	1788752	12-31-23
Nevada	State	CO000262020-1	07-31-24
New Hampshire	NELAP	2053	04-28-24
New Jersey	NELAP	230001	06-30-24
New York	NELAP	59923	03-31-24
North Carolina (WW/SW)	State	358	12-31-23
North Dakota	State	R-034	01-08-24
Oregon	NELAP	4025-019	01-08-24
Pennsylvania	NELAP	013	07-31-24
South Carolina	State	72002001	01-08-24
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	09-30-23
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	08-31-24
Wyoming (UST)	A2LA	2907.01	10-31-22 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Denver

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Grand Island Resources

Job Number: 280-181316-1

Login Number: 181316

List Number: 1

Creator: Held, Wesley

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	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	
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 $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

PREPARED FOR

Attn: Brooke Molson Moran
Grand Island Resources
12567 West Cedar Road
Suite 250
Lakewood, Colorado 80228

Generated 10/30/2023 1:04:30 PM

JOB DESCRIPTION

Nederland, CO

JOB NUMBER

280-182133-1

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
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(303)736-0138

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Definitions/Glossary

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-182133-1

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.
α	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

Case Narrative

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-182133-1

Job ID: 280-182133-1

Laboratory: Eurofins Denver

Narrative

CASE NARRATIVE

Client: Grand Island Resources

Project: Nederland, CO

Report Number: 280-182133-1

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 09/28/2023; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 9.9 C.

POTENTIALLY DISSOLVED METALS (ICPMS)

Sample OUTFALL-001 (280-182133-1) was analyzed for potentially dissolved metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared and analyzed on 10/04/2023.

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 (280-182133-1) was analyzed for total recoverable metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared and analyzed on 10/10/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-182133-1

Client Sample ID: OUTFALL-001

Lab Sample ID: 280-182133-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.81	J	2.0	0.71	ug/L	1		200.8	Total
Lead	0.58	J	1.0	0.23	ug/L	1		200.8	Recoverable
Copper	0.87	J	2.0	0.71	ug/L	1		200.8	Total
Lead	0.51	J	1.0	0.23	ug/L	1		200.8	Recoverable
Zinc	15		10	2.0	ug/L	1		200.8	Potentially Dissolved
									Potentially Dissolved
									Potentially Dissolved

This Detection Summary does not include radiochemical test results.

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Method Summary

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-182133-1

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: 280-182133-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-182133-1	OUTFALL-001	Water	09/28/23 10:00	09/28/23 16:22

1

2

3

4

5

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14

Client Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-182133-1

Method: EPA 200.8 - Metals (ICP/MS) - Total Recoverable

Client Sample ID: OUTFALL-001

Date Collected: 09/28/23 10:00

Date Received: 09/28/23 16:22

Lab Sample ID: 280-182133-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.81	J	2.0	0.71	ug/L		10/10/23 08:43	10/10/23 17:06	1
Lead	0.58	J	1.0	0.23	ug/L		10/10/23 08:43	10/10/23 17:06	1

Method: EPA 200.8 - Metals (ICP/MS) - Potentially Dissolved

Client Sample ID: OUTFALL-001

Date Collected: 09/28/23 10:00

Date Received: 09/28/23 16:22

Lab Sample ID: 280-182133-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		1.0	0.19	ug/L		10/04/23 09:00	10/04/23 23:32	1
Copper	0.87	J	2.0	0.71	ug/L		10/04/23 09:00	10/04/23 23:32	1
Lead	0.51	J	1.0	0.23	ug/L		10/04/23 09:00	10/04/23 23:32	1
Silver	ND		0.50	0.045	ug/L		10/04/23 09:00	10/04/23 23:32	1
Zinc	15		10	2.0	ug/L		10/04/23 09:00	10/04/23 23:32	1

QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-182133-1

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 280-628113/1-A
Matrix: Water
Analysis Batch: 628544

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 628113

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		1.0	0.19	ug/L		10/04/23 09:00	10/04/23 22:48	1
Copper	ND		2.0	0.71	ug/L		10/04/23 09:00	10/04/23 22:48	1
Lead	ND		1.0	0.23	ug/L		10/04/23 09:00	10/04/23 22:48	1
Silver	ND		0.50	0.045	ug/L		10/04/23 09:00	10/04/23 22:48	1

Lab Sample ID: MB 280-628113/1-A
Matrix: Water
Analysis Batch: 628626

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 628113

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		10	2.0	ug/L		10/04/23 09:00	10/05/23 11:41	1

Lab Sample ID: LCS 280-628113/19-A
Matrix: Water
Analysis Batch: 628544

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 628113

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cadmium	40.0	39.1		ug/L		98	89 - 111
Copper	40.0	38.2		ug/L		95	90 - 115
Lead	40.0	38.1		ug/L		95	88 - 115
Zinc	40.0	42.6		ug/L		106	88 - 115

Lab Sample ID: LCS 280-628113/19-A
Matrix: Water
Analysis Batch: 628626

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 628113

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	40.0	36.3		ug/L		91	90 - 114

Lab Sample ID: MB 280-629031/1-A
Matrix: Water
Analysis Batch: 629241

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 629031

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		2.0	0.71	ug/L		10/10/23 08:43	10/10/23 16:43	1
Lead	ND		1.0	0.23	ug/L		10/10/23 08:43	10/10/23 16:43	1

Lab Sample ID: LCS 280-629031/2-A
Matrix: Water
Analysis Batch: 629241

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 629031

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Copper	40.0	38.9		ug/L		97	90 - 115
Lead	40.0	37.9		ug/L		95	88 - 115

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QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-182133-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 280-629031/3-A
Matrix: Water
Analysis Batch: 629241

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 629031

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Copper	40.0	39.1		ug/L		98	90 - 115	0	20
Lead	40.0	38.3		ug/L		96	88 - 115	1	20

QC Association Summary

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-182133-1

Metals

Filtration Batch: 627956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182133-1	OUTFALL-001	Potentially Dissolved	Water	Poten_Diss_Met	

Prep Batch: 628113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182133-1	OUTFALL-001	Potentially Dissolved	Water	200.8	627956
MB 280-628113/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-628113/19-A	Lab Control Sample	Total Recoverable	Water	200.8	

Analysis Batch: 628544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182133-1	OUTFALL-001	Potentially Dissolved	Water	200.8	628113
MB 280-628113/1-A	Method Blank	Total Recoverable	Water	200.8	628113
LCS 280-628113/19-A	Lab Control Sample	Total Recoverable	Water	200.8	628113

Analysis Batch: 628626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-628113/1-A	Method Blank	Total Recoverable	Water	200.8	628113
LCS 280-628113/19-A	Lab Control Sample	Total Recoverable	Water	200.8	628113

Prep Batch: 629031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182133-1	OUTFALL-001	Total Recoverable	Water	200.8	
MB 280-629031/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-629031/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
LCSD 280-629031/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	

Analysis Batch: 629241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182133-1	OUTFALL-001	Total Recoverable	Water	200.8	629031
MB 280-629031/1-A	Method Blank	Total Recoverable	Water	200.8	629031
LCS 280-629031/2-A	Lab Control Sample	Total Recoverable	Water	200.8	629031
LCSD 280-629031/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	629031

Lab Chronicle

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-182133-1

Client Sample ID: OUTFALL-001

Lab Sample ID: 280-182133-1

Date Collected: 09/28/23 10:00

Matrix: Water

Date Received: 09/28/23 16:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Potentially Dissolved	Filtration	Poten_Diss_Met			200 mL	200 mL	627956	09/29/23 22:30	LRD	EET DEN
Potentially Dissolved	Prep	200.8			50 mL	50 mL	628113	10/04/23 09:00	PFM	EET DEN
Potentially Dissolved	Analysis	200.8		1			628544	10/04/23 23:32	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	629031	10/10/23 08:43	KMS	EET DEN
Total Recoverable	Analysis	200.8		1			629241	10/10/23 17:06	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: 280-182133-1

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	12-20-23
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	06-30-24
Georgia	State	4025-011	01-08-24
Illinois	NELAP	2000172019-1	04-30-24
Iowa	State	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	06-30-24
Minnesota	NELAP	1788752	12-31-23
Nevada	State	CO000262020-1	07-31-24
New Hampshire	NELAP	2053	04-28-24
New Jersey	NELAP	230001	06-30-24
New York	NELAP	59923	03-31-24
North Carolina (WW/SW)	State	358	12-31-23
North Dakota	State	R-034	01-08-24
Oregon	NELAP	4025-019	01-08-24
Pennsylvania	NELAP	013	07-31-24
South Carolina	State	72002001	01-08-24
Texas	NELAP	TX104704183-08-TX	09-30-09 *
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	460232	06-14-24
Washington	State	C583-19	08-03-23 *
West Virginia DEP	State	354	11-30-23
Wisconsin	State	999615430	08-31-24
Wyoming (UST)	A2LA	2907.01	10-31-22 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Denver

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Grand Island Resources

Job Number: 280-182133-1

Login Number: 182133

List Number: 1

Creator: Roehsner, Karen P

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	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?	N/A	
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 $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

APPENDIX C SURFACE WATER ANALYTICAL RESULTS

APPENDIX C.1 JULY 2023 SURFACE WATER ANALYTICAL RESULTS

ANALYTICAL REPORT

PREPARED FOR

Attn: Brooke Molson Moran
Grand Island Resources
12567 West Cedar Road
Suite 250
Lakewood, Colorado 80228

Generated 8/24/2023 12:46:39 PM

JOB DESCRIPTION

Nederland, CO - Surface Water

JOB NUMBER

280-179680-1

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: Grand Island Resources
Project/Site: Nederland, CO - Surface Water

Job ID: 280-179680-1

Qualifiers

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
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	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.
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.
α	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

Case Narrative

Client: Grand Island Resources
Project/Site: Nederland, CO - Surface Water

Job ID: 280-179680-1

Job ID: 280-179680-1

Laboratory: Eurofins Denver

Narrative

CASE NARRATIVE

Client: Grand Island Resources

Project: Nederland, CO - Surface Water

Report Number: 280-179680-1

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 07/28/2023; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 9.5 C.

Receipt temperature is considered acceptable as the samples were collected and submitted to the laboratory on the same date.

The Chain-of-Custody (COC) was improperly completed. Analyses were listed on COC, but individual samples were not designated for specific analyses. The samples were logged for all analysis listed on the COC for all samples based on historical project setup and information on the container labels of sample volume provided.

The Mercury sample kit containers for the following samples were accidentally unwrapped from their packaging during initial laboratory receipt at Eurofins TestAmerica's Denver laboratory. The containers were repacked into new packaging with clean gloves and subcontracted to Eurofins Pensacola laboratory for analysis: 2022-01 (280-179680-1), 2022-02 (280-179680-2), 2022-02 (280-179680-2[MS]), 2022-02-02 (280-179680-3), and 2022-02-03 (280-179680-4). The client was notified on 7/31/2023.

Due to laboratory login error, the sample volume labeled as 2022-02-MS, which was intended to be submitted to the laboratory in order for the laboratory to have extra sample volume to perform a matrix spike analysis associated with analysis of the corresponding parent sample 2022-02 (280-179680-2), was incorrectly logged as a parent sample, 2022-02-MS (280-179680-5), itself rather than as sample volume for MS analysis. As such the laboratory analyses performed on 2022-02-MS (280-179680-5) as a parent sample have been cancelled and not reported.

By virtue of random selection of client sample volume in order to fulfill laboratory batch QC requirements the laboratory performed MS analysis on client samples associated with this report for the following applicable analyses on the following parent samples:

- 3500 CR B Total Hexavalent Chromium (MS) performed on parent sample 2022-01 (280-179680-1)
- 3500 CR B Dissolved Hexavalent Chromium (Lab Filtered) (MS) performed on parent sample 2022-01 (280-179680-1)
- 4500 S2 D Sulfide (MS) performed on parent sample 2022-02-02 (280-179680-3)
- 200.8 Potentially Dissolved Metals (MS) performed on parent sample 2022-01 (280-179680-1)
- 200.7 Total Recoverable Iron (MS) performed on parent sample 2022-01 (280-179680-1)

The laboratory did not initially randomly select any client field samples associated with this report for the following analyses. As sufficient holding time and sufficient sample volume for these analyses was remaining when the login error was identified, the laboratory was able

Case Narrative

Client: Grand Island Resources
Project/Site: Nederland, CO - Surface Water

Job ID: 280-179680-1

Job ID: 280-179680-1 (Continued)

Laboratory: Eurofins Denver (Continued)

to re-prepare/analyze sample volume associated with parent sample 2022-02 (280-179680-2) with an MS in the batch from the same respective parent sample containers:

- 200.8 Total Recoverable Metals
- 245.1 Total Mercury
- 1631E Low Level Mercury

It can be noted that the laboratory does not perform matrix spike QC for the following analyses that were requested for parent sample 2022-02 (280-179680-2) therefore no corrective action was necessary:

- 2510B Specific Conductivity
- 2540D Total Suspended Solids
- 4500 H+ pH / temperature
- 3500 CR B Total Trivalent Chromium Calculation
- 3500 CR B Potentially Dissolved Trivalent Chromium Calculation
- 4500 S2 H Unionized Hydrogen Sulfide Calculation

The client was notified of the matrix spike (MS) login error on 8/14/2023 and approved of the laboratory's corrective actions to ensure (MS) data was reported on at least one of the client's field samples in this sample set for all analyses applicable to matrix spike (MS) analysis.

TOTAL RECOVERABLE METALS (ICP)

Samples 2022-01 (280-179680-1), 2022-02 (280-179680-2), 2022-02-02 (280-179680-3) and 2022-02-03 (280-179680-4) were analyzed for Total Recoverable Metals (ICP) in accordance with EPA Method 200.7. The samples were prepared on 08/07/2023 and analyzed on 08/08/2023.

Iron was detected in method blank MB 280-621976/1-A at a level was above the method detection limit but below the reporting limit. The value should be considered an estimate and has been qualified accordingly. 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 (280-179680-1), 2022-02 (280-179680-2), 2022-02-02 (280-179680-3) and 2022-02-03 (280-179680-4) were analyzed for potentially dissolved metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared on 08/07/2023 and analyzed on 08/08/2023 and 08/09/2023.

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.

Manganese and Silver were detected in method blank MB 280-621201/1-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.

Zinc failed the recovery criteria low for the MSD of sample 2022-01 (280-179680-1) in batch 280-622280. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits. 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 (280-179680-1), 2022-02 (280-179680-2), 2022-02-02 (280-179680-3) and 2022-02-03 (280-179680-4) were analyzed for total recoverable metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared and analyzed on 08/07/2023 and 08/17/2023.

Case Narrative

Client: Grand Island Resources
Project/Site: Nederland, CO - Surface Water

Job ID: 280-179680-1

Job ID: 280-179680-1 (Continued)

Laboratory: Eurofins Denver (Continued)

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 (280-179680-1), 2022-02 (280-179680-2), 2022-02-02 (280-179680-3) and 2022-02-03 (280-179680-4) were analyzed for total mercury (CVAA) in accordance with EPA Method 245.1. The samples were prepared on 08/09/2023 and 08/16/2023 and analyzed on 08/10/2023 and 08/17/2023.

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 (280-179680-1), 2022-02 (280-179680-2), 2022-02-02 (280-179680-3) and 2022-02-03 (280-179680-4) were analyzed for Trivalent Chromium - Potentially Dissolved in accordance with SM3500_CR3_B. The samples were analyzed on 08/10/2023.

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 (280-179680-1), 2022-02 (280-179680-2), 2022-02-02 (280-179680-3) and 2022-02-03 (280-179680-4) were analyzed for Trivalent Chromium - Total Recoverable in accordance with SM3500_CR3_B. The samples were analyzed on 08/10/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SPECIFIC CONDUCTIVITY

Samples 2022-01 (280-179680-1), 2022-02 (280-179680-2), 2022-02-02 (280-179680-3) and 2022-02-03 (280-179680-4) were analyzed for specific conductivity in accordance with SM20 2510B. The samples were analyzed on 08/08/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL SUSPENDED SOLIDS

Samples 2022-01 (280-179680-1), 2022-02 (280-179680-2), 2022-02-02 (280-179680-3) and 2022-02-03 (280-179680-4) were analyzed for total suspended solids in accordance with SM20 2540D. The samples were analyzed on 08/02/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED HEXAVALENT CHROMIUM

Samples 2022-01 (280-179680-1), 2022-02 (280-179680-2), 2022-02-02 (280-179680-3) and 2022-02-03 (280-179680-4) were analyzed for dissolved hexavalent chromium in accordance with SM 3500 CR B. The samples were analyzed on 07/28/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HEXAVALENT CHROMIUM

Samples 2022-01 (280-179680-1), 2022-02 (280-179680-2), 2022-02-02 (280-179680-3) and 2022-02-03 (280-179680-4) were analyzed for hexavalent chromium in accordance with 3500_CR_B. The samples were analyzed on 07/28/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

CORROSIVITY (PH)

Samples 2022-01 (280-179680-1), 2022-02 (280-179680-2), 2022-02-02 (280-179680-3) and 2022-02-03 (280-179680-4) were analyzed for corrosivity (pH) in accordance with SM20 4500 H+ B. The samples were analyzed on 08/07/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SULFIDE

Samples 2022-01 (280-179680-1), 2022-02 (280-179680-2), 2022-02-02 (280-179680-3) and 2022-02-03 (280-179680-4) were analyzed for sulfide in accordance with SM20 4500 S2 D. The samples were analyzed on 07/31/2023.

Case Narrative

Client: Grand Island Resources
Project/Site: Nederland, CO - Surface Water

Job ID: 280-179680-1

Job ID: 280-179680-1 (Continued)

Laboratory: Eurofins Denver (Continued)

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HYDROGEN SULFIDE

Samples 2022-01 (280-179680-1), 2022-02 (280-179680-2), 2022-02-02 (280-179680-3) and 2022-02-03 (280-179680-4) were analyzed for Hydrogen Sulfide in accordance with SM20 4500 S2 H. The samples were analyzed on 08/01/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

LOW LEVEL MERCURY

Samples 2022-01 (280-179680-1), 2022-02 (280-179680-2), 2022-02-02 (280-179680-3) and 2022-02-03 (280-179680-4) were analyzed for Low Level Mercury in accordance with EPA 1631. The samples were prepared on 08/01/2023 and analyzed on 08/09/2023 and 08/17/2023.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Grand Island Resources
Project/Site: Nederland, CO - Surface Water

Job ID: 280-179680-1

Client Sample ID: 2022-01

Lab Sample ID: 280-179680-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Mercury	2.7		0.50	0.20	ng/L	1			1631E	Total/NA
Iron	230	B	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	0.25	J	1.0	0.23	ug/L	1			200.8	Total Recoverable
Zinc	2.4	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	0.42	J	1.0	0.23	ug/L	1			200.8	Potentially Dissolved
Manganese	26	B	3.0	0.51	ug/L	1			200.8	Potentially Dissolved
Silver	0.15	J B	0.50	0.045	ug/L	1			200.8	Potentially Dissolved
Zinc	9.6	J F1	10	2.0	ug/L	1			200.8	Potentially Dissolved
Specific Conductance	75		2.0	2.0	umhos/cm	1			SM 2510B	Total/NA
pH adj. to 25 deg C	7.4	HF	0.1	0.1	SU	1			SM 4500 H+ B	Total/NA
Temperature	19.4	HF	1.0	1.0	Degrees C	1			SM 4500 H+ B	Total/NA
Field pH	7.4		1.0	1.0	SU	1			SM4500 S2 H	Total/NA
Field Temperature	19		1.0	1.0	Celsius	1			SM4500 S2 H	Total/NA
Specific Conductance	75		2.0	2.0	umhos/cm	1			SM4500 S2 H	Total/NA

Client Sample ID: 2022-02

Lab Sample ID: 280-179680-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Mercury	2.9		0.50	0.20	ng/L	1			1631E	Total/NA
Iron	170	B	100	9.1	ug/L	1			200.7 Rev 4.4	Total Recoverable
Chromium	0.57	J	3.0	0.50	ug/L	1			200.8	Total Recoverable
Copper	0.90	J	2.0	0.71	ug/L	1			200.8	Total Recoverable
Lead	0.78	J	1.0	0.23	ug/L	1			200.8	Total Recoverable
Zinc	15		10	2.0	ug/L	1			200.8	Total Recoverable
Copper	1.2	J	2.0	0.71	ug/L	1			200.8	Potentially Dissolved
Lead	0.59	J	1.0	0.23	ug/L	1			200.8	Potentially Dissolved
Manganese	4.3	B	3.0	0.51	ug/L	1			200.8	Potentially Dissolved
Silver	0.068	J B	0.50	0.045	ug/L	1			200.8	Potentially Dissolved
Zinc	16		10	2.0	ug/L	1			200.8	Potentially Dissolved
Specific Conductance	190		2.0	2.0	umhos/cm	1			SM 2510B	Total/NA
pH adj. to 25 deg C	8.0	HF	0.1	0.1	SU	1			SM 4500 H+ B	Total/NA
Temperature	19.3	HF	1.0	1.0	Degrees C	1			SM 4500 H+ B	Total/NA
Field pH	8.0		1.0	1.0	SU	1			SM4500 S2 H	Total/NA
Field Temperature	19		1.0	1.0	Celsius	1			SM4500 S2 H	Total/NA
Specific Conductance	190		2.0	2.0	umhos/cm	1			SM4500 S2 H	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Denver

Detection Summary

Client: Grand Island Resources
Project/Site: Nederland, CO - Surface Water

Job ID: 280-179680-1

Client Sample ID: 2022-02-02

Lab Sample ID: 280-179680-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Mercury	2.6		0.50	0.20	ng/L	1			1631E	Total/NA
Iron	200	B	100	9.1	ug/L	1			200.7 Rev 4.4	Total Recoverable
Copper	1.2	J	2.0	0.71	ug/L	1			200.8	Total Recoverable
Lead	0.80	J	1.0	0.23	ug/L	1			200.8	Total Recoverable
Zinc	16		10	2.0	ug/L	1			200.8	Total Recoverable
Copper	1.1	J	2.0	0.71	ug/L	1			200.8	Potentially Dissolved
Lead	0.58	J	1.0	0.23	ug/L	1			200.8	Potentially Dissolved
Manganese	4.3	B	3.0	0.51	ug/L	1			200.8	Potentially Dissolved
Zinc	16		10	2.0	ug/L	1			200.8	Potentially Dissolved
Specific Conductance	190		2.0	2.0	umhos/cm	1			SM 2510B	Total/NA
Total Suspended Solids	1.2	J	4.0	1.1	mg/L	1			SM 2540D	Total/NA
pH adj. to 25 deg C	8.0	HF	0.1	0.1	SU	1			SM 4500 H+ B	Total/NA
Temperature	19.6	HF	1.0	1.0	Degrees C	1			SM 4500 H+ B	Total/NA
Field pH	8.0		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	190		2.0	2.0	umhos/cm	1			SM4500 S2 H	Total/NA

Client Sample ID: 2022-02-03

Lab Sample ID: 280-179680-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Mercury	0.33	J	0.50	0.20	ng/L	1			1631E	Total/NA
Zinc	7.0	J	10	2.0	ug/L	1			200.8	Potentially Dissolved
pH adj. to 25 deg C	6.3	HF	0.1	0.1	SU	1			SM 4500 H+ B	Total/NA
Temperature	19.8	HF	1.0	1.0	Degrees C	1			SM 4500 H+ B	Total/NA
Field pH	6.3		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

This Detection Summary does not include radiochemical test results.

Eurofins Denver

Method Summary

Client: Grand Island Resources
Project/Site: Nederland, CO - Surface Water

Job ID: 280-179680-1

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 - Surface Water

Job ID: 280-179680-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-179680-1	2022-01	Water	07/28/23 09:30	07/28/23 15:30
280-179680-2	2022-02	Water	07/28/23 09:00	07/28/23 15:30
280-179680-3	2022-02-02	Water	07/28/23 09:00	07/28/23 15:30
280-179680-4	2022-02-03	Water	07/28/23 09:00	07/28/23 15:30

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Client Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Surface Water

Job ID: 280-179680-1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Client Sample ID: 2022-01
Date Collected: 07/28/23 09:30
Date Received: 07/28/23 15:30

Lab Sample ID: 280-179680-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	2.7		0.50	0.20	ng/L		08/01/23 16:40	08/09/23 12:59	1

Client Sample ID: 2022-02
Date Collected: 07/28/23 09:00
Date Received: 07/28/23 15:30

Lab Sample ID: 280-179680-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	2.9		0.50	0.20	ng/L		08/01/23 16:40	08/17/23 09:28	1

Client Sample ID: 2022-02-02
Date Collected: 07/28/23 09:00
Date Received: 07/28/23 15:30

Lab Sample ID: 280-179680-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	2.6		0.50	0.20	ng/L		08/01/23 16:40	08/09/23 13:14	1

Client Sample ID: 2022-02-03
Date Collected: 07/28/23 09:00
Date Received: 07/28/23 15:30

Lab Sample ID: 280-179680-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.33	J	0.50	0.20	ng/L		08/01/23 16:40	08/09/23 13:22	1

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Client Sample ID: 2022-01
Date Collected: 07/28/23 09:30
Date Received: 07/28/23 15:30

Lab Sample ID: 280-179680-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	230	B	100	9.1	ug/L		08/07/23 14:45	08/08/23 21:46	1

Client Sample ID: 2022-02
Date Collected: 07/28/23 09:00
Date Received: 07/28/23 15:30

Lab Sample ID: 280-179680-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	170	B	100	9.1	ug/L		08/07/23 14:45	08/08/23 22:16	1

Client Sample ID: 2022-02-02
Date Collected: 07/28/23 09:00
Date Received: 07/28/23 15:30

Lab Sample ID: 280-179680-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	200	B	100	9.1	ug/L		08/07/23 14:45	08/08/23 22:20	1

Client Sample ID: 2022-02-03
Date Collected: 07/28/23 09:00
Date Received: 07/28/23 15:30

Lab Sample ID: 280-179680-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		100	9.1	ug/L		08/07/23 14:45	08/08/23 22:24	1

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Client Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Surface Water

Job ID: 280-179680-1

Method: EPA 200.8 - Metals (ICP/MS) - Total Recoverable

Client Sample ID: 2022-01
Date Collected: 07/28/23 09:30
Date Received: 07/28/23 15:30

Lab Sample ID: 280-179680-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		08/07/23 07:46	08/07/23 17:50	1
Cadmium	ND		1.0	0.19	ug/L		08/07/23 07:46	08/07/23 17:50	1
Chromium	ND		3.0	0.50	ug/L		08/07/23 07:46	08/07/23 17:50	1
Copper	2.2		2.0	0.71	ug/L		08/07/23 07:46	08/07/23 17:50	1
Lead	0.25	J	1.0	0.23	ug/L		08/07/23 07:46	08/07/23 17:50	1
Zinc	2.4	J	10	2.0	ug/L		08/07/23 07:46	08/07/23 17:50	1

Client Sample ID: 2022-02
Date Collected: 07/28/23 09:00
Date Received: 07/28/23 15:30

Lab Sample ID: 280-179680-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		08/17/23 07:43	08/17/23 18:32	1
Cadmium	ND		1.0	0.19	ug/L		08/17/23 07:43	08/17/23 18:32	1
Chromium	0.57	J	3.0	0.50	ug/L		08/17/23 07:43	08/17/23 18:32	1
Copper	0.90	J	2.0	0.71	ug/L		08/17/23 07:43	08/17/23 18:32	1
Lead	0.78	J	1.0	0.23	ug/L		08/17/23 07:43	08/17/23 18:32	1
Zinc	15		10	2.0	ug/L		08/17/23 07:43	08/17/23 18:32	1

Client Sample ID: 2022-02-02
Date Collected: 07/28/23 09:00
Date Received: 07/28/23 15:30

Lab Sample ID: 280-179680-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		08/07/23 07:46	08/07/23 17:57	1
Cadmium	ND		1.0	0.19	ug/L		08/07/23 07:46	08/07/23 17:57	1
Chromium	ND		3.0	0.50	ug/L		08/07/23 07:46	08/07/23 17:57	1
Copper	1.2	J	2.0	0.71	ug/L		08/07/23 07:46	08/07/23 17:57	1
Lead	0.80	J	1.0	0.23	ug/L		08/07/23 07:46	08/07/23 17:57	1
Zinc	16		10	2.0	ug/L		08/07/23 07:46	08/07/23 17:57	1

Client Sample ID: 2022-02-03
Date Collected: 07/28/23 09:00
Date Received: 07/28/23 15:30

Lab Sample ID: 280-179680-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		08/07/23 07:46	08/07/23 18:00	1
Cadmium	ND		1.0	0.19	ug/L		08/07/23 07:46	08/07/23 18:00	1
Chromium	ND		3.0	0.50	ug/L		08/07/23 07:46	08/07/23 18:00	1
Copper	ND		2.0	0.71	ug/L		08/07/23 07:46	08/07/23 18:00	1
Lead	ND		1.0	0.23	ug/L		08/07/23 07:46	08/07/23 18:00	1
Zinc	ND		10	2.0	ug/L		08/07/23 07:46	08/07/23 18:00	1

Method: EPA 200.8 - Metals (ICP/MS) - Potentially Dissolved

Client Sample ID: 2022-01
Date Collected: 07/28/23 09:30
Date Received: 07/28/23 15:30

Lab Sample ID: 280-179680-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		08/07/23 14:45	08/08/23 21:46	1
Cadmium	ND		1.0	0.19	ug/L		08/07/23 14:45	08/08/23 21:46	1
Chromium	ND		3.0	0.50	ug/L		08/07/23 14:45	08/08/23 21:46	1
Copper	2.0		2.0	0.71	ug/L		08/07/23 14:45	08/09/23 17:45	1
Lead	0.42	J	1.0	0.23	ug/L		08/07/23 14:45	08/08/23 21:46	1

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Client Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Surface Water

Job ID: 280-179680-1

Method: EPA 200.8 - Metals (ICP/MS) - Potentially Dissolved (Continued)

Client Sample ID: 2022-01
Date Collected: 07/28/23 09:30
Date Received: 07/28/23 15:30

Lab Sample ID: 280-179680-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	26	B	3.0	0.51	ug/L		08/07/23 14:45	08/09/23 17:45	1
Nickel	ND		3.0	0.83	ug/L		08/07/23 14:45	08/09/23 17:45	1
Selenium	ND		5.0	1.0	ug/L		08/07/23 14:45	08/08/23 21:46	1
Silver	0.15	J B	0.50	0.045	ug/L		08/07/23 14:45	08/09/23 17:45	1
Zinc	9.6	J F1	10	2.0	ug/L		08/07/23 14:45	08/08/23 21:46	1

Client Sample ID: 2022-02
Date Collected: 07/28/23 09:00
Date Received: 07/28/23 15:30

Lab Sample ID: 280-179680-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		08/07/23 14:45	08/08/23 21:57	1
Cadmium	ND		1.0	0.19	ug/L		08/07/23 14:45	08/08/23 21:57	1
Chromium	ND		3.0	0.50	ug/L		08/07/23 14:45	08/08/23 21:57	1
Copper	1.2	J	2.0	0.71	ug/L		08/07/23 14:45	08/09/23 17:56	1
Lead	0.59	J	1.0	0.23	ug/L		08/07/23 14:45	08/08/23 21:57	1
Manganese	4.3	B	3.0	0.51	ug/L		08/07/23 14:45	08/09/23 17:56	1
Nickel	ND		3.0	0.83	ug/L		08/07/23 14:45	08/09/23 17:56	1
Selenium	ND		5.0	1.0	ug/L		08/07/23 14:45	08/08/23 21:57	1
Silver	0.068	J B	0.50	0.045	ug/L		08/07/23 14:45	08/09/23 17:56	1
Zinc	16		10	2.0	ug/L		08/07/23 14:45	08/08/23 21:57	1

Client Sample ID: 2022-02-02
Date Collected: 07/28/23 09:00
Date Received: 07/28/23 15:30

Lab Sample ID: 280-179680-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		08/07/23 14:45	08/08/23 22:00	1
Cadmium	ND		1.0	0.19	ug/L		08/07/23 14:45	08/08/23 22:00	1
Chromium	ND		3.0	0.50	ug/L		08/07/23 14:45	08/08/23 22:00	1
Copper	1.1	J	2.0	0.71	ug/L		08/07/23 14:45	08/09/23 17:59	1
Lead	0.58	J	1.0	0.23	ug/L		08/07/23 14:45	08/08/23 22:00	1
Manganese	4.3	B	3.0	0.51	ug/L		08/07/23 14:45	08/09/23 17:59	1
Nickel	ND		3.0	0.83	ug/L		08/07/23 14:45	08/09/23 17:59	1
Selenium	ND		5.0	1.0	ug/L		08/07/23 14:45	08/08/23 22:00	1
Silver	ND		0.50	0.045	ug/L		08/07/23 14:45	08/09/23 17:59	1
Zinc	16		10	2.0	ug/L		08/07/23 14:45	08/08/23 22:00	1

Client Sample ID: 2022-02-03
Date Collected: 07/28/23 09:00
Date Received: 07/28/23 15:30

Lab Sample ID: 280-179680-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		08/07/23 14:45	08/08/23 22:04	1
Cadmium	ND		1.0	0.19	ug/L		08/07/23 14:45	08/08/23 22:04	1
Chromium	ND		3.0	0.50	ug/L		08/07/23 14:45	08/08/23 22:04	1
Copper	ND		2.0	0.71	ug/L		08/07/23 14:45	08/09/23 18:03	1
Lead	ND		1.0	0.23	ug/L		08/07/23 14:45	08/08/23 22:04	1
Manganese	ND		3.0	0.51	ug/L		08/07/23 14:45	08/09/23 18:03	1
Nickel	ND		3.0	0.83	ug/L		08/07/23 14:45	08/09/23 18:03	1
Selenium	ND		5.0	1.0	ug/L		08/07/23 14:45	08/08/23 22:04	1
Silver	ND		0.50	0.045	ug/L		08/07/23 14:45	08/09/23 18:03	1
Zinc	7.0	J	10	2.0	ug/L		08/07/23 14:45	08/08/23 22:04	1

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Client Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Surface Water

Job ID: 280-179680-1

Method: EPA 245.1 - Mercury (CVAA)

Client Sample ID: 2022-01
Date Collected: 07/28/23 09:30
Date Received: 07/28/23 15:30

Lab Sample ID: 280-179680-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.061	ug/L		08/09/23 20:35	08/10/23 16:49	1

Client Sample ID: 2022-02
Date Collected: 07/28/23 09:00
Date Received: 07/28/23 15:30

Lab Sample ID: 280-179680-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.061	ug/L		08/16/23 18:33	08/17/23 17:52	1

Client Sample ID: 2022-02-02
Date Collected: 07/28/23 09:00
Date Received: 07/28/23 15:30

Lab Sample ID: 280-179680-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.061	ug/L		08/09/23 20:35	08/10/23 16:54	1

Client Sample ID: 2022-02-03
Date Collected: 07/28/23 09:00
Date Received: 07/28/23 15:30

Lab Sample ID: 280-179680-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.061	ug/L		08/09/23 20:35	08/10/23 16:57	1

General Chemistry

Client Sample ID: 2022-01
Date Collected: 07/28/23 09:30
Date Received: 07/28/23 15:30

Lab Sample ID: 280-179680-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (SM 2510B)	75		2.0	2.0	umhos/cm			08/08/23 15:39	1
Total Suspended Solids (SM 2540D)	ND		4.0	1.1	mg/L			08/02/23 15:18	1
Chromium, hexavalent (SM 3500 CR B)	ND		0.020	0.0040	mg/L			07/28/23 18:02	1
pH adj. to 25 deg C (SM 4500 H+ B)	7.4	HF	0.1	0.1	SU			08/07/23 13:04	1
Temperature (SM 4500 H+ B)	19.4	HF	1.0	1.0	Degrees C			08/07/23 13:04	1
Sulfide (SM 4500 S2 D)	ND		0.050	0.022	mg/L			07/31/23 15:36	1
Un-ionized Hydrogen Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			08/01/23 11:13	1
Field pH (SM4500 S2 H)	7.4		1.0	1.0	SU			08/01/23 11:13	1
Field Temperature (SM4500 S2 H)	19		1.0	1.0	Celsius			08/01/23 11:13	1
Specific Conductance (SM4500 S2 H)	75		2.0	2.0	umhos/cm			08/01/23 11:13	1
Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			08/01/23 11:13	1

Client Sample ID: 2022-02
Date Collected: 07/28/23 09:00
Date Received: 07/28/23 15:30

Lab Sample ID: 280-179680-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (SM 2510B)	190		2.0	2.0	umhos/cm			08/08/23 15:39	1
Total Suspended Solids (SM 2540D)	ND		4.0	1.1	mg/L			08/02/23 15:18	1
Chromium, hexavalent (SM 3500 CR B)	ND		0.020	0.0040	mg/L			07/28/23 18:36	1
pH adj. to 25 deg C (SM 4500 H+ B)	8.0	HF	0.1	0.1	SU			08/07/23 13:04	1
Temperature (SM 4500 H+ B)	19.3	HF	1.0	1.0	Degrees C			08/07/23 13:04	1
Sulfide (SM 4500 S2 D)	ND		0.050	0.022	mg/L			07/31/23 15:36	1

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Client Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Surface Water

Job ID: 280-179680-1

General Chemistry (Continued)

Client Sample ID: 2022-02
Date Collected: 07/28/23 09:00
Date Received: 07/28/23 15:30

Lab Sample ID: 280-179680-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Un-ionized Hydrogen Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			08/01/23 11:13	1
Field pH (SM4500 S2 H)	8.0		1.0	1.0	SU			08/01/23 11:13	1
Field Temperature (SM4500 S2 H)	19		1.0	1.0	Celsius			08/01/23 11:13	1
Specific Conductance (SM4500 S2 H)	190		2.0	2.0	umhos/cm			08/01/23 11:13	1
Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			08/01/23 11:13	1

Client Sample ID: 2022-02-02
Date Collected: 07/28/23 09:00
Date Received: 07/28/23 15:30

Lab Sample ID: 280-179680-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (SM 2510B)	190		2.0	2.0	umhos/cm			08/08/23 15:39	1
Total Suspended Solids (SM 2540D)	1.2	J	4.0	1.1	mg/L			08/02/23 15:18	1
Chromium, hexavalent (SM 3500 CR B)	ND		0.020	0.0040	mg/L			07/28/23 18:25	1
pH adj. to 25 deg C (SM 4500 H+ B)	8.0	HF	0.1	0.1	SU			08/07/23 13:04	1
Temperature (SM 4500 H+ B)	19.6	HF	1.0	1.0	Degrees C			08/07/23 13:04	1
Sulfide (SM 4500 S2 D)	ND		0.050	0.022	mg/L			07/31/23 15:34	1
Un-ionized Hydrogen Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			08/01/23 11:13	1
Field pH (SM4500 S2 H)	8.0		1.0	1.0	SU			08/01/23 11:13	1
Field Temperature (SM4500 S2 H)	20		1.0	1.0	Celsius			08/01/23 11:13	1
Specific Conductance (SM4500 S2 H)	190		2.0	2.0	umhos/cm			08/01/23 11:13	1
Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			08/01/23 11:13	1

Client Sample ID: 2022-02-03
Date Collected: 07/28/23 09:00
Date Received: 07/28/23 15:30

Lab Sample ID: 280-179680-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (SM 2510B)	ND		2.0	2.0	umhos/cm			08/08/23 15:39	1
Total Suspended Solids (SM 2540D)	ND		4.0	1.1	mg/L			08/02/23 15:18	1
Chromium, hexavalent (SM 3500 CR B)	ND		0.020	0.0040	mg/L			07/28/23 18:26	1
pH adj. to 25 deg C (SM 4500 H+ B)	6.3	HF	0.1	0.1	SU			08/07/23 13:04	1
Temperature (SM 4500 H+ B)	19.8	HF	1.0	1.0	Degrees C			08/07/23 13:04	1
Sulfide (SM 4500 S2 D)	ND		0.050	0.022	mg/L			07/31/23 15:35	1
Un-ionized Hydrogen Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			08/01/23 11:13	1
Field pH (SM4500 S2 H)	6.3		1.0	1.0	SU			08/01/23 11:13	1
Field Temperature (SM4500 S2 H)	20		1.0	1.0	Celsius			08/01/23 11:13	1
Specific Conductance (SM4500 S2 H)	ND		2.0	2.0	umhos/cm			08/01/23 11:13	1
Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			08/01/23 11:13	1

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Client Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Surface Water

Job ID: 280-179680-1

General Chemistry - Total Recoverable

Client Sample ID: 2022-01
Date Collected: 07/28/23 09:30
Date Received: 07/28/23 15:30

Lab Sample ID: 280-179680-1
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			08/10/23 12:45	1

Client Sample ID: 2022-02
Date Collected: 07/28/23 09:00
Date Received: 07/28/23 15:30

Lab Sample ID: 280-179680-2
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			08/10/23 12:45	1

Client Sample ID: 2022-02-02
Date Collected: 07/28/23 09:00
Date Received: 07/28/23 15:30

Lab Sample ID: 280-179680-3
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			08/10/23 12:45	1

Client Sample ID: 2022-02-03
Date Collected: 07/28/23 09:00
Date Received: 07/28/23 15:30

Lab Sample ID: 280-179680-4
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			08/10/23 12:45	1

General Chemistry - Dissolved

Client Sample ID: 2022-01
Date Collected: 07/28/23 09:30
Date Received: 07/28/23 15:30

Lab Sample ID: 280-179680-1
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			07/28/23 18:54	1

Client Sample ID: 2022-02
Date Collected: 07/28/23 09:00
Date Received: 07/28/23 15:30

Lab Sample ID: 280-179680-2
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			07/28/23 19:00	1

Client Sample ID: 2022-02-02
Date Collected: 07/28/23 09:00
Date Received: 07/28/23 15:30

Lab Sample ID: 280-179680-3
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			07/28/23 19:00	1

Client Sample ID: 2022-02-03
Date Collected: 07/28/23 09:00
Date Received: 07/28/23 15:30

Lab Sample ID: 280-179680-4
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			07/28/23 19:03	1

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Client Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Surface Water

Job ID: 280-179680-1

General Chemistry - Potentially Dissolved

Client Sample ID: 2022-01
Date Collected: 07/28/23 09:30
Date Received: 07/28/23 15:30

Lab Sample ID: 280-179680-1
Matrix: 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	-		08/10/23 12:45	1

Client Sample ID: 2022-02
Date Collected: 07/28/23 09:00
Date Received: 07/28/23 15:30

Lab Sample ID: 280-179680-2
Matrix: 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	-		08/10/23 12:45	1

Client Sample ID: 2022-02-02
Date Collected: 07/28/23 09:00
Date Received: 07/28/23 15:30

Lab Sample ID: 280-179680-3
Matrix: 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	-		08/10/23 12:45	1

Client Sample ID: 2022-02-03
Date Collected: 07/28/23 09:00
Date Received: 07/28/23 15:30

Lab Sample ID: 280-179680-4
Matrix: 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	-		08/10/23 12:45	1

QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Surface Water

Job ID: 280-179680-1

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 400-636362/3-A
Matrix: Water
Analysis Batch: 636449

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 636362

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.50	0.20	ng/L		08/08/23 16:00	08/09/23 10:02	1

Lab Sample ID: LCS 400-636362/4-A
Matrix: Water
Analysis Batch: 636449

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 636362

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	4.89		ng/L		98	79 - 121

Lab Sample ID: LCSD 400-636362/5-A
Matrix: Water
Analysis Batch: 636449

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 636362

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	5.00	4.87		ng/L		97	79 - 121	0	20

Lab Sample ID: MB 400-637266/3-A
Matrix: Water
Analysis Batch: 637411

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 637266

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.50	0.20	ng/L		08/16/23 14:36	08/17/23 09:05	1

Lab Sample ID: LCS 400-637266/4-A
Matrix: Water
Analysis Batch: 637411

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 637266

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	5.16		ng/L		103	79 - 121

Lab Sample ID: LCSD 400-637266/5-A
Matrix: Water
Analysis Batch: 637411

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 637266

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	5.00	5.14		ng/L		103	79 - 121	0	20

Lab Sample ID: 280-179680-2MS
Matrix: Water
Analysis Batch: 637411

Client Sample ID: 2022-02
Prep Type: Total/NA
Prep Batch: 637266

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	2.6		5.00	8.00		ng/L		108	71 - 125

QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Surface Water

Job ID: 280-179680-1

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 280-621976/1-A

Matrix: Water

Analysis Batch: 622295

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 621976

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	25.2	J	100	9.1	ug/L		08/07/23 14:45	08/08/23 21:15	1

Lab Sample ID: LCS 280-621976/2-A

Matrix: Water

Analysis Batch: 622295

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 621976

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	10000	9860		ug/L		99	85 - 115

Lab Sample ID: 280-179680-1 MS

Matrix: Water

Analysis Batch: 622295

Client Sample ID: 2022-01

Prep Type: Total Recoverable

Prep Batch: 621976

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	230	B	10000	9830		ug/L		96	70 - 130

Lab Sample ID: 280-179680-1 MSD

Matrix: Water

Analysis Batch: 622295

Client Sample ID: 2022-01

Prep Type: Total Recoverable

Prep Batch: 621976

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron	230	B	10000	10000		ug/L		98	70 - 130	2	20

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 280-621860/1-A

Matrix: Water

Analysis Batch: 622121

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 621860

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		08/07/23 07:46	08/07/23 17:10	1
Cadmium	ND		1.0	0.19	ug/L		08/07/23 07:46	08/07/23 17:10	1
Chromium	ND		3.0	0.50	ug/L		08/07/23 07:46	08/07/23 17:10	1
Copper	ND		2.0	0.71	ug/L		08/07/23 07:46	08/07/23 17:10	1
Lead	ND		1.0	0.23	ug/L		08/07/23 07:46	08/07/23 17:10	1
Zinc	ND		10	2.0	ug/L		08/07/23 07:46	08/07/23 17:10	1

Lab Sample ID: LCS 280-621860/2-A

Matrix: Water

Analysis Batch: 622121

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 621860

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	40.0	42.1		ug/L		105	89 - 111
Cadmium	40.0	42.2		ug/L		105	89 - 111
Chromium	40.0	42.2		ug/L		105	86 - 115
Copper	40.0	42.2		ug/L		105	90 - 115
Lead	40.0	42.4		ug/L		106	88 - 115
Zinc	40.0	44.7		ug/L		112	88 - 115

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QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Surface Water

Job ID: 280-179680-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 280-623192/1-A

Matrix: Water

Analysis Batch: 623417

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 623192

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		08/17/23 07:43	08/17/23 18:27	1
Cadmium	ND		1.0	0.19	ug/L		08/17/23 07:43	08/17/23 18:27	1
Chromium	ND		3.0	0.50	ug/L		08/17/23 07:43	08/17/23 18:27	1
Copper	ND		2.0	0.71	ug/L		08/17/23 07:43	08/17/23 18:27	1
Lead	ND		1.0	0.23	ug/L		08/17/23 07:43	08/17/23 18:27	1
Zinc	ND		10	2.0	ug/L		08/17/23 07:43	08/17/23 18:27	1

Lab Sample ID: LCS 280-623192/2-A

Matrix: Water

Analysis Batch: 623417

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 623192

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	40.0	40.7		ug/L		102	89 - 111
Cadmium	40.0	39.1		ug/L		98	89 - 111
Chromium	40.0	40.6		ug/L		102	86 - 115
Copper	40.0	39.7		ug/L		99	90 - 115
Lead	40.0	39.4		ug/L		99	88 - 115
Zinc	40.0	39.7		ug/L		99	88 - 115

Lab Sample ID: 280-179680-2 MSD

Matrix: Water

Analysis Batch: 623417

Client Sample ID: 2022-02

Prep Type: Total Recoverable

Prep Batch: 623192

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	ND		40.0	40.1		ug/L		100	79 - 120	3	20
Cadmium	ND		40.0	39.4		ug/L		98	89 - 111	1	20
Chromium	0.57	J	40.0	40.0		ug/L		99	86 - 115	2	20
Copper	0.90	J	40.0	40.1		ug/L		98	90 - 115	1	20
Lead	0.78	J	40.0	40.4		ug/L		99	88 - 115	2	20
Zinc	15		40.0	53.2		ug/L		95	88 - 115	3	20

Lab Sample ID: 280-179680-2MS

Matrix: Water

Analysis Batch: 623417

Client Sample ID: 2022-02

Prep Type: Total Recoverable

Prep Batch: 623192

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	ND		40.0	41.2		ug/L		103	79 - 120
Cadmium	ND		40.0	39.1		ug/L		98	89 - 111
Chromium	0.57	J	40.0	40.9		ug/L		101	86 - 115
Copper	0.90	J	40.0	40.3		ug/L		99	90 - 115
Lead	0.78	J	40.0	39.7		ug/L		97	88 - 115
Zinc	15		40.0	55.0		ug/L		99	88 - 115

Lab Sample ID: MB 280-621201/1-B

Matrix: Water

Analysis Batch: 622280

Client Sample ID: Method Blank

Prep Type: Potentially Dissolved

Prep Batch: 621997

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		08/07/23 14:45	08/08/23 21:39	1

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QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Surface Water

Job ID: 280-179680-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 280-621201/1-B
Matrix: Water
Analysis Batch: 622280

Client Sample ID: Method Blank
Prep Type: Potentially Dissolved
Prep Batch: 621997

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		1.0	0.19	ug/L		08/07/23 14:45	08/08/23 21:39	1
Chromium	ND		3.0	0.50	ug/L		08/07/23 14:45	08/08/23 21:39	1
Lead	ND		1.0	0.23	ug/L		08/07/23 14:45	08/08/23 21:39	1
Selenium	ND		5.0	1.0	ug/L		08/07/23 14:45	08/08/23 21:39	1
Zinc	ND		10	2.0	ug/L		08/07/23 14:45	08/08/23 21:39	1

Lab Sample ID: MB 280-621201/1-B
Matrix: Water
Analysis Batch: 622442

Client Sample ID: Method Blank
Prep Type: Potentially Dissolved
Prep Batch: 621997

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		2.0	0.71	ug/L		08/07/23 14:45	08/09/23 17:38	1
Manganese	0.698	J	3.0	0.51	ug/L		08/07/23 14:45	08/09/23 17:38	1
Nickel	ND		3.0	0.83	ug/L		08/07/23 14:45	08/09/23 17:38	1
Silver	0.159	J	0.50	0.045	ug/L		08/07/23 14:45	08/09/23 17:38	1

Lab Sample ID: LCS 280-621201/2-B
Matrix: Water
Analysis Batch: 622280

Client Sample ID: Lab Control Sample
Prep Type: Potentially Dissolved
Prep Batch: 621997

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	40.0	40.4		ug/L		101	89 - 111
Cadmium	40.0	39.3		ug/L		98	89 - 111
Chromium	40.0	36.5		ug/L		91	86 - 115
Lead	40.0	38.6		ug/L		96	88 - 115
Selenium	40.0	40.2		ug/L		100	85 - 114
Zinc	40.0	36.7		ug/L		92	88 - 115

Lab Sample ID: LCS 280-621201/2-B
Matrix: Water
Analysis Batch: 622442

Client Sample ID: Lab Control Sample
Prep Type: Potentially Dissolved
Prep Batch: 621997

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Copper	40.0	38.8		ug/L		97	90 - 115
Manganese	40.0	39.2		ug/L		98	87 - 115
Nickel	40.0	40.3		ug/L		101	86 - 115
Silver	40.0	37.5		ug/L		94	90 - 114

Lab Sample ID: 280-179680-1 MS
Matrix: Water
Analysis Batch: 622280

Client Sample ID: 2022-01
Prep Type: Potentially Dissolved
Prep Batch: 621997

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	ND		40.0	40.1		ug/L		100	79 - 120
Cadmium	ND		40.0	39.3		ug/L		98	89 - 111
Chromium	ND		40.0	36.1		ug/L		90	86 - 115
Lead	0.42	J	40.0	39.2		ug/L		97	88 - 115
Selenium	ND		40.0	39.7		ug/L		99	85 - 114
Zinc	9.6	J F1	40.0	44.9		ug/L		88	88 - 115

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QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Surface Water

Job ID: 280-179680-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: 280-179680-1 MS

Matrix: Water

Analysis Batch: 622442

Client Sample ID: 2022-01
Prep Type: Potentially Dissolved
Prep Batch: 621997

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Copper	2.0		40.0	39.8		ug/L		95	90 - 115
Manganese	26	B	40.0	64.2		ug/L		97	87 - 115
Nickel	ND		40.0	38.3		ug/L		96	86 - 115
Silver	0.15	J B	40.0	37.6		ug/L		94	70 - 130

Lab Sample ID: 280-179680-1 MSD

Matrix: Water

Analysis Batch: 622280

Client Sample ID: 2022-01
Prep Type: Potentially Dissolved
Prep Batch: 621997

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	ND		40.0	40.1		ug/L		100	79 - 120	0	20
Cadmium	ND		40.0	39.1		ug/L		98	89 - 111	0	20
Chromium	ND		40.0	36.7		ug/L		92	86 - 115	2	20
Lead	0.42	J	40.0	39.1		ug/L		97	88 - 115	0	20
Selenium	ND		40.0	39.0		ug/L		98	85 - 114	2	20
Zinc	9.6	J F1	40.0	44.1	F1	ug/L		86	88 - 115	2	20

Lab Sample ID: 280-179680-1 MSD

Matrix: Water

Analysis Batch: 622442

Client Sample ID: 2022-01
Prep Type: Potentially Dissolved
Prep Batch: 621997

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Copper	2.0		40.0	40.1		ug/L		95	90 - 115	1	20
Manganese	26	B	40.0	64.1		ug/L		96	87 - 115	0	20
Nickel	ND		40.0	38.6		ug/L		97	86 - 115	1	20
Silver	0.15	J B	40.0	37.9		ug/L		94	70 - 130	1	20

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 280-622320/1-A

Matrix: Water

Analysis Batch: 622578

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 622320

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.061	ug/L		08/09/23 20:35	08/10/23 15:35	1

Lab Sample ID: LCS 280-622320/2-A

Matrix: Water

Analysis Batch: 622578

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 622320

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	5.16		ug/L		103	90 - 110

Lab Sample ID: MB 280-623219/1-A

Matrix: Water

Analysis Batch: 623446

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 623219

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.061	ug/L		08/16/23 18:33	08/17/23 17:47	1

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QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Surface Water

Job ID: 280-179680-1

Method: 245.1 - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 280-623219/2-A
Matrix: Water
Analysis Batch: 623446

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 623219

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	4.79		ug/L		96	90 - 110

Lab Sample ID: 280-179680-2 MSD
Matrix: Water
Analysis Batch: 623446

Client Sample ID: 2022-02
Prep Type: Total/NA
Prep Batch: 623219

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Mercury	ND		5.00	4.72		ug/L					

Lab Sample ID: 280-179680-2MS
Matrix: Water
Analysis Batch: 623446

Client Sample ID: 2022-02
Prep Type: Total/NA
Prep Batch: 623219

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		5.00	4.74		ug/L		95	80 - 120

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: MB 280-622241/5
Matrix: Water
Analysis Batch: 622241

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	ND		2.0	2.0	umhos/cm			08/08/23 15:39	1

Lab Sample ID: LCS 280-622241/4
Matrix: Water
Analysis Batch: 622241

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Specific Conductance	1410	1470		umhos/cm		104	90 - 110

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 280-621617/1
Matrix: Water
Analysis Batch: 621617

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	1.1	mg/L			08/02/23 15:16	1

Lab Sample ID: LCS 280-621617/2
Matrix: Water
Analysis Batch: 621617

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	503	540		mg/L		107	79 - 114

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QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Surface Water

Job ID: 280-179680-1

Method: SM 2540D - Solids, Total Suspended (TSS) (Continued)

Lab Sample ID: LCSD 280-621617/3

Matrix: Water

Analysis Batch: 621617

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Suspended Solids	504	469		mg/L		93	79 - 114	14	20

Method: SM 3500 CR B - Chromium, Hexavalent

Lab Sample ID: MB 280-621196/10

Matrix: Water

Analysis Batch: 621196

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		0.020	0.0040	mg/L			07/28/23 18:01	1

Lab Sample ID: LCS 280-621196/8

Matrix: Water

Analysis Batch: 621196

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chromium, hexavalent	0.100	0.103		mg/L		103	91 - 112		

Lab Sample ID: LCSD 280-621196/9

Matrix: Water

Analysis Batch: 621196

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chromium, hexavalent	0.100	0.104		mg/L		104	91 - 112	1	20

Lab Sample ID: 280-179680-1 MS

Matrix: Water

Analysis Batch: 621196

Client Sample ID: 2022-01

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chromium, hexavalent	ND		0.100	0.111		mg/L		111	91 - 112		

Lab Sample ID: 280-179680-1 MSD

Matrix: Water

Analysis Batch: 621196

Client Sample ID: 2022-01

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chromium, hexavalent	ND		0.100	0.112		mg/L		112	91 - 112	1	20

Lab Sample ID: 280-179680-1 DU

Matrix: Water

Analysis Batch: 621196

Client Sample ID: 2022-01

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Chromium, hexavalent	ND			ND		mg/L				NC	20

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QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Surface Water

Job ID: 280-179680-1

Method: SM 3500 CR B - Chromium, Hexavalent (Continued)

Lab Sample ID: MB 280-621188/3-A
Matrix: Water
Analysis Batch: 621196

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		0.020	0.0040	mg/L			07/28/23 18:51	1

Lab Sample ID: LCS 280-621188/1-A
Matrix: Water
Analysis Batch: 621196

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium, hexavalent	0.100	0.107		mg/L		107	91 - 112

Lab Sample ID: LCSD 280-621188/2-A
Matrix: Water
Analysis Batch: 621196

Client Sample ID: Lab Control Sample Dup
Prep Type: Dissolved

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chromium, hexavalent	0.100	0.107		mg/L		107	91 - 112	0	20

Lab Sample ID: 280-179680-1 MS
Matrix: Water
Analysis Batch: 621196

Client Sample ID: 2022-01
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium, hexavalent	ND		0.100	0.101		mg/L		101	91 - 112

Lab Sample ID: 280-179680-1 MSD
Matrix: Water
Analysis Batch: 621196

Client Sample ID: 2022-01
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chromium, hexavalent	ND		0.100	0.102		mg/L		102	91 - 112	1	20

Lab Sample ID: 280-179680-1 DU
Matrix: Water
Analysis Batch: 621196

Client Sample ID: 2022-01
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chromium, hexavalent	ND		ND		mg/L		NC	20

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 280-622050/4
Matrix: Water
Analysis Batch: 622050

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH adj. to 25 deg C	7.00	7.0		SU		100	99 - 101

QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Surface Water

Job ID: 280-179680-1

Method: SM 4500 H+ B - pH (Continued)

Lab Sample ID: 280-179680-1 DU

Matrix: Water

Analysis Batch: 622050

Client Sample ID: 2022-01

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH adj. to 25 deg C	7.4	HF	7.4		SU		0.7	5
Temperature	19.4	HF	19.0		Degrees C		2	10

Method: SM 4500 S2 D - Sulfide, Total

Lab Sample ID: MB 280-621340/11

Matrix: Water

Analysis Batch: 621340

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		0.050	0.022	mg/L			07/31/23 15:33	1

Lab Sample ID: LCS 280-621340/9

Matrix: Water

Analysis Batch: 621340

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	0.500	0.461		mg/L		92	81 - 122

Lab Sample ID: LCSD 280-621340/10

Matrix: Water

Analysis Batch: 621340

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	0.500	0.475		mg/L		95	81 - 122	3	10

Lab Sample ID: 280-179680-3 MS

Matrix: Water

Analysis Batch: 621340

Client Sample ID: 2022-02-02

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	ND		0.500	0.451		mg/L		90	81 - 122

Lab Sample ID: 280-179680-3 MSD

Matrix: Water

Analysis Batch: 621340

Client Sample ID: 2022-02-02

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	ND		0.500	0.456		mg/L		91	81 - 122	1	10

QC Association Summary

Client: Grand Island Resources
Project/Site: Nederland, CO - Surface Water

Job ID: 280-179680-1

Metals

Filtration Batch: 621201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179680-1	2022-01	Potentially Dissolved	Water	Poten_Diss_Met	
280-179680-2	2022-02	Potentially Dissolved	Water	Poten_Diss_Met	
280-179680-3	2022-02-02	Potentially Dissolved	Water	Poten_Diss_Met	
280-179680-4	2022-02-03	Potentially Dissolved	Water	Poten_Diss_Met	
MB 280-621201/1-B	Method Blank	Potentially Dissolved	Water	Poten_Diss_Met	
LCS 280-621201/2-B	Lab Control Sample	Potentially Dissolved	Water	Poten_Diss_Met	
280-179680-1 MS	2022-01	Potentially Dissolved	Water	Poten_Diss_Met	
280-179680-1 MSD	2022-01	Potentially Dissolved	Water	Poten_Diss_Met	

Prep Batch: 621860

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179680-1	2022-01	Total Recoverable	Water	200.8	
280-179680-3	2022-02-02	Total Recoverable	Water	200.8	
280-179680-4	2022-02-03	Total Recoverable	Water	200.8	
MB 280-621860/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-621860/2-A	Lab Control Sample	Total Recoverable	Water	200.8	

Prep Batch: 621976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179680-1	2022-01	Total Recoverable	Water	200.7	
280-179680-2	2022-02	Total Recoverable	Water	200.7	
280-179680-3	2022-02-02	Total Recoverable	Water	200.7	
280-179680-4	2022-02-03	Total Recoverable	Water	200.7	
MB 280-621976/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 280-621976/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
280-179680-1 MS	2022-01	Total Recoverable	Water	200.7	
280-179680-1 MSD	2022-01	Total Recoverable	Water	200.7	

Prep Batch: 621997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179680-1	2022-01	Potentially Dissolved	Water	200.8	621201
280-179680-2	2022-02	Potentially Dissolved	Water	200.8	621201
280-179680-3	2022-02-02	Potentially Dissolved	Water	200.8	621201
280-179680-4	2022-02-03	Potentially Dissolved	Water	200.8	621201
MB 280-621201/1-B	Method Blank	Potentially Dissolved	Water	200.8	621201
LCS 280-621201/2-B	Lab Control Sample	Potentially Dissolved	Water	200.8	621201
280-179680-1 MS	2022-01	Potentially Dissolved	Water	200.8	621201
280-179680-1 MSD	2022-01	Potentially Dissolved	Water	200.8	621201

Analysis Batch: 622121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179680-1	2022-01	Total Recoverable	Water	200.8	621860
280-179680-3	2022-02-02	Total Recoverable	Water	200.8	621860
280-179680-4	2022-02-03	Total Recoverable	Water	200.8	621860
MB 280-621860/1-A	Method Blank	Total Recoverable	Water	200.8	621860
LCS 280-621860/2-A	Lab Control Sample	Total Recoverable	Water	200.8	621860

Analysis Batch: 622280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179680-1	2022-01	Potentially Dissolved	Water	200.8	621997
280-179680-2	2022-02	Potentially Dissolved	Water	200.8	621997

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QC Association Summary

Client: Grand Island Resources
Project/Site: Nederland, CO - Surface Water

Job ID: 280-179680-1

Metals (Continued)

Analysis Batch: 622280 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179680-3	2022-02-02	Potentially Dissolved	Water	200.8	621997
280-179680-4	2022-02-03	Potentially Dissolved	Water	200.8	621997
MB 280-621201/1-B	Method Blank	Potentially Dissolved	Water	200.8	621997
LCS 280-621201/2-B	Lab Control Sample	Potentially Dissolved	Water	200.8	621997
280-179680-1 MS	2022-01	Potentially Dissolved	Water	200.8	621997
280-179680-1 MSD	2022-01	Potentially Dissolved	Water	200.8	621997

Analysis Batch: 622295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179680-1	2022-01	Total Recoverable	Water	200.7 Rev 4.4	621976
280-179680-2	2022-02	Total Recoverable	Water	200.7 Rev 4.4	621976
280-179680-3	2022-02-02	Total Recoverable	Water	200.7 Rev 4.4	621976
280-179680-4	2022-02-03	Total Recoverable	Water	200.7 Rev 4.4	621976
MB 280-621976/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	621976
LCS 280-621976/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	621976
280-179680-1 MS	2022-01	Total Recoverable	Water	200.7 Rev 4.4	621976
280-179680-1 MSD	2022-01	Total Recoverable	Water	200.7 Rev 4.4	621976

Prep Batch: 622320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179680-1	2022-01	Total/NA	Water	245.1	
280-179680-3	2022-02-02	Total/NA	Water	245.1	
280-179680-4	2022-02-03	Total/NA	Water	245.1	
MB 280-622320/1-A	Method Blank	Total/NA	Water	245.1	
LCS 280-622320/2-A	Lab Control Sample	Total/NA	Water	245.1	

Analysis Batch: 622442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179680-1	2022-01	Potentially Dissolved	Water	200.8	621997
280-179680-2	2022-02	Potentially Dissolved	Water	200.8	621997
280-179680-3	2022-02-02	Potentially Dissolved	Water	200.8	621997
280-179680-4	2022-02-03	Potentially Dissolved	Water	200.8	621997
MB 280-621201/1-B	Method Blank	Potentially Dissolved	Water	200.8	621997
LCS 280-621201/2-B	Lab Control Sample	Potentially Dissolved	Water	200.8	621997
280-179680-1 MS	2022-01	Potentially Dissolved	Water	200.8	621997
280-179680-1 MSD	2022-01	Potentially Dissolved	Water	200.8	621997

Analysis Batch: 622578

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179680-1	2022-01	Total/NA	Water	245.1	622320
280-179680-3	2022-02-02	Total/NA	Water	245.1	622320
280-179680-4	2022-02-03	Total/NA	Water	245.1	622320
MB 280-622320/1-A	Method Blank	Total/NA	Water	245.1	622320
LCS 280-622320/2-A	Lab Control Sample	Total/NA	Water	245.1	622320

Prep Batch: 623192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179680-2	2022-02	Total Recoverable	Water	200.8	
MB 280-623192/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-623192/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
280-179680-2 MSD	2022-02	Total Recoverable	Water	200.8	

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QC Association Summary

Client: Grand Island Resources
Project/Site: Nederland, CO - Surface Water

Job ID: 280-179680-1

Metals (Continued)

Prep Batch: 623192 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179680-2MS	2022-02	Total Recoverable	Water	200.8	

Prep Batch: 623219

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179680-2	2022-02	Total/NA	Water	245.1	
MB 280-623219/1-A	Method Blank	Total/NA	Water	245.1	
LCS 280-623219/2-A	Lab Control Sample	Total/NA	Water	245.1	
280-179680-2 MSD	2022-02	Total/NA	Water	245.1	
280-179680-2MS	2022-02	Total/NA	Water	245.1	

Analysis Batch: 623417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179680-2	2022-02	Total Recoverable	Water	200.8	623192
MB 280-623192/1-A	Method Blank	Total Recoverable	Water	200.8	623192
LCS 280-623192/2-A	Lab Control Sample	Total Recoverable	Water	200.8	623192
280-179680-2 MSD	2022-02	Total Recoverable	Water	200.8	623192
280-179680-2MS	2022-02	Total Recoverable	Water	200.8	623192

Analysis Batch: 623446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179680-2	2022-02	Total/NA	Water	245.1	623219
MB 280-623219/1-A	Method Blank	Total/NA	Water	245.1	623219
LCS 280-623219/2-A	Lab Control Sample	Total/NA	Water	245.1	623219
280-179680-2 MSD	2022-02	Total/NA	Water	245.1	623219
280-179680-2MS	2022-02	Total/NA	Water	245.1	623219

Prep Batch: 636362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179680-1	2022-01	Total/NA	Water	1631E	
280-179680-2	2022-02	Total/NA	Water	1631E	
280-179680-3	2022-02-02	Total/NA	Water	1631E	
280-179680-4	2022-02-03	Total/NA	Water	1631E	
MB 400-636362/3-A	Method Blank	Total/NA	Water	1631E	
LCS 400-636362/4-A	Lab Control Sample	Total/NA	Water	1631E	
LCSD 400-636362/5-A	Lab Control Sample Dup	Total/NA	Water	1631E	

Analysis Batch: 636449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179680-1	2022-01	Total/NA	Water	1631E	636362
280-179680-3	2022-02-02	Total/NA	Water	1631E	636362
280-179680-4	2022-02-03	Total/NA	Water	1631E	636362
MB 400-636362/3-A	Method Blank	Total/NA	Water	1631E	636362
LCS 400-636362/4-A	Lab Control Sample	Total/NA	Water	1631E	636362
LCSD 400-636362/5-A	Lab Control Sample Dup	Total/NA	Water	1631E	636362

Prep Batch: 637266

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 400-637266/3-A	Method Blank	Total/NA	Water	1631E	
LCS 400-637266/4-A	Lab Control Sample	Total/NA	Water	1631E	
LCSD 400-637266/5-A	Lab Control Sample Dup	Total/NA	Water	1631E	
280-179680-2MS	2022-02	Total/NA	Water	1631E	

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QC Association Summary

Client: Grand Island Resources
Project/Site: Nederland, CO - Surface Water

Job ID: 280-179680-1

Metals

Analysis Batch: 637411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179680-2	2022-02	Total/NA	Water	1631E	636362
MB 400-637266/3-A	Method Blank	Total/NA	Water	1631E	637266
LCS 400-637266/4-A	Lab Control Sample	Total/NA	Water	1631E	637266
LCSD 400-637266/5-A	Lab Control Sample Dup	Total/NA	Water	1631E	637266
280-179680-2MS	2022-02	Total/NA	Water	1631E	637266

General Chemistry

Filtration Batch: 621188

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179680-1	2022-01	Dissolved	Water	FILTRATION	
280-179680-2	2022-02	Dissolved	Water	FILTRATION	
280-179680-3	2022-02-02	Dissolved	Water	FILTRATION	
280-179680-4	2022-02-03	Dissolved	Water	FILTRATION	
MB 280-621188/3-A	Method Blank	Dissolved	Water	FILTRATION	
LCS 280-621188/1-A	Lab Control Sample	Dissolved	Water	FILTRATION	
LCSD 280-621188/2-A	Lab Control Sample Dup	Dissolved	Water	FILTRATION	
280-179680-1 MS	2022-01	Dissolved	Water	FILTRATION	
280-179680-1 MSD	2022-01	Dissolved	Water	FILTRATION	
280-179680-1 DU	2022-01	Dissolved	Water	FILTRATION	

Analysis Batch: 621196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179680-1	2022-01	Dissolved	Water	SM 3500 CR B	621188
280-179680-1	2022-01	Total/NA	Water	SM 3500 CR B	
280-179680-2	2022-02	Dissolved	Water	SM 3500 CR B	621188
280-179680-2	2022-02	Total/NA	Water	SM 3500 CR B	
280-179680-3	2022-02-02	Dissolved	Water	SM 3500 CR B	621188
280-179680-3	2022-02-02	Total/NA	Water	SM 3500 CR B	
280-179680-4	2022-02-03	Dissolved	Water	SM 3500 CR B	621188
280-179680-4	2022-02-03	Total/NA	Water	SM 3500 CR B	
MB 280-621188/3-A	Method Blank	Dissolved	Water	SM 3500 CR B	621188
MB 280-621196/10	Method Blank	Total/NA	Water	SM 3500 CR B	
LCS 280-621188/1-A	Lab Control Sample	Dissolved	Water	SM 3500 CR B	621188
LCS 280-621196/8	Lab Control Sample	Total/NA	Water	SM 3500 CR B	
LCSD 280-621188/2-A	Lab Control Sample Dup	Dissolved	Water	SM 3500 CR B	621188
LCSD 280-621196/9	Lab Control Sample Dup	Total/NA	Water	SM 3500 CR B	
280-179680-1 MS	2022-01	Dissolved	Water	SM 3500 CR B	621188
280-179680-1 MS	2022-01	Total/NA	Water	SM 3500 CR B	
280-179680-1 MSD	2022-01	Dissolved	Water	SM 3500 CR B	621188
280-179680-1 MSD	2022-01	Total/NA	Water	SM 3500 CR B	
280-179680-1 DU	2022-01	Dissolved	Water	SM 3500 CR B	621188
280-179680-1 DU	2022-01	Total/NA	Water	SM 3500 CR B	

Analysis Batch: 621340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179680-1	2022-01	Total/NA	Water	SM 4500 S2 D	
280-179680-2	2022-02	Total/NA	Water	SM 4500 S2 D	
280-179680-3	2022-02-02	Total/NA	Water	SM 4500 S2 D	
280-179680-4	2022-02-03	Total/NA	Water	SM 4500 S2 D	
MB 280-621340/11	Method Blank	Total/NA	Water	SM 4500 S2 D	

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QC Association Summary

Client: Grand Island Resources
Project/Site: Nederland, CO - Surface Water

Job ID: 280-179680-1

General Chemistry (Continued)

Analysis Batch: 621340 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 280-621340/9	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
LCSD 280-621340/10	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 D	
280-179680-3 MS	2022-02-02	Total/NA	Water	SM 4500 S2 D	
280-179680-3 MSD	2022-02-02	Total/NA	Water	SM 4500 S2 D	

Analysis Batch: 621435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179680-1	2022-01	Total/NA	Water	SM4500 S2 H	
280-179680-2	2022-02	Total/NA	Water	SM4500 S2 H	
280-179680-3	2022-02-02	Total/NA	Water	SM4500 S2 H	
280-179680-4	2022-02-03	Total/NA	Water	SM4500 S2 H	

Analysis Batch: 621617

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179680-1	2022-01	Total/NA	Water	SM 2540D	
280-179680-2	2022-02	Total/NA	Water	SM 2540D	
280-179680-3	2022-02-02	Total/NA	Water	SM 2540D	
280-179680-4	2022-02-03	Total/NA	Water	SM 2540D	
MB 280-621617/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 280-621617/2	Lab Control Sample	Total/NA	Water	SM 2540D	
LCSD 280-621617/3	Lab Control Sample Dup	Total/NA	Water	SM 2540D	

Analysis Batch: 622050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179680-1	2022-01	Total/NA	Water	SM 4500 H+ B	
280-179680-2	2022-02	Total/NA	Water	SM 4500 H+ B	
280-179680-3	2022-02-02	Total/NA	Water	SM 4500 H+ B	
280-179680-4	2022-02-03	Total/NA	Water	SM 4500 H+ B	
LCS 280-622050/4	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
280-179680-1 DU	2022-01	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 622241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179680-1	2022-01	Total/NA	Water	SM 2510B	
280-179680-2	2022-02	Total/NA	Water	SM 2510B	
280-179680-3	2022-02-02	Total/NA	Water	SM 2510B	
280-179680-4	2022-02-03	Total/NA	Water	SM 2510B	
MB 280-622241/5	Method Blank	Total/NA	Water	SM 2510B	
LCS 280-622241/4	Lab Control Sample	Total/NA	Water	SM 2510B	

Analysis Batch: 622519

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179680-1	2022-01	Potentially Dissolved	Water	SM3500 CR B	
280-179680-1	2022-01	Total Recoverable	Water	SM3500 CR B	
280-179680-2	2022-02	Potentially Dissolved	Water	SM3500 CR B	
280-179680-2	2022-02	Total Recoverable	Water	SM3500 CR B	
280-179680-3	2022-02-02	Potentially Dissolved	Water	SM3500 CR B	
280-179680-3	2022-02-02	Total Recoverable	Water	SM3500 CR B	
280-179680-4	2022-02-03	Potentially Dissolved	Water	SM3500 CR B	
280-179680-4	2022-02-03	Total Recoverable	Water	SM3500 CR B	

Eurofins Denver

Lab Chronicle

Client: Grand Island Resources
Project/Site: Nederland, CO - Surface Water

Job ID: 280-179680-1

Client Sample ID: 2022-01

Date Collected: 07/28/23 09:30

Date Received: 07/28/23 15:30

Lab Sample ID: 280-179680-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			40 mL	40 mL	636362	08/01/23 16:40	VLC	EET PEN
							Completed:	08/02/23 09:30 ¹		
Total/NA	Analysis	1631E		1			636449	08/09/23 12:59	VLC	EET PEN
Total Recoverable	Prep	200.7			50 mL	50 mL	621976	08/07/23 14:45	MSM	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			622295	08/08/23 21:46	ADL	EET DEN
Potentially Dissolved	Filtration	Poten_Diss_Met			200 mL	200 mL	621201	07/28/23 21:30	LRD	EET DEN
Potentially Dissolved	Prep	200.8			50 mL	50 mL	621997	08/07/23 14:45	MSM	EET DEN
Potentially Dissolved	Analysis	200.8		1			622280	08/08/23 21:46	LMT	EET DEN
Potentially Dissolved	Filtration	Poten_Diss_Met			200 mL	200 mL	621201	07/28/23 21:30	LRD	EET DEN
Potentially Dissolved	Prep	200.8			50 mL	50 mL	621997	08/07/23 14:45	MSM	EET DEN
Potentially Dissolved	Analysis	200.8		1			622442	08/09/23 17:45	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	621860	08/07/23 07:46	LJS	EET DEN
Total Recoverable	Analysis	200.8		1			622121	08/07/23 17:50	LMT	EET DEN
Total/NA	Prep	245.1			30 mL	50 mL	622320	08/09/23 20:35	PFM	EET DEN
Total/NA	Analysis	245.1		1			622578	08/10/23 16:49	PFM	EET DEN
Total/NA	Analysis	SM 2510B		1			622241	08/08/23 15:39	KEG	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	621617	08/02/23 15:18	SK	EET DEN
Dissolved	Filtration	FILTRATION			2 mL	2 mL	621188	07/28/23 17:09	LBR	EET DEN
Dissolved	Analysis	SM 3500 CR B		1	2 mL	2 mL	621196	07/28/23 18:54	LBR	EET DEN
Total/NA	Analysis	SM 3500 CR B		1	2 mL	2 mL	621196	07/28/23 18:02	LBR	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			622050	08/07/23 13:04	LL	EET DEN
Total/NA	Analysis	SM 4500 S2 D		1	2 mL	2 mL	621340	07/31/23 15:36	SL	EET DEN
Potentially Dissolved	Analysis	SM3500 CR B		1			622519	08/10/23 12:45	RMS	EET DEN
Total Recoverable	Analysis	SM3500 CR B		1			622519	08/10/23 12:45	RMS	EET DEN
Total/NA	Analysis	SM4500 S2 H		1			621435	08/01/23 11:13	ZPM	EET DEN

Client Sample ID: 2022-02

Date Collected: 07/28/23 09:00

Date Received: 07/28/23 15:30

Lab Sample ID: 280-179680-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			40 mL	40 mL	636362	08/01/23 16:40	VLC	EET PEN
							Completed:	08/02/23 09:30 ¹		
Total/NA	Analysis	1631E		1			637411	08/17/23 09:28	VLC	EET PEN
Total Recoverable	Prep	200.7			50 mL	50 mL	621976	08/07/23 14:45	MSM	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			622295	08/08/23 22:16	ADL	EET DEN
Potentially Dissolved	Filtration	Poten_Diss_Met			200 mL	200 mL	621201	07/28/23 21:30	LRD	EET DEN
Potentially Dissolved	Prep	200.8			50 mL	50 mL	621997	08/07/23 14:45	MSM	EET DEN
Potentially Dissolved	Analysis	200.8		1			622280	08/08/23 21:57	LMT	EET DEN
Potentially Dissolved	Filtration	Poten_Diss_Met			200 mL	200 mL	621201	07/28/23 21:30	LRD	EET DEN
Potentially Dissolved	Prep	200.8			50 mL	50 mL	621997	08/07/23 14:45	MSM	EET DEN
Potentially Dissolved	Analysis	200.8		1			622442	08/09/23 17:56	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	623192	08/17/23 07:43	KMS	EET DEN
Total Recoverable	Analysis	200.8		1			623417	08/17/23 18:32	LMT	EET DEN

Eurofins Denver

Lab Chronicle

Client: Grand Island Resources
Project/Site: Nederland, CO - Surface Water

Job ID: 280-179680-1

Client Sample ID: 2022-02

Date Collected: 07/28/23 09:00

Date Received: 07/28/23 15:30

Lab Sample ID: 280-179680-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	245.1			30 mL	50 mL	623219	08/16/23 18:33	PFM	EET DEN
Total/NA	Analysis	245.1		1			623446	08/17/23 17:52	PFM	EET DEN
Total/NA	Analysis	SM 2510B		1			622241	08/08/23 15:39	KEG	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	621617	08/02/23 15:18	SK	EET DEN
Dissolved	Filtration	FILTRATION			2 mL	2 mL	621188	07/28/23 17:09	LBR	EET DEN
Dissolved	Analysis	SM 3500 CR B		1	2 mL	2 mL	621196	07/28/23 19:00	LBR	EET DEN
Total/NA	Analysis	SM 3500 CR B		1	2 mL	2 mL	621196	07/28/23 18:36	LBR	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			622050	08/07/23 13:04	LL	EET DEN
Total/NA	Analysis	SM 4500 S2 D		1	2 mL	2 mL	621340	07/31/23 15:36	SL	EET DEN
Potentially Dissolved	Analysis	SM3500 CR B		1			622519	08/10/23 12:45	RMS	EET DEN
Total Recoverable	Analysis	SM3500 CR B		1			622519	08/10/23 12:45	RMS	EET DEN
Total/NA	Analysis	SM4500 S2 H		1			621435	08/01/23 11:13	ZPM	EET DEN

Client Sample ID: 2022-02-02

Date Collected: 07/28/23 09:00

Date Received: 07/28/23 15:30

Lab Sample ID: 280-179680-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			40 mL	40 mL	636362	08/01/23 16:40	VLC	EET PEN
							Completed:	08/02/23 09:30 ¹		
Total/NA	Analysis	1631E		1			636449	08/09/23 13:14	VLC	EET PEN
Total Recoverable	Prep	200.7			50 mL	50 mL	621976	08/07/23 14:45	MSM	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			622295	08/08/23 22:20	ADL	EET DEN
Potentially Dissolved	Filtration	Poten_Diss_Met			250 mL	250 mL	621201	07/28/23 21:30	LRD	EET DEN
Potentially Dissolved	Prep	200.8			50 mL	50 mL	621997	08/07/23 14:45	MSM	EET DEN
Potentially Dissolved	Analysis	200.8		1			622280	08/08/23 22:00	LMT	EET DEN
Potentially Dissolved	Filtration	Poten_Diss_Met			250 mL	250 mL	621201	07/28/23 21:30	LRD	EET DEN
Potentially Dissolved	Prep	200.8			50 mL	50 mL	621997	08/07/23 14:45	MSM	EET DEN
Potentially Dissolved	Analysis	200.8		1			622442	08/09/23 17:59	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	621860	08/07/23 07:46	LJS	EET DEN
Total Recoverable	Analysis	200.8		1			622121	08/07/23 17:57	LMT	EET DEN
Total/NA	Prep	245.1			30 mL	50 mL	622320	08/09/23 20:35	PFM	EET DEN
Total/NA	Analysis	245.1		1			622578	08/10/23 16:54	PFM	EET DEN
Total/NA	Analysis	SM 2510B		1			622241	08/08/23 15:39	KEG	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	621617	08/02/23 15:18	SK	EET DEN
Dissolved	Filtration	FILTRATION			2 mL	2 mL	621188	07/28/23 17:10	LBR	EET DEN
Dissolved	Analysis	SM 3500 CR B		1	2 mL	2 mL	621196	07/28/23 19:00	LBR	EET DEN
Total/NA	Analysis	SM 3500 CR B		1	2 mL	2 mL	621196	07/28/23 18:25	LBR	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			622050	08/07/23 13:04	LL	EET DEN
Total/NA	Analysis	SM 4500 S2 D		1	2 mL	2 mL	621340	07/31/23 15:34	SL	EET DEN
Potentially Dissolved	Analysis	SM3500 CR B		1			622519	08/10/23 12:45	RMS	EET DEN
Total Recoverable	Analysis	SM3500 CR B		1			622519	08/10/23 12:45	RMS	EET DEN
Total/NA	Analysis	SM4500 S2 H		1			621435	08/01/23 11:13	ZPM	EET DEN

Eurofins Denver

Lab Chronicle

Client: Grand Island Resources
Project/Site: Nederland, CO - Surface Water

Job ID: 280-179680-1

Client Sample ID: 2022-02-03

Lab Sample ID: 280-179680-4

Date Collected: 07/28/23 09:00

Matrix: Water

Date Received: 07/28/23 15:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			40 mL	40 mL	636362	08/01/23 16:40	VLC	EET PEN
							Completed:	08/02/23 09:30 ¹		
Total/NA	Analysis	1631E		1			636449	08/09/23 13:22	VLC	EET PEN
Total Recoverable	Prep	200.7			50 mL	50 mL	621976	08/07/23 14:45	MSM	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			622295	08/08/23 22:24	ADL	EET DEN
Potentially Dissolved	Filtration	Poten_Diss_Met			250 mL	250 mL	621201	07/28/23 21:30	LRD	EET DEN
Potentially Dissolved	Prep	200.8			50 mL	50 mL	621997	08/07/23 14:45	MSM	EET DEN
Potentially Dissolved	Analysis	200.8		1			622280	08/08/23 22:04	LMT	EET DEN
Potentially Dissolved	Filtration	Poten_Diss_Met			250 mL	250 mL	621201	07/28/23 21:30	LRD	EET DEN
Potentially Dissolved	Prep	200.8			50 mL	50 mL	621997	08/07/23 14:45	MSM	EET DEN
Potentially Dissolved	Analysis	200.8		1			622442	08/09/23 18:03	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	621860	08/07/23 07:46	LJS	EET DEN
Total Recoverable	Analysis	200.8		1			622121	08/07/23 18:00	LMT	EET DEN
Total/NA	Prep	245.1			30 mL	50 mL	622320	08/09/23 20:35	PFM	EET DEN
Total/NA	Analysis	245.1		1			622578	08/10/23 16:57	PFM	EET DEN
Total/NA	Analysis	SM 2510B		1			622241	08/08/23 15:39	KEG	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	621617	08/02/23 15:18	SK	EET DEN
Dissolved	Filtration	FILTRATION			2 mL	2 mL	621188	07/28/23 17:10	LBR	EET DEN
Dissolved	Analysis	SM 3500 CR B		1	2 mL	2 mL	621196	07/28/23 19:03	LBR	EET DEN
Total/NA	Analysis	SM 3500 CR B		1	2 mL	2 mL	621196	07/28/23 18:26	LBR	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			622050	08/07/23 13:04	LL	EET DEN
Total/NA	Analysis	SM 4500 S2 D		1	2 mL	2 mL	621340	07/31/23 15:35	SL	EET DEN
Potentially Dissolved	Analysis	SM3500 CR B		1			622519	08/10/23 12:45	RMS	EET DEN
Total Recoverable	Analysis	SM3500 CR B		1			622519	08/10/23 12:45	RMS	EET DEN
Total/NA	Analysis	SM4500 S2 H		1			621435	08/01/23 11:13	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 - Surface Water

Job ID: 280-179680-1

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	08-20-23
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
Iowa	State	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	06-30-24
Minnesota	NELAP	1788752	12-31-23
Nevada	State	CO000262020-1	07-31-24
New Hampshire	NELAP	2053	04-28-24
New Jersey	NELAP	230001	06-30-24
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	4025-019	01-08-24
Pennsylvania	NELAP	013	07-31-24
South Carolina	State	72002001	01-08-24
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	08-20-23
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	06-30-24
ANAB	ISO/IEC 17025	L2471	02-22-26
Arkansas DEQ	State	88-00689	08-31-23
California	State	2510	06-30-24
Florida	NELAP	E81010	06-30-24
Georgia	State	E81010(FL)	06-30-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Denver

Accreditation/Certification Summary

Client: Grand Island Resources
Project/Site: Nederland, CO - Surface Water

Job ID: 280-179680-1

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	06-30-24
Louisiana (All)	NELAP	30976	06-30-24
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	06-30-24
Tennessee	State	TN02907	06-30-24
Texas	NELAP	T104704286	09-30-23
US Fish & Wildlife	US Federal Programs	A22340	06-30-24
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

Chain of Custody Record

Client Information		Sampler: BM		Lab PM: Bienilius, Dylan T		Carrier Tracking No(s):		COC No:	
Client Contact: Brooke Molson Moran		Phone: 303-506-1618		E-Mail: Dylan.Bienilius@et.eurofins.com		State of Origin:		Page:	
Company: Grand Island Resources		PWSID:		Analysis Requested		Job #:			
Address: 12567 West Cedar Road Suite 250		Due Date Requested:		TAT Requested (days):		Compliance Project: ☐ Yes ☒ No		PO #:	
City: Lakewood		State, Zip: CO, 80466		Advance Payment Required		WO #:		Project #:	
Phone: 303-506-1618		Email: bmolsonm@gemporio.edu		Project Name: Nederland, CO		Site: Surface Water Sampling		SSOW#:	
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=Water, S=solid, O=soil, BT=Tissue, A=Air)	
2022-01		7/28/23		9:30		G		W	
2022-02		7/28/23		9:00		G		W	
2022-02-02		7/28/23		9:00		G		W	
2022-02-03		7/28/23		9:00		G		W	
2022-02-MS		7/28/23		9:00		G		W	
2022-01		7/28/23		9:30		G		W	
2022-02		7/28/23		9:00		G		W	
2022-02-02		7/28/23		9:00		G		W	
2022-02-03		7/28/23		9:00		G		W	
2022-02-MS		7/28/23		9:00		G		W	
2022-01		7/28/23		9:30		G		W	
2022-02		7/28/23		9:00		G		W	
2022-02-02		7/28/23		9:00		G		W	
2022-02-03		7/28/23		9:00		G		W	
2022-02-MS		7/28/23		9:00		G		W	
2022-01		7/28/23		9:30		G		W	
2022-02		7/28/23		9:00		G		W	
2022-02-02		7/28/23		9:00		G		W	
2022-02-03		7/28/23		9:00		G		W	
2022-02-MS		7/28/23		9:00		G		W	
2022-01		7/28/23		9:30		G		W	
2022-02		7/28/23		9:00		G		W	
2022-02-02		7/28/23		9:00		G		W	
2022-02-03		7/28/23		9:00		G		W	
2022-02-MS		7/28/23		9:00		G		W	
2022-01		7/28/23		9:30		G		W	
2022-02		7/28/23		9:00		G		W	
2022-02-02		7/28/23		9:00		G		W	
2022-02-03		7/28/23		9:00		G		W	
2022-02-MS		7/28/23		9:00		G		W	
2022-01		7/28/23		9:30		G		W	
2022-02		7/28/23		9:00		G		W	
2022-02-02		7/28/23		9:00		G		W	
2022-02-03		7/28/23		9:00		G		W	
2022-02-MS		7/28/23		9:00		G		W	
2022-01		7/28/23		9:30		G		W	
2022-02		7/28/23		9:00		G		W	
2022-02-02		7/28/23		9:00		G		W	
2022-02-03		7/28/23		9:00		G		W	
2022-02-MS		7/28/23		9:00		G		W	
2022-01		7/28/23		9:30		G		W	
2022-02		7/28/23		9:00		G		W	
2022-02-02		7/28/23		9:00		G		W	
2022-02-03		7/28/23		9:00		G		W	
2022-02-MS		7/28/23		9:00		G		W	
2022-01		7/28/23		9:30		G		W	
2022-02		7/28/23		9:00		G		W	
2022-02-02		7/28/23		9:00		G		W	
2022-02-03		7/28/23		9:00		G		W	
2022-02-MS		7/28/23		9:00		G		W	
2022-01		7/28/23		9:30		G		W	
2022-02		7/28/23		9:00		G		W	
2022-02-02		7/28/23		9:00		G		W	
2022-02-03		7/28/23		9:00		G		W	
2022-02-MS		7/28/23		9:00		G		W	
2022-01		7/28/23		9:30		G		W	
2022-02		7/28/23		9:00		G		W	
2022-02-02		7/28/23		9:00		G		W	
2022-02-03		7/28/23		9:00		G		W	
2022-02-MS		7/28/23		9:00		G		W	
2022-01		7/28/23		9:30		G		W	
2022-02		7/28/23		9:00		G		W	
2022-02-02		7/28/23		9:00		G		W	
2022-02-03		7/28/23		9:00		G		W	
2022-02-MS		7/28/23		9:00		G		W	
2022-01		7/28/23		9:30		G		W	
2022-02		7/28/23		9:00		G		W	
2022-02-02		7/28/23		9:00		G		W	
2022-02-03		7/28/23		9:00		G		W	
2022-02-MS		7/28/23		9:00		G		W	
2022-01		7/28/23		9:30		G		W	
2022-02		7/28/23		9:00		G		W	
2022-02-02		7/28/23		9:00		G		W	
2022-02-03		7/28/23		9:00		G		W	
2022-02-MS		7/28/23		9:00		G		W	
2022-01		7/28/23		9:30		G		W	
2022-02		7/28/23		9:00		G		W	
2022-02-02		7/28/23		9:00		G		W	
2022-02-03		7/28/23		9:00		G		W	
2022-02-MS		7/28/23		9:00		G		W	
2022-01		7/28/23		9:30		G		W	
2022-02		7/28/23		9:00		G		W	
2022-02-02		7/28/23		9:00		G		W	
2022-02-03		7/28/23		9:00		G		W	
2022-02-MS		7/28/23		9:00		G		W	
2022-01		7/28/23		9:30		G		W	
2022-02		7/28/23		9:00		G		W	
2022-02-02		7/28/23		9:00		G		W	
2022-02-03		7/28/23		9:00		G		W	
2022-02-MS		7/28/23		9:00		G		W	
2022-01		7/28/23		9:30		G		W	
2022-02		7/28/23		9:00		G		W	
2022-02-02		7/28/23		9:00		G		W	
2022-02-03		7/28/23		9:00		G		W	
2022-02-MS		7/28/23		9:00		G		W	
2022-01		7/28/23		9:30		G		W	
2022-02		7/28/23		9:00		G		W	
2022-02-02		7/28/23		9:00		G		W	
2022-02-03		7/28/23		9:00		G		W	
2022-02-MS		7/28/23		9:00		G		W	
2022-01		7/28/23		9:30		G		W	
2022-02		7/28/23		9:00		G		W	
2022-02-02		7/28/23		9:00		G		W	
2022-02-03		7/28/23		9:00		G		W	
2022-02-MS		7/28/23		9:00		G		W	
2022-01		7/28/23		9:30		G		W	
2022-02		7/28/23		9:00		G		W	
2022-02-02		7/28/23		9:00		G		W	
2022-02-03		7/28/23		9:00		G		W	
2022-02-MS		7/28/23		9:00		G		W	
2022-01		7/28/23		9:30		G		W	
2022-02		7/28/23		9:00		G		W	
2022-02-02		7/28/23		9:00		G		W	
2022-02-03		7/28/23		9:00		G		W	
2022-02-MS		7/28/23		9:00		G		W	
2022-01		7/28/23		9:30		G		W	
2022-02		7/28/23		9:00		G		W	
2022-02-02		7/28/23		9:00		G		W	
2022-02-03		7/28/23		9:00		G		W	
2022-02-MS		7/28/23		9:00		G		W	
2022-01		7/28/23		9:30		G		W	
2022-02		7/28/23		9:00		G		W	
2022-02-02		7/28/23		9:00		G		W	
2022-02-03		7/28/23		9:00		G		W	
2022-02-MS		7/28/23		9:00		G		W	
2022-01		7/28/23		9:30		G		W	
2022-02		7/28/23		9:00		G		W	
2022-02-02		7/28/23		9:00		G		W	
2022-02-03		7/28/23		9:00		G		W	
2022-02-MS		7/28/23		9:00		G		W	
2022-01		7/28/23		9:30		G		W	
2022-02		7/28/23		9:00		G		W	
2022-02-02		7/28/23		9:00		G		W	
2022-02-03		7/28/23		9:00		G		W	
2022-02-MS		7/28/23		9:00		G		W	
2022-01		7/28/23		9:30		G		W	
2022-02		7/28/23		9:00		G		W	
2022-02-02		7/28/23		9:00		G		W	
2022-02-03		7/28/23		9:00		G		W	
2022-02-MS		7/28/23		9:00		G		W	
2022-01		7/28/23		9:30		G		W	
2022-02		7/28/23		9:00		G		W	
2022-02-02		7/28/23		9:00		G		W	
2022-02-03		7/28/23		9:00		G		W	
2022-02-MS		7/28/23		9:00		G		W	
2022-01		7/28/23		9:30		G		W	
2022-02		7/28/23		9:00		G		W	
2022-02-02		7/28/23		9:00		G		W	
2022-02-03		7/28/23		9:00		G		W	
2022-02-MS		7/28/23		9:00		G		W	
2022-01		7/28/23		9:30		G		W	
2022-02		7/28/23		9:00		G		W	
2022-02-02		7/28/23		9:00		G		W	
2022-02-03		7/28/23		9:00		G		W	
2022-02-MS		7/28/23		9:00		G		W	
2022-01		7/28/23		9:30		G		W	
2022-02		7/28/23		9:00		G		W	
2022-02-02		7/28/23		9:00		G		W	
2022-02-03		7/28/23		9:00		G		W	
2022-02-MS		7/28/23		9:00		G		W	
2022-01		7/28/23		9:30		G		W	
2022-02		7/28/23		9:00		G		W	
2022-02-02		7/28/23		9:00		G		W	
2022-02-03		7/28/23		9:00		G		W	
2022-02-MS		7/28/23		9:00		G		W	
2022-01		7/28/23		9:30		G		W	
2022-02		7/28/23		9:00		G		W	
2022-02-02		7/28/23		9:00		G		W	
2022-02-03		7/28/23		9:00		G		W	
2022-02-MS		7/28/23		9:00		G		W	
2022-01		7/28/23		9:30		G		W	
2022-02		7/28/23		9:00		G		W	
2022-02-02		7/28/23		9:00		G		W	
2022-02-03		7/28/23		9:00		G		W	
2022-02-MS		7/28/23		9:00		G		W	
2022-01		7/28/23		9:30		G		W	
2022-02		7/28/23		9					

Login Sample Receipt Checklist

Client: Grand Island Resources

Job Number: 280-179680-1

Login Number: 179680

List Number: 1

Creator: Roehsner, Karen P

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	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.	False	Analyses listed on COC; individual samples not designated for specific analyses
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 $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Grand Island Resources

Job Number: 280-179680-1

Login Number: 179680

List Number: 2

Creator: Earnest, Tamantha

List Source: Eurofins Pensacola

List Creation: 08/01/23 10:04 AM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	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	0.0°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 $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Grand Island Resources

Job Number: 280-179680-1

Login Number: 179680

List Number: 3

Creator: Bieniulis, Dylan T

List Source: Eurofins Pensacola

List Creation: 08/16/23 09:38 AM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ 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 $<6\text{mm}$ (1/4").		
Multiphasic samples are not present.		
Samples do not require splitting or compositing.		
Residual Chlorine Checked.		

APPENDIX C.2 AUGUST 2023 SURFACE WATER ANALYTICAL RESULTS

ANALYTICAL REPORT

PREPARED FOR

Attn: Brooke Molson Moran
Grand Island Resources
12567 West Cedar Road
Suite 250
Lakewood, Colorado 80228

Generated 9/18/2023 3:17:52 PM

JOB DESCRIPTION

Nederland, CO - Surface Water

JOB NUMBER

280-180998-1

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: Grand Island Resources
Project/Site: Nederland, CO - Surface Water

Job ID: 280-180998-1

Qualifiers

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
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
B	Compound was found in the blank and sample.
F3	Duplicate RPD exceeds the control limit
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.
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.
α	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

Case Narrative

Client: Grand Island Resources
Project/Site: Nederland, CO - Surface Water

Job ID: 280-180998-1

Job ID: 280-180998-1

Laboratory: Eurofins Denver

Narrative

CASE NARRATIVE

Client: Grand Island Resources

Project: Nederland, CO - Surface Water

Report Number: 280-180998-1

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 08/31/2023; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 8.6 C.

Receipt temperature is considered acceptable as the samples were collected and submitted to the laboratory on the same date.

TOTAL RECOVERABLE METALS (ICP)

Samples 2022-02 (280-180998-1), 2022-02-02 (280-180998-2) and 2022-02-03 (280-180998-3) were analyzed for Total Recoverable Metals (ICP) in accordance with EPA Method 200.7. The samples were prepared on 09/01/2023 and analyzed on 09/05/2023.

Iron was detected in method blank MB 280-624929/1-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 2022-02 (280-180998-1), 2022-02-02 (280-180998-2) and 2022-02-03 (280-180998-3) were analyzed for potentially dissolved metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared on 09/05/2023 and 09/13/2023 and analyzed on 09/06/2023 and 09/15/2023.

Chromium was detected in method blank MB 280-625975/1-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.

Cadmium, Copper, Lead and Manganese failed the recovery criteria low for the MS of sample 2022-02 (280-180998-1) in batch 280-625350. Lead and Manganese failed the recovery criteria low for the MSD of sample 2022-02 (280-180998-1) in batch 280-625350. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits. 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.

Case Narrative

Client: Grand Island Resources
Project/Site: Nederland, CO - Surface Water

Job ID: 280-180998-1

Job ID: 280-180998-1 (Continued)

Laboratory: Eurofins Denver (Continued)

TOTAL RECOVERABLE METALS (ICPMS)

Samples 2022-02 (280-180998-1), 2022-02-02 (280-180998-2) and 2022-02-03 (280-180998-3) were analyzed for total recoverable metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared on 09/01/2023 and analyzed on 09/05/2023 and 09/06/2023.

Cadmium, Chromium and Copper failed the recovery criteria low for the MSD of sample 2022-02 (280-180998-1) in batch 280-625273. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits. 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)

Samples 2022-02 (280-180998-1), 2022-02-02 (280-180998-2) and 2022-02-03 (280-180998-3) were analyzed for total mercury (CVAA) in accordance with EPA Method 245.1. The samples were prepared and analyzed on 09/13/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TRIVALENT CHROMIUM - POTENTIALLY DISSOLVED

Samples 2022-02 (280-180998-1), 2022-02-02 (280-180998-2) and 2022-02-03 (280-180998-3) were analyzed for Trivalent Chromium - Potentially Dissolved in accordance with SM3500_CR3_B. The samples were analyzed on 09/14/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TRIVALENT CHROMIUM - TOTAL RECOVERABLE

Samples 2022-02 (280-180998-1), 2022-02-02 (280-180998-2) and 2022-02-03 (280-180998-3) were analyzed for Trivalent Chromium - Total Recoverable in accordance with SM3500_CR3_B. The samples were analyzed on 09/14/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SPECIFIC CONDUCTIVITY

Samples 2022-02 (280-180998-1), 2022-02-02 (280-180998-2) and 2022-02-03 (280-180998-3) were analyzed for specific conductivity in accordance with SM20 2510B. The samples were analyzed on 09/06/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL SUSPENDED SOLIDS

Samples 2022-02 (280-180998-1), 2022-02-02 (280-180998-2) and 2022-02-03 (280-180998-3) were analyzed for total suspended solids in accordance with SM20 2540D. The samples were analyzed on 09/01/2023.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED HEXAVALENT CHROMIUM

Samples 2022-02 (280-180998-1), 2022-02-02 (280-180998-2) and 2022-02-03 (280-180998-3) were analyzed for dissolved hexavalent chromium in accordance with SM 3500 CR B. The samples were analyzed on 08/31/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HEXAVALENT CHROMIUM

Samples 2022-02 (280-180998-1), 2022-02-02 (280-180998-2) and 2022-02-03 (280-180998-3) were analyzed for hexavalent chromium in accordance with 3500_CR_B. The samples were analyzed on 08/31/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

CORROSIVITY (PH)

Samples 2022-02 (280-180998-1), 2022-02-02 (280-180998-2) and 2022-02-03 (280-180998-3) were analyzed for corrosivity (pH) in

Case Narrative

Client: Grand Island Resources
Project/Site: Nederland, CO - Surface Water

Job ID: 280-180998-1

Job ID: 280-180998-1 (Continued)

Laboratory: Eurofins Denver (Continued)

accordance with SM20 4500 H+ B. The samples were analyzed on 09/06/2023.

pH adj. to 25 deg C exceeded the RPD limit for the duplicate of sample 2022-02 (280-180998-1). Sample non-homogeneity is suspected. Refer to the QC report for details.

Sample 2022-02 (280-180998-1) did not equilibrate to within 0.05 pH units after three measurements but its laboratory duplicate analysis did; therefore, the sample was not rerun.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SULFIDE

Samples 2022-02 (280-180998-1), 2022-02-02 (280-180998-2) and 2022-02-03 (280-180998-3) were analyzed for sulfide in accordance with SM20 4500 S2 D. The samples were analyzed on 09/01/2023.

Sulfide was detected in method blank MB 280-625088/11 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, 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

Samples 2022-02 (280-180998-1), 2022-02-02 (280-180998-2) and 2022-02-03 (280-180998-3) were analyzed for Hydrogen Sulfide in accordance with SM20 4500 S2 H. The samples were analyzed on 09/05/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

LOW LEVEL MERCURY

Samples 2022-02 (280-180998-1), 2022-02-02 (280-180998-2) and 2022-02-03 (280-180998-3) were analyzed for Low Level Mercury in accordance with EPA 1631. The samples were prepared on 09/08/2023 and analyzed on 09/12/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Grand Island Resources
Project/Site: Nederland, CO - Surface Water

Job ID: 280-180998-1

Client Sample ID: 2022-02

Lab Sample ID: 280-180998-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	1.8		0.50	0.20	ng/L	1		1631E	Total/NA
Iron	140	B	100	9.1	ug/L	1		200.7 Rev 4.4	Total Recoverable
Lead	0.48	J	1.0	0.23	ug/L	1		200.8	Total Recoverable
Zinc	14		10	2.0	ug/L	1		200.8	Total Recoverable
Cadmium	0.52	J F1	1.0	0.19	ug/L	1		200.8	Potentially Dissolved
Copper	3.8	F1	2.0	0.71	ug/L	1		200.8	Potentially Dissolved
Lead	24	F1	1.0	0.23	ug/L	1		200.8	Potentially Dissolved
Manganese	95	F1	3.0	0.51	ug/L	1		200.8	Potentially Dissolved
Zinc	55		10	2.0	ug/L	1		200.8	Potentially Dissolved
Specific Conductance	210		2.0	2.0	umhos/cm	1		SM 2510B	Total/NA
Total Suspended Solids	37		4.0	1.1	mg/L	1		SM 2540D	Total/NA
pH adj. to 25 deg C	7.4	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	7.4		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	210		2.0	2.0	umhos/cm	1		SM4500 S2 H	Total/NA

Client Sample ID: 2022-02-02

Lab Sample ID: 280-180998-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	5.8		0.50	0.20	ng/L	1		1631E	Total/NA
Iron	130	B	100	9.1	ug/L	1		200.7 Rev 4.4	Total Recoverable
Copper	0.73	J	2.0	0.71	ug/L	1		200.8	Total Recoverable
Lead	0.37	J	1.0	0.23	ug/L	1		200.8	Total Recoverable
Zinc	15		10	2.0	ug/L	1		200.8	Total Recoverable
Copper	0.77	J	2.0	0.71	ug/L	1		200.8	Potentially Dissolved
Lead	0.50	J	1.0	0.23	ug/L	1		200.8	Potentially Dissolved
Manganese	29		3.0	0.51	ug/L	1		200.8	Potentially Dissolved
Zinc	22		10	2.0	ug/L	1		200.8	Potentially Dissolved
Specific Conductance	210		2.0	2.0	umhos/cm	1		SM 2510B	Total/NA
pH adj. to 25 deg C	7.9	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
Sulfide	0.026	J B	0.050	0.022	mg/L	1		SM 4500 S2 D	Total/NA
Field pH	7.9		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	210		2.0	2.0	umhos/cm	1		SM4500 S2 H	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Denver

Detection Summary

Client: Grand Island Resources
Project/Site: Nederland, CO - Surface Water

Job ID: 280-180998-1

Client Sample ID: 2022-02-03

Lab Sample ID: 280-180998-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	9.2	J B	100	9.1	ug/L	1		200.7 Rev 4.4	Total
Zinc	4.1	J	10	2.0	ug/L	1		200.8	Recoverable
pH adj. to 25 deg C	7.9	HF	0.1	0.1	SU	1		SM 4500 H+ B	Potentially Dissolved
Temperature	20.8	HF	1.0	1.0	Degrees C	1		SM 4500 H+ B	Total/NA
Sulfide	0.025	J B	0.050	0.022	mg/L	1		SM 4500 S2 D	Total/NA
Field pH	7.9		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

Method Summary

Client: Grand Island Resources
Project/Site: Nederland, CO - Surface Water

Job ID: 280-180998-1

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 - Surface Water

Job ID: 280-180998-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-180998-1	2022-02	Water	08/31/23 09:00	08/31/23 15:33
280-180998-2	2022-02-02	Water	08/31/23 09:00	08/31/23 15:33
280-180998-3	2022-02-03	Water	08/31/23 09:00	08/31/23 15:33

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Client Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Surface Water

Job ID: 280-180998-1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Client Sample ID: 2022-02
Date Collected: 08/31/23 09:00
Date Received: 08/31/23 15:33

Lab Sample ID: 280-180998-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.8		0.50	0.20	ng/L		09/08/23 14:48	09/12/23 11:22	1

Client Sample ID: 2022-02-02
Date Collected: 08/31/23 09:00
Date Received: 08/31/23 15:33

Lab Sample ID: 280-180998-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	5.8		0.50	0.20	ng/L		09/08/23 14:48	09/12/23 11:38	1

Client Sample ID: 2022-02-03
Date Collected: 08/31/23 09:00
Date Received: 08/31/23 15:33

Lab Sample ID: 280-180998-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.50	0.20	ng/L		09/08/23 14:48	09/12/23 11:45	1

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Client Sample ID: 2022-02
Date Collected: 08/31/23 09:00
Date Received: 08/31/23 15:33

Lab Sample ID: 280-180998-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	140	B	100	9.1	ug/L		09/01/23 14:25	09/05/23 16:32	1

Client Sample ID: 2022-02-02
Date Collected: 08/31/23 09:00
Date Received: 08/31/23 15:33

Lab Sample ID: 280-180998-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	130	B	100	9.1	ug/L		09/01/23 14:25	09/05/23 17:07	1

Client Sample ID: 2022-02-03
Date Collected: 08/31/23 09:00
Date Received: 08/31/23 15:33

Lab Sample ID: 280-180998-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	9.2	J B	100	9.1	ug/L		09/01/23 14:25	09/05/23 17:12	1

Method: EPA 200.8 - Metals (ICP/MS) - Total Recoverable

Client Sample ID: 2022-02
Date Collected: 08/31/23 09:00
Date Received: 08/31/23 15:33

Lab Sample ID: 280-180998-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		09/01/23 14:25	09/05/23 15:22	1
Cadmium	ND	F1	1.0	0.19	ug/L		09/01/23 14:25	09/05/23 15:22	1
Chromium	ND	F1	3.0	0.50	ug/L		09/01/23 14:25	09/05/23 15:22	1
Copper	ND	F1	2.0	0.71	ug/L		09/01/23 14:25	09/05/23 15:22	1
Lead	0.48	J	1.0	0.23	ug/L		09/01/23 14:25	09/05/23 15:22	1
Zinc	14		10	2.0	ug/L		09/01/23 14:25	09/06/23 09:40	1

Client Sample ID: 2022-02-02
Date Collected: 08/31/23 09:00
Date Received: 08/31/23 15:33

Lab Sample ID: 280-180998-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		09/01/23 14:25	09/05/23 15:40	1

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Client Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Surface Water

Job ID: 280-180998-1

Method: EPA 200.8 - Metals (ICP/MS) - Total Recoverable (Continued)

Client Sample ID: 2022-02-02
Date Collected: 08/31/23 09:00
Date Received: 08/31/23 15:33

Lab Sample ID: 280-180998-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		1.0	0.19	ug/L		09/01/23 14:25	09/05/23 15:40	1
Chromium	ND		3.0	0.50	ug/L		09/01/23 14:25	09/05/23 15:40	1
Copper	0.73	J	2.0	0.71	ug/L		09/01/23 14:25	09/05/23 15:40	1
Lead	0.37	J	1.0	0.23	ug/L		09/01/23 14:25	09/05/23 15:40	1
Zinc	15		10	2.0	ug/L		09/01/23 14:25	09/05/23 15:40	1

Client Sample ID: 2022-02-03
Date Collected: 08/31/23 09:00
Date Received: 08/31/23 15:33

Lab Sample ID: 280-180998-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		09/01/23 14:25	09/05/23 15:43	1
Cadmium	ND		1.0	0.19	ug/L		09/01/23 14:25	09/05/23 15:43	1
Chromium	ND		3.0	0.50	ug/L		09/01/23 14:25	09/05/23 15:43	1
Copper	ND		2.0	0.71	ug/L		09/01/23 14:25	09/05/23 15:43	1
Lead	ND		1.0	0.23	ug/L		09/01/23 14:25	09/05/23 15:43	1
Zinc	ND		10	2.0	ug/L		09/01/23 14:25	09/05/23 15:43	1

Method: EPA 200.8 - Metals (ICP/MS) - Potentially Dissolved

Client Sample ID: 2022-02
Date Collected: 08/31/23 09:00
Date Received: 08/31/23 15:33

Lab Sample ID: 280-180998-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		09/05/23 14:40	09/06/23 10:51	1
Cadmium	0.52	J F1	1.0	0.19	ug/L		09/05/23 14:40	09/06/23 10:51	1
Chromium	ND		3.0	0.50	ug/L		09/05/23 14:40	09/06/23 10:51	1
Copper	3.8	F1	2.0	0.71	ug/L		09/05/23 14:40	09/06/23 10:51	1
Lead	24	F1	1.0	0.23	ug/L		09/05/23 14:40	09/06/23 10:51	1
Manganese	95	F1	3.0	0.51	ug/L		09/05/23 14:40	09/06/23 10:51	1
Nickel	ND		3.0	0.83	ug/L		09/05/23 14:40	09/06/23 10:51	1
Selenium	ND		5.0	1.0	ug/L		09/05/23 14:40	09/06/23 10:51	1
Silver	ND		0.50	0.045	ug/L		09/05/23 14:40	09/06/23 10:51	1
Zinc	55		10	2.0	ug/L		09/13/23 14:50	09/15/23 15:04	1

Client Sample ID: 2022-02-02
Date Collected: 08/31/23 09:00
Date Received: 08/31/23 15:33

Lab Sample ID: 280-180998-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		09/05/23 14:40	09/06/23 10:58	1
Cadmium	ND		1.0	0.19	ug/L		09/05/23 14:40	09/06/23 10:58	1
Chromium	ND		3.0	0.50	ug/L		09/05/23 14:40	09/06/23 10:58	1
Copper	0.77	J	2.0	0.71	ug/L		09/05/23 14:40	09/06/23 10:58	1
Lead	0.50	J	1.0	0.23	ug/L		09/05/23 14:40	09/06/23 10:58	1
Manganese	29		3.0	0.51	ug/L		09/05/23 14:40	09/06/23 10:58	1
Nickel	ND		3.0	0.83	ug/L		09/05/23 14:40	09/06/23 10:58	1
Selenium	ND		5.0	1.0	ug/L		09/05/23 14:40	09/06/23 10:58	1
Silver	ND		0.50	0.045	ug/L		09/05/23 14:40	09/06/23 10:58	1
Zinc	22		10	2.0	ug/L		09/05/23 14:40	09/06/23 13:17	1

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Client Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Surface Water

Job ID: 280-180998-1

Method: EPA 200.8 - Metals (ICP/MS) - Potentially Dissolved

Client Sample ID: 2022-02-03
Date Collected: 08/31/23 09:00
Date Received: 08/31/23 15:33

Lab Sample ID: 280-180998-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		09/05/23 14:40	09/06/23 11:05	1
Cadmium	ND		1.0	0.19	ug/L		09/05/23 14:40	09/06/23 11:05	1
Chromium	ND		3.0	0.50	ug/L		09/05/23 14:40	09/06/23 11:05	1
Copper	ND		2.0	0.71	ug/L		09/05/23 14:40	09/06/23 11:05	1
Lead	ND		1.0	0.23	ug/L		09/05/23 14:40	09/06/23 11:05	1
Manganese	ND		3.0	0.51	ug/L		09/05/23 14:40	09/06/23 11:05	1
Nickel	ND		3.0	0.83	ug/L		09/05/23 14:40	09/06/23 11:05	1
Selenium	ND		5.0	1.0	ug/L		09/05/23 14:40	09/06/23 11:05	1
Silver	ND		0.50	0.045	ug/L		09/05/23 14:40	09/06/23 11:05	1
Zinc	4.1	J	10	2.0	ug/L		09/05/23 14:40	09/06/23 13:19	1

Method: EPA 245.1 - Mercury (CVAA)

Client Sample ID: 2022-02
Date Collected: 08/31/23 09:00
Date Received: 08/31/23 15:33

Lab Sample ID: 280-180998-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.061	ug/L		09/13/23 15:06	09/13/23 19:36	1

Client Sample ID: 2022-02-02
Date Collected: 08/31/23 09:00
Date Received: 08/31/23 15:33

Lab Sample ID: 280-180998-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.061	ug/L		09/13/23 15:06	09/13/23 19:44	1

Client Sample ID: 2022-02-03
Date Collected: 08/31/23 09:00
Date Received: 08/31/23 15:33

Lab Sample ID: 280-180998-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.061	ug/L		09/13/23 15:06	09/13/23 19:47	1

General Chemistry

Client Sample ID: 2022-02
Date Collected: 08/31/23 09:00
Date Received: 08/31/23 15:33

Lab Sample ID: 280-180998-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (SM 2510B)	210		2.0	2.0	umhos/cm			09/06/23 16:47	1
Total Suspended Solids (SM 2540D)	37		4.0	1.1	mg/L			09/01/23 14:47	1
Chromium, hexavalent (SM 3500 CR B)	ND		0.020	0.0040	mg/L			08/31/23 18:18	1
pH adj. to 25 deg C (SM 4500 H+ B)	7.4	HF	0.1	0.1	SU			09/06/23 00:40	1
Temperature (SM 4500 H+ B)	20.7	HF	1.0	1.0	Degrees C			09/06/23 00:40	1
Sulfide (SM 4500 S2 D)	ND		0.050	0.022	mg/L			09/01/23 14:07	1
Un-ionized Hydrogen Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			09/05/23 11:47	1
Field pH (SM4500 S2 H)	7.4		1.0	1.0	SU			09/05/23 11:47	1
Field Temperature (SM4500 S2 H)	21		1.0	1.0	Celsius			09/05/23 11:47	1
Specific Conductance (SM4500 S2 H)	210		2.0	2.0	umhos/cm			09/05/23 11:47	1
Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			09/05/23 11:47	1

Eurofins Denver

Client Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Surface Water

Job ID: 280-180998-1

General Chemistry

Client Sample ID: 2022-02-02
Date Collected: 08/31/23 09:00
Date Received: 08/31/23 15:33

Lab Sample ID: 280-180998-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (SM 2510B)	210		2.0	2.0	umhos/cm			09/06/23 16:47	1
Total Suspended Solids (SM 2540D)	ND		4.0	1.1	mg/L			09/01/23 14:47	1
Chromium, hexavalent (SM 3500 CR B)	ND		0.020	0.0040	mg/L			08/31/23 18:22	1
pH adj. to 25 deg C (SM 4500 H+ B)	7.9	HF	0.1	0.1	SU			09/06/23 00:48	1
Temperature (SM 4500 H+ B)	20.2	HF	1.0	1.0	Degrees C			09/06/23 00:48	1
Sulfide (SM 4500 S2 D)	0.026	J B	0.050	0.022	mg/L			09/01/23 14:09	1
Un-ionized Hydrogen Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			09/05/23 11:47	1
Field pH (SM4500 S2 H)	7.9		1.0	1.0	SU			09/05/23 11:47	1
Field Temperature (SM4500 S2 H)	20		1.0	1.0	Celsius			09/05/23 11:47	1
Specific Conductance (SM4500 S2 H)	210		2.0	2.0	umhos/cm			09/05/23 11:47	1
Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			09/05/23 11:47	1

Client Sample ID: 2022-02-03
Date Collected: 08/31/23 09:00
Date Received: 08/31/23 15:33

Lab Sample ID: 280-180998-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (SM 2510B)	ND		2.0	2.0	umhos/cm			09/06/23 16:47	1
Total Suspended Solids (SM 2540D)	ND		4.0	1.1	mg/L			09/01/23 14:47	1
Chromium, hexavalent (SM 3500 CR B)	ND		0.020	0.0040	mg/L			08/31/23 18:23	1
pH adj. to 25 deg C (SM 4500 H+ B)	7.9	HF	0.1	0.1	SU			09/06/23 19:43	1
Temperature (SM 4500 H+ B)	20.8	HF	1.0	1.0	Degrees C			09/06/23 19:43	1
Sulfide (SM 4500 S2 D)	0.025	J B	0.050	0.022	mg/L			09/01/23 14:09	1
Un-ionized Hydrogen Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			09/05/23 11:47	1
Field pH (SM4500 S2 H)	7.9		1.0	1.0	SU			09/05/23 11:47	1
Field Temperature (SM4500 S2 H)	21		1.0	1.0	Celsius			09/05/23 11:47	1
Specific Conductance (SM4500 S2 H)	ND		2.0	2.0	umhos/cm			09/05/23 11:47	1
Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			09/05/23 11:47	1

General Chemistry - Total Recoverable

Client Sample ID: 2022-02
Date Collected: 08/31/23 09:00
Date Received: 08/31/23 15:33

Lab Sample ID: 280-180998-1
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			09/14/23 17:45	1

Client Sample ID: 2022-02-02
Date Collected: 08/31/23 09:00
Date Received: 08/31/23 15:33

Lab Sample ID: 280-180998-2
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			09/14/23 17:45	1

Client Sample ID: 2022-02-03
Date Collected: 08/31/23 09:00
Date Received: 08/31/23 15:33

Lab Sample ID: 280-180998-3
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			09/14/23 17:45	1

Eurofins Denver

Client Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Surface Water

Job ID: 280-180998-1

General Chemistry - Dissolved

Client Sample ID: 2022-02
Date Collected: 08/31/23 09:00
Date Received: 08/31/23 15:33

Lab Sample ID: 280-180998-1
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	-		08/31/23 18:08	1

Client Sample ID: 2022-02-02
Date Collected: 08/31/23 09:00
Date Received: 08/31/23 15:33

Lab Sample ID: 280-180998-2
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	-		08/31/23 18:12	1

Client Sample ID: 2022-02-03
Date Collected: 08/31/23 09:00
Date Received: 08/31/23 15:33

Lab Sample ID: 280-180998-3
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	-		08/31/23 18:13	1

General Chemistry - Potentially Dissolved

Client Sample ID: 2022-02
Date Collected: 08/31/23 09:00
Date Received: 08/31/23 15:33

Lab Sample ID: 280-180998-1
Matrix: 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	-		09/14/23 17:47	1

Client Sample ID: 2022-02-02
Date Collected: 08/31/23 09:00
Date Received: 08/31/23 15:33

Lab Sample ID: 280-180998-2
Matrix: 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	-		09/14/23 17:47	1

Client Sample ID: 2022-02-03
Date Collected: 08/31/23 09:00
Date Received: 08/31/23 15:33

Lab Sample ID: 280-180998-3
Matrix: 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	-		09/14/23 17:47	1

Eurofins Denver

QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Surface Water

Job ID: 280-180998-1

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 400-640624/3-A

Matrix: Water

Analysis Batch: 640758

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 640624

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.50	0.20	ng/L		09/11/23 16:00	09/12/23 09:35	1

Lab Sample ID: LCS 400-640624/4-A

Matrix: Water

Analysis Batch: 640758

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 640624

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	4.65		ng/L		93	79 - 121

Lab Sample ID: LCSD 400-640624/5-A

Matrix: Water

Analysis Batch: 640758

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 640624

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	5.00	4.62		ng/L		92	79 - 121	1	20

Lab Sample ID: 280-180998-1 MS

Matrix: Water

Analysis Batch: 640758

Client Sample ID: 2022-02

Prep Type: Total/NA

Prep Batch: 640624

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	1.8		5.00	6.22		ng/L		89	71 - 125

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 280-624929/1-A

Matrix: Water

Analysis Batch: 625292

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 624929

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	13.9	J	100	9.1	ug/L		09/01/23 14:25	09/05/23 15:13	1

Lab Sample ID: LCS 280-624929/2-A

Matrix: Water

Analysis Batch: 625292

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 624929

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	10000	9630		ug/L		96	85 - 115

Lab Sample ID: 280-180998-1 MS

Matrix: Water

Analysis Batch: 625292

Client Sample ID: 2022-02

Prep Type: Total Recoverable

Prep Batch: 624929

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	140	B	10000	9700		ug/L		96	70 - 130

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QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Surface Water

Job ID: 280-180998-1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: 280-180998-1 MSD

Matrix: Water

Analysis Batch: 625292

Client Sample ID: 2022-02

Prep Type: Total Recoverable

Prep Batch: 624929

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron	140	B	10000	9920		ug/L		98	70 - 130	2	20

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 280-624929/1-A

Matrix: Water

Analysis Batch: 625273

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 624929

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		09/01/23 14:25	09/05/23 14:40	1
Cadmium	ND		1.0	0.19	ug/L		09/01/23 14:25	09/05/23 14:40	1
Chromium	ND		3.0	0.50	ug/L		09/01/23 14:25	09/05/23 14:40	1
Copper	ND		2.0	0.71	ug/L		09/01/23 14:25	09/05/23 14:40	1
Lead	ND		1.0	0.23	ug/L		09/01/23 14:25	09/05/23 14:40	1

Lab Sample ID: MB 280-624929/1-A

Matrix: Water

Analysis Batch: 625350

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 624929

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		10	2.0	ug/L		09/01/23 14:25	09/06/23 09:35	1

Lab Sample ID: LCS 280-624929/27-A

Matrix: Water

Analysis Batch: 625273

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 624929

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	40.0	37.5		ug/L		94	89 - 111
Cadmium	40.0	37.1		ug/L		93	89 - 111
Chromium	40.0	36.6		ug/L		91	86 - 115
Copper	40.0	36.6		ug/L		91	90 - 115
Lead	40.0	37.6		ug/L		94	88 - 115

Lab Sample ID: LCS 280-624929/27-A

Matrix: Water

Analysis Batch: 625350

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 624929

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	40.0	38.9		ug/L		97	88 - 115

Lab Sample ID: 280-180998-1 MS

Matrix: Water

Analysis Batch: 625273

Client Sample ID: 2022-02

Prep Type: Total Recoverable

Prep Batch: 624929

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	ND		40.0	36.5		ug/L		91	79 - 120
Cadmium	ND	F1	40.0	35.6		ug/L		89	89 - 111
Chromium	ND	F1	40.0	35.6		ug/L		89	86 - 115
Copper	ND	F1	40.0	36.0		ug/L		90	90 - 115
Lead	0.48	J	40.0	38.6		ug/L		95	88 - 115

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QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Surface Water

Job ID: 280-180998-1

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: 280-180998-1 MS

Matrix: Water

Analysis Batch: 625350

Client Sample ID: 2022-02

Prep Type: Total Recoverable

Prep Batch: 624929

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	14		40.0	50.8		ug/L		93	88 - 115

Lab Sample ID: 280-180998-1 MSD

Matrix: Water

Analysis Batch: 625273

Client Sample ID: 2022-02

Prep Type: Total Recoverable

Prep Batch: 624929

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Arsenic	ND		40.0	34.0		ug/L		85	79 - 120	7	20
Cadmium	ND	F1	40.0	34.7	F1	ug/L		87	89 - 111	3	20
Chromium	ND	F1	40.0	32.3	F1	ug/L		81	86 - 115	10	20
Copper	ND	F1	40.0	32.9	F1	ug/L		82	90 - 115	9	20
Lead	0.48	J	40.0	35.9		ug/L		89	88 - 115	7	20

Lab Sample ID: 280-180998-1 MSD

Matrix: Water

Analysis Batch: 625350

Client Sample ID: 2022-02

Prep Type: Total Recoverable

Prep Batch: 624929

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Zinc	14		40.0	49.0		ug/L		88	88 - 115	4	20

Lab Sample ID: MB 280-625092/1-B

Matrix: Water

Analysis Batch: 625350

Client Sample ID: Method Blank

Prep Type: Potentially Dissolved

Prep Batch: 625151

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		09/05/23 14:40	09/06/23 10:43	1
Cadmium	ND		1.0	0.19	ug/L		09/05/23 14:40	09/06/23 10:43	1
Chromium	ND		3.0	0.50	ug/L		09/05/23 14:40	09/06/23 10:43	1
Copper	ND		2.0	0.71	ug/L		09/05/23 14:40	09/06/23 10:43	1
Lead	ND		1.0	0.23	ug/L		09/05/23 14:40	09/06/23 10:43	1
Manganese	ND		3.0	0.51	ug/L		09/05/23 14:40	09/06/23 10:43	1
Nickel	ND		3.0	0.83	ug/L		09/05/23 14:40	09/06/23 10:43	1
Selenium	ND		5.0	1.0	ug/L		09/05/23 14:40	09/06/23 10:43	1
Silver	ND		0.50	0.045	ug/L		09/05/23 14:40	09/06/23 10:43	1

Lab Sample ID: MB 280-625092/1-B

Matrix: Water

Analysis Batch: 625362

Client Sample ID: Method Blank

Prep Type: Potentially Dissolved

Prep Batch: 625151

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		10	2.0	ug/L		09/05/23 14:40	09/06/23 13:01	1

Lab Sample ID: LCS 280-625092/2-B

Matrix: Water

Analysis Batch: 625350

Client Sample ID: Lab Control Sample

Prep Type: Potentially Dissolved

Prep Batch: 625151

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	40.0	37.9		ug/L		95	89 - 111
Cadmium	40.0	39.6		ug/L		99	89 - 111
Chromium	40.0	39.4		ug/L		99	86 - 115

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QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Surface Water

Job ID: 280-180998-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 280-625092/2-B
Matrix: Water
Analysis Batch: 625350

Client Sample ID: Lab Control Sample
Prep Type: Potentially Dissolved
Prep Batch: 625151

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Copper	40.0	39.6		ug/L		99	90 - 115
Lead	40.0	38.5		ug/L		96	88 - 115
Manganese	40.0	41.2		ug/L		103	87 - 115
Nickel	40.0	39.5		ug/L		99	86 - 115
Selenium	40.0	38.4		ug/L		96	85 - 114
Silver	40.0	38.5		ug/L		96	90 - 114

Lab Sample ID: LCS 280-625092/2-B
Matrix: Water
Analysis Batch: 625362

Client Sample ID: Lab Control Sample
Prep Type: Potentially Dissolved
Prep Batch: 625151

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	40.0	37.1		ug/L		93	88 - 115

Lab Sample ID: 280-180998-1 MS
Matrix: Water
Analysis Batch: 625350

Client Sample ID: 2022-02
Prep Type: Potentially Dissolved
Prep Batch: 625151

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	ND		40.0	34.7		ug/L		87	79 - 120
Cadmium	0.52	J F1	40.0	35.3	F1	ug/L		87	89 - 111
Chromium	ND		40.0	35.3		ug/L		88	86 - 115
Copper	3.8	F1	40.0	38.6	F1	ug/L		87	90 - 115
Lead	24	F1	40.0	52.8	F1	ug/L		72	88 - 115
Manganese	95	F1	40.0	104	F1	ug/L		23	87 - 115
Nickel	ND		40.0	36.0		ug/L		90	86 - 115
Selenium	ND		40.0	36.9		ug/L		92	85 - 114
Silver	ND		40.0	34.1		ug/L		85	70 - 130

Lab Sample ID: 280-180998-1 MSD
Matrix: Water
Analysis Batch: 625350

Client Sample ID: 2022-02
Prep Type: Potentially Dissolved
Prep Batch: 625151

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	ND		40.0	38.2		ug/L		96	79 - 120	10	20
Cadmium	0.52	J F1	40.0	40.4		ug/L		100	89 - 111	13	20
Chromium	ND		40.0	38.5		ug/L		96	86 - 115	9	20
Copper	3.8	F1	40.0	41.6		ug/L		95	90 - 115	8	20
Lead	24	F1	40.0	58.6	F1	ug/L		86	88 - 115	11	20
Manganese	95	F1	40.0	113	F1	ug/L		46	87 - 115	8	20
Nickel	ND		40.0	38.9		ug/L		97	86 - 115	8	20
Selenium	ND		40.0	37.5		ug/L		94	85 - 114	1	20
Silver	ND		40.0	37.6		ug/L		94	70 - 130	10	20

Lab Sample ID: MB 280-625975/1-B
Matrix: Water
Analysis Batch: 626422

Client Sample ID: Method Blank
Prep Type: Potentially Dissolved
Prep Batch: 626017

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		09/13/23 14:50	09/15/23 14:53	1

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QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Surface Water

Job ID: 280-180998-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 280-625975/1-B

Matrix: Water

Analysis Batch: 626422

Client Sample ID: Method Blank

Prep Type: Potentially Dissolved

Prep Batch: 626017

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		1.0	0.19	ug/L		09/13/23 14:50	09/15/23 14:53	1
Chromium	0.507	J	3.0	0.50	ug/L		09/13/23 14:50	09/15/23 14:53	1
Copper	ND		2.0	0.71	ug/L		09/13/23 14:50	09/15/23 14:53	1
Lead	ND		1.0	0.23	ug/L		09/13/23 14:50	09/15/23 14:53	1
Manganese	ND		3.0	0.51	ug/L		09/13/23 14:50	09/15/23 14:53	1
Nickel	ND		3.0	0.83	ug/L		09/13/23 14:50	09/15/23 14:53	1
Selenium	ND		5.0	1.0	ug/L		09/13/23 14:50	09/15/23 14:53	1
Silver	ND		0.50	0.045	ug/L		09/13/23 14:50	09/15/23 14:53	1
Zinc	ND		10	2.0	ug/L		09/13/23 14:50	09/15/23 14:53	1

Lab Sample ID: LCS 280-625975/2-C

Matrix: Water

Analysis Batch: 626422

Client Sample ID: Lab Control Sample

Prep Type: Potentially Dissolved

Prep Batch: 626017

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	40.0	39.2		ug/L		98	89 - 111
Chromium	40.0	40.0		ug/L		100	86 - 115
Copper	40.0	39.2		ug/L		98	90 - 115
Lead	40.0	38.2		ug/L		96	88 - 115
Manganese	40.0	37.7		ug/L		94	87 - 115
Nickel	40.0	39.3		ug/L		98	86 - 115
Selenium	40.0	39.8		ug/L		100	85 - 114
Silver	40.0	37.9		ug/L		95	90 - 114
Zinc	40.0	40.3		ug/L		101	88 - 115

Lab Sample ID: 280-180998-1 MS

Matrix: Water

Analysis Batch: 626422

Client Sample ID: 2022-02

Prep Type: Potentially Dissolved

Prep Batch: 626017

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	55		80.0	129		ug/L		93	88 - 115

Lab Sample ID: 280-180998-1 MSD

Matrix: Water

Analysis Batch: 626422

Client Sample ID: 2022-02

Prep Type: Potentially Dissolved

Prep Batch: 626017

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Zinc	55		80.0	126		ug/L		88	88 - 115	3	20

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 280-626089/1-A

Matrix: Water

Analysis Batch: 626221

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 626089

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.061	ug/L		09/13/23 15:06	09/13/23 19:24	1

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QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Surface Water

Job ID: 280-180998-1

Method: 245.1 - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 280-626089/2-A
Matrix: Water
Analysis Batch: 626221

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 626089

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	5.03		ug/L		101	90 - 110

Lab Sample ID: 280-180998-1 MS
Matrix: Water
Analysis Batch: 626221

Client Sample ID: 2022-02
Prep Type: Total/NA
Prep Batch: 626089

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		5.00	5.01		ug/L		100	80 - 120

Lab Sample ID: 280-180998-1 MSD
Matrix: Water
Analysis Batch: 626221

Client Sample ID: 2022-02
Prep Type: Total/NA
Prep Batch: 626089

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Mercury	ND		5.00	4.91		ug/L		98	80 - 120	2	10

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: MB 280-625388/5
Matrix: Water
Analysis Batch: 625388

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	ND		2.0	2.0	umhos/cm			09/06/23 16:47	1

Lab Sample ID: LCS 280-625388/4
Matrix: Water
Analysis Batch: 625388

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Specific Conductance	1410	1470		umhos/cm		104	90 - 110

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 280-625079/1
Matrix: Water
Analysis Batch: 625079

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	1.1	mg/L			09/01/23 14:47	1

Lab Sample ID: LCS 280-625079/2
Matrix: Water
Analysis Batch: 625079

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	503	404		mg/L		80	79 - 114

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QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Surface Water

Job ID: 280-180998-1

Method: SM 2540D - Solids, Total Suspended (TSS) (Continued)

Lab Sample ID: LCSD 280-625079/3

Matrix: Water

Analysis Batch: 625079

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Suspended Solids	503	456		mg/L		91	79 - 114	12	20

Method: SM 3500 CR B - Chromium, Hexavalent

Lab Sample ID: MB 280-624959/21

Matrix: Water

Analysis Batch: 624959

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		0.020	0.0040	mg/L			08/31/23 18:18	1

Lab Sample ID: LCS 280-624959/19

Matrix: Water

Analysis Batch: 624959

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chromium, hexavalent	0.100	0.104		mg/L		104	91 - 112		

Lab Sample ID: LCSD 280-624959/20

Matrix: Water

Analysis Batch: 624959

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chromium, hexavalent	0.100	0.105		mg/L		105	91 - 112	1	20

Lab Sample ID: 280-180998-1 MS

Matrix: Water

Analysis Batch: 624959

Client Sample ID: 2022-02

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chromium, hexavalent	ND		0.100	0.105		mg/L		105	91 - 112		

Lab Sample ID: 280-180998-1 MSD

Matrix: Water

Analysis Batch: 624959

Client Sample ID: 2022-02

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chromium, hexavalent	ND		0.100	0.105		mg/L		105	91 - 112	0	20

Lab Sample ID: 280-180998-1 DU

Matrix: Water

Analysis Batch: 624959

Client Sample ID: 2022-02

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Chromium, hexavalent	ND			ND		mg/L				NC	20

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QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Surface Water

Job ID: 280-180998-1

Method: SM 3500 CR B - Chromium, Hexavalent (Continued)

Lab Sample ID: MB 280-624954/3-A
Matrix: Water
Analysis Batch: 624959

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		0.020	0.0040	mg/L			08/31/23 18:08	1

Lab Sample ID: LCS 280-624954/1-A
Matrix: Water
Analysis Batch: 624959

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium, hexavalent	0.100	0.104		mg/L		104	91 - 112

Lab Sample ID: LCSD 280-624954/2-A
Matrix: Water
Analysis Batch: 624959

Client Sample ID: Lab Control Sample Dup
Prep Type: Dissolved

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chromium, hexavalent	0.100	0.105		mg/L		105	91 - 112	0	20

Lab Sample ID: 280-180998-1 MS
Matrix: Water
Analysis Batch: 624959

Client Sample ID: 2022-02
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium, hexavalent	ND		0.100	0.105		mg/L		105	91 - 112

Lab Sample ID: 280-180998-1 MSD
Matrix: Water
Analysis Batch: 624959

Client Sample ID: 2022-02
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chromium, hexavalent	ND		0.100	0.106		mg/L		106	91 - 112	1	20

Lab Sample ID: 280-180998-1 DU
Matrix: Water
Analysis Batch: 624959

Client Sample ID: 2022-02
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chromium, hexavalent	ND		ND		mg/L		NC	20

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 280-625360/31
Matrix: Water
Analysis Batch: 625360

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH adj. to 25 deg C	7.00	7.0		SU		100	99 - 101

QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Surface Water

Job ID: 280-180998-1

Method: SM 4500 H+ B - pH (Continued)

Lab Sample ID: 280-180998-1 DU

Matrix: Water

Analysis Batch: 625360

Client Sample ID: 2022-02

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH adj. to 25 deg C	7.4	HF	7.9	F3	SU		7	5
Temperature	20.7	HF	20.5		Degrees C		0.7	10

Lab Sample ID: LCS 280-625501/5

Matrix: Water

Analysis Batch: 625501

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH adj. to 25 deg C	7.00	7.0		SU		101	99 - 101

Method: SM 4500 S2 D - Sulfide, Total

Lab Sample ID: MB 280-625088/11

Matrix: Water

Analysis Batch: 625088

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	0.0230	J	0.050	0.022	mg/L			09/01/23 14:07	1

Lab Sample ID: LCS 280-625088/9

Matrix: Water

Analysis Batch: 625088

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	0.502	0.472		mg/L		94	81 - 122

Lab Sample ID: LCSD 280-625088/10

Matrix: Water

Analysis Batch: 625088

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	0.502	0.475		mg/L		95	81 - 122	1	10

Lab Sample ID: 280-180998-1 MS

Matrix: Water

Analysis Batch: 625088

Client Sample ID: 2022-02

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	ND		0.502	0.452		mg/L		90	81 - 122

Lab Sample ID: 280-180998-1 MSD

Matrix: Water

Analysis Batch: 625088

Client Sample ID: 2022-02

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	ND		0.502	0.463		mg/L		92	81 - 122	2	10

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QC Association Summary

Client: Grand Island Resources
Project/Site: Nederland, CO - Surface Water

Job ID: 280-180998-1

Metals

Prep Batch: 624929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180998-1	2022-02	Total Recoverable	Water	200.7	
280-180998-1	2022-02	Total Recoverable	Water	200.8	
280-180998-2	2022-02-02	Total Recoverable	Water	200.8	
280-180998-3	2022-02-03	Total Recoverable	Water	200.8	
MB 280-624929/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-624929/27-A	Lab Control Sample	Total Recoverable	Water	200.8	
LCS 280-624929/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
280-180998-1 MS	2022-02	Total Recoverable	Water	200.7	
280-180998-1 MS	2022-02	Total Recoverable	Water	200.8	
280-180998-1 MSD	2022-02	Total Recoverable	Water	200.7	
280-180998-1 MSD	2022-02	Total Recoverable	Water	200.8	

Filtration Batch: 625092

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180998-1	2022-02	Potentially Dissolved	Water	Poten_Diss_Met	
280-180998-2	2022-02-02	Potentially Dissolved	Water	Poten_Diss_Met	
280-180998-3	2022-02-03	Potentially Dissolved	Water	Poten_Diss_Met	
MB 280-625092/1-B	Method Blank	Potentially Dissolved	Water	Poten_Diss_Met	
LCS 280-625092/2-B	Lab Control Sample	Potentially Dissolved	Water	Poten_Diss_Met	
280-180998-1 MS	2022-02	Potentially Dissolved	Water	Poten_Diss_Met	
280-180998-1 MSD	2022-02	Potentially Dissolved	Water	Poten_Diss_Met	
280-180998-1 MSD	2022-02	Potentially Dissolved	Water	Poten_Diss_Met	

Prep Batch: 625151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180998-1	2022-02	Potentially Dissolved	Water	200.8	625092
280-180998-2	2022-02-02	Potentially Dissolved	Water	200.8	625092
280-180998-3	2022-02-03	Potentially Dissolved	Water	200.8	625092
MB 280-625092/1-B	Method Blank	Potentially Dissolved	Water	200.8	625092
LCS 280-625092/2-B	Lab Control Sample	Potentially Dissolved	Water	200.8	625092
280-180998-1 MS	2022-02	Potentially Dissolved	Water	200.8	625092
280-180998-1 MSD	2022-02	Potentially Dissolved	Water	200.8	625092

Analysis Batch: 625273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180998-1	2022-02	Total Recoverable	Water	200.8	624929
280-180998-2	2022-02-02	Total Recoverable	Water	200.8	624929
280-180998-3	2022-02-03	Total Recoverable	Water	200.8	624929
MB 280-624929/1-A	Method Blank	Total Recoverable	Water	200.8	624929
LCS 280-624929/27-A	Lab Control Sample	Total Recoverable	Water	200.8	624929
280-180998-1 MS	2022-02	Total Recoverable	Water	200.8	624929
280-180998-1 MSD	2022-02	Total Recoverable	Water	200.8	624929

Analysis Batch: 625292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180998-1	2022-02	Total Recoverable	Water	200.7 Rev 4.4	624929
280-180998-2	2022-02-02	Total Recoverable	Water	200.7 Rev 4.4	624929
280-180998-3	2022-02-03	Total Recoverable	Water	200.7 Rev 4.4	624929
MB 280-624929/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	624929
LCS 280-624929/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	624929
280-180998-1 MS	2022-02	Total Recoverable	Water	200.7 Rev 4.4	624929

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QC Association Summary

Client: Grand Island Resources
Project/Site: Nederland, CO - Surface Water

Job ID: 280-180998-1

Metals (Continued)

Analysis Batch: 625292 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180998-1 MSD	2022-02	Total Recoverable	Water	200.7 Rev 4.4	624929

Analysis Batch: 625350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180998-1	2022-02	Potentially Dissolved	Water	200.8	625151
280-180998-1	2022-02	Total Recoverable	Water	200.8	624929
280-180998-2	2022-02-02	Potentially Dissolved	Water	200.8	625151
280-180998-3	2022-02-03	Potentially Dissolved	Water	200.8	625151
MB 280-624929/1-A	Method Blank	Total Recoverable	Water	200.8	624929
MB 280-625092/1-B	Method Blank	Potentially Dissolved	Water	200.8	625151
LCS 280-624929/27-A	Lab Control Sample	Total Recoverable	Water	200.8	624929
LCS 280-625092/2-B	Lab Control Sample	Potentially Dissolved	Water	200.8	625151
280-180998-1 MS	2022-02	Potentially Dissolved	Water	200.8	625151
280-180998-1 MS	2022-02	Total Recoverable	Water	200.8	624929
280-180998-1 MSD	2022-02	Potentially Dissolved	Water	200.8	625151
280-180998-1 MSD	2022-02	Total Recoverable	Water	200.8	624929

Analysis Batch: 625362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180998-2	2022-02-02	Potentially Dissolved	Water	200.8	625151
280-180998-3	2022-02-03	Potentially Dissolved	Water	200.8	625151
MB 280-625092/1-B	Method Blank	Potentially Dissolved	Water	200.8	625151
LCS 280-625092/2-B	Lab Control Sample	Potentially Dissolved	Water	200.8	625151

Filtration Batch: 625975

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-625975/1-B	Method Blank	Potentially Dissolved	Water	FILTRATION	
LCS 280-625975/2-C	Lab Control Sample	Potentially Dissolved	Water	FILTRATION	

Prep Batch: 626017

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180998-1	2022-02	Potentially Dissolved	Water	200.8	625092
MB 280-625975/1-B	Method Blank	Potentially Dissolved	Water	200.8	625975
LCS 280-625975/2-C	Lab Control Sample	Potentially Dissolved	Water	200.8	625975
280-180998-1 MS	2022-02	Potentially Dissolved	Water	200.8	625092
280-180998-1 MSD	2022-02	Potentially Dissolved	Water	200.8	625092

Prep Batch: 626089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180998-1	2022-02	Total/NA	Water	245.1	
280-180998-2	2022-02-02	Total/NA	Water	245.1	
280-180998-3	2022-02-03	Total/NA	Water	245.1	
MB 280-626089/1-A	Method Blank	Total/NA	Water	245.1	
LCS 280-626089/2-A	Lab Control Sample	Total/NA	Water	245.1	
280-180998-1 MS	2022-02	Total/NA	Water	245.1	
280-180998-1 MSD	2022-02	Total/NA	Water	245.1	

Analysis Batch: 626221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180998-1	2022-02	Total/NA	Water	245.1	626089
280-180998-2	2022-02-02	Total/NA	Water	245.1	626089

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QC Association Summary

Client: Grand Island Resources
Project/Site: Nederland, CO - Surface Water

Job ID: 280-180998-1

Metals (Continued)

Analysis Batch: 626221 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180998-3	2022-02-03	Total/NA	Water	245.1	626089
MB 280-626089/1-A	Method Blank	Total/NA	Water	245.1	626089
LCS 280-626089/2-A	Lab Control Sample	Total/NA	Water	245.1	626089
280-180998-1 MS	2022-02	Total/NA	Water	245.1	626089
280-180998-1 MSD	2022-02	Total/NA	Water	245.1	626089

Analysis Batch: 626422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180998-1	2022-02	Potentially Dissolved	Water	200.8	626017
MB 280-625975/1-B	Method Blank	Potentially Dissolved	Water	200.8	626017
LCS 280-625975/2-C	Lab Control Sample	Potentially Dissolved	Water	200.8	626017
280-180998-1 MS	2022-02	Potentially Dissolved	Water	200.8	626017
280-180998-1 MSD	2022-02	Potentially Dissolved	Water	200.8	626017

Prep Batch: 640624

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180998-1	2022-02	Total/NA	Water	1631E	
280-180998-2	2022-02-02	Total/NA	Water	1631E	
280-180998-3	2022-02-03	Total/NA	Water	1631E	
MB 400-640624/3-A	Method Blank	Total/NA	Water	1631E	
LCS 400-640624/4-A	Lab Control Sample	Total/NA	Water	1631E	
LCSD 400-640624/5-A	Lab Control Sample Dup	Total/NA	Water	1631E	
280-180998-1 MS	2022-02	Total/NA	Water	1631E	

Analysis Batch: 640758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180998-1	2022-02	Total/NA	Water	1631E	640624
280-180998-2	2022-02-02	Total/NA	Water	1631E	640624
280-180998-3	2022-02-03	Total/NA	Water	1631E	640624
MB 400-640624/3-A	Method Blank	Total/NA	Water	1631E	640624
LCS 400-640624/4-A	Lab Control Sample	Total/NA	Water	1631E	640624
LCSD 400-640624/5-A	Lab Control Sample Dup	Total/NA	Water	1631E	640624
280-180998-1 MS	2022-02	Total/NA	Water	1631E	640624

General Chemistry

Filtration Batch: 624954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180998-1	2022-02	Dissolved	Water	FILTRATION	
280-180998-2	2022-02-02	Dissolved	Water	FILTRATION	
280-180998-3	2022-02-03	Dissolved	Water	FILTRATION	
MB 280-624954/3-A	Method Blank	Dissolved	Water	FILTRATION	
LCS 280-624954/1-A	Lab Control Sample	Dissolved	Water	FILTRATION	
LCSD 280-624954/2-A	Lab Control Sample Dup	Dissolved	Water	FILTRATION	
280-180998-1 MS	2022-02	Dissolved	Water	FILTRATION	
280-180998-1 MSD	2022-02	Dissolved	Water	FILTRATION	
280-180998-1 DU	2022-02	Dissolved	Water	FILTRATION	

Analysis Batch: 624959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180998-1	2022-02	Dissolved	Water	SM 3500 CR B	624954

Eurofins Denver

QC Association Summary

Client: Grand Island Resources
Project/Site: Nederland, CO - Surface Water

Job ID: 280-180998-1

General Chemistry (Continued)

Analysis Batch: 624959 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180998-1	2022-02	Total/NA	Water	SM 3500 CR B	
280-180998-2	2022-02-02	Dissolved	Water	SM 3500 CR B	624954
280-180998-2	2022-02-02	Total/NA	Water	SM 3500 CR B	
280-180998-3	2022-02-03	Dissolved	Water	SM 3500 CR B	624954
280-180998-3	2022-02-03	Total/NA	Water	SM 3500 CR B	
MB 280-624954/3-A	Method Blank	Dissolved	Water	SM 3500 CR B	624954
MB 280-624959/21	Method Blank	Total/NA	Water	SM 3500 CR B	
LCS 280-624954/1-A	Lab Control Sample	Dissolved	Water	SM 3500 CR B	624954
LCS 280-624959/19	Lab Control Sample	Total/NA	Water	SM 3500 CR B	
LCSD 280-624954/2-A	Lab Control Sample Dup	Dissolved	Water	SM 3500 CR B	624954
LCSD 280-624959/20	Lab Control Sample Dup	Total/NA	Water	SM 3500 CR B	
280-180998-1 MS	2022-02	Dissolved	Water	SM 3500 CR B	624954
280-180998-1 MS	2022-02	Total/NA	Water	SM 3500 CR B	
280-180998-1 MSD	2022-02	Dissolved	Water	SM 3500 CR B	624954
280-180998-1 MSD	2022-02	Total/NA	Water	SM 3500 CR B	
280-180998-1 DU	2022-02	Dissolved	Water	SM 3500 CR B	624954
280-180998-1 DU	2022-02	Total/NA	Water	SM 3500 CR B	

Analysis Batch: 625079

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180998-1	2022-02	Total/NA	Water	SM 2540D	
280-180998-2	2022-02-02	Total/NA	Water	SM 2540D	
280-180998-3	2022-02-03	Total/NA	Water	SM 2540D	
MB 280-625079/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 280-625079/2	Lab Control Sample	Total/NA	Water	SM 2540D	
LCSD 280-625079/3	Lab Control Sample Dup	Total/NA	Water	SM 2540D	

Analysis Batch: 625088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180998-1	2022-02	Total/NA	Water	SM 4500 S2 D	
280-180998-2	2022-02-02	Total/NA	Water	SM 4500 S2 D	
280-180998-3	2022-02-03	Total/NA	Water	SM 4500 S2 D	
MB 280-625088/11	Method Blank	Total/NA	Water	SM 4500 S2 D	
LCS 280-625088/9	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
LCSD 280-625088/10	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 D	
280-180998-1 MS	2022-02	Total/NA	Water	SM 4500 S2 D	
280-180998-1 MSD	2022-02	Total/NA	Water	SM 4500 S2 D	

Analysis Batch: 625203

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180998-1	2022-02	Total/NA	Water	SM4500 S2 H	
280-180998-2	2022-02-02	Total/NA	Water	SM4500 S2 H	
280-180998-3	2022-02-03	Total/NA	Water	SM4500 S2 H	

Analysis Batch: 625360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180998-1	2022-02	Total/NA	Water	SM 4500 H+ B	
280-180998-2	2022-02-02	Total/NA	Water	SM 4500 H+ B	
LCS 280-625360/31	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
280-180998-1 DU	2022-02	Total/NA	Water	SM 4500 H+ B	

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QC Association Summary

Client: Grand Island Resources
Project/Site: Nederland, CO - Surface Water

Job ID: 280-180998-1

General Chemistry

Analysis Batch: 625388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180998-1	2022-02	Total/NA	Water	SM 2510B	
280-180998-2	2022-02-02	Total/NA	Water	SM 2510B	
280-180998-3	2022-02-03	Total/NA	Water	SM 2510B	
MB 280-625388/5	Method Blank	Total/NA	Water	SM 2510B	
LCS 280-625388/4	Lab Control Sample	Total/NA	Water	SM 2510B	

Analysis Batch: 625501

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180998-3	2022-02-03	Total/NA	Water	SM 4500 H+ B	
LCS 280-625501/5	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 626274

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180998-1	2022-02	Potentially Dissolved	Water	SM3500 CR B	
280-180998-1	2022-02	Total Recoverable	Water	SM3500 CR B	
280-180998-2	2022-02-02	Potentially Dissolved	Water	SM3500 CR B	
280-180998-2	2022-02-02	Total Recoverable	Water	SM3500 CR B	
280-180998-3	2022-02-03	Potentially Dissolved	Water	SM3500 CR B	
280-180998-3	2022-02-03	Total Recoverable	Water	SM3500 CR B	

Lab Chronicle

Client: Grand Island Resources
Project/Site: Nederland, CO - Surface Water

Job ID: 280-180998-1

Client Sample ID: 2022-02

Date Collected: 08/31/23 09:00

Date Received: 08/31/23 15:33

Lab Sample ID: 280-180998-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			40 mL	40 mL	640624	09/08/23 14:48	VLC	EET PEN
							Completed:	09/11/23 09:00 ¹		
Total/NA	Analysis	1631E		1			640758	09/12/23 11:22	VLC	EET PEN
Total Recoverable	Prep	200.7			50 mL	50 mL	624929	09/01/23 14:25	MSM	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			625292	09/05/23 16:32	ADL	EET DEN
Potentially Dissolved	Filtration	Poten_Diss_Met			250 mL	250 mL	625092	09/01/23 15:26	LJS	EET DEN
Potentially Dissolved	Prep	200.8			25 mL	25 mL	626017	09/13/23 14:50	MSM	EET DEN
Potentially Dissolved	Analysis	200.8		1			626422	09/15/23 15:04	LMT	EET DEN
Potentially Dissolved	Filtration	Poten_Diss_Met			250 mL	250 mL	625092	09/01/23 15:26	LJS	EET DEN
Potentially Dissolved	Prep	200.8			50 mL	50 mL	625151	09/05/23 14:40	MSM	EET DEN
Potentially Dissolved	Analysis	200.8		1			625350	09/06/23 10:51	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	624929	09/01/23 14:25	MSM	EET DEN
Total Recoverable	Analysis	200.8		1			625273	09/05/23 15:22	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	624929	09/01/23 14:25	MSM	EET DEN
Total Recoverable	Analysis	200.8		1			625350	09/06/23 09:40	LMT	EET DEN
Total/NA	Prep	245.1			30 mL	50 mL	626089	09/13/23 15:06	PFM	EET DEN
Total/NA	Analysis	245.1		1			626221	09/13/23 19:36	PFM	EET DEN
Total/NA	Analysis	SM 2510B		1			625388	09/06/23 16:47	LL	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	625079	09/01/23 14:47	SK	EET DEN
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	624954	08/31/23 17:32	SL	EET DEN
Dissolved	Analysis	SM 3500 CR B		1	2 mL	2 mL	624959	08/31/23 18:08	SL	EET DEN
Total/NA	Analysis	SM 3500 CR B		1	2 mL	2 mL	624959	08/31/23 18:18	SL	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			625360	09/06/23 00:40	LL	EET DEN
Total/NA	Analysis	SM 4500 S2 D		1	2 mL	2 mL	625088	09/01/23 14:07	SL	EET DEN
Potentially Dissolved	Analysis	SM3500 CR B		1			626274	09/14/23 17:47	RMS	EET DEN
Total Recoverable	Analysis	SM3500 CR B		1			626274	09/14/23 17:45	RMS	EET DEN
Total/NA	Analysis	SM4500 S2 H		1			625203	09/05/23 11:47	SAH	EET DEN

Client Sample ID: 2022-02-02

Date Collected: 08/31/23 09:00

Date Received: 08/31/23 15:33

Lab Sample ID: 280-180998-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			40 mL	40 mL	640624	09/08/23 14:48	VLC	EET PEN
							Completed:	09/11/23 09:00 ¹		
Total/NA	Analysis	1631E		1			640758	09/12/23 11:38	VLC	EET PEN
Total Recoverable	Prep	200.8			50 mL	50 mL	624929	09/01/23 14:25	MSM	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			625292	09/05/23 17:07	ADL	EET DEN
Potentially Dissolved	Filtration	Poten_Diss_Met			250 mL	250 mL	625092	09/01/23 15:26	LJS	EET DEN
Potentially Dissolved	Prep	200.8			50 mL	50 mL	625151	09/05/23 14:40	MSM	EET DEN
Potentially Dissolved	Analysis	200.8		1			625350	09/06/23 10:58	LMT	EET DEN
Potentially Dissolved	Filtration	Poten_Diss_Met			250 mL	250 mL	625092	09/01/23 15:26	LJS	EET DEN
Potentially Dissolved	Prep	200.8			50 mL	50 mL	625151	09/05/23 14:40	MSM	EET DEN
Potentially Dissolved	Analysis	200.8		1			625362	09/06/23 13:17	LMT	EET DEN

Eurofins Denver

Lab Chronicle

Client: Grand Island Resources
Project/Site: Nederland, CO - Surface Water

Job ID: 280-180998-1

Client Sample ID: 2022-02-02

Lab Sample ID: 280-180998-2

Date Collected: 08/31/23 09:00

Matrix: Water

Date Received: 08/31/23 15:33

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			50 mL	50 mL	624929	09/01/23 14:25	MSM	EET DEN
Total Recoverable	Analysis	200.8		1			625273	09/05/23 15:40	LMT	EET DEN
Total/NA	Prep	245.1			30 mL	50 mL	626089	09/13/23 15:06	PFM	EET DEN
Total/NA	Analysis	245.1		1			626221	09/13/23 19:44	PFM	EET DEN
Total/NA	Analysis	SM 2510B		1			625388	09/06/23 16:47	LL	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	625079	09/01/23 14:47	SK	EET DEN
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	624954	08/31/23 17:32	SL	EET DEN
Dissolved	Analysis	SM 3500 CR B		1	2 mL	2 mL	624959	08/31/23 18:12	SL	EET DEN
Total/NA	Analysis	SM 3500 CR B		1	2 mL	2 mL	624959	08/31/23 18:22	SL	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			625360	09/06/23 00:48	LL	EET DEN
Total/NA	Analysis	SM 4500 S2 D		1	2 mL	2 mL	625088	09/01/23 14:09	SL	EET DEN
Potentially Dissolved	Analysis	SM3500 CR B		1			626274	09/14/23 17:47	RMS	EET DEN
Total Recoverable	Analysis	SM3500 CR B		1			626274	09/14/23 17:45	RMS	EET DEN
Total/NA	Analysis	SM4500 S2 H		1			625203	09/05/23 11:47	SAH	EET DEN

Client Sample ID: 2022-02-03

Lab Sample ID: 280-180998-3

Date Collected: 08/31/23 09:00

Matrix: Water

Date Received: 08/31/23 15:33

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			40 mL	40 mL	640624	09/08/23 14:48	VLC	EET PEN
Completed:								09/11/23 09:00 ¹		
Total/NA	Analysis	1631E		1			640758	09/12/23 11:45	VLC	EET PEN
Total Recoverable	Prep	200.8			50 mL	50 mL	624929	09/01/23 14:25	MSM	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			625292	09/05/23 17:12	ADL	EET DEN
Potentially Dissolved	Filtration	Poten_Diss_Met			250 mL	250 mL	625092	09/01/23 15:26	LJS	EET DEN
Potentially Dissolved	Prep	200.8			50 mL	50 mL	625151	09/05/23 14:40	MSM	EET DEN
Potentially Dissolved	Analysis	200.8		1			625350	09/06/23 11:05	LMT	EET DEN
Potentially Dissolved	Filtration	Poten_Diss_Met			250 mL	250 mL	625092	09/01/23 15:26	LJS	EET DEN
Potentially Dissolved	Prep	200.8			50 mL	50 mL	625151	09/05/23 14:40	MSM	EET DEN
Potentially Dissolved	Analysis	200.8		1			625362	09/06/23 13:19	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	624929	09/01/23 14:25	MSM	EET DEN
Total Recoverable	Analysis	200.8		1			625273	09/05/23 15:43	LMT	EET DEN
Total/NA	Prep	245.1			30 mL	50 mL	626089	09/13/23 15:06	PFM	EET DEN
Total/NA	Analysis	245.1		1			626221	09/13/23 19:47	PFM	EET DEN
Total/NA	Analysis	SM 2510B		1			625388	09/06/23 16:47	LL	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	625079	09/01/23 14:47	SK	EET DEN
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	624954	08/31/23 17:32	SL	EET DEN
Dissolved	Analysis	SM 3500 CR B		1	2 mL	2 mL	624959	08/31/23 18:13	SL	EET DEN
Total/NA	Analysis	SM 3500 CR B		1	2 mL	2 mL	624959	08/31/23 18:23	SL	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			625501	09/06/23 19:43	LL	EET DEN
Total/NA	Analysis	SM 4500 S2 D		1	2 mL	2 mL	625088	09/01/23 14:09	SL	EET DEN
Potentially Dissolved	Analysis	SM3500 CR B		1			626274	09/14/23 17:47	RMS	EET DEN

Eurofins Denver

Lab Chronicle

Client: Grand Island Resources
Project/Site: Nederland, CO - Surface Water

Job ID: 280-180998-1

Client Sample ID: 2022-02-03

Lab Sample ID: 280-180998-3

Date Collected: 08/31/23 09:00

Matrix: Water

Date Received: 08/31/23 15:33

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Analysis	SM3500 CR B		1			626274	09/14/23 17:45	RMS	EET DEN
Total/NA	Analysis	SM4500 S2 H		1			625203	09/05/23 11:47	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

Accreditation/Certification Summary

Client: Grand Island Resources
Project/Site: Nederland, CO - Surface Water

Job ID: 280-180998-1

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	12-20-23
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	06-30-24
Georgia	State	4025-011	01-08-24
Illinois	NELAP	2000172019-1	04-30-24
Iowa	State	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	06-30-24
Minnesota	NELAP	1788752	12-31-23
Nevada	State	CO000262020-1	07-31-24
New Hampshire	NELAP	2053	04-28-24
New Jersey	NELAP	230001	06-30-24
New York	NELAP	59923	03-31-24
North Carolina (WW/SW)	State	358	12-31-23
North Dakota	State	R-034	01-08-24
Oregon	NELAP	4025-019	01-08-24
Pennsylvania	NELAP	013	07-31-24
South Carolina	State	72002001	01-08-24
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	09-30-23
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	08-31-24
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	06-30-24
ANAB	ISO/IEC 17025	L2471	02-22-26
Arkansas DEQ	State	88-00689	08-01-24
California	State	2510	06-30-24
Florida	NELAP	E81010	06-30-24
Georgia	State	E81010(FL)	06-30-24
Illinois	NELAP	200041	10-09-23
Kansas	NELAP	E-10253	10-31-23

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Denver

Accreditation/Certification Summary

Client: Grand Island Resources
Project/Site: Nederland, CO - Surface Water

Job ID: 280-180998-1

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
Kentucky (UST)	State	53	06-30-24
Louisiana (All)	NELAP	30976	06-30-24
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	12-31-23
Pennsylvania	NELAP	68-00467	01-31-24
South Carolina	State	96026	06-30-24
Tennessee	State	TN02907	06-30-24
Texas	NELAP	T104704286	09-30-23
US Fish & Wildlife	US Federal Programs	A22340	06-30-24
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

Chain of Custody Record

Client Information Client Contact: Brooke Molson Moran Address: 12567 West Cedar Road Suite 250 City: Lakewood State, Zip: CO, 80466 Phone: 315-414-6986 Email: bmolsonm@g.emporia.edu Project Name: Nederland, CO Site: Surface Water Sampling		Sampler: Lab Pmt: Bieniulis, Dylan T Phone: E-Mail: Dylan.Bieniulis@eurofins.com Carrier Tracking No(s): State of Origin:		COC No: Page: Job #:	
Company: Grand Island Resources PWSID:		Analysis Requested			
Due Date Requested: TAT Requested (days): Compliance Project: ☐ Yes ☐ No PO #: Advance Payment Required WO #: Project #: 28025102 SSOW#:		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Ascorbic Acid H - Ice I - DI Water J - EDTA K - EDA L - other (specify) M - Hexane N - None O - AsNaO2 P - Na2OAS Q - Na2SO3 R - H2SO4 S - TSP Dodecahydrate T - Ice U - Acetone V - MCAA W - pH 4-5 Z - other (specify)			
Sample Identification		Field Filtered Sample (Yes or No)			
Sample Date Sample Time Sample Type (C=Comp, G=grab) Matrix (W=water, S=solid, O=wastewater, BT=trace, A=air)		Perform MS/MSD (Yes or No)			
2022-02 2022-02-02 2022-02-03 2022-02-MS		8/31/23 9:00 8/31/23 9:00 8/31/23 9:00 8/31/23 9:00			
2022-02 2022-02-02 2022-02-03 2022-02-MS		8/31/23 9:00 8/31/23 9:00 8/31/23 9:00 8/31/23 9:00			
2022-02 2022-02-02 2022-02-03 2022-02-MS		8/31/23 9:00 8/31/23 9:00 8/31/23 9:00 8/31/23 9:00			
2022-02 2022-02-02 2022-02-03 2022-02-MS		8/31/23 9:00 8/31/23 9:00 8/31/23 9:00 8/31/23 9:00			
2022-02 2022-02-02 2022-02-03 2022-02-MS		8/31/23 9:00 8/31/23 9:00 8/31/23 9:00 8/31/23 9:00			
2022-02 2022-02-02 2022-02-03 2022-02-MS		8/31/23 9:00 8/31/23 9:00 8/31/23 9:00 8/31/23 9:00			
2022-02 2022-02-02 2022-02-03 2022-02-MS		8/31/23 9:00 8/31/23 9:00 8/31/23 9:00 8/31/23 9:00			
2022-02 2022-02-02 2022-02-03 2022-02-MS		8/31/23 9:00 8/31/23 9:00 8/31/23 9:00 8/31/23 9:00			
2022-02 2022-02-02 2022-02-03 2022-02-MS		8/31/23 9:00 8/31/23 9:00 8/31/23 9:00 8/31/23 9:00			
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2022-02 2022-02-02 2022-02-03 2022-02-MS		8/31/23 9:00 8/31/23 9:00 8/31/23 9:00 8/31/23 9:00			
2022-02 2022-02-02 2022-02-03 2022-02-MS		8/31/23 9:00 8/31/23 9:00 8/31/23 9:00 8/31/23 9:00			
2022-02 2022-02-02 2022-02-03 2022-02-MS		8/31/23 9:00 8/31/23 9:00 8/31/23 9:00 8/31/23 9:00			
2022-02 2022-02-02 2022-02-03 2022-02-MS		8/31/23 9:00 8/31/23 9:00 8/31/23 9:00 8/31/23 9:00			
2022-02 2022-02-02 2022-02-03 2022-02-MS		8/31/23 9:00 8/31/23 9:00 8/31/23 9:00 8/31/23 9:00			
2022-02 2022-02-02 2022-02-03 2022-02-MS		8/31/23 9:00 8/31/23 9:00 8/31/23 9:00 8/31/23 9:00			
2022-02 2022-02-02 2022-02-03 2022-02-MS		8/31/23 9:00 8/31/23 9:00 8/31/23 9:00 8/31/23 9:00			
2022-02 2022-02-02 2022-02-03 2022-02-MS		8/31/23 9:00 8/31/23 9:00 8/31/23 9:00 8/31/23 9:00			
2022-02 2022-02-02 2022-02-03 2022-02-MS		8/31/23 9:00 8/31/23 9:00 8/31/23 9:00 8/31/23 9:00			
2022-02 2022-02-02 2022-02-03 2022-02-MS		8/31/23 9:00 8/31/23 9:00 8/31/23 9:00 8/31/23 9:00			
2022-02 2022-02-02 2022-02-03 2022-02-MS		8/31/23 9:00 8/31/23 9:00 8/31/23 9:00 8/31/23 9:00			
2022-02 2022-02-02 2022-02-03 2022-02-MS		8/31/23 9:00 8/31/23 9:00 8/31/23 9:00 8/31/23 9:00			
2022-02 2022-02-02 2022-02-03 2022-02-MS		8/31/23 9:00 8/31/23 9:00 8/31/23 9:00 8/31/23 9:00			
2022-02 2022-02-02 2022-02-03 2022-02-MS		8/31/23 9:00 8/31/23 9:00 8/31/23 9:00 8/31/23 9:00			
2022-02 2022-02-02 2022-02-03 2022-02-MS		8/31/23 9:00 8/31/23 9:00 8/31/23 9:00 8/31/23 9:00			
2022-02 2022-02-02 2022-02-03 2022-02-MS		8/31/23 9:00 8/31/23 9:00 8/31/23 9:00 8/31/23 9:00			
2022-02 2022-02-02 2022-02-03 2022-02-MS		8/31/23 9:00 8/31/23 9:00 8/31/23 9:00 8/31/23 9:00			
2022-02 2022-02-02 2022-02-03 2022-02-MS		8/31/23 9:00 8/31/23 9:00 8/31/23 9:00 8/31/23 9:00			
2022-02 2022-02-02 2022-02-03 2022-02-MS		8/31/23 9:00 8/31/23 9:00 8/31/23 9:00 8/31/23 9:00			
2022-02 2022-02-02 2022-02-03 2022-02-MS		8/31/23 9:00 8/31/23 9:00 8/31/23 9:00 8/31/23 9:00			
2022-02 2022-02-02 2022-02-03 2022-02-MS		8/31/23 9:00 8/31/23 9:00 8/31/23 9:00 8/31/23 9:00			
2022-02 2022-02-02 2022-02-03 2022-02-MS		8/31/23 9:00 8/31/23 9:00 8/31/23 9:00 8/31/23 9:00			
2022-02 2022-02-02 2022-02-03 2022-02-MS		8/31/23 9:00 8/31/23 9:00 8/31/23 9:00 8/31/23 9:00			
2022-02 2022-02-02 2022-02-03 2022-02-MS		8/31/23 9:00 8/31/23 9:00 8/31/23 9:00 8/31/23 9:00			
2022-02 2022-02-02 2022-02-03 2022-02-MS		8/31/23 9:00 8/31/23 9:00 8/31/23 9:00 8/31/23 9:00			
2022-02 2022-02-02 2022-02-03 2022-02-MS		8/31/23 9:00 8/31/23 9:00 8/31/23 9:00 8/31/23 9:00			
2022-02 2022-02-02 2022-02-03 2022-02-MS		8/31/23 9:00 8/31/23 9:00 8/31/23 9:00 8/31/23 9:00			
2022-02 2022-02-02 2022-02-03 2022-02-MS		8/31/23 9:00 8/31/23 9:00 8/31/23 9:00 8/31/23 9:00			
2022-02 2022-02-02 2022-02-03 2022-02-MS		8/31/23 9:00 8/31/23 9:00 8/31/23 9:00 8/31/23 9:00			
2022-02 2022-02-02 2022-02-03 2022-02-MS		8/31/23 9:00 8/31/23 9:00 8/31/23 9:00 8/31/23 9:00			
2022-02 2022-02-02 2022-02-03 2022-02-MS		8/31/23 9:00 8/31/23 9:00 8/31/23 9:00 8/31/23 9:00			
2022-02 2022-02-02 2022-02-03 2022-02-MS		8/31/23 9:00 8/31/23 9:00 8/31/23 9:00 8/31/23 9:00			
2022-02 2022-02-02 2022-02-03 2022-02-MS		8/31/23 9:00 8/31/23 9:00 8/31/23 9:00 8/31/23 9:00			
2022-02 2022-02-02 2022-02-03 2022-02-MS		8/31/23 9:00 8/31/23 9:00 8/31/23 9:00 8/31/23 9:00			
2022-02 2022-02-02 2022-02-03 2022-02-MS		8/31/23 9:00 8/31/23 9:00 8/31/23 9:00 8/31/23 9:00			
2022-02 2022-02-02 2022-02-03 2022-02-MS		8/31/23 9:00 8/31/23 9:00 8/31/23 9:00 8/31/23 9:00			
2022-02 2022-02-02 2022-02-03 2022-02-MS		8/31/23 9:00 8/31/23 9:00 8/31/23 9:00 8/31/23 9:00			
2022-02 2022-02-02 2022-02-03 2022-02-MS		8/31/23 9:00 8/31/23 9:00 8/31/23 9:00 8/31/23 9:00			
2022-02 2022-02-02 2022-02-03 2022-02-MS		8/31/23 9:00 8/31/23 9:00 8/31/23 9:00 8/31/23 9:00			
2022-02 2022-02-02 2022-02-03 2022-02-MS		8/31/23 9:00 8/31/23 9:00 8/31/23 9:00 8/31/23 9:00			
2022-02 2022-02-02 2022-02-03 2022-02-MS		8/31/23 9:00 8/31/23 9:00 8/31/23 9:00 8/31/23 9:00			
2022-02 2022-02-02 2022-02-03 2022-02-MS		8/31/23 9:00 8/31/23 9:00 8/31/23 9:00 8/31/23 9:00			
2022-02 2022-02-02 2022-02-03 2022-02-MS		8/31/23 9:00 8/31/23 9:00 8/31/23 9:00 8/31/23 9:00			
2022-02 2022-02-02 2022-02-03 2022-02-MS		8/31/23 9:00 8/31/23 9:00 8/31/23 9:00 8/31/23 9:00			
2022-02 2022-02-02 2022-02-03 2022-02-MS		8/31/23 9:00 8/31/23 9:00 8/31/23 9:00 8/31/23 9:00			
2022-02 2022-02-02 2022-02-03 2022-02-MS		8/31/23 9:00 8/31/23 9:00 8/31/23 9:00 8/31/23 9:00			
2022-02 2022-02-02 2022-02-03 2022-02-MS		8/31/23 9:00 8/31/23 9:00 8/31/23 9:00 8/31/23 9:00			
2022-02 2022-02-02 2022-02-03 2022-02-MS		8/31/23 9:00 8/31/23 9:00 8/31/23 9:00 8/31/23 9:00			
2022-02 2022-02-02 2022-02-03 2022-02-MS		8/31/23 9:00 8/31/23 9:00 8/31/23 9:00 8/31/23 9:00			
2022-02 2022-02-02 2022-02-03 2022-02-MS		8/31/23 9:00 8/31/23 9:00 8/31/23 9:00 8/31/23 9:00			
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2022-02 2022-02-02 2022-02-03 2022-02-MS		8/31/23 9:00 8/31/23 9:00 8/31/23 9:00 8/31/23 9:00			
2022-02 2022-02-02 2022-02-03 2022-02-MS		8/31/23 9:00 8/31/23 9:00 8/31/23 9:00 8/31/23 9:00			
2022-02 2022-02-02 2022-02-03 2022-02-MS		8/31/23 9:00 8/31/23 9:00 8/31/23 9:00 8/31/23 9:00			
2022-02 2022-02-02 2022-02-03 2022-02-MS		8/31/23 9:00 8/31/23 9:00 8/31/23 9:00 8/31/23 9:00			
2022-02 2022-02-02 2022-02-03 2022-02-MS		8/31/23 9:00 8/31/23 9:00 8/31/23 9:00 8/31/23 9:00			
2022-02 2022-02-02 2022-02-03 2022-02-MS		8/31/23 9:00 8/31/23 9:00 8/31/23 9:00 8/31/23 9:00			
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2022-02 2022-02-02 2022-02-03 2022-02-MS		8/31/23 9:00 8/31/23 9:00 8/31/23 9:00 8/31/23 9:00			
2022-02 2022-02-02 2022-02-03 2022-02-MS		8/31/23 9:00 8/31/23 9:00 8/31/23 9:00 8/31/23 9:00			
2022-02 2022-02-02 2022-02-03 2022-02-MS		8/31/23 9:00 8/31/23 9:00 8/31/23 9:00 8/31/23 9:00			
2022-02 2022-02-02 2022-02-03 2022-02-MS		8/31/23 9:00 8/31/23 9:00 8/31/23 9:00 8/31/23 9:00			
2022-02 2022-02-02 2022-02-03 2022-02-MS		8/31/23 9:00 8/31/23 9:00 8/31/23 9:00 8/31/23 9:00			
2022-02 2022-02-02 2022-02-03 2022-02-MS		8/31/23 9:00 8/31/23 9:00 8/31/23 9:00 8/31/23 9:00			
2022-02 2022-02-02 2022-02-03 2022-02-MS		8/31/23 9:00 8/31/23 9:00 8/31/23 9:00 8/31/23 9:00			
2022-02 2022-02-02 2022-02-03 2022-02-MS		8/31/23 9:00 8/31/23 9:00 8/31/23 9:00 8/31/23 9:00			
2022-02 2022-02-02 2022-02-03 2022-02-MS		8/31/23			

Login Sample Receipt Checklist

Client: Grand Island Resources

Job Number: 280-180998-1

Login Number: 180998

List Number: 1

Creator: Little, Matthew L

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	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.	False	Refer to Job Narrative for details.
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 $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Grand Island Resources

Job Number: 280-180998-1

Login Number: 180998

List Number: 2

Creator: Earnest, Tamantha

List Source: Eurofins Pensacola

List Creation: 09/07/23 05:28 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	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	2.0°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 $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

APPENDIX C.3 SEPTEMBER 2023 SURFACE WATER ANALYTICAL RESULTS

No observable flow, therefore, no samples collected.

APPENDIX D CHAIN OF CUSTODY (COC) FORMS

Commerce City Lab
10411 Heinz Way
Commerce City CO 80640

Lakewood Service Center
1610 Garrison Street, Unit E
Lakewood CO 80215

Phone: 303-659-2313

www.coloradolab.com

Chain of Custody Form

Report To Information		Bill To Information (If different from report to)		Project Name / Number	
Company Name: <u>Grand Island Resources</u>		Company Name: _____		_____	
Contact Name: <u>Brooke Moran</u>		Contact Name: _____		_____	
Address: <u>12567 W. Cedar Rd St. 251</u>		Address: _____		Task Number (Lab Use Only)	
City: <u>Lakewood</u> State: <u>CO</u> Zip: <u>80228</u>		City _____ State _____ Zip _____			
Phone: <u>303-506-1618</u>		Phone: _____			
Email: <u>bmolsonm@g.emporia.edu</u>		Email: _____			
Sample Collector: <u>Brooke Moran</u>					
Sample Collector Phone: <u>303-5061618</u>		PO No: _____			

[illegible]

Sample: BM Phone: 303-506-1618 Company: Grand Island Resources		Lab PM: Blenulis, Dylan T E-Mail: Dylan.Blenulis@etlaurifins.com		Carrier Tracking No(s): State of Origin:		COC No: Page: Job #:	
Due Date Requested: TAT Requested (days): Compliance Project: ☐ Yes ☒ No PO #: Advance Payment Required WO #: Project #: 28025102 SSOW#:		Analysis Requested 25108 - Specific Conductance, 25400 - TSS, 5M4500 H+ - 3500 CR-B - Total Hexavalent Cr and Trivalent Cr (calc) 3500 CR-B - Dissolved Hexavalent Cr (LAB FILTER) and Potentially Dissolved Trivalent Cr (calc) 5M4500 S2 O - Sulfide and 5M3500 S2 H - Un-ionized Hydrogen Sulfide (calc) 1631E - Low Level Mercury (ETA Penscola)		Preservation Codes: M - Hexane N - None O - AsHd02 P - Na2O4S R - Na2O4 S - H2SO4 T - TSP Dodecylhydrate U - Ascorbic Acid V - MCAA W - pH 4-5 X - EDTA Y - EDA Z - other (specify)		Special Instructions/Note: * Surface water potentially dissolved metals permit list = 200.8 (As, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, Zn) ** Surface water total recoverable metals list = 200.7 (Fe), 200.8 (As, Cd, Cr, Cu, Pb, Zn), and 245.1 (Hg)	
Sample Identification 2022-01 2022-02 2022-02-02 2022-02-03 2022-02-MS		Sample Date 7/28/23 7/28/23 7/28/23 7/28/23 7/28/23		Sample Time 9:30 9:00 9:00 9:00 9:00		Sample Type G G G G G	
Matrix (W=water, B=soil, G=gravel, S=sediment, A=acid)		Field Filtered Sample (Yes or No) W W W W W		Field Number of Containers 200.8 - Potentially Dissolved Metals (First half of the month permit list) 200.7 / 200.8 / 245.1 - Total Recoverable Metals and Mercury (First half of the month permit list)		Special Instructions/Note: * Surface water potentially dissolved metals permit list = 200.8 (As, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, Zn) ** Surface water total recoverable metals list = 200.7 (Fe), 200.8 (As, Cd, Cr, Cu, Pb, Zn), and 245.1 (Hg)	
Possible Hazard Identification ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological		Deliverable Requested: I, II, III, IV, Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab		Special Instructions/QC Requirements: Archive For _____ Months	
Empty Kit Requisitioned by: Relinquished by: <i>David Blenulis</i> Relinquished by: Relinquished by:		Date: 7/28/23 15:30 Company: Grand Island Resources Company: Company:		Method of Shipment: Received by: <i>DMH</i> Received by: Received by: Cooler Temperature(s) °C and Other Remarks:		Date/Time: 7/28/23 15:30 Company: Grand Island Resources Company: Company:	

eurolins | Environment Testing America

Ver: 01/16/2019

Colorado
Analytical
LABORATORIES, INC.

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

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: 62567 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:	
Email: bmelson@grandislandresources.com	Email:	
Sample Collector: BM		
Sample Collector Phone: 303-506-1618	PO No:	

Sample Matrix (Select One Only)						Tests Requested							
Date	Time	Sample ID	Waste Water ☐	Soil ☐	Drinking Water ☐	No. of Containers	Grab or (Check One Only) Composite	C/S Charge ☐	Seals Present Yes ☐ No ☐	Temp. °C/Ice	Received By:	Sample Pres. Yes ☐ No ☐	Date/Time:
8/31/23	13:00	CROSS WELL	☒			4							
"	13:30	COMPLIANCE WELL	☒			4							
"	11:30	CARIBOU WELL	☒			4							
"	12:15	CROSS PORTAL	☒			4							
"	11:15	CARIBOU OZ	☒			4							
"	11:15	CARIBOU PORTAL	☒			4							
"	13:30	COMPLIANCE OZ	☒			4							
Instructions: 1 HANNOX 21 (JL) field filtered, used glass because we ran out of plastic													
Relinquished By: [Signature]						Date/Time: 8/31/23		Received By: A. Smith		Date/Time: 8/31/23		Relinquished By: [Signature]	

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

Client Information		Lab PM: Blennius, Dylan T		Carrier Tracking No(s):		COC No:	
Client Contact: Brooke Molson Moran		E-Mail: Dylan.Blenius@eurofins.com		State of Origin:		Page:	
Company: Grand Island Resources		PWSID:		Analysis Requested		Job #:	
Address: 12567 West Cedar Road Suite 250		Due Date Requested:		Preservation Codes:		M - Hazane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecalhydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
City: Lakewood		TAT Requested (days):		Total Number of Containers		Other:	
State, Zip: CO, 80466		Compliance Project: Δ Yes Δ No		Special Instructions/Note:		300.0 Nitrate/Nitrite = 48 hour hold time	
Phone: 315-414-6986		PO #: Not required		St. Louis		St. Louis	
Email: bmolsonm@g.emporita.edu		WO #: 28025589		2540C - TDS		2540C - TDS	
Project Name: Nederland, CO		SSOW#:		353.2 - Nitrate/Nitrite as N		353.2 - Nitrate/Nitrite as N	
Site: Groundwater Sampling		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)	
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)	
CROSS WELL		9/28/23		13:00		G	
COMPLIANCE WELL		"		13:30		G	
COMPLIANCE 02		"		13:30		G	
COMPLIANCE 03		"		13:30		G	
CARIBOU WELL		"		11:30		G	
CROSS PORTAL		"		12:15		G	
CARIBOU PORTAL		"		11:15		G	
CARIBOU 02		"		11:15		G	
Possible Hazard Identification		Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological ☐		Deliverable Requested: I, II, III, IV, Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Empty Kit Relinquished by:		Date:		Time:		Return To Client ☐ Disposal By Lab ☒ Archive For _____ Months	
Relinquished by: SP BREWER		Date/Time: 9/28 4:22		Company: GIR		Received by: SP BREWER	
Relinquished by:		Date/Time:		Company:		Received by:	
Relinquished by:		Date/Time:		Company:		Received by:	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		Ver: 01/16/2019	

APPENDIX E FIELD SHEETS

SURFACE WATER SAMPLING DATA SHEET

SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - EventType=WQ				Entered into database (Print Date) <i>n/a</i>		Pg 1 of 1 Pgs							
*StationID: <u>2022-01</u>		*Date (mm/dd/yyyy): <u>7/28/23</u>		*Group: <u>n/a</u>		*Agency: <u>n/a</u>							
*Funding: <u>n/a</u>		ArrivalTime: <u>9:25</u> DepartureTime: <u>9:50</u>		*SampleTime (1st sample): <u>9:30</u>		*Protocol: <u>n/a</u>							
*Personnel: <u>BM & KL</u>		*Purpose (circle all that apply): WaterChem WaterTox FieldObs FieldMeasure				*PurposeFailure: <u>n/a</u>							
*Location: <u>Bank Thalweg Midchannel OpenWater</u>		*GPS/DGPS		Lat (dd.ddddd) <u>39.97904</u>		Long (ddd.ddddd) <u>-105.57585</u>							
GPS Device: <u>GPS WAYPOINTS APP</u>		Target: <u>39.97904</u>		BEAUFORT SCALE (see attachment): <u>2</u>		OCCUPATION METHOD: <u>Walk-in</u> Bridge R/V Other							
Datum: <u>NAD83</u>		Accuracy (ft/m): <u>1.20</u>		*Actual: <u>39.978993</u>		STARTING BANK (facing downstream): <u>LB</u> RB / NA							
Field Observations (SampleType = FieldObs)				Point of Sample (if Integrated, then -88 in dbase)									
SITE ODOR: <u>None</u> Sulfides, Sewage, Petroleum, Mixed, Other		WADAIBILITY: <u>Y</u> / N / Unk		DISTANCE FROM BANK (m): <u>11.25"</u>		STREAM WIDTH (m): <u>22.5"</u>							
SKY CODE: <u>Clear</u> Partly Cloudy, Overcast, Fog		WIND DIRECTION (from): <u>NN</u>		HYDROMODIFICATION: <u>None</u> Bridge, Pipes, ConcreteChannel, GradeControl, Culvert, AerialZipline, Other		WATER DEPTH (m): <u>10.25"</u>							
OTHERPRESENCE: <u>Vascular, Nonvascular, OilySheen, Foam, Trash, Other</u>		DOMINANTSUBSTRATE: <u>Bedrock, Concrete, Cobble, Gravel, Sand, Mud, Unk, Other</u>		PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode yyyy mm dd uniquecode): <u>2022-01_01-JULY</u>		1: (RB / LB / BB / US / DS / ##)							
WATERCLARITY: <u>Clear</u> (see bottom), Cloudy (>4" vis), Murky (<4" vis)		PRECIPITATION: <u>None</u> , Fog, Drizzle, Rain, Snow		2: (RB / LB / BB / US / DS / ##)		2022-01-02-JULY							
WATERODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Mixed, Other		PRECIPITATION (last 24 hrs): <u>Unknown, <1", >1", None</u>		3: (RB / LB / BB / US / DS / ##)		2022-01-03-JULY							
WATERCOLOR: <u>Colorless</u> , Green, Yellow, Brown		OBSERVED FLOW: <u>NA</u> , Dry Waterbody Bed, No Obs Flow, Isolated Pool, Trickle (<0.1cfs), 0.1-1cfs, 1-5cfs, 5-20cfs, 20-50cfs, 50-200cfs, >200cfs											
Field Measurements (SampleType = FieldMeasure; Method = Field)													
	Depth Collec (m)	Velocity (fps)	Air Temp (°C)	Water Temp (°C)	pH	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (uS/cm)	Salinity (ppt)	Turbidity (ntu)	Stage Ht (units)		
SUBSURF/MID/BOTTOMREP	<u>1"</u>	<u>0.086</u>	<u>50°F</u>	<u>15.1°</u>	<u>6.9</u>	<u>n/a</u>	<u>n/a</u>	<u>0.0</u>	<u>n/a</u>	<u>2.4</u>	<u>n/a</u>		
SUBSURF/MID/BOTTOMREP													
SUBSURF/MID/BOTTOMREP													
Instrument:			<u>Ambient</u>		<u>Oakton</u>			<u>BlueLab</u>					
Calib. Date:			<u>n/a</u>		<u>7/12</u>			<u>n/a</u>					
Samples Taken (# of containers filled) - Method=Water_Grab				Field Dup YES (NO: SampleType = Grab; Integrated; LABEL_ID = FieldQA; create collection record upon data entry)									
SAMPLE TYPE: <u>Grab</u> / Integrated		COLLECTION EQUIPMENT: <u>Indiv bottle (by hand, by pole, by bucket); Teflon tubing; Kemmer; Pole & Beaker; Other</u>		<u>disposable cup</u>									
	Depth Collec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs
Sub/Surface	<u>1"</u>	<u>n/a</u>	<u>n/a</u>	<u>n/a</u>	<u>1</u>	<u>n/a</u>	<u>1</u>	<u>2</u>	<u>1</u>	<u>1</u>	<u>n/a</u>	<u>n/a</u>	<u>n/a</u>
Sub/Surface													
COMMENTS:													

N/A PLEASE SEE LAB REPORT

Run:												Sample Processing Date:	
Sample ID #:													
Site Code:													
Yellow +	# Small Wells												
	# Large Wells												
	Empty Wells MPN												
Yellow + Fluorescence (+)	# Small Wells												
	# Large Wells												
	False Positives MPN												
Temp/Time	Start	4Hr. Check	14 Hr. Check	18 Hr. Check	22 Hr. Check, if needed								
FIELD DUPLICATES													
TOTAL COLIFORM	Normal Sample #					Normal Sample #							
	Duplicate Sample #					Duplicate Sample #							
	MPN	95% CI		95% CI		MPN	95% CI		95% CI				
		Lower	Upper	Lower	Upper		Lower	Upper	Lower	Upper			
E. COLI	Normal					Normal							
	Duplicate					Duplicate							
	Mean					Mean							
BLANKS	Normal					Normal							
	Duplicate					Duplicate							
	Mean					Mean							
LAB DUPLICATES	Field Sample #					Lab Sample #							
	MPN	95% CI		95% CI		MPN	95% CI		95% CI				
		Lower	Upper	Lower	Upper		Lower	Upper	Lower	Upper			
Mean = Mean of Normal and Duplicate, which is then compared to the individual corresponding CI's to determine acceptability of data													
Sampler Signature / Date / Time Arrived:				Placed in Incubator By / Date / Time:				Trays Read By:					
Processor / Date / Time:				Pulled from Incubator By / Date / Time:				Entered into database:					
NOTES:													

Brooke Moran 7/28/23

SURFACE WATER SAMPLING DATA SHEET

SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - EventType=WQ				Entered into database (mm/dd/yyyy) <i>n/a</i>		Pg 1 of 1 Pgs							
*StationID: <i>2022-02</i>		*Date (mm/dd/yyyy): <i>7/28/23</i>		*Group: <i>n/a</i>		*Agency: <i>n/a</i>							
*Funding: <i>n/a</i>		ArrivalTime: <i>8:55</i> DepartureTime: <i>9:20</i>		*SampleTime (1st sample): <i>9:00</i>		*Protocol: <i>n/a</i>							
*Personnel: <i>BM&KL</i>		*Purpose (circle all that apply): ☒ WaterChem ☐ WaterTox ☐ FieldObs ☐ FieldMeasure				*PurposeFailure: <i>n/a</i>							
*Location: Bank Thalweg Midchannel OpenWater		*GPS/DGPS		Lat (dd.ddddd): <i>39.975787</i>		Long (ddd.ddddd): <i>-105.569328</i>							
GPS Device: <i>GPS WAYPOINTSAPP</i>		Target: <i>39.975787</i>		*Actual: <i>39.975787</i>		*Actual: <i>-105.569328</i>							
Datum: NAD83		Accuracy (ft/m): <i>1.40</i>		OCCUPATION METHOD: ☒ Walkin ☐ Bridge ☐ R/V ☐ Other									
Field Observations (SampleType = FieldObs)		WATERABILITY: ☒ N ☐ Unk		BEAUFORT SCALE (see attachment): <i>1</i>		DISTANCE FROM BANK (m): <i>28.5"</i>							
SITE ODOR: ☒ None ☐ Sulfides ☐ Sewage ☐ Petroleum ☐ Mixed ☐ Other		WIND DIRECTION (from): <i>SE</i>		HYDROMODIFICATION: ☒ None ☐ Bridge ☐ Pipes ☐ ConcreteChannel ☐ GradeControl ☐ Culvert ☐ AerialZipline ☐ Other		STREAM WIDTH (m): <i>9.5"</i>							
SKY CODE: ☒ Clear ☐ Partly Cloudy ☐ Overcast ☐ Fog		OTHERPRESENCE: ☒ Vascular ☐ Nonvascular ☐ OilySheen ☐ Foam ☐ Trash ☐ Other		PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode yyyy mm dd uniquecode): <i>2022-02-01-JULY</i>		1: (RB / LB / BB / US / DS / ##)							
DOMINANTSUBSTRATE: ☒ Bedrock ☐ Concrete ☐ Cobble ☐ Gravel ☐ Sand ☐ Mud ☐ Unk ☐ Other		WATERCLARITY: ☒ Clear (see bottom) ☐ Cloudy (>4" vis) ☐ Murky (<4" vis)		PRECIPITATION: ☒ None ☐ Fog ☐ Drizzle ☐ Rain ☐ Snow		2: (RB / LB / BB / US / DS / ##)							
WATERODOR: ☒ None ☐ Sulfides ☐ Sewage ☐ Petroleum ☐ Mixed ☐ Other		PRECIPITATION (last 24 hrs): ☒ Unknown ☐ <1" ☐ >1" ☐ None				2022-02-02 JULY							
WATERCOLOR: ☒ Colorless ☐ Green ☐ Yellow ☐ Brown						3: (RB / LB / BB / US / DS / ##)							
OBSERVED FLOW: <i>NA; Dry Waterbody Bed, No Obs Flow, Isolated Pool, Trickle (<0.1cfs), 0.1-1cfs, 1-5cfs, 5-20cfs, 20-50cfs, 50-200cfs, >200cfs</i>						2022-02-03 JULY							
Field Measurements (SampleType = FieldMeasure; Method = Field)													
	Depth Collec (m)	Velocity (fps)	Air Temp (°C)	Water Temp (°C)	pH	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (uS/cm)	Salinity (ppt)	Turbidity (ntu)	Stage Ht (units)		
SUBSURF/MID/ BOTTOMREP	<i>1"</i>	<i>0.580</i>	<i>50°F</i>	<i>10.2°</i>	<i>8.1</i>	<i>n/a</i>	<i>n/a</i>	<i>0.1</i>	<i>n/a</i>	<i>1-8</i>	<i>n/a</i>		
SUBSURF/MID/ BOTTOMREP													
SUBSURF/MID/ BOTTOMREP													
Instrument:			<i>Amber</i>	<i>Oakton</i>				<i>Blue bob</i>					
Calib. Date:			<i>n/a</i>	<i>7/12</i>				<i>n/a</i>					
Samples Taken (# of containers filled) - Method=Water_Grab								Field Dup YES/NO: (SampleType=Grab Integrated; LABEL_ID = FieldQA; create collection record upon data entry)					
SAMPLE TYPE: ☒ Grab ☐ Integrated		COLLECTION EQUIPMENT: ☒ Indiv bottle ☐ by hand ☐ by pole ☐ by bucket ☐ Teflon tubing ☐ Kemmer ☐ Pole & Beaker ☐ Other <i>useable cup</i>											
	Depth Collec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs
Sub/Surface	<i>1"</i>	<i>n/a</i>	<i>n/a</i>	<i>n/a</i>	<i>1</i>	<i>n/a</i>	<i>1</i>	<i>2</i>	<i>1</i>	<i>1</i>	<i>n/a</i>	<i>n/a</i>	<i>n/a</i>
Sub/Surface													
COMMENTS: <i>2022-02-02 DUPLICATE</i> <i>2022-02-03 FIELD BLANK</i> <i>2022-02-03 MATRIX SPIKE</i>													

N/A PLEASE SEE LAB REPORT

Run:		Sample Processing Date:									
Sample ID #:											
Site Code:											
Yellow +	# Small Wells										
	# Large Wells										
	Empty Wells										
	MPN										
Yellow + Fluorescence (+)	# Small Wells										
	# Large Wells										
	False Positives										
	MPN										
Temp/Time	Start	4 Hr. Check	14 Hr. Check	18 Hr. Check	22 Hr. Check, if needed						
FIELD DUPLICATES											
TOTAL COLIFORM	Normal Sample #										
	Duplicate Sample #										
	MPN										
	95% CI										
E. COLI	Normal Sample #										
	Duplicate Sample #										
	MPN										
	95% CI										
BLANKS	Normal Sample #										
	Duplicate Sample #										
	MPN										
	95% CI										
Mean = Mean of Normal and Duplicate, which is then compared to the individual corresponding CI's to determine acceptability of data											
Sampler Signature / Date / Time Arrived:		Placed in Incubator By / Date / Time:				Trays Read By:					
Processor / Date / Time:		Pulled from Incubator By / Date / Time:				Entered into database:					

brooke Nolan 7/28/23

IDENTIFICATION

Project Number:

WEATHER CONDITIONS

INITIAL WELL MEASUREMENTS (Measurements in feet made from top of well casing)

Well purged with: WELL PUMP

FINAL WELL MEASUREMENTS

INSTRUMENT CALIBRATION

Turbidity Meter: Newtry Standard n/a NTU Measured Value n/a NTU Standard n/a NTU Measured Value n/a NTU

FIELD PARAMETER MEASUREMENTS DURING PURGING

[illegible]

FINAL SAMPLE PARAMETERS

Sample Date	Sample Time	Discharge cfs ☐ gpm ☒	pH	Cond. (μ S/cm)	Temp. ($^{\circ}$ C)	Turbidity Visual Est. ☐ Measured ☒		
7/28/23	13:00	7.0	7.9	0.2	9.0	4.1		

_____ (sample control number/time *n/a*)

Notes: SAMPLED VIA PORT. * $6\frac{5}{8}"$ (1-40 ft) & $4\frac{1}{2}"$ (15-205 ft)

Sampler's Signature

Sampler's Signature Brooke Moran 7/28/23

IDENTIFICATION

Sample Location COMPLIANCE WELL Date 7/28/23 Start Time 12:40 Stop time 13:45 Page 1 of 1
Sample Control Number n/a Samplers BM

Ambient Air Temperature: 54.5 °C ☐ °F ☒ Not Measured ☐ Wind: Heavy ☐ Moderate ☐ Light ☒
Precipitation: None ☒ Rain ☐ Snow ☐ Heavy ☐ Moderate ☐ Light ☐ Sunny ☒ Partly Cloudy ☐

Static Water Level -38 Total Depth 165 Top of Screen 65 Filter Pack Interval n/a Borehole Diameter (inches) 6" (50-165 ft)
2-inch = 0.1632 gal/ft 4-inch = 0.6528 gal/ft 6-inch = 1.4688 gal/ft Casing Volume: 185 gallons
Well Casing ID n/a Well Casing OD * Protective Casing Stickup n/a Well Casing Stickup 1.0 Feet of Water n/a
Well purged with: WELL PUMP

Static Water Level 38 Total Depth 165 Total Volume Purged 551 Saturated Borehole Volume (gal) Max Pumping Rate n/a

FIELD PARAMETER MEASUREMENTS DURING PURGING

[illegible]

Sample Date	Sample Time	Discharge cfs ☐ gpm ☒	pH	Cond. (μ S/cm)	Temp. ($^{\circ}$ C)	Turbidity Visual Est. ☐ Measu red ☒		
7/28/23	13:30	10.4	7.6	0.3	6.7 ⁰	2.8		

_____ (sample control number/time) *n/a*

Notes: SAMPLED AT WELL. * $6\frac{5}{8}"$ (-1-50 ft) & $4\frac{1}{2}"$ (15-165 ft)

Sampler's Signature

Brooke Moran 7/28/23

IDENTIFICATION

WEATHER CONDITIONS

Ambient Air Temperature: 51.0 °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 top of well casing)

Static Water Level - 24 Total Depth 165 Top of Screen 25 Filter Pack Interval n/a Borehole Diameter (inches) 4.125

2-inch = 0.1632 gal/ft 4-inch = 0.6528 gal/ft 6-inch = 1.4688 gal/ft Casing Volume: 161 gallons

Well Casing ID n/a Well Casing OD * Protective Casing Stickup n/a Well Casing Stickup 2.4 Feet of Water n/a

Well purged with: WELL PUMP

FINAL WELL MEASUREMENTS

Static Water Level -24 Total Depth 165 Total Volume Purged 483 Saturated Borehole Volume (gal) 119 Max Pumping Rate n/a

INSTRUMENT CALIBRATION

pH Meter: Meter Number OAKTON 01

Conductivity Meter: Meter Number CMI-2104-01479

Buffer 7 Measured Value 7.0 Temp. 16.5°C

Standard 0.447 mS/cm Measured Value 0.5 mS/cm Temp. 18 °C

Buffer 10 Measured Value 10.0 Temp. 16.5 °C

Standard 0.447 mS/cm Measured Value 0.5 mS/cm Temp. 18 °C

Turbidity Meter: None Standard n/a NTU Measured Value n/a NTU Standard n/a NTU Measured Value n/a NTU

FIELD PARAMETER MEASUREMENTS DURING PURGING

[illegible]

FINAL SAMPLE PARAMETERS

Sample Date	Sample Time	Discharge cfs ☐ gpm ☒	pH	Cond. (μ S/cm)	Temp. ($^{\circ}$ C)	Turbidity Visual Est. ☐ Measured ☒		
7/28/23	11:30	10.0	6.5	0.2	6.6 $^{\circ}$	2.6		

Duplicate Sample-02 (sample control number/time n/a)

Field Blank-03 (sample control number/time *n/a*)

Rinsate Sample-04 (sample control number/time n/a

Matrix Spike-MS (sample control number/time n/a)

(sample control number/time n/a)

Notes: SAMPLED VIA PORT, *6 5/8" (-1-26 ft) & 4 1/2" (15-165 ft)

Sampler's Signature

Brooke Moran

7128123

IDENTIFICATION

WEATHER CONDITIONS

Precipitation: None ☐ Rain ☐ Snow ☐ Heavy ☐ Moderate ☐ Light ☐ Sunny ☐ Partly Cloudy ☒

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 purged with:

Static Water Level _____ Total Depth _____ Total Volume Purged _____ Saturated Borehole Volume (gal) _____ Max Pumping Rate _____

pH Meter: Meter Number 0AKTONOI

Buffer 10 Measured Value 10.0 Temp. 16.5°C

Turbidity Meter: Newton Standard n/a NTU Me

Conductivity Meter: Meter Number CM-2104-01479

Standard 0.447 mS/cm Measured Value 0.5 mS/cm Temp. 18°C

NTU Standard	NTU Measured Value	NTU Standard	NTU Measured Value
1	n/a	2	n/a
3	n/a	4	n/a
5	n/a	6	n/a
7	n/a	8	n/a
9	n/a	10	n/a
11	n/a	12	n/a
13	n/a	14	n/a
15	n/a	16	n/a
17	n/a	18	n/a
19	n/a	20	n/a
21	n/a	22	n/a
23	n/a	24	n/a
25	n/a	26	n/a
27	n/a	28	n/a
29	n/a	30	n/a
31	n/a	32	n/a
33	n/a	34	n/a
35	n/a	36	n/a
37	n/a	38	n/a
39	n/a	40	n/a
41	n/a	42	n/a
43	n/a	44	n/a
45	n/a	46	n/a
47	n/a	48	n/a
49	n/a	50	n/a
51	n/a	52	n/a
53	n/a	54	n/a
55	n/a	56	n/a
57	n/a	58	n/a
59	n/a	60	n/a
61	n/a	62	n/a
63	n/a	64	n/a
65	n/a	66	n/a
67	n/a	68	n/a
69	n/a	70	n/a
71	n/a	72	n/a
73	n/a	74	n/a
75	n/a	76	n/a
77	n/a	78	n/a
79	n/a	80	n/a
81	n/a	82	n/a
83	n/a	84	n/a
85	n/a	86	n/a
87	n/a	88	n/a
89	n/a	90	n/a
91	n/a	92	n/a
93	n/a	94	n/a
95	n/a	96	n/a
97	n/a	98	n/a
99	n/a	100	n/a

[illegible]

Sample Date	Sample Time	Discharge cfs ☐ gpm ☐	pH	Cond. (µS/cm)	Temp. (°C)	Turbidity Visual Est. ☐ Measured ☒		
7/28/23	12:15	n/a	8.1	0.2	7.0°	2.6		

(sample control number/time n/a)

Sampler's Signature

Sampler's Signature Bryce Moran 7/28/23

IDENTIFICATION

Sample Location CARIBOU PORTAL Date 7/28/23 Start Time 10:30 Stop time 11:15 Page 1 of 1
Sample Control Number n/a Samplers BM

Ambient Air Temperature: _____ °C ☐ °F ☐ Not Measured ☐ **Wind:** Heavy ☐ Moderate ☒ Light ☐

Precipitation: None ☐ Rain ☐ Snow ☐ Heavy ☐ Moderate ☐ Light ☐ Sunny ☐ Partly Cloudy ☐

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:

Static Water Level___ Total Depth___ Total Volume Purged___ Saturated Borehole Volume (gal)___ Max Pumping Rate___

pH Meter: Meter Number 0AKTON01

Buffer 7 Measured Value 7.0 Temp. 16.5°C

Buffer 10 Measured Value 10.0 Temp. 16.5°C

Turbidity Meter: Newtr Standard n/a NTU Me

Conductivity Meter: Meter Number CM1-2104-01479

Standard 0.447 mS/cm Measured Value 0.5 mS/cm Temp. 18 °C

Standard 0.447 mS/cm Measured Value 0.5 mS/cm Temp. 18 °C

Turbidity Meter: New Standard n/a NTU Measured Value n/a NTU Standard n/a NTU Measured Value n/a NTU

[illegible]

Sample Date	Sample Time	Discharge cfs ☐ gpm ☐	pH	Cond. (μ S/cm)	Temp. ($^{\circ}$ C)	Turbidity Visual Est. ☐ Measured ☒		
7/28/23	11:15	n/a						

Duplicate Sample-02 (sample control number/time CARIBOU-02

Field Blank-03 (sample control number/time *n/a*)

Rinsate Sample-04 (sample control number/time n/a)

Matrix Spike-MS (sample control number/time n/a)

(sample control number/time n/a)

Notes:

Sampler's Signature

Bride Moran

7/28/23

SURFACE WATER SAMPLING DATA SHEET

SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - Event Type=WQ										Entered into Database (Write in Field)		Pg 1 of 1 Pgs	
*StationID: 2022-01		*Date (mm/dd/yyyy): 8/31/23		*Group: n/a		*Agency: n/a							
*Funding: n/a		Arrival Time: 9:25		Departure Time: 9:42		*Sample Time (1st sample): n/a		*Protocol: n/a					
*Personnel: BM		*Purpose (circle all that apply): WaterChem WaterTox FieldObs FieldMeasure		*Purpose Failure: n/a									
*Location: Bank Thalweg Midchannel OpenWater		*GPS/DGPS		Lat (dd.ddddd): 39.97904		Long (ddd.ddddd): -105.57585		OCCUPATION METHOD: Walk-in Bridge R/V Other					
GPS Device: GPS Waypoints APP		Target: 39.97904		-105.57585		STARTING BANK (facing downstream): LB RB / NA							
Datum: NAD83		Accuracy (ft/m): 1.20		*Actual: 39.978993		-105.575798		Point of Sample (if Integrated, then -88 in dbase)					
Field Observations (SampleType = FieldObs)				WATERABILITY: Y N / Unk		BEAUFORT SCALE (see attachment): 3		DISTANCE FROM BANK (m): n/a		STREAM WIDTH (m): n/a		WATER DEPTH (m): n/a	
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other				WIND DIRECTION (from): NN		HYDROMODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Aerial Zipline, Other		PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode yyyy mm dd uniquecode): 2022-01-AUG-01		1: (RB / LB / BB / US / DS / ##)		2: (RB / LB / BB / US / DS / ##)	
SKY CODE: Clear, Partly Cloudy, Overcast, Fog				OTHER PRESENCE: Vascular, Nonvascular, Oily Sheen, Foam, Trash, Other		PRECIPITATION: None, Fog, Drizzle, Rain, Snow		2: (RB / LB / BB / US / DS / ##)		2022-01-AUG-02		3: (RB / LB / BB / US / DS / ##)	
DOMINANT SUBSTRATE: Bedrock, Concrete, Cobble, Gravel, Sand, Mud, Unk, Other				WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)		PRECIPITATION (last 24 hrs): Unknown, <1", >1", None		2022-01-AUG-03					
WATER COLOR: Colorless, Green, Yellow, Brown				OBSERVED FLOW: NA, Dry Waterbody Bed, No Obs Flow, Isolated Pool, Trickle (<0.1cfs), 0.1-1cfs, 1-5cfs, 5-20cfs, 20-50cfs, 50-200cfs, >200cfs									
Field Measurements (SampleType = FieldMeasure; Method = Field)													
	Depth Collec (m)	Velocity (fps)	Air Temp (°C)	Water Temp (°C)	pH	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (uS/cm)	Salinity (ppt)	Turbidity (ntu)	Stage Ht (units)		
SUBSURF/MID/ BOTTOM/REP	n/a	n/a	45°	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		
SUBSURF/MID/ BOTTOM/REP													
SUBSURF/MID/ BOTTOM/REP													
Instrument:													
Calib. Date:													
Samples Taken (# of containers filled) - Method=Water_Grab													
Field Dup YES / NO: (SampleType = Grab / Integrated; LABEL_ID = FieldQA; create collection record upon data entry)													
SAMPLE TYPE: Grab / Integrated													
COLLECTION EQUIPMENT: Indiv bottle (by hand, by pole, by bucket); Teflon tubing; Kemmer; Pole & Beaker; Other													
N/A	Depth Collec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs
Sub/Surface													
Sub/Surface													
COMMENTS: NO OBSERVABLE FLOW, SO NO SAMPLES COLLECTED													
N/A													
Run#	Sample Processing Date:												
Sample ID #:													
Site Code:													
# Small Wells													
# Large Wells													
Empty Wells													
MPN													
# Small Wells													
# Large Wells													
False Positives													
MPN													
Temp/Time	Start	4Hr. Check	14 Hr. Check	18 Hr. Check	22 Hr. Check, if needed								
FIELD DUPLICATES													
LAB DUPLICATES													
Normal Sample # Duplicate Sample #													
MPN													
95% CI													
Lower Upper													
TOTAL COLIFORM	Normal Duplicate Mean	Pass	Needs Review	Normal Duplicate Mean	Pass	Needs Review							
E. COLI	Normal Duplicate Mean	Pass	Needs Review	Normal Duplicate Mean	Pass	Needs Review							
BLANKS	Field Sample #	Pass	Needs Review	Lab Sample #	Pass	Needs Review							
Mean = Mean of Normal and Duplicate, which is then compared to the individual corresponding CI's to determine acceptability of data													
Sampler Signature / Date / Time Arrived: Placed in Incubator By / Date / Time: Trays Read By:													
Processor / Date / Time: Pulled from Incubator By / Date / Time: Entered into database:													
NOTES:													

Brooke Moran 8/31/23

SURFACE WATER SAMPLING DATA SHEET

SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - EventType=WQ										Enter into database (date)		Pg 1 of 1 Pgs	
*StationID: 2022-02			*Date (mm/dd/yyyy): 8/31/23			*Group: n/a			*Agency: n/a				
*Funding: n/a			ArrivalTime: 9:05am			DepartureTime: 9:17am			*SampleTime (1st sample): 9:00 am				
*Personnel: BM			*Purpose (circle all that apply): WaterChem WaterTox FieldObs FieldMeasure						*PurposeFailure: n/a				
*Location: Bank Thalweg Midchannel OpenWater			*GPS/DGPS		Lat (dd.ddddd): 39.975787		Long (ddd.ddddd): -105.569328		OCCUPATION METHOD: Walk-in Bridge R/V Other				
GPS Device: GPS Waypoints App			Target: 39.975787		-105.569328		STARTING BANK (facing downstream): LB (RB) NA						
Datum: NAD83			Accuracy (ft/m): 1.40		*Actual: 39.975787		-105.569305		Point of Sample (if Integrated, then -88 in dbase)				
Field Observations (SampleType = FieldObs)													
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other			WADEABILITY: Y / N / Unk		BEAUFORT SCALE (see attachment): 1		DISTANCE FROM BANK (m): 11"		STREAM WIDTH (m): 1'10"				
SKY CODE: Clear, Partly Cloudy, Overcast, Fog			WIND DIRECTION (from): N		HYDROMODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Aerial Zipline, Other		PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode yyyy mm dd uniquecode): 2022-02-AUG-01		1: (RB / LB / BB / US / DS / ##)				
OTHER PRESENCE: Vascular, Nonvascular, Oily Sheen, Foam, Trash, Other			DOMINANT SUBSTRATE: Bedrock, Concrete, Cobble, Gravel, Sand, Mud, Unk, Other		WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)		PRECIPITATION: None, Fog, Drizzle, Rain, Snow		2: (RB / LB / BB / US / DS / ##)				
WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other			PRECIPITATION (last 24 hrs): Unknown, <1", >1", None		WATER COLOR: Colorless, Green, Yellow, Brown				3: (RB / LB / BB / US / DS / ##)				
OBSERVED FLOW: NA, Dry Waterbody Bed, No Obs Flow, Isolated Pool, Trickle (<0.1cfs), 0.1-1cfs, 1-5cfs, 5-20cfs, 20-50cfs, 50-200cfs, >200cfs									2022-02-AUG-02				
Field Measurements (SampleType = FieldMeasure; Method = Field)													
	Depth Collec (m)	Velocity (fps)	Air Temp (°C)	Water Temp (°C)	pH	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (uS/cm)	Salinity (ppt)	Turbidity (ntu)	Stage Ht (units)		
SUBSURF/MID/ BOTTOM/REP	1"	0.04	47°	10.7°	8.2	n/a	n/a	0.2	n/a	2.3	n/a		
SUBSURF/MID/ BOTTOM/REP													
SUBSURF/MID/ BOTTOM/REP													
Instrument:			Ambient	0.1m						Newtr			
Calib. Date:			n/a	8/31						n/a			
Samples Taken (# of containers filled) - Method=Water_Grab													
Field Dup YES / NO: (SampleType = Grab / Integrated; LABEL_ID = FieldQA; create collection record upon data entry)													
SAMPLE TYPE: Grab / Integrated		COLLECTION EQUIPMENT:		Indiv bottle (by hand, by pole, by bucket); Teflon tubing; Kemmer; Pole & Beaker; Other									
	Depth Collec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs
Sub/Surface	1"	n/a	n/a	n/a	1	n/a	1	2	1	1	n/a	n/a	n/a
Sub/Surface													
COMMENTS: 2022-02-02 DUPLICATE 2022-02-02 FIELD BLANK 2022-02-03 MATRIX SPIKE													

N/A PLEASE SEE LAB REPORT

Run:										Sample Processing Date:										
Sample ID #:																				
Site Code:																				
Yellow +	# Small Wells																			
	# Large Wells																			
	Empty Wells																			
Yellow + Fluorescence (+)	# Small Wells																			
	# Large Wells																			
	False Positives																			
Temp/Time	Start	4 Hr. Check	14 Hr. Check	18 Hr. Check	22 Hr. Check, if needed															
FIELD DUPLICATES										LAB DUPLICATES										
Normal Sample #										Normal Sample #										
Duplicate Sample #										Duplicate Sample #										
MPN										MPN										
95% CI										95% CI										
Lower										Lower										
Upper										Upper										
TOTAL COLIFORM										TOTAL COLIFORM										
Normal										Normal										
Duplicate										Duplicate										
Mean										Mean										
Pass										Pass										
Needs Review										Needs Review										
E. COLI										E. COLI										
Normal										Normal										
Duplicate										Duplicate										
Mean										Mean										
Pass										Pass										
Needs Review										Needs Review										
BLANKS										BLANKS										
Field Sample #										Lab Sample #										
Pass										Pass										
Needs Review										Needs Review										
Mean = Mean of Normal and Duplicate, which is then compared to the individual corresponding CI's to determine acceptability of data																				
Sampler Signature / Date / Time Arrived:										Placed in Incubator By / Date / Time:										
Processor / Date / Time:										Trays Read By:										
Pulled from Incubator By / Date / Time:										Entered into database:										
NOTES:																				

Brooke Moran 8/31/23

GROUND WATER SAMPLING DATA SHEET

IDENTIFICATION

Sample Location CROSS WELL Date 8/31/23 Start Time 11:30 Stop time 13:15 Page 1 of 1
 Sample Control Number n/a Samplers BM

Project Number:

WEATHER CONDITIONS

Ambient Air Temperature: 66° °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 top of well casing)

Static Water Level 25 Total Depth 205 Top of Screen 15 Filter Pack Interval n/a Borehole Diameter (inches) 9" (0-40 ft)
5 7/8" (40-205 ft)
 2-inch = 0.1632 gal/ft 4-inch = 0.6528 gal/ft 6-inch = 1.4688 gal/ft Casing Volume: 208 gallons

Well Casing ID n/a Well Casing OD * Protective Casing Stickup n/a Well Casing Stickup 1.2 Feet of Water n/a

Well purged with: WELL PUMP

FINAL WELL MEASUREMENTS

Static Water Level 25 Total Depth 205 Total Volume Purged 624 Saturated Borehole Volume (gal) 164 Max Pumping Rate n/a

INSTRUMENT CALIBRATION

pH Meter: Meter Number DAKTON 101

Buffer 7 Measured Value 7.0 Temp. 16.7 °C

Buffer 10 Measured Value 10.0 Temp. 16.9 °C

Conductivity Meter: Meter Number CM1-2104-01479

Standard 0.447 mS/cm Measured Value 0.5 mS/cm Temp. 16 °C

Standard 0.447 mS/cm Measured Value 0.5 mS/cm Temp. 16 °C

Turbidity Meter: Neutry Standard n/a NTU Measured Value n/a NTU Standard n/a NTU Measured Value n/a NTU

FIELD PARAMETER MEASUREMENTS DURING PURGING

Time	Volume (gallons)	pH	Cond. (µS/cm)	Temp. °C ☒ °F ☐	Turbidity Visual Est. ☐ Measured ☒	Comments
<u>11:30</u>	<u>0</u>	<u>7.1</u>	<u>0.2</u>	<u>15.4°</u>	<u>2.4</u>	<u>FIELD-FILTERED FOR</u>
<u>13:00</u>	<u>624</u>	<u>7.8</u>	<u>0.3</u>	<u>8.6°</u>	<u>1.9</u>	<u>METALS & RADIONUCLIDES</u>
						<u>SAMPLES COLLECTED</u>
						<u>WITH DISPOSABLE CUP</u>

FINAL SAMPLE PARAMETERS

Sample Date	Sample Time	Discharge cfs ☐ gpm ☒	pH	Cond. (µS/cm)	Temp. (°C)	Turbidity Visual Est. ☐ Measured ☒		
<u>8/31/23</u>	<u>13:00</u>	<u>7.0</u>	<u>7.8</u>	<u>0.3</u>	<u>8.6°</u>	<u>1.9</u>		

Duplicate Sample-02 (sample control number/time n/a)

Field Blank-03 (sample control number/time n/a)

Rinsate Sample-04 (sample control number/time n/a)

Matrix Spike-MS (sample control number/time n/a)

(sample control number/time n/a)

QAQC
AVAILABLE
IN LAB REPORT

Notes: SAMPLED VIA PORT. * 6 5/8" (-1-40 ft) & 4 1/2" (15-205 ft)

Sampler's Signature

Brooke Moran 8/31/23

GROUND WATER SAMPLING DATA SHEET

IDENTIFICATION

Sample Location COMPLIANCE WELL Date 8/31/23 Start Time 12:40 Stop time 13:45 Page 1 of 1
 Sample Control Number n/a Samplers BM, KL

Project Number:

WEATHER CONDITIONS

Ambient Air Temperature: 76° °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 top of well casing)

Static Water Level -38 Total Depth 165 Top of Screen 65 Filter Pack Interval n/a Borehole Diameter (inches) 9" (10-50 ft)
6" (50-165 ft)
 2-inch = 0.1632 gal/ft 4-inch = 0.6528 gal/ft 6-inch = 1.4688 gal/ft Casing Volume: 185 gallons
 Well Casing ID n/a Well Casing OD 4 Protective Casing Stickup n/a Well Casing Stickup 1.0 Feet of Water n/a
 Well purged with: WELL PUMP

FINAL WELL MEASUREMENTS

Static Water Level -38 Total Depth 165 Total Volume Purged 554 Saturated Borehole Volume (gal) 104 Max Pumping Rate n/a

INSTRUMENT CALIBRATION

pH Meter: Meter Number OAKTON 01

Buffer 7 Measured Value 7.0 Temp. 16.7 °C

Buffer 10 Measured Value 10.0 Temp. 16.9 °C

Conductivity Meter: Meter Number CM1-2104-01479

Standard 0.443 mS/cm Measured Value 0.5 mS/cm Temp. 16 °C

Standard 0.443 mS/cm Measured Value 0.5 mS/cm Temp. 16 °C

Turbidity Meter: Nutro Standard n/a NTU Measured Value n/a NTU Standard n/a NTU Measured Value n/a NTU

FIELD PARAMETER MEASUREMENTS DURING PURGING

Time	Volume (gallons)	pH	Cond. (µS/cm)	Temp. °C ☒ °F ☐	Turbidity Visual Est. ☐ Measured ☐	Comments
12:40	<u>0</u>	<u>7.4</u>	<u>0.2</u>	<u>7.7°</u>	<u>1.7</u>	FIELD-FILTERED FOR
13:30	<u>554</u>	<u>7.3</u>	<u>0.2</u>	<u>8.1°</u>	<u>0.9</u>	METALS & RADIONUCLIDES
						SAMPLES COLLECTED
						WITH DISPOSABLE CUP

FINAL SAMPLE PARAMETERS

Sample Date	Sample Time	Discharge cfs ☐ gpm ☒	pH	Cond. (µS/cm)	Temp. (°C)	Turbidity Visual Est. ☐ Measured ☐		
8/31/23	13:30	<u>10.4</u>	<u>7.3</u>	<u>0.2</u>	<u>8.1°</u>	<u>0.9</u>		

Duplicate Sample-02 (sample control number/time COMPLIANCE 02)

Field Blank-03 (sample control number/time COMPLIANCE 03)

Rinsate Sample-04 (sample control number/time n/a)

Matrix Spike-MS (sample control number/time n/a)

(sample control number/time n/a)

Notes: SAMPLED AT WELL. * 6 5/8" (1-50 ft) & 4 1/2" (15-165 ft)

Sampler's Signature

Blake Moran 8/31/23

QAQC

AVAILABLE IN
LAB REPORT

IDENTIFICATION

Project Number:

WEATHER CONDITIONS

INITIAL WELL MEASUREMENTS (Measurements in feet made from top of well casing)

Well purged with: WELL PUMP

INSTRUMENT CALIBRATION

Standard 0.447 mS/cm Measured Value 0.5 mS/cm Temp. 16 °C

Turbidity Meter: *None* Standard *n/a* NTU Measured Value *n/a* NTU Standard *n/a* NTU Measured Value *n/a* NTU

[illegible]

Sample Date	Sample Time	Discharge cfs ☐ gpm ☐	pH	Cond. (μ S/cm)	Temp. ($^{\circ}$ C)	Turbidity Visual Est. ☐ Measured ☒		
8/31/23	11:30	10.0	7.8	0.1	8.3 ⁰	1.6		

(sample control number/time n/a)

QAQC
AVAILABLE
IN LAB REPORT

Notes: SAMPLED VIA PORT. *6⁵/₈" (-1-26 ft) & 4¹/₂" (15-165 ft)

Sampler's Signature

Brashe Moran 8/31/23

IDENTIFICATION

~~WEATHER~~ CONDITIONS

Precipitation: None ☐ Rain ☐ Snow ☐ Heavy ☐ Moderate ☐ Light ☐ Sunny ☐ Partly Cloudy ☐

2-inch = 0.1632 gal/ft 4-inch = 0.6528 gal/ft 6-inch = 1.4688 gal/ft Casing Volume: gallons

Well purged with:

INSTRUMENT CALIBRATION

Turbidity Meter: Newtry Standard n/a NTU Measured Value n/a NTU Standard n/a NTU Measured Value n/a NTU

[illegible]

Sample Date	Sample Time	Discharge cfs ☐ gpm ☐	pH	Cond. (μ S/cm)	Temp. ($^{\circ}$ C)	Turbidity Visual Est. ☐ Measured ☒		
8/31/23	12:15	n/a	7.9	0.2	6.80	2.1		

(sample control number/time n/a)

Sampler's Signature Brooke Moran 8/31/23

Project Number:

Sample Location CARIBOU PORTAL Date 8/31/23 Start Time 10:30 Stop time 11:15 Page 1 of 1
 Sample Control Number n/a Samplers BM, KL
 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)

2-inch = 0.1632 gal/ft 4-inch = 0.6528 gal/ft 6-inch = 1.4688 gal/ft Casing Volume: _____ gallons

Well purged with:

Static Water Level___ Total Depth___ Total Volume Purged___ Saturated Borehole Volume (gal)___ Max Pumping Rate

pH Meter: Meter Number 0AKTON01

Buffer 10 Measured Value 10.0 Temp. 16.9 °C

Turbidity Meter: Newtro Standard nila NTU Me

Conductivity Meter: Meter Number *CM1-2104-01479*

Standard 0.447 mS/cm Measured Value 0.5 mS/cm Temp. 16 °C

1 Value n/a NTU Standard n/a NTU Measured Value n/a NTU

[illegible]

Sample Date	Sample Time	Discharge cfs ☐ gpm ☐	pH	Cond. (μ S/cm)	Temp. ($^{\circ}$ C)	Turbidity Visual Est. ☐ Measu red ☒		
8/31/23	11:15	n/a	8.0	0.2	9.1 $^{\circ}$	3.1		

Duplicate Sample-02 (sample control number/time) CARIBOU 02

Field Blank-03 (sample control number/time CARIBOU 03)

Rinsate Sample-04 (sample control number/time n/a)

Matrix Spike-MS (sample control number/time n/a)

(sample control number/time n/a)

Notes:

Sampler's Signature Blake Moran 8/31/23

SURFACE WATER SAMPLING DATA SHEET

SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - EventType=WQ					Entered in S-W base (mm/dd/yyyy)		Pg 1 of 1 Pgs						
*StationID: 2022-01		*Date (mm/dd/yyyy): 9/28/23		*Group: n/a		*Agency: n/a							
*Funding: n/a		ArrivalTime: 15:10		DepartureTime: 15:25		*SampleTime (1st sample): n/a		*Protocol: n/a					
*Personnel: BM		*Purpose (circle all that apply): WaterChem WaterTox FieldObs FieldMeasure				*PurposeFailure: n/a							
*Location: Bank Thalweg Midchannel OpenWater		*GPS/DGPS		Lat (dd.ddddd): 39.97904		Long (ddd.ddddd): -105.57585		OCCUPATION METHOD: Walk-in Bridge R/V Other					
GPS Device: GPS Waypoints App		Target: 39.97904		-105.57585		STARTING BANK (facing downstream): LB / RB / NA							
Datum: NAD83		Accuracy (ft/m): 1.20		*Actual: 39.978993		-105.575798		Point of Sample (if Integrated, then -88 in dbase)					
Field Observations (SampleType = FieldObs)				WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis) n/a		PRECIPITATION: None, Fog, Drizzle, Rain, Snow		2: (RB / LB / BB / US / DS / ##)					
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other				WIND DIRECTION (from): NE		HYDROMODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Aerial Zipline, Other		LOCATION (to sample): US / DS / WI /					
SKY CODE: Clear, Partly Cloudy, Overcast, Fog				OTHER PRESENCE: Vascular, Nonvascular, Oily Sheen, Foam, Trash, Other		PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode yyyy mm dd uniquecode): 2022-01-SEPT-01		1: (RB / LB / BB / US / DS / ##)					
DOMINANT SUBSTRATE: Bedrock, Concrete, Cobble, Gravel, Sand, Mud, Unk, Other				WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis) n/a		PRECIPITATION: None, Fog, Drizzle, Rain, Snow		2: (RB / LB / BB / US / DS / ##)					
WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other n/a				PRECIPITATION (last 24 hrs): Unknown, <1", >1", None		2022-01-SEPT-02		3: (RB / LB / BB / US / DS / ##)					
WATER COLOR: Colorless, Green, Yellow, Brown n/a				OBSERVED FLOW: NA, Dry Waterbody Bed, No Obs Flow, Isolated Pool, Trickle (<0.1cfs), 0.1-1cfs, 1-5cfs, 5-20cfs, 20-50cfs, 50-200cfs, >200cfs		2022-01-SEPT-03							
Field Measurements (SampleType = FieldMeasure; Method = Field)													
	Depth Collec (m)	Velocity (fps)	Air Temp (°C)	Water Temp (°C)	pH	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (uS/cm)	Salinity (ppt)	Turbidity (ntu)	Stage Ht (units)		
SUBSURF/MID/ BOTTOM/REP	n/a	n/a	62°	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		
SUBSURF/MID/ BOTTOM/REP													
SUBSURF/MID/ BOTTOM/REP													
Instrument:													
Calib. Date:													
Samples Taken (# of containers filled) - Method=Water_Grab					Field Dup YES / NO: (SampleType = Grab / Integrated; LABEL_ID = FieldQA; create collection record upon data entry)								
SAMPLE TYPE: Grab / Integrated		COLLECTION EQUIPMENT:				Indiv bottle (by hand, by pole, by bucket); Teflon tubing; Kemmer; Pole & Beaker; Other							
N/A	Depth Collec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs
Sub/Surface													
Sub/Surface													
COMMENTS: NO OBSERVABLE FLOW, SO NO SAMPLES COLLECTED													

Run:		Sample Processing Date:																																							
Sample ID #:																																									
Site Code:																																									
Yellow +	# Small Wells																																								
	# Large Wells																																								
	Empty Wells																																								
	MPN																																								
Yellow + Fluorescence (+)	# Small Wells																																								
	# Large Wells																																								
	False Positives																																								
	MPN																																								
Temp/Time	Start	4Hr. Check				14Hr. Check				18Hr. Check				22Hr. Check, if needed																											
TOTAL COLIFORM	Normal Sample #	FIELD DUPLICATES												LAB DUPLICATES																											
	Duplicate Sample #																																								
	MPN					95% CI								MPN				95% CI																							
	Mean					Lower Upper								Mean				Lower Upper																							
E. COLI	Normal Duplicate	Pass												Needs Review																											
	Duplicate																																								
	Mean					Pass				Needs Review				Mean				Pass				Needs Review																			
	BLANKS	Field Sample #					Pass				Needs Review				Lab Sample #				Pass				Needs Review																		
Mean = Mean of Normal and Duplicate, which is then compared to the individual corresponding CI's to determine acceptability of data																																									
Sampler Signature / Date / Time Arrived:														Placed in Incubator By / Date / Time:														Trays Read By:													
Processor / Date / Time:														Pulled from Incubator By / Date / Time:														Entered into database:													

Brooke Moran 9/28/23

SURFACE WATER SAMPLING DATA SHEET

SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - Event Type=WQ						Enter in database (date)		Pg 1 of 1 Pgs					
*StationID: <u>2022-02</u>		*Date (mm/dd/yyyy): <u>9/28/23</u>		*Group: <u>n/a</u>		*Agency: <u>n/a</u>							
*Funding: <u>n/a</u>		Arrival Time: <u>14:55</u>		Departure Time: <u>15:05</u>		*Sample Time (1st sample): <u>n/a</u>		*Protocol: <u>n/a</u>					
*Personnel: <u>BM</u>		*Purpose (circle all that apply): <u>WaterChem</u> <u>WaterTox</u> <u>FieldObs</u> <u>FieldMeasure</u>				*Purpose/Failure: <u>n/a</u>							
*Location: <u>Bank Thalweg Midchannel OpenWater</u>		*GPS/DGPS		Lat (dd.ddddd): <u>39.975787</u>		Long (ddd.ddddd): <u>-105.569328</u>		OCCUPATION METHOD: <u>Walk-In</u> <u>Bridge</u> <u>RV</u> <u>Other</u>					
GPS Device: <u>GPS Waypoints App</u>		Target: <u>39.975787</u>		-105.569328		STARTING BANK (facing downstream): <u>LB</u> <u>RB</u> <u>NA</u>							
Datum: <u>NAD83</u>		Accuracy (ft (m)): <u>1.40</u>		*Actual: <u>39.975787</u>		-105.569305		Point of Sample (if Integrated, then -88 in dbase)					
Field Observations (Sample Type = FieldObs)				WATER DEPTH (m): <u>n/a</u>		STREAM WIDTH (m): <u>n/a</u>							
SITE ODOR: <u>None, Sulfides, Sewage, Petroleum, Mixed, Other</u>				BEAUFORT SCALE (see attachment): <u>2</u>		DISTANCE FROM BANK (m): <u>n/a</u>		WATER DEPTH (m): <u>n/a</u>					
SKY CODE: <u>Clear, Partly Cloudy, Overcast, Fog</u>				WIND DIRECTION (from): <u>E</u>		HYDROMODIFICATION: <u>None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Aerial Zipline, Other</u>		LOCATION (to sample): <u>US / DS / WI /</u>					
OTHER PRESENCE: <u>None</u> <u>Vascular, Nonvascular, Oily Sheen, Foam, Trash, Other</u>				PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode yyyy mm dd uniquecode): <u>2022-02-SEPT-01</u>		1: (RB / LB / BB / US / DS / ##)							
DOMINANT SUBSTRATE: <u>Bedrock, Concrete, Cobble, Gravel, Sand, Mud, Unk, Other</u>				WATER CLARITY: <u>Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)</u>		PRECIPITATION: <u>None, Fog, Drizzle, Rain, Snow</u>		2: (RB / LB / BB / US / DS / ##)					
WATER ODOR: <u>None, Sulfides, Sewage, Petroleum, Mixed, Other</u>				PRECIPITATION (last 24 hrs): <u>Unknown, <1", >1", None</u>		3: (RB / LB / BB / US / DS / ##)							
WATER COLOR: <u>Colorless, Green, Yellow, Brown</u>				OBSERVED FLOW: <u>NA, Dry Waterbody Bed, No Obs Flow, Isolated Pool, Trickle (<0.1cfs), 0.1-1cfs, 1-5cfs, 5-20cfs, 20-50cfs, 50-200cfs, >200cfs</u>		2022-02-SEPT-02		2022-02-SEPT-03					
Field Measurements (Sample Type = FieldMeasure; Method = Field)													
	Depth Collec (m)	Velocity (fps)	Air Temp (°C)	Water Temp (°C)	pH	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (uS/cm)	Salinity (ppt)	Turbidity (ntu)	Stage Ht (units)		
SUBSURF/MID/ BOTTOMREP	<u>n/a</u>	<u>n/a</u>	<u>60°F</u>	<u>n/a</u>	<u>n/a</u>	<u>n/a</u>	<u>n/a</u>	<u>n/a</u>	<u>n/a</u>	<u>n/a</u>	<u>n/a</u>		
SUBSURF/MID/ BOTTOMREP													
SUBSURF/MID/ BOTTOMREP													
Instrument:													
Calib. Date:													
Samples Taken (# of containers filled) - Method=Water_Grab										Field Dup YES / NO: (Sample Type = Grab / Integrated; LABEL_ID = FieldQA; create collection record upon data entry)			
SAMPLE TYPE: <u>Grab / Integrated</u>		COLLECTION EQUIPMENT:		Indiv bottle (by hand, by pole, by bucket); Teflon tubing; Kemmer; Pole & Beaker; Other									
<u>N/A</u>	Depth Collec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs
Sub/Surface													
Sub/Surface													
COMMENTS: <u>STANDING WATER ONLY, NO OBSERVABLE FLOW, ∴ NO SAMPLES COLLECTED</u>													

Run:										Sample Processing Date:									
Sample ID #:																			
Site Code:																			
# Small Wells																			
# Large Wells																			
Empty Wells																			
MPN																			
# Small Wells																			
# Large Wells																			
False Positives																			
MPN																			
Temp / Time																			
Start																			
4Hr. Check																			
14 Hr. Check																			
18 Hr. Check																			
22 Hr. Check, if needed																			
FIELD DUPLICATES										LAB DUPLICATES									
Normal Sample #										Normal Sample #									
Duplicate Sample #										Duplicate Sample #									
MPN										MPN									
95% CI										95% CI									
Lower										Lower									
Upper										Upper									
Pass										Pass									
Needs Review										Needs Review									
Normal										Normal									
Duplicate										Duplicate									
Mean										Mean									
Pass										Pass									
Needs Review										Needs Review									
Normal										Normal									
Duplicate										Duplicate									
Mean										Mean									
Pass										Pass									
Needs Review										Needs Review									
BLANKS										Lab Sample #									
Field Sample #																			
Mean = Mean of Normal and Duplicate, which is then compared to the individual corresponding CI's to determine acceptability of data																			
Sampler Signature / Date / Time Arrived:										Placed in Incubator By / Date / Time:									
Processor / Date / Time:										Trays Read By:									
Pulled from Incubator By / Date / Time:										Entered into database:									
NOTES:																			

Brooke Moran 9/28/23

IDENTIFICATION

WEATHER CONDITIONS

INITIAL WELL MEASUREMENTS (Measurements in feet made from top of well casing)

FINAL WELL MEASUREMENTS

INSTRUMENT CALIBRATION

Turbidity Meter: N/A Standard n/a NTU Measured Value n/a NTU Standard n/a NTU Measured Value n/a NTU

FIELD PARAMETER MEASUREMENTS DURING PURGING

FINAL SAMPLE PARAMETERS

_____ (sample control number/time n/a)

Sampler's Signature Brooke Moran 9/28/23

GROUND WATER SAMPLING DATA SHEET

IDENTIFICATION

Sample Location COMPLIANCE WELL Date 9/28/23 Start Time 12:40 Stop time 13:45 Project Number: Page 1 of 1
 Sample Control Number n/a Samplers BM, KL

WEATHER CONDITIONS

Ambient Air Temperature: 69° °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 top of well casing)

Static Water Level 39 Total Depth 165 Top of Screen 65 Filter Pack Interval n/a Borehole Diameter (inches) 9" (0-50 ft)
6" (50-165 ft)
 2-inch = 0.1632 gal/ft 4-inch = 0.6528 gal/ft 6-inch = 1.4688 gal/ft Casing Volume: 185 gallons
 Well Casing ID n/a Well Casing OD * Protective Casing Stickup n/a Well Casing Stickup 1.0 Feet of Water n/a
 Well purged with: WELL PUMP

FINAL WELL MEASUREMENTS

Static Water Level 39 Total Depth 165 Total Volume Purged 554 Saturated Borehole Volume (gal) 134 Max Pumping Rate n/a

INSTRUMENT CALIBRATION

pH Meter: Meter Number OAKTON 01

Buffer 7 Measured Value 7.0 Temp. 13.9 °C

Buffer 10 Measured Value 10.0 Temp. 13.6 °C

Conductivity Meter: Meter Number CM1-2104-01479

Standard 0.447 mS/cm Measured Value 0.5 mS/cm Temp. 14 °C

Standard 0.447 mS/cm Measured Value 0.5 mS/cm Temp. 14 °C

Turbidity Meter: Newby Standard n/a NTU Measured Value n/a NTU Standard n/a NTU Measured Value n/a NTU

FIELD PARAMETER MEASUREMENTS DURING PURGING

Time	Volume (gallons)	pH	Cond. (µS/cm)	Temp. °C ☐ °F ☐	Turbidity Visual Est. ☐ Measured ☒	Comments
12:40	0	7.1	0.3	7.5°	2.3	FIELD-FILTERED FOR
13:30	554	8.3	0.3	6.3°	1.5	METALS & RADIONUCLIDES
						SAMPLES COLLECTED
						WITH DISPOSABLE CUP

FINAL SAMPLE PARAMETERS

Sample Date	Sample Time	Discharge cfs ☐ gpm ☒	pH	Cond. (µS/cm)	Temp. (°C)	Turbidity Visual Est. ☐ Measured ☒		
8/31/23	13:30	10.4	8.3	0.3	6.3°	1.5		

Duplicate Sample-02 (sample control number/time COMPLIANCE 02)

Field Blank-03 (sample control number/time COMPLIANCE 03)

Rinsate Sample-04 (sample control number/time n/a)

Matrix Spike-MS (sample control number/time n/a)

(sample control number/time n/a)

Notes: SAMPLED AT WELL *6 5/8" (-1-50 ft) x 4 1/2" (05-165 ft)

Sampler's Signature

Brode Moran 9/28/23

QAQC

AVAILABLE IN
LAB REPORT

GROUND WATER SAMPLING DATA SHEET

IDENTIFICATION

Sample Location CARIBOU WELL Date 9/28/23 Start Time 10:40 Stop time 11:40 Page 1 of 1
 Sample Control Number n/a Samplers BM, KL

Project Number:

WEATHER CONDITIONS

Ambient Air Temperature: 64° °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 top of well casing)

Static Water Level -26 Total Depth 165 Top of Screen 25 Filter Pack Interval n/a Borehole Diameter (inches) 9" (0-26 ft) 6" (26-165 ft)
 2-inch = 0.1632 gal/ft 4-inch = 0.6528 gal/ft 6-inch = 1.4688 gal/ft Casing Volume: 161 gallons
 Well Casing ID n/a Well Casing OD * Protective Casing Stickup n/a Well Casing Stickup 2.4 Feet of Water n/a
 Well purged with: WELL PUMP

FINAL WELL MEASUREMENTS

Static Water Level 26 Total Depth 165 Total Volume Purged 483 Saturated Borehole Volume (gal) 115 Max Pumping Rate n/a

INSTRUMENT CALIBRATION

pH Meter: Meter Number 0AKT0101
 Buffer 7 Measured Value 7.0 Temp. 13.9 °C
 Buffer 10 Measured Value 10.0 Temp. 13.6 °C

Conductivity Meter: Meter Number CM1-2104-01479
 Standard 0.447 mS/cm Measured Value 0.5 mS/cm Temp. 14 °C
 Standard 0.447 mS/cm Measured Value 0.5 mS/cm Temp. 14 °C

Turbidity Meter: Natty Standard n/a NTU Measured Value n/a NTU Standard n/a NTU Measured Value n/a NTU

FIELD PARAMETER MEASUREMENTS DURING PURGING

Time	Volume (gallons)	pH	Cond. (µS/cm)	Temp. °C ☒ °F ☐	Turbidity Visual Est. ☐ Measured ☐	Comments
10:40	0	7.4	0.1	17.1	6.7	FIELD - FILTERED FOR
11:30	483	7.6	0.2	7.3°	2.5	METALS & RADIONUCLIDES
						SAMPLES COLLECTED
						WITH DISPOSABLE CUP

FINAL SAMPLE PARAMETERS

Sample Date	Sample Time	Discharge cfs ☐ gpm ☐	pH	Cond. (µS/cm)	Temp. (°C)	Turbidity Visual Est. ☐ Measured ☒		
9/28/23	11:30	10.0	7.6	0.2	7.3°	2.5		

Duplicate Sample-02 (sample control number/time n/a) QAQC
 Field Blank-03 (sample control number/time n/a)
 Rinsate Sample-04 (sample control number/time n/a) AVAILABLE IN
 Matrix Spike-MS (sample control number/time n/a) LAB REPORT
 (sample control number/time n/a)

Notes: SAMPLED VIA PORT. * 6 5/8" (-1-26 ft) & 4 1/2" (15-165 ft)

Sampler's Signature Brooke Moran 9/28/23

IDENTIFICATION

WEATHER CONDITIONS

Precipitation: None ☐ Rain ☐ Snow ☐ Heavy ☐ Moderate ☐ Light ☐ Sunny ☐ Partly Cloudy ☐

Well purged with:

Static Water Level___ Total Depth___ Total Volume Purged___ Saturated Borehole Volume (gal) Max Pumping Rate

Turbidity Meter: None Standard n/a NTU Measured Value n/a NTU Standard n/a NTU Measured Value n/a NTU

[illegible]

Sample Date	Sample Time	Discharge cfs ☐ gpm ☐	pH	Cond. (μ S/cm)	Temp. ($^{\circ}$ C)	Turbidity Visual Est. ☐ Measured ☒		
9/28/23	12:15	n/a	7.8	0.4	4.6 $^{\circ}$	15.2		

Notes:

Sampler's Signature

Brooke Moran 9/28/23

IDENTIFICATION

WEATHER CONDITIONS

INITIAL WELL MEASUREMENTS (Measurements in feet made from top of well casing)

Well purged with:

Static Water Level___ Total Depth___ Total Volume Purged___ Saturated Borehole Volume (gal)___ Max Pumping Rate___

Turbidity Meter: Neutral Standard n/a NTU Measured Value n/a NTU Standard n/a NTU Measured Value n/a NTU

[illegible]

Sample Date	Sample Time	Discharge cfs ☐ gpm ☐	pH	Cond. (μ S/cm)	Temp. ($^{\circ}$ C)	Turbidity Visual Est. ☐ Measu red ☒		
9/28/23	11:15	n/a	8.1	0.2	6.9 $^{\circ}$	2.8		

(sample control number/time n/a)

Sampler's Signature Brooke Moran 9/28/23

APPENDIX F PHOTOGRAPHS

APPENDIX F.1 SAMPLE LOCATION 2022-01 PHOTOGRAPHS

JULY 2023







AUGUST 2023







SEPTEMBER 2023







APPENDIX F.2 SAMPLE LOCATION 2022-02 PHOTOGRAPHS

JULY 2023







AUGUST 2023







SEPTEMBER 2023





