FIRST QUARTER 2024

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

April 30, 2024

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1. Background

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".*** At the time of issuance or this Quarterly Report, the Operator has collected and has analyzed, via third party laboratory, site waters from 7 monitoring locations, from May 2022 through January of 2024.

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. Compliance samples from the Water Treatment System OUTFALL-001 are collected and tested twice per month; the results are submitted to CDPHE.

Technical Revision 10 (TR10) terms require The Operator to submit to DRMS Quarterly Water Monitoring Reports not later than 30 days from the end of the quarter.

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 for 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 - Figure 6),
1.2. Monthly Potentiometric Surface (water table) maps constructed from water table measurements taken during the sampling events. Figures 21, 22 and 23 depict surfaces for the months of January, February, and March 2024, 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).

On December 22, 2023, GIR requested a one-year extension for the filing of Designated Mining Operation (DMO) application. A Formal Public Hearing before the Board was scheduled for the Board meeting of January 17-18, 2024.

On January 17, 2024, the Board granted GIR's request extending the DMO application filing by 365 days.

On April 15, 2024, the Board issued to the Operator written confirmation of the Findings of Fact, Conclusion of Law, and Order and Bord Order document signed by the Board on April 11, 2024.

On January 31, 2024, GIR submitted to DRMS a request to Modify Water Sample Collection Frequency and Locations, Identified as Technical Revision 14 (TR-14), as follows:

Adjustment to Sampling Frequency

The Operator requests that the current sample collection is adjusted from Monthly Sampling to Once per Quarter Sampling.

Adjustment to Sampling Points

The Operator requests that the current 7 sample collection points (3 groundwater wells [Cross, Caribou and Compliance], 2 mine effluent points [Cross and Caribou Portals] and 2 surface water stations [one upstream and one downstream of the mine site], are adjusted to a single sample point for the site located at the Compliance Well.

On February 5, 2024, DRMS issued to GIR a partial approval of TR-14 addressing the request to change the sampling frequency at the site from monthly to quarterly. DRMS did not approve the request to reduce the number of sampling locations from seven (7) locations to one (1) location.

As a result of TR-14 partial approval, the sample collected by GIR on January 17, 2024, serves as the sample for the First Quarter 2024 subject of this report. The results for groundwater are provided on Table 2.1.1.

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 Table 2.1.1 corresponding to the month of January 2024. The results are presented as required and 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. Water Quality Analytical Results from the Laboratories are provided in the appendices of this report.

Table 2.1.1 Groundwater Quality Test Results – Sample Date January 17, 2024

Parameter	Standard	Cross Well	Caribou Well	Compliance Well	Compliance Well Duplicate	Compliance Well Field Blank	Unit	Comments
Aluminum (Al)	**5**	ND	ND	ND	ND	0.022	mg/l	Dissolved
Antimony (Sb)	**0.006**	ND	0.00058	ND	ND	ND	mg/l	Dissolved
Arsenic (As)	**0.01**	ND	0.00054	ND	ND	ND	mg/l	Dissolved
Barium (Ba)	**2**	0.031	0.06	0.044	0.042	0.0009	mg/l	Dissolved
Beryllium (Be)	**0.004**	ND	ND	ND	ND	ND	mg/l	Dissolved
Beta and Photon Emitters	**4**	2.15	0.396	2.14	0.945	0.522	pCi/l	Std is in mrem/year; Lab reports pCi/l
Boron (B)	**0.75**	0.0042	0.0051	0.0034	0.003	ND	mg/l	Dissolved
Cadmium (Cd)	**0.005**	ND	ND	ND	ND	ND	mg/l	Dissolved
Chloride (Cl)	**250**	3.4	ND	3.5	3.6	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**	0.0082	ND	ND	ND	ND	mg/l	Dissolved
Cyanide [Free] (Cn)	**0.2**	ND	0.019	ND	ND	ND	mg/l	Total
Fluoride (F)	**2**	ND	ND	ND	ND	0.63	mg/l	Dissolved
Gross Alpha Particle Activity	**15**	1.26	0.726	-0.0458	0.267	-0.279	pCi/l	
Iron (Fe)	**0.3**	ND	0.014	0.021	0.0092	ND	mg/l	Dissolved
Lead (Pb)	**0.05**	0.00043	0.00023	ND	ND	ND	mg/l	Dissolved
Lithium (Li)	**2.5**	ND	0.013	ND	ND	ND	mg/l	Dissolved
Manganese (Mn)	**0.05**	0.00061	0.0026	0.0067	0.0062	ND	mg/l	Dissolved
Mercury (inorganic) (Hg)	**0.002**	ND	ND	ND	ND	ND	mg/l	Dissolved
Molybdenum (Mo)	**0.21**	0.00071	0.007	0.0044	0.0046	ND	mg/l	Dissolved
Nickel (Ni)	**0.1**	ND	ND	ND	ND	ND	mg/l	Dissolved
Nitrate (NO3)	**10**	0.26	0.16	0.34	0.34	ND	mg/l as N	Dissolved
Nitrite(NO2)	**10**	ND	ND	ND	ND	ND	mg/l as N	Dissolved
Nitrate-Nitrite Total	**1**	0.26	0.11	0.35	0.37	ND	mg/l as N	Dissolved
pH (field)	**6.5 - 8.5**	7.5	6.8	7.1	7.1	n/a	pH units	
Selenium (Se)	**0.02**	ND	ND	ND	ND	ND	mg/l	Dissolved
Silver (Ag)	**0.05**	0.000092	ND	ND	ND	ND	mg/l	Dissolved
Sulfate (SO4)	**250**	8.6	2.4	9.3	9.4	ND	mg/l	Dissolved
TDS	**400**	89	27	84	87	ND	mg/l	Total
Thallium (Tl)	**0.002**	ND	ND	ND	ND	ND	mg/l	Dissolved
Uranium (U)	**0.0168 -0.03**	0.000072	0.0058	0.00014	0.00015	ND	mg/l	Dissolved
Vanadium (V)	**0.1**	ND	ND	ND	ND	ND	mg/l	Dissolved
Zinc (Zn)	**2**	0.77	0.0064	0.081	0.08	ND	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 date and groundwater elevations taken at the time of water sample collection for the month of January 2024 and monthly thereafter, for February and March, respectively. The groundwater elevations shown on the tables were used to develop the potentiometric water surfaces depicted on Figures 20, 21, and 23 for the month of January, February, and March 2024, respectively.

Table 2.2.1 Wells and Winze Groundwater Elevation – January 17, 2024

Groundwater Elevation - January		
WELL	**COLLAR ELEV.**	**1/17/2024**
	Ft. AMSL	
Caribou	9,744.25	9,708.71
Cabin (Compliance)	9,677.35	9,635.08
Cross	9,692.85	9,651.04
Winze	9,697.48	9,546.60

Table 2.2.2 Wells and Winze Groundwater Elevation – February 17, 2024

Groundwater Elevation - February		
WELL	**COLLAR ELEV.**	**2/17/2024**
	Ft. AMSL	
Caribou	9,744.25	9,710.03
Cabin (Compliance)	9,677.35	9,635.33
Cross	9,692.85	9,653.57
Winze	9,697.48	9,557.90

Table 2.2.3 Wells and Winze Groundwater Elevation – March 17, 2024

Groundwater Elevation - March		
WELL	**COLLAR ELEV.**	**3/17/2024**
	Ft. AMSL	
Caribou	9,744.25	9,710.17
Cabin (Compliance)	9,677.35	9,636.03
Cross	9,692.85	9,656.08
Winze	9,697.48	9,560.90

Figure 21 Potentiometric Water Surface – January 2024

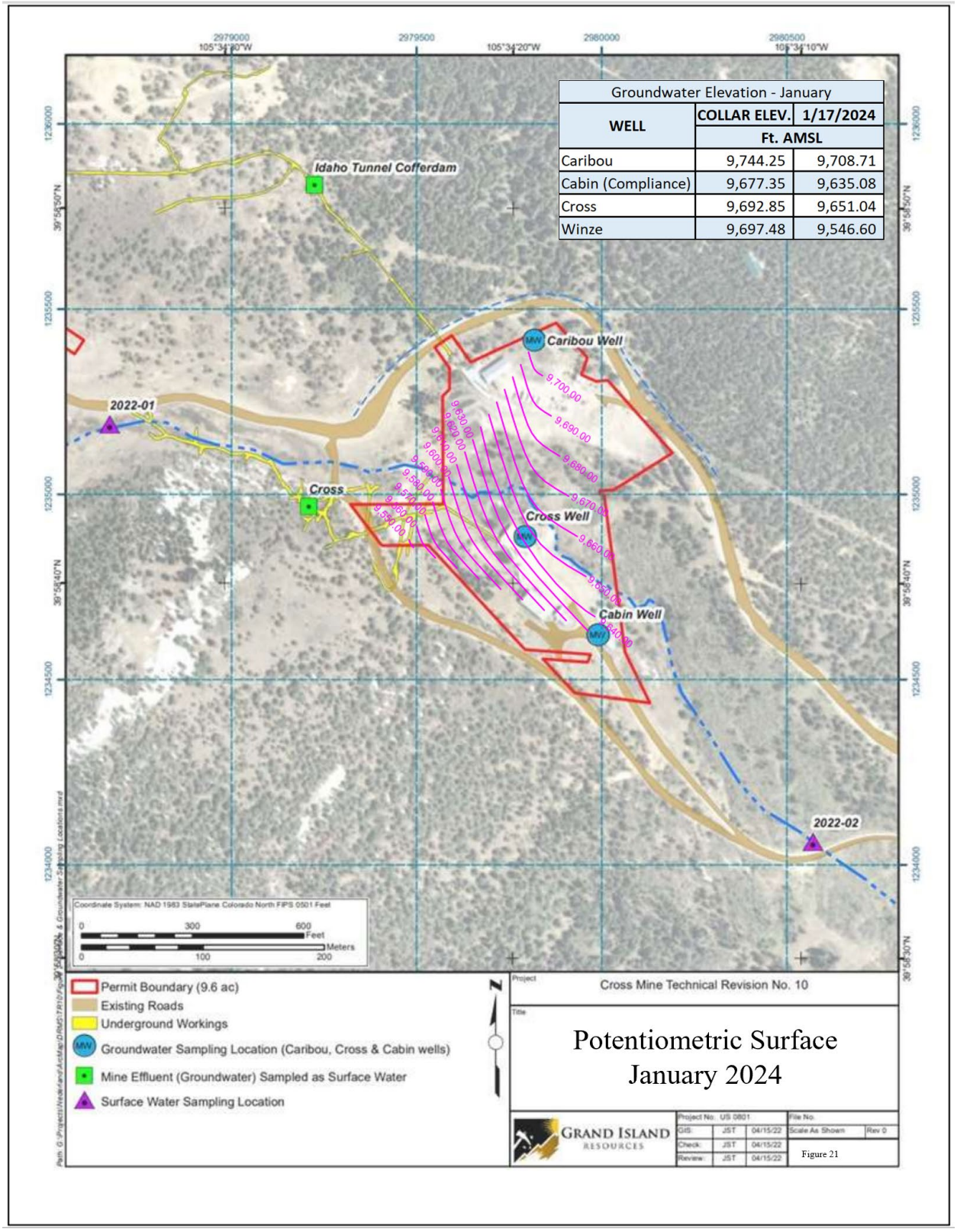


Figure 21 Potentiometric Water Surface – February 2024

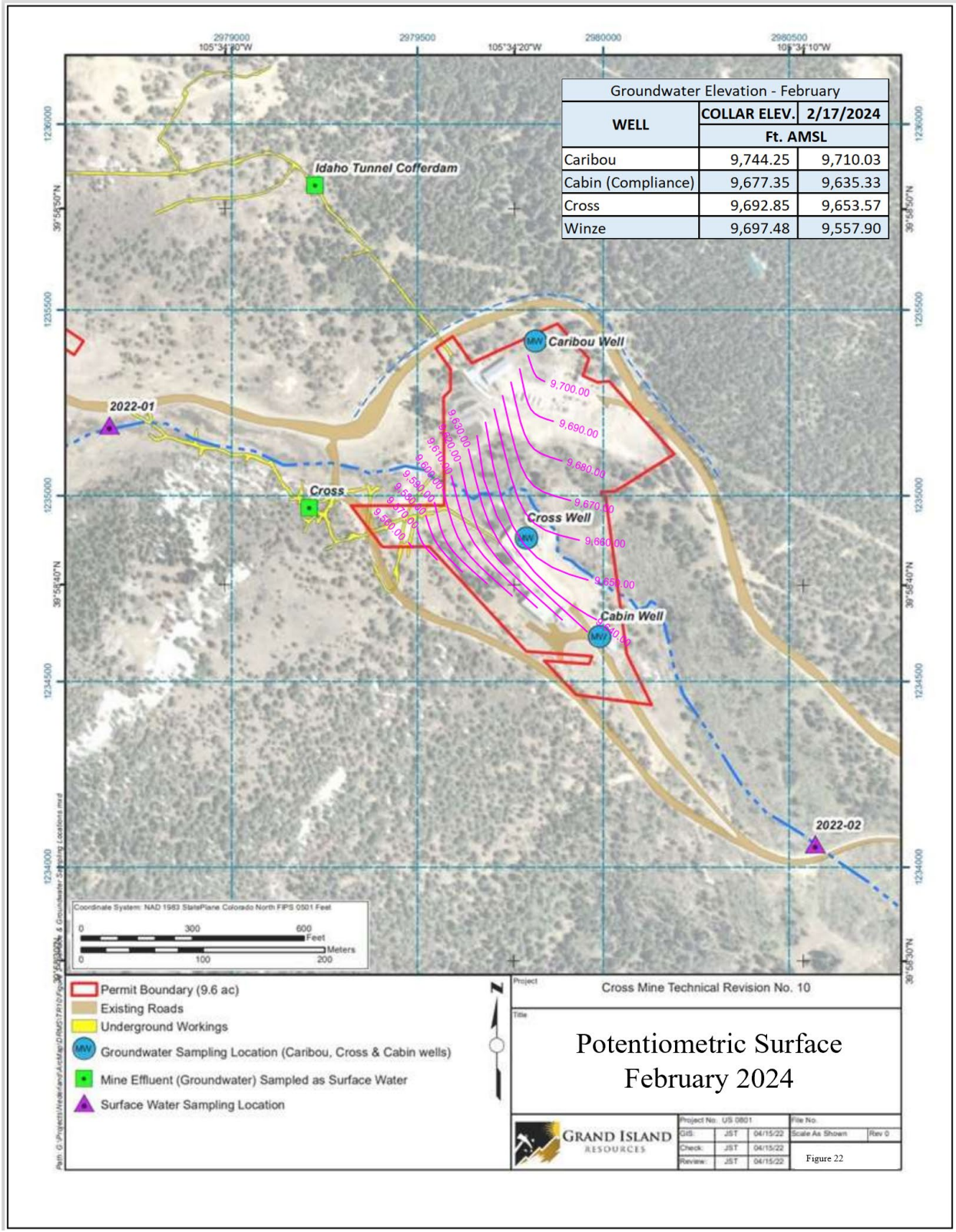
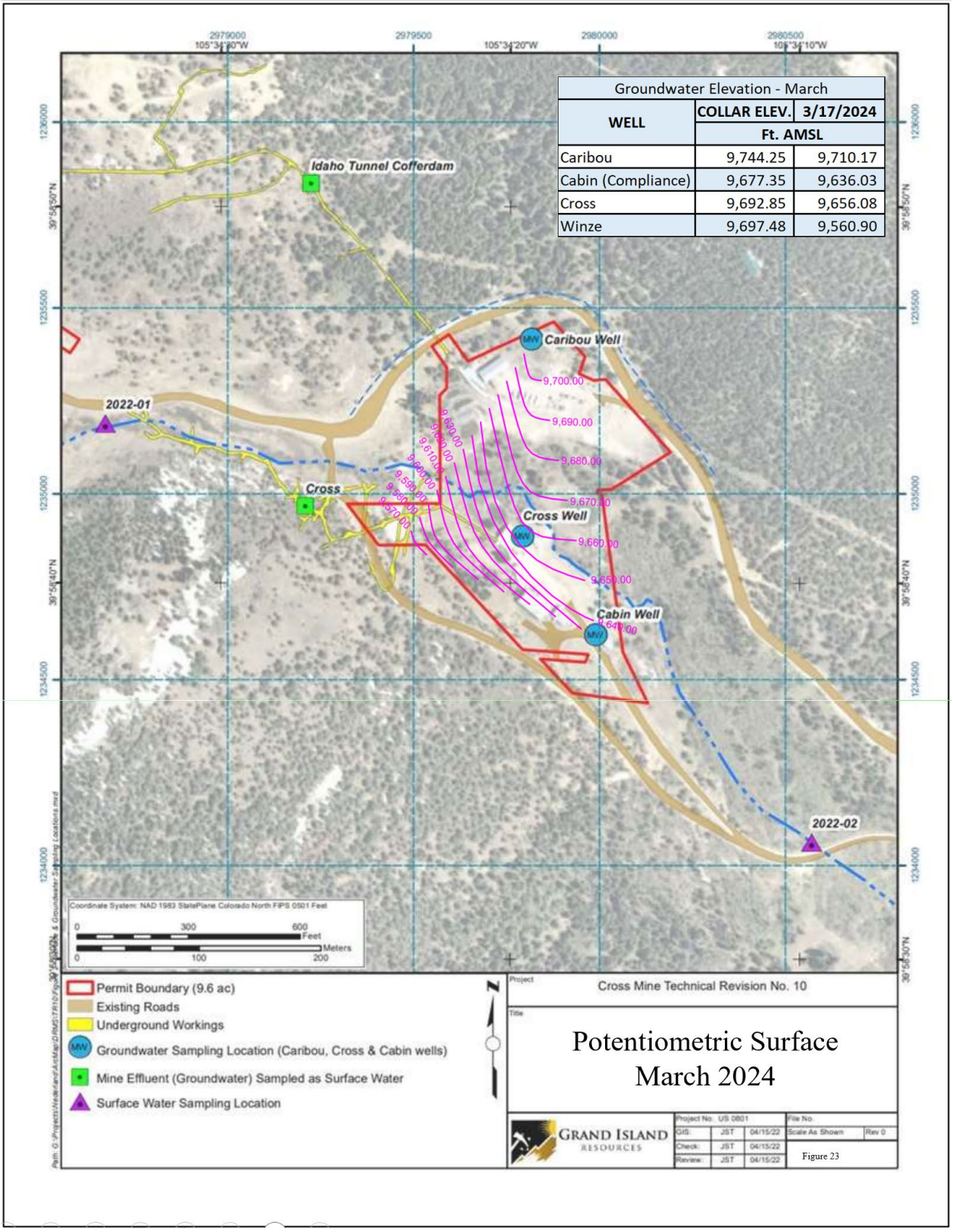


Figure 23 Potentiometric Water Surface – March 2024



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 in the Idaho Tunnel/Caribou Mine, namely Cross Portal and Caribou Portal, respectively. Water Quality Analytical Results are summarized on Table 3.1. for the month of January 2024. 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 (see section 6 for DMR Copy of Record).

Table 3.1 Effluent Quality Test Results – Sample Date January 17, 2024

Parameter	Standard	Cross Portal	Cross Portal Duplicate	Caribou Portal	Unit	Comments
Aluminum (Al)	**5**	ND	ND	ND	mg/l	Dissolved
Antimony (Sb)	**0.006**	0.00044	0.00056	0.0021	mg/l	Dissolved
Arsenic (As)	**0.01**	ND	ND	ND	mg/l	Dissolved
Barium (Ba)	**2**	0.073	0.074	0.05	mg/l	Dissolved
Beryllium (Be)	**0.004**	ND	ND	ND	mg/l	Dissolved
Beta and Photon Emitters	**4**	1.33	0.865	1.03	pCi/l	Std is in mrem/year; Lab reports pCi/l
Boron (B)	**0.75**	0.0036	0.0039	0.0038	mg/l	Dissolved
Cadmium (Cd)	**0.005**	0.0012	0.0011	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**	0.002	0.0018	0.043	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**	1.75	1.3	5.26	pCi/l	
Iron (Fe)	**0.3**	0.012	0.018	0.023	mg/l	Dissolved
Lead (Pb)	**0.05**	0.00068	0.00065	0.00062	mg/l	Dissolved
Lithium (Li)	**2.5**	ND	ND	ND	mg/l	Dissolved
Manganese (Mn)	**0.05**	0.007	0.0074	0.001	mg/l	Dissolved
Mercury (inorganic) (Hg)	**0.002**	ND	ND	ND	mg/l	Dissolved
Molybdenum (Mo)	**0.21**	0.0072	0.0076	0.0058	mg/l	Dissolved
Nickel (Ni)	**0.1**	ND	ND	ND	mg/l	Dissolved
Nitrate (NO3)	**10**	0.12	0.12	0.18	mg/l as N	Dissolved
Nitrite(NO2)	**10**	ND	ND	ND	mg/l as N	Dissolved
Nitrate-Nitrite Total	**1**	ND	0.044	0.13	mg/l as N	Dissolved
pH (field)	**6.5 - 8.5**	7.8	7.8	6.5	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	9.9	9.3	mg/l	Dissolved
TDS	**400**	110	110	120	mg/l	Total
Thallium (Tl)	**0.002**	ND	ND	ND	mg/l	Dissolved
Uranium (U)	**0.0168 -0.03**	0.00097	0.0009	0.0053	mg/l	Dissolved
Vanadium (V)	**0.1**	ND	ND	ND	mg/l	Dissolved
Zinc (Zn)	**2**	0.22	0.21	0.0051	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 surface water samples were collected during the 1st Quarter of 2024 for either surface water Station 2022-01 or Station 2022-01 because no surface flows were observed at the time of the sampling event.

4.2. Surface Water Flows

No surface water flow measurements were taken during the 1st Quarter of 2024 for either surface water Station 2022-01or Station 2022-01 because no surface flows were observed at the time of the sampling event.

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 1st 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

Trip Blank Samples were collected at the Cabin Well (Compliance) and Field Duplicate samples were collected from the Cabin Well (Compliance) during the January sampling event. Duplicate and Matrix Spike tests were performed for select parameters which are incorporated in the QC section of the Laboratory Report. No Rinsate samples were collected because water samples were collected from permanently installed equipment at each well.

5.2. Mine Effluent

Field Duplicate samples were collected from the Cross Portal during the January sampling event. Duplicate tests were performed for select parameters which are incorporated in the QC section of the Laboratory Report. No Rinsate samples were collected because disposable samplers were used.

5.3. Surface Water

No Field Duplicates were collected during the 1st Quarter of 2024 for either surface water Station 2022-01 or Station 2022-01 because no surface flows were observed at the time of the sampling events.

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6. NPDES permit CO-0032751 Outfall 001

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

Tables 6.1, 6.2 and 6.3 present the DMR Copies of Record filed by the Operator with CDPHE for the month of December 2023, January 2024 and February 2023, respectively. Please note that the DMR Copy of Record for the month of March is not available at this time; however, appendix B provides Laboratory test results for the March 2024, the DMR Copies of Record for March 2024 will be included in the Second Quarter 2024 Report.

Table 6.1 DMR December 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-A** Treated Mine Water to Coon Track Creek		
Report Dates & Status					
Monitoring Period:	**From 12/01/23 to 12/31/23**	**DMR Due Date:**	**01/28/24**	**Status:**	**NetDMR Validated**
Considerations for Form Completion					
Oil and grease - see I.A.2, pg 3. 30 day average is the highest monthly average during period reported.					
Principal Executive Officer					
First Name:		**Title:**		**Telephone:**	
Last Name:					
No Data Indicator (NODI)					
Form NODI:	--				

Parameter		Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration						# of Ex.	Frequency of Analysis	Sample Type
Code	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units			
00010	**Temperature, water deg. centigrade**	1 - Effluent Gross	0	--	Sample								=	3.27	=	6.8	04 - deg C		99/99 - Continuous	RC - Recorder (auto)
					Permit Req.									Req Mon MX WK AV		Req Mon DAILY MX	04 - deg C	0	99/99 - Continuous	RC - Recorder (auto)
					Value NODI															
00400	**pH**	1 - Effluent Gross	0	--	Sample						=	7.4			=	7.7	12 - SU		02/30 - Twice Per Month	GR - GRAB
					Permit Req.						>=	6.5 MINIMUM			<=	9.0 MAXIMUM	12 - SU	0	02/30 - Twice Per Month	GR - GRAB
					Value NODI															
00530	**Solids, total suspended**	1 - Effluent Gross	0	--	Sample								<	4.0	<	4.0	19 - mg/L		01/30 - Monthly	GR - GRAB
					Permit Req.								<=	30.0 30DA AVG	<=	45.0 DAILY MX	19 - mg/L	0	01/30 - Monthly	GR - GRAB
					Value NODI															
00978	**Arsenic, total recoverable**	1 - Effluent Gross	0	--	Sample								<	5.0			28 - ug/L		01/30 - Monthly	GR - GRAB
					Permit Req.									Req Mon 30DA AVG			28 - ug/L	0	01/30 - Monthly	GR - GRAB
					Value NODI															
00980	**Iron, total recoverable**	1 - Effluent Gross	0	--	Sample								<	100.0			28 - ug/L		01/30 - Monthly	GR - GRAB
					Permit Req.									Req Mon 30DA AVG			28 - ug/L	0	01/30 - Monthly	GR - GRAB
					Value NODI															
01094	**Zinc, total recoverable**	1 - Effluent Gross	0	--	Sample								=	24.0	=	24.0	28 - ug/L		01/30 - Monthly	GR - GRAB
					Permit Req.								<=	750.0 30DA AVG	<=	1500.0 DAILY MX	28 - ug/L	0	01/30 - Monthly	GR - GRAB
					Value NODI															
01113	**Cadmium, total recoverable**	1 - Effluent Gross	0	--	Sample								<	1.0	<	1.0	28 - ug/L		01/30 - Monthly	GR - GRAB
					Permit Req.								<=	50.0 30DA AVG	<=	300.0 DAILY MX	28 - ug/L	0	01/30 - Monthly	GR - GRAB
					Value NODI															
01114	**Lead, total recoverable**	1 - Effluent Gross	0	--	Sample								<	1.0	<	1.0	28 - ug/L		02/30 - Twice Per Month	GR - GRAB
					Permit Req.								<=	300.0 30DA AVG	<=	600.0 DAILY MX	28 - ug/L	0	02/30 - Twice Per Month	GR - GRAB
					Value NODI															
01119	**Copper, total recoverable**	1 - Effluent Gross	0	--	Sample								=	1.1	=	2.2	28 - ug/L		02/30 - Twice Per Month	GR - GRAB
					Permit Req.								<=	150.0 30DA AVG	<=	300.0 DAILY MX	28 - ug/L	0	02/30 - Twice Per Month	GR - GRAB
					Value NODI															
01220	**Chromium, hexavalent dissolved [as**	1 - Effluent	0	--	Sample								<	20.0	<	20.0	28 - ug/L		01/30 - Monthly	GR - GRAB
					Permit Req.									Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L	0	01/30 - Monthly	GR - GRAB

Table 6.1 DMR December 2023 (continued)

	Cr]	Gross			Value NODI														
01303	Zinc, potentially dissolved	1 - Effluent Gross	12	--	Sample							=	20.5	=	24.0	28 - ug/L		02/30 - Twice Per Month	GR - GRAB
					Permit Req.							<=	186.0 30DA AVG	<=	182.0 DAILY MX	28 - ug/L	0	02/30 - Twice Per Month	GR - GRAB
					Value NODI														
01304	Silver, potentially dissolved	1 - Effluent Gross	12	--	Sample									<	0.5	28 - ug/L		02/30 - Twice Per Month	GR - GRAB
					Permit Req.							<=	0.12 30DA AVG	<=	2.8 DAILY MX	28 - ug/L	0	02/30 - Twice Per Month	GR - GRAB
					Value NODI								B - Below Detection Limit/No Detection						
01306	Copper, potentially dissolved	1 - Effluent Gross	12	--	Sample							<	2.0	<	2.0	28 - ug/L		02/30 - Twice Per Month	GR - GRAB
					Permit Req.							<=	13.0 30DA AVG	<=	18.0 DAILY MX	28 - ug/L	0	02/30 - Twice Per Month	GR - GRAB
					Value NODI														
01309	Arsenic, potentially dissolved	1 - Effluent Gross	0	--	Sample									<	5.0	28 - ug/L		01/30 - Monthly	GR - GRAB
					Permit Req.										Req Mon DAILY MX	28 - ug/L	0	01/30 - Monthly	GR - GRAB
					Value NODI														
01313	Cadmium, potentially dissolvd	1 - Effluent Gross	12	--	Sample									<	1.0	28 - ug/L		02/30 - Twice Per Month	GR - GRAB
					Permit Req.							<=	0.63 30DA AVG	<=	2.2 DAILY MX	28 - ug/L	0	02/30 - Twice Per Month	GR - GRAB
					Value NODI								B - Below Detection Limit/No Detection						
01314	Chromium, trivalent, potentially dissolvd	1 - Effluent Gross	0	--	Sample							<	20.0			28 - ug/L		01/30 - Monthly	GR - GRAB
					Permit Req.								Req Mon 30DA AVG			28 - ug/L	0	01/30 - Monthly	GR - GRAB
					Value NODI														
01318	Lead, potentially dissolvd	1 - Effluent Gross	12	--	Sample							<	1.0	<	1.0	28 - ug/L		02/30 - Twice Per Month	GR - GRAB
					Permit Req.							<=	3.8 30DA AVG	<=	85.0 DAILY MX	28 - ug/L	0	02/30 - Twice Per Month	GR - GRAB
					Value NODI														
01319	Manganese, potentially dissolvd	1 - Effluent Gross	0	--	Sample							<	3.0	<	3.0	28 - ug/L		01/30 - Monthly	GR - GRAB
					Permit Req.								Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L	0	01/30 - Monthly	GR - GRAB
					Value NODI														
01322	Nickel, potentially dissolvd	1 - Effluent Gross	0	--	Sample							<	3.0	<	3.0	28 - ug/L		01/30 - Monthly	GR - GRAB
					Permit Req.								Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L	0	01/30 - Monthly	GR - GRAB
					Value NODI														
01323	Selenium, potentially dissolvd	1 - Effluent Gross	0	--	Sample							<	5.0	<	5.0	28 - ug/L		01/30 - Monthly	GR - GRAB
					Permit Req.								Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L	0	01/30 - Monthly	GR - GRAB
					Value NODI														
03582	Oil and grease	1 - Effluent Gross	0	--	Sample														
					Permit Req.									<=	10.0 INST MAX	19 - mg/L		77/77 - Contingent	GR - GRAB
					Value NODI										9 - Conditional Monitoring - Not Required This Period				
04262	Chromium, trivalent total recoverable	1 - Effluent Gross	0	--	Sample									<	20.0	28 - ug/L		01/30 - Monthly	GR - GRAB
					Permit Req.										Req Mon DAILY MX	28 - ug/L	0	01/30 - Monthly	GR - GRAB
					Value NODI														
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	12	--	Sample							=	0.08256	=	0.12312	03 - MGD		99/99 - Continuous	RC - Recorder (auto)
					Permit Req.							<=	0.103 30DA AVG		Req Mon DAILY MX	03 - MGD	0	99/99 - Continuous	RC - Recorder (auto)
					Value NODI														
51202	Sulfide-hydrogen sulfide [undissociated]	1 - Effluent Gross	0	--	Sample							<	1.0			19 - mg/L		01/30 - Monthly	GR - GRAB
					Permit Req.								Req Mon 30DA AVG			19 - mg/L	0	01/30 - Monthly	GR - GRAB
					Value NODI														

Table 6.1 DMR December 2023 (continued)

71900	**Mercury, total [as Hg]**	1 - Effluent Gross	0	--	Sample							<	0.2	<	0.2	28 - ug/L		01/30 - Monthly	GR - GRAB
					Permit Req.							<=	1.0 30DA AVG	<=	2.0 DAILY MX	28 - ug/L	0	01/30 - Monthly	GR - GRAB
					Value NODI														
84066	**Oil and grease visual**	1 - Effluent Gross	0	--	Sample		=	0.0	AB - abst=0;prst=1									02/30 - Twice Per Month	VI - VISUAL
					Permit Req.			Req Mon INST MAX	AB - abst=0;prst=1								0	02/30 - Twice Per Month	VI - VISUAL
					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_12_CrossCaribouMine_Results_1.pdf	pdf	1061858.0
2023_12_CrossCaribouMine_Results_2.pdf	pdf	999188.0
2023_12_CrossCaribouMine_CoverLetter.pdf	pdf	192069.0

Report Last Saved By

Grand Island Resources LLC

User:	pdelaney@alexcoresource.com
Name:	Patrick Delaney
E-Mail:	pdelaney@blackfoxmining.com
Date/Time:	2024-01-27 16:17 (Time Zone: -07:00)

Report Last Signed By

User:	pdelaney@alexcoresource.com
Name:	Patrick Delaney
E-Mail:	pdelaney@blackfoxmining.com
Date/Time:	2024-01-27 16:17 (Time Zone: -07:00)

Table 6.2 DMR January 2024

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-A** Treated Mine Water to Coon Track Creek		

Report Dates & Status

Monitoring Period:	**From 01/01/24 to 01/31/24**	**DMR Due Date:**	**02/28/24**	**Status:**	**NetDMR Validated**

Considerations for Form Completion

Oil and grease - see I.A.2, pg 3. 30 day average is the highest monthly average during period reported.

Principal Executive Officer

First Name:		**Title:**		**Telephone:**	
Last Name:					

No Data Indicator (NODI)

Form NODI: --

Parameter 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
00010	Temperature, water deg. centigrade	1 - Effluent Gross	0	--	Sample								=	3.2	=	5.9	04 - deg C		99/99 - Continuous	RC - Recorder (auto)
					Permit Req.									Req Mon MX WK AV		Req Mon DAILY MX	04 - deg C	0	99/99 - Continuous	RC - Recorder (auto)
					Value NODI															
00400	pH	1 - Effluent Gross	0	--	Sample						=	7.4			=	7.8	12 - SU		02/30 - Twice Per Month	GR - GRAB
					Permit Req.						>=	6.5 MINIMUM			<=	9.0 MAXIMUM	12 - SU	0	02/30 - Twice Per Month	GR - GRAB
					Value NODI															
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample								<	4.0	<	4.0	19 - mg/L		01/30 - Monthly	GR - GRAB
					Permit Req.								<=	30.0 30DA AVG	<=	45.0 DAILY MX	19 - mg/L	0	01/30 - Monthly	GR - GRAB
					Value NODI															
00978	Arsenic, total recoverable	1 - Effluent Gross	0	--	Sample								<	5.0			28 - ug/L		01/30 - Monthly	GR - GRAB
					Permit Req.									Req Mon 30DA AVG			28 - ug/L	0	01/30 - Monthly	GR - GRAB
					Value NODI															
00980	Iron, total recoverable	1 - Effluent Gross	0	--	Sample								<	100.0			28 - ug/L		01/30 - Monthly	GR - GRAB
					Permit Req.									Req Mon 30DA AVG			28 - ug/L	0	01/30 - Monthly	GR - GRAB
					Value NODI															
01094	Zinc, total recoverable	1 - Effluent Gross	0	--	Sample								=	16.0	=	16.0	28 - ug/L		01/30 - Monthly	GR - GRAB
					Permit Req.								<=	750.0 30DA AVG	<=	1500.0 DAILY MX	28 - ug/L	0	01/30 - Monthly	GR - GRAB
					Value NODI															
01113	Cadmium, total recoverable	1 - Effluent Gross	0	--	Sample								<	1.0	<	1.0	28 - ug/L		01/30 - Monthly	GR - GRAB
					Permit Req.								<=	50.0 30DA AVG	<=	300.0 DAILY MX	28 - ug/L	0	01/30 - Monthly	GR - GRAB
					Value NODI															
01114	Lead, total recoverable	1 - Effluent Gross	0	--	Sample								<	1.0	<	1.0	28 - ug/L		02/30 - Twice Per Month	GR - GRAB
					Permit Req.								<=	300.0 30DA AVG	<=	600.0 DAILY MX	28 - ug/L	0	02/30 - Twice Per Month	GR - GRAB
					Value NODI															
01119	Copper, total recoverable	1 - Effluent Gross	0	--	Sample								<	2.0	<	2.0	28 - ug/L		02/30 - Twice Per Month	GR - GRAB
					Permit Req.								<=	150.0 30DA AVG	<=	300.0 DAILY MX	28 - ug/L	0	02/30 - Twice Per Month	GR - GRAB
					Value NODI															
01220	Chromium, hexavalent dissolved [as	1 - Effluent	0	--	Sample								<	20.0	<	20.0	28 - ug/L		01/30 - Monthly	GR - GRAB
					Permit Req.									Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L	0	01/30 - Monthly	GR - GRAB

Table 6.2 DMR January 2024 (continued)

	Cr]	Gross			Value NODI														
01303	Zinc, potentially dissolved	1 - Effluent Gross	1	--	Sample							=	28.0	=	31.0	28 - ug/L		02/30 - Twice Per Month	GR - GRAB
					Permit Req.							<=	186.0 30DA AVG	<=	184.0 DAILY MX	28 - ug/L	0	02/30 - Twice Per Month	GR - GRAB
					Value NODI														
01304	Silver, potentially dissolved	1 - Effluent Gross	1	--	Sample									<	0.5	28 - ug/L		02/30 - Twice Per Month	GR - GRAB
					Permit Req.							<=	0.12 30DA AVG	<=	2.9 DAILY MX	28 - ug/L	0	02/30 - Twice Per Month	GR - GRAB
					Value NODI								B - Below Detection Limit/No Detection						
01306	Copper, potentially dissolved	1 - Effluent Gross	1	--	Sample							=	1.05	=	2.1	28 - ug/L		02/30 - Twice Per Month	GR - GRAB
					Permit Req.							<=	13.0 30DA AVG	<=	18.0 DAILY MX	28 - ug/L	0	02/30 - Twice Per Month	GR - GRAB
					Value NODI														
01309	Arsenic, potentially dissolved	1 - Effluent Gross	0	--	Sample									<	5.0	28 - ug/L		01/30 - Monthly	GR - GRAB
					Permit Req.										Req Mon DAILY MX	28 - ug/L	0	01/30 - Monthly	GR - GRAB
					Value NODI														
01313	Cadmium, potentially dissolvd	1 - Effluent Gross	1	--	Sample									<	1.0	28 - ug/L		02/30 - Twice Per Month	GR - GRAB
					Permit Req.							<=	0.63 30DA AVG	<=	2.3 DAILY MX	28 - ug/L	0	02/30 - Twice Per Month	GR - GRAB
					Value NODI								B - Below Detection Limit/No Detection						
01314	Chromium, trivalent, potentially dissolvd	1 - Effluent Gross	0	--	Sample							<	20.0			28 - ug/L		01/30 - Monthly	GR - GRAB
					Permit Req.								Req Mon 30DA AVG			28 - ug/L	0	01/30 - Monthly	GR - GRAB
					Value NODI														
01318	Lead, potentially dissolvd	1 - Effluent Gross	1	--	Sample							<	1.0	<	1.0	28 - ug/L		02/30 - Twice Per Month	GR - GRAB
					Permit Req.							<=	3.8 30DA AVG	<=	85.0 DAILY MX	28 - ug/L	0	02/30 - Twice Per Month	GR - GRAB
					Value NODI														
01319	Manganese, potentially dissolvd	1 - Effluent Gross	0	--	Sample							<	3.0	<	3.0	28 - ug/L		01/30 - Monthly	GR - GRAB
					Permit Req.								Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L	0	01/30 - Monthly	GR - GRAB
					Value NODI														
01322	Nickel, potentially dissolvd	1 - Effluent Gross	0	--	Sample							<	3.0	<	3.0	28 - ug/L		01/30 - Monthly	GR - GRAB
					Permit Req.								Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L	0	01/30 - Monthly	GR - GRAB
					Value NODI														
01323	Selenium, potentially dissolvd	1 - Effluent Gross	0	--	Sample							<	5.0	<	5.0	28 - ug/L		01/30 - Monthly	GR - GRAB
					Permit Req.								Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L	0	01/30 - Monthly	GR - GRAB
					Value NODI														
03582	Oil and grease	1 - Effluent Gross	0	--	Sample														
					Permit Req.									<=	10.0 INST MAX	19 - mg/L		77/77 - Contingent	GR - GRAB
					Value NODI										9 - Conditional Monitoring - Not Required This Period				
04262	Chromium, trivalent total recoverable	1 - Effluent Gross	0	--	Sample									<	20.0	28 - ug/L		01/30 - Monthly	GR - GRAB
					Permit Req.										Req Mon DAILY MX	28 - ug/L	0	01/30 - Monthly	GR - GRAB
					Value NODI														
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	1	--	Sample							=	0.05759	=	0.122688	03 - MGD		99/99 - Continuous	RC - Recorder (auto)
					Permit Req.							<=	0.103 30DA AVG		Req Mon DAILY MX	03 - MGD	0	99/99 - Continuous	RC - Recorder (auto)
					Value NODI														
51202	Sulfide-hydrogen sulfide [undissociated]	1 - Effluent Gross	0	--	Sample							<	1.0			19 - mg/L		01/30 - Monthly	GR - GRAB
					Permit Req.								Req Mon 30DA AVG			19 - mg/L	0	01/30 - Monthly	GR - GRAB
					Value NODI														

Table 6.2 DMR January 2024 (continued)

71900	**Mercury, total [as Hg]**	1 - Effluent Gross	0	--	Sample							<	0.2	<	0.2	28 - ug/L		01/30 - Monthly	GR - GRAB
					Permit Req.							<=	1.0 30DA AVG	<=	2.0 DAILY MX	28 - ug/L	0	01/30 - Monthly	GR - GRAB
					Value NODI														
84066	**Oil and grease visual**	1 - Effluent Gross	0	--	Sample		=	0.0	AB - abst=0;prst=1								0	02/30 - Twice Per Month	VI - VISUAL
					Permit Req.			Req Mon INST MAX	AB - abst=0;prst=1								0	02/30 - Twice Per Month	VI - VISUAL
					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
2024_01_CrossCaribouMine_Results_1.pdf	pdf	1341017.0
2024_01_CrossCaribouMine_Results_2.pdf	pdf	1020305.0
2024_01_CrossCaribouMine_CoverLetter.pdf	pdf	192306.0

Report Last Saved By

Grand Island Resources LLC

User:	pdelaney@alexcoresource.com
Name:	Patrick Delaney
E-Mail:	pdelaney@blackfoxmining.com
Date/Time:	2024-02-23 11:15 (Time Zone: -07:00)

Report Last Signed By

User:	pdelaney@alexcoresource.com
Name:	Patrick Delaney
E-Mail:	pdelaney@blackfoxmining.com
Date/Time:	2024-02-28 08:55 (Time Zone: -07:00)

Table 6.3 DMR February 2024

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-A** Treated Mine Water to Coon Track Creek		

Report Dates & Status

Monitoring Period:	**From 02/01/24 to 02/29/24**	**DMR Due Date:**	**03/28/24**	**Status:**	**NetDMR Validated**

Considerations for Form Completion

Oil and grease - see I.A.2, pg 3. 30 day average is the highest monthly average during period reported.

Principal Executive Officer

First Name:	**Title:**	**Telephone:**
Last Name:		

No Data Indicator (NODI)

Form NODI: --

Parameter		Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration							# of Ex.	Frequency of Analysis	Sample Type
Code	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units			
00010	**Temperature, water deg. centigrade**	1 - Effluent Gross	0	--	Sample								=	3.6	=	5.4	04 - deg C		99/99 - Continuous	RC - Recorder (auto)
					Permit Req.									Req Mon MX WK AV		Req Mon DAILY MX	04 - deg C	0	99/99 - Continuous	RC - Recorder (auto)
					Value NODI															
00400	**pH**	1 - Effluent Gross	0	--	Sample						=	7.5			=	7.8	12 - SU		02/30 - Twice Per Month	GR - GRAB
					Permit Req.						>=	6.5 MINIMUM			<=	9.0 MAXIMUM	12 - SU	0	02/30 - Twice Per Month	GR - GRAB
					Value NODI															
00530	**Solids, total suspended**	1 - Effluent Gross	0	--	Sample								<	4.0	<	4.0	19 - mg/L		01/30 - Monthly	GR - GRAB
					Permit Req.								<=	30.0 30DA AVG	<=	45.0 DAILY MX	19 - mg/L	0	01/30 - Monthly	GR - GRAB
					Value NODI															
00978	**Arsenic, total recoverable**	1 - Effluent Gross	0	--	Sample								<	5.0			28 - ug/L		01/30 - Monthly	GR - GRAB
					Permit Req.									Req Mon 30DA AVG			28 - ug/L	0	01/30 - Monthly	GR - GRAB
					Value NODI															
00980	**Iron, total recoverable**	1 - Effluent Gross	0	--	Sample								<	100.0			28 - ug/L		01/30 - Monthly	GR - GRAB
					Permit Req.									Req Mon 30DA AVG			28 - ug/L	0	01/30 - Monthly	GR - GRAB
					Value NODI															
01094	**Zinc, total recoverable**	1 - Effluent Gross	0	--	Sample								=	15.0	=	15.0	28 - ug/L		01/30 - Monthly	GR - GRAB
					Permit Req.								<=	750.0 30DA AVG	<=	1500.0 DAILY MX	28 - ug/L	0	01/30 - Monthly	GR - GRAB
					Value NODI															
01113	**Cadmium, total recoverable**	1 - Effluent Gross	0	--	Sample								<	1.0	<	1.0	28 - ug/L		01/30 - Monthly	GR - GRAB
					Permit Req.								<=	50.0 30DA AVG	<=	300.0 DAILY MX	28 - ug/L	0	01/30 - Monthly	GR - GRAB
					Value NODI															
01114	**Lead, total recoverable**	1 - Effluent Gross	0	--	Sample								<	1.0	<	1.0	28 - ug/L		02/30 - Twice Per Month	GR - GRAB
					Permit Req.								<=	300.0 30DA AVG	<=	600.0 DAILY MX	28 - ug/L	0	02/30 - Twice Per Month	GR - GRAB
					Value NODI															
01119	**Copper, total recoverable**	1 - Effluent Gross	0	--	Sample								<	2.0	<	2.0	28 - ug/L		02/30 - Twice Per Month	GR - GRAB
					Permit Req.								<=	150.0 30DA AVG	<=	300.0 DAILY MX	28 - ug/L	0	02/30 - Twice Per Month	GR - GRAB
					Value NODI															
01220	**Chromium, hexavalent dissolved [as**	1 - Effluent	0	--	Sample								<	20.0	<	20.0	28 - ug/L		01/30 - Monthly	GR - GRAB
					Permit Req.									Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L	0	01/30 - Monthly	GR - GRAB

Table 6.3 DMR February 2024 (continued)

	Cr]	Gross			Value NODI													
01303	**Zinc, potentially dissolved**	1 - Effluent Gross	2	--	Sample							=	22.0	=	24.0	28 - ug/L		02/30 - Twice Per Month	GR - GRAB
					Permit Req.							<=	186.0 30DA AVG	<=	203.0 DAILY MX	28 - ug/L	0	02/30 - Twice Per Month	GR - GRAB
					Value NODI														
01304	**Silver, potentially dissolved**	1 - Effluent Gross	2	--	Sample									<	0.5	28 - ug/L		02/30 - Twice Per Month	GR - GRAB
					Permit Req.							<=	0.12 30DA AVG	<=	3.2 DAILY MX	28 - ug/L	0	02/30 - Twice Per Month	GR - GRAB
					Value NODI								B - Below Detection Limit/No Detection						
01306	**Copper, potentially dissolved**	1 - Effluent Gross	2	--	Sample							=	1.75	=	3.5	28 - ug/L		02/30 - Twice Per Month	GR - GRAB
					Permit Req.							<=	13.0 30DA AVG	<=	20.0 DAILY MX	28 - ug/L	0	02/30 - Twice Per Month	GR - GRAB
					Value NODI														
01309	**Arsenic, potentially dissolved**	1 - Effluent Gross	0	--	Sample									<	5.0	28 - ug/L		01/30 - Monthly	GR - GRAB
					Permit Req.										Req Mon DAILY MX	28 - ug/L	0	01/30 - Monthly	GR - GRAB
					Value NODI														
01313	**Cadmium, potentially dissolvd**	1 - Effluent Gross	2	--	Sample									<	1.0	28 - ug/L		02/30 - Twice Per Month	GR - GRAB
					Permit Req.							<=	0.63 30DA AVG	<=	2.5 DAILY MX	28 - ug/L	0	02/30 - Twice Per Month	GR - GRAB
					Value NODI								B - Below Detection Limit/No Detection						
01314	**Chromium, trivalent, potentially dissolvd**	1 - Effluent Gross	0	--	Sample							<	20.0			28 - ug/L		01/30 - Monthly	GR - GRAB
					Permit Req.								Req Mon 30DA AVG			28 - ug/L	0	01/30 - Monthly	GR - GRAB
					Value NODI														
01318	**Lead, potentially dissolvd**	1 - Effluent Gross	2	--	Sample							<	1.0	<	1.0	28 - ug/L		02/30 - Twice Per Month	GR - GRAB
					Permit Req.							<=	3.8 30DA AVG	<=	94.0 DAILY MX	28 - ug/L	0	02/30 - Twice Per Month	GR - GRAB
					Value NODI														
01319	**Manganese, potentially dissolvd**	1 - Effluent Gross	0	--	Sample							<	3.0	<	3.0	28 - ug/L		01/30 - Monthly	GR - GRAB
					Permit Req.								Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L	0	01/30 - Monthly	GR - GRAB
					Value NODI														
01322	**Nickel, potentially dissolvd**	1 - Effluent Gross	0	--	Sample							<	3.0	<	3.0	28 - ug/L		01/30 - Monthly	GR - GRAB
					Permit Req.								Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L	0	01/30 - Monthly	GR - GRAB
					Value NODI														
01323	**Selenium, potentially dissolvd**	1 - Effluent Gross	0	--	Sample							<	5.0	<	5.0	28 - ug/L		01/30 - Monthly	GR - GRAB
					Permit Req.								Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L	0	01/30 - Monthly	GR - GRAB
					Value NODI														
03582	**Oil and grease**	1 - Effluent Gross	0	--	Sample														
					Permit Req.									<=	10.0 INST MAX	19 - mg/L		77/77 - Contingent	GR - GRAB
					Value NODI										9 - Conditional Monitoring - Not Required This Period				
04262	**Chromium, trivalent total recoverable**	1 - Effluent Gross	0	--	Sample									<	20.0	28 - ug/L		01/30 - Monthly	GR - GRAB
					Permit Req.										Req Mon DAILY MX	28 - ug/L	0	01/30 - Monthly	GR - GRAB
					Value NODI														
50050	**Flow, in conduit or thru treatment plant**	1 - Effluent Gross	2	--	Sample							=	0.053023	=	0.058752	03 - MGD		99/99 - Continuous	RC - Recorder (auto)
					Permit Req.							<=	0.103 30DA AVG		Req Mon DAILY MX	03 - MGD	0	99/99 - Continuous	RC - Recorder (auto)
					Value NODI														
51202	**Sulfide-hydrogen sulfide [undissociated]**	1 - Effluent Gross	0	--	Sample							<	1.0			19 - mg/L		01/30 - Monthly	GR - GRAB
					Permit Req.								Req Mon 30DA AVG			19 - mg/L	0	01/30 - Monthly	GR - GRAB
					Value NODI														

Table 6.3 DMR February 2024 (continued)

71900	**Mercury, total [as Hg]**	1 - Effluent Gross	0	--	Sample							<	0.2	<	0.2	28 - ug/L		01/30 - Monthly	GR - GRAB
					Permit Req.							<=	1.0 30DA AVG	<=	2.0 DAILY MX	28 - ug/L	0	01/30 - Monthly	GR - GRAB
					Value NODI														
84066	**Oil and grease visual**	1 - Effluent Gross	0	--	Sample		=	0.0	AB - abst=0;prst=1									02/30 - Twice Per Month	VI - VISUAL
					Permit Req.			Req Mon INST MAX	AB - abst=0;prst=1								0	02/30 - Twice Per Month	VI - VISUAL
					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

No attachments.

Report Last Saved By

Grand Island Resources LLC

User:	JOHNRINKO
Name:	John Rinko
E-Mail:	johnrinko@yahoo.com
Date/Time:	2024-03-28 16:37 (Time Zone: -06:00)

Report Last Signed By

User:	JOHNRINKO
Name:	John Rinko
E-Mail:	johnrinko@yahoo.com
Date/Time:	2024-03-28 16:38 (Time Zone: -06:00)

Appendices

APPENDICES

APPENDIX A GROUNDWATER AND EFFLUENT ANALYTICAL RESULTS

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Brooke Molson Moran
Grand Island Resources
12567 West Cedar Road
Suite 110
Lakewood, Colorado 80228

Generated 2/6/2024 5:09:55 PM

JOB DESCRIPTION

Nederland, CO - Groundwater

JOB NUMBER

280-186724-1

Eurofins Denver
4955 Yarrow Street
Arvada CO 80002

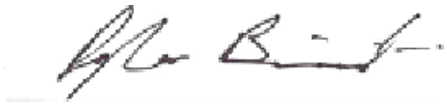
See page two for job notes and contact information.

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

Table of Contents

Definitions/Glossary

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

Job ID: 280-186724-1

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
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD 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.

Rad

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
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.
¤	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

Job Narrative
280-186724-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Radiochemistry data information:

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.

Eurofins Environment Testing attests to the validity of the laboratory data generated by Eurofins facilities reported herein. All analyses performed by Eurofins Environment Testing facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. Eurofins Environment Testing's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report.

Calculations are performed before rounding to avoid round-off errors in calculated results.

Proper preservation was noted for the methods performed on these samples, unless otherwise detailed below.

All soil/sediment sample results for radiochemistry analyses are based upon sample as dried and disaggregated with the exception of tritium, carbon-14, and iodine-129 by gamma spectroscopy or unless requested as wet weight by the client.

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.

The matrix for the Method Blank and LCS/LCSD is as close to the samples as can be reasonably achieved. Detailed information can be found in the most current revision of the associated SOP.

The method blank (MB) z-score is within limits, unless stated otherwise below, and is stored in the level IV raw data.

This laboratory report is confidential and is intended for the sole use of Eurofins Environment Testing and its client.

Receipt
The samples were received on 1/18/2024 1:00 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 2.3°C, 3.0°C and 3.6°C

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

Job ID: 280-186724-1 (Continued)

Method 200.7 Rev 4.4 - Metals (ICP)
Samples CARIBOU PORTAL (186724-8), CARIBOU WELL (186724-5), COMPLIANCE 02 (186724-3), COMPLIANCE 03 (186724-4), COMPLIANCE WELL (186724-2), CROSS PORTAL (186724-6), CROSS PORTAL 02 (186724-7) and CROSS WELL (186724-1) were analyzed for Metals (ICP). The samples were prepared on 1/19/2024 and 1/22/2024 and analyzed on 1/22/2024 and 1/23/2024.

The instrument blank for analytical batch 280-640912 contained 0.0598 mg/L Aluminum which is greater than one-half the reporting limit (RL) of 0.10 mg/L, and associated samples were not re-analyzed because samples < RL. The data have been qualified and reported.

Method 200.8 - Metals (ICP/MS)
Samples CARIBOU PORTAL (186724-8), CARIBOU WELL (186724-5), COMPLIANCE 02 (186724-3), COMPLIANCE 03 (186724-4), COMPLIANCE WELL (186724-2), CROSS PORTAL (186724-6), CROSS PORTAL 02 (186724-7) and CROSS WELL (186724-1) were analyzed for Metals (ICP/MS). The samples were prepared on 1/19/2024 and 1/22/2024 and analyzed on 1/20/2024 and 1/22/2024.

The instrument blank for analytical batch 280-640713 contained Manganese greater than one-half the reporting limit (RL), and associated samples were not re-analyzed because samples < RL. The data have been qualified and reported.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 280-640427 and analytical batch 280-640586 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 245.1 - Mercury (CVAA)
Samples CARIBOU PORTAL (186724-8), CARIBOU WELL (186724-5), COMPLIANCE 02 (186724-3), COMPLIANCE 03 (186724-4), COMPLIANCE WELL (186724-2), CROSS PORTAL (186724-6), CROSS PORTAL 02 (186724-7) and CROSS WELL (186724-1) were analyzed for Mercury (CVAA). The samples were prepared and analyzed on 1/23/2024.

Method SM 2540C - Solids, Total Dissolved (TDS)
Samples CARIBOU PORTAL (186724-8), CARIBOU WELL (186724-5), COMPLIANCE 02 (186724-3), COMPLIANCE 03 (186724-4), COMPLIANCE WELL (186724-2), CROSS PORTAL (186724-6), CROSS PORTAL 02 (186724-7) and CROSS WELL (186724-1) were analyzed for Solids, Total Dissolved (TDS). The samples were analyzed on 1/19/2024.

Method 300.0 - Anions, Ion Chromatography
Samples CARIBOU PORTAL (186724-8), CARIBOU WELL (186724-5), COMPLIANCE 02 (186724-3), COMPLIANCE 03 (186724-4), COMPLIANCE WELL (186724-2), CROSS PORTAL (186724-6), CROSS PORTAL 02 (186724-7) and CROSS WELL (186724-1) were analyzed for Anions, Ion Chromatography. The samples were analyzed on 1/18/2024 and 1/19/2024.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 280-640404 were outside control limits for Fluoride. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits. The associated samples are: (280-186706-A-1 MS) and (280-186706-A-1 MSD).

Method 300.0 - Anions, Ion Chromatography
Samples CARIBOU PORTAL (186724-8), CARIBOU WELL (186724-5), COMPLIANCE 02 (186724-3), COMPLIANCE 03 (186724-4), COMPLIANCE WELL (186724-2), CROSS PORTAL (186724-6), CROSS PORTAL 02 (186724-7) and CROSS WELL (186724-1) were analyzed for Anions, Ion Chromatography. The samples were analyzed on 1/18/2024 and 1/19/2024.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 280-640403 were outside control limits for Nitrite as N & Nitrate as N. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits. The associated samples are: (280-186706-A-1 MS) and (280-186706-A-1 MSD).

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 280-640403 were outside control limits for Nitrite as N & Nitrate as N. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.The associated samples are: (280-186715-C-10 MS) and (280-186715-C-10 MSD).

The matrix spike (MS) recovery for analytical batch 280-640403 was outside control limits for Nitrite as N. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits. The associated sample is: (280-186714-C-4 MS).

The matrix spike duplicate (MSD) recovery for analytical batch 280-640403 was outside control limits for Nitrate as N & Nitrite as N. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits. The associated matrix spike is also within acceptance limits for Nitrate as N. The associated sample is: (280-186714-C-4 MSD).

Method 353.2 - Nitrogen, Nitrate-Nitrite
Samples CARIBOU PORTAL (186724-8), CARIBOU WELL (186724-5), COMPLIANCE 02 (186724-3), COMPLIANCE 03 (186724-4), COMPLIANCE WELL (186724-2), CROSS PORTAL (186724-6), CROSS PORTAL 02 (186724-7) and CROSS WELL (186724-1) were analyzed for Nitrogen, Nitrate-Nitrite. The samples were analyzed on 1/23/2024.

Method SM 4500 CN I - Cyanide, Weak Acid Dissociable
Samples CARIBOU PORTAL (186724-8), CARIBOU WELL (186724-5), COMPLIANCE 02 (186724-3), COMPLIANCE 03 (186724-4), COMPLIANCE WELL (186724-2), CROSS PORTAL (186724-6), CROSS PORTAL 02 (186724-7) and CROSS WELL (186724-1) were analyzed for Cyanide, Weak Acid Dissociable. The samples were analyzed on 1/23/2024.

Method SM 4500 Cl- E - Chloride, Total
Samples CARIBOU PORTAL (186724-8), CARIBOU WELL (186724-5), COMPLIANCE 02 (186724-3), COMPLIANCE 03 (186724-4), COMPLIANCE WELL (186724-2), CROSS PORTAL (186724-6), CROSS PORTAL 02 (186724-7) and CROSS WELL (186724-1) were analyzed for Chloride, Total. The samples were analyzed on 1/29/2024.

Method SM 4500 SO4 E - Sulfate, Total
Samples CARIBOU PORTAL (186724-8), CARIBOU WELL (186724-5), COMPLIANCE 02 (186724-3), COMPLIANCE 03 (186724-4), COMPLIANCE WELL (186724-2), CROSS PORTAL (186724-6), CROSS PORTAL 02 (186724-7) and CROSS WELL (186724-1) were analyzed for Sulfate, Total. The samples were analyzed on 1/29/2024.

Method 901.1 - Cesium 137 & Other Gamma Emitters (GS)
Samples CARIBOU PORTAL (186724-8), CARIBOU WELL (186724-5), COMPLIANCE 02 (186724-3), COMPLIANCE 03 (186724-4), COMPLIANCE WELL (186724-2), CROSS PORTAL (186724-6), CROSS PORTAL 02 (186724-7) and CROSS WELL (186724-1) were analyzed for Cesium 137 & Other Gamma Emitters (GS). The samples were prepared on 1/24/2024 and analyzed on 1/25/2024.

For Gamma Prep batch 160-645478
The MB z-activity for Cs134 associated with Prep Batch 160-645478 does not meet QC criteria. This appears to be random in nature, and limited deviations such as this are statistically expected when larger analyte lists are reported. Such excursions are often caused by fluctuations in Compton background, force-fitting of peaks that are not found by the software peak-search algorithm, and inclusion of inferior peak results by the software in weighted averages. The laboratory SOP allows for such statistical exceedances: (MB 160-645478/1-A) .

For Gamma Prep Batch 160-645478
The minimum detectable concentration (MDC) for the method blank (MB) is above the requested limit for Cs137. 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 160-645478/1-A)

Gamma prep batch 160-645478
The detection goal of 20 pCi/L was not met for Cs-137 for the following sample. 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: COMPLIANCE WELL (280-186724-2), COMPLIANCE 03 (280-186724-4), CARIBOU WELL (280-186724-5) and CROSS PORTAL 02 (280-186724-7).

Gamma Prep batch 160-645478
Many isotopes requested by gamma spectrometry analysis do not have any gamma emissions, the gamma emissions they do have are very poor, and/or are reported by assuming secular equilibrium with a longer-lived parent (or vice-versa). For example, Th-232 (which does not have a good gamma-ray) is often reported assuming the shorter-lived Ra-228 daughter is in equilibrium with the Th-232 parent. Or, Pb-214 and/or Bi-214, daughters of potentially volatile Rn-222 in the Ra-226 decay chain, may not be in equilibrium with the parent unless sufficient time has been allowed since the break in equilibrium (e.g. 21 days in the case of Ra-226-supported ingrowth). The client should ensure that such inference is acceptable for their sample based upon process knowledge. The following assumptions were made for this report:

Inferred from	Reported to Analyte
Th-234	Pa-234
Th-234	U-238
Pb-210	Po-210
Pb-210	Bi-210
Cs-137	Ba-137m
Pb-212	Po-216
Xe-131m	Xe-131
Sb-125	Te-125m
Ag-108m	Ag-108
Rh-106	Ru-106
Pb-212	Th-228
Pb-212	Ra-224
U-235	Th-231
Ac-228	Th-232
Ac-228	Ra-228
Th-227	Ra-223
Th-227	Ac-227
Th-227	Bi-211
Th-227	Pb-211
Bi-214	Ra-226

CROSS WELL (280-186724-1), COMPLIANCE WELL (280-186724-2), COMPLIANCE 02 (280-186724-3), COMPLIANCE 03 (280-186724-4), CARIBOU WELL (280-186724-5), CROSS PORTAL (280-186724-6), CROSS PORTAL 02 (280-186724-7), CARIBOU PORTAL (280-186724-8) and (280-186724-A-1-D DU)

Method 900.0 - Gross Alpha and Gross Beta Radioactivity
Samples CARIBOU PORTAL (186724-8), CARIBOU WELL (186724-5), COMPLIANCE 02 (186724-3), COMPLIANCE 03 (186724-4), COMPLIANCE WELL (186724-2), CROSS PORTAL (186724-6), CROSS PORTAL 02 (186724-7) and CROSS WELL (186724-1) were analyzed for Gross Alpha and Gross Beta Radioactivity. The samples were prepared on 1/24/2024 and analyzed on 1/30/2024.

Gross Alpha and Gross Beta batch 645454
The matrix spike (MS) recoveries for Gross Alpha were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.
(380-79519-A-1-D MS)

Gross Alpha and Gross Beta batch 645454
The detection goal was not met for the sample duplicate. However the purpose of the DUP is to demonstrate batch precision. The precision was within control limits demonstrating no adverse effect from the discrepancy.
(380-79519-A-1-F DU)

Detection Summary

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

Job ID: 280-186724-1

Client Sample ID: CROSS WELL — Lab Sample ID: 280-186724-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.0042	J	0.10	0.0015	mg/L	1		200.7 Rev 4.4	Dissolved
Barium	0.031		0.0030	0.00038	mg/L	1		200.8	Dissolved
Copper	0.0082		0.0020	0.00071	mg/L	1		200.8	Dissolved
Lead	0.00043	J	0.0010	0.00023	mg/L	1		200.8	Dissolved
Manganese	0.00061	J	0.0030	0.00051	mg/L	1		200.8	Dissolved
Molybdenum	0.00071	J	0.0020	0.00037	mg/L	1		200.8	Dissolved
Silver	0.000092	J	0.0010	0.000045	mg/L	1		200.8	Dissolved
Uranium	0.000072	J	0.0010	0.000030	mg/L	1		200.8	Dissolved
Zinc	0.77		0.010	0.0020	mg/L	1		200.8	Dissolved
Nitrate as N	0.26	J	0.50	0.090	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	0.26		0.10	0.044	mg/L	1		353.2	Total/NA
Total Dissolved Solids (TDS)	89		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	8.6		5.0	0.71	mg/L	1		SM 4500 SO4 E	Total/NA

Client Sample ID: COMPLIANCE WELL — Lab Sample ID: 280-186724-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.0034	J	0.10	0.0015	mg/L	1		200.7 Rev 4.4	Dissolved
Iron	0.021	J	0.10	0.0091	mg/L	1		200.7 Rev 4.4	Dissolved
Barium	0.044		0.0030	0.00038	mg/L	1		200.8	Dissolved
Manganese	0.0067		0.0030	0.00051	mg/L	1		200.8	Dissolved
Molybdenum	0.0044		0.0020	0.00037	mg/L	1		200.8	Dissolved
Uranium	0.00014	J	0.0010	0.000030	mg/L	1		200.8	Dissolved
Zinc	0.081		0.010	0.0020	mg/L	1		200.8	Dissolved
Nitrate as N	0.34	J	0.50	0.090	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	0.35		0.10	0.044	mg/L	1		353.2	Total/NA
Total Dissolved Solids (TDS)	84		10	4.7	mg/L	1		SM 2540C	Total/NA
Chloride	3.5		2.0	0.68	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	9.3		5.0	0.71	mg/L	1		SM 4500 SO4 E	Total/NA

Client Sample ID: COMPLIANCE 02 — Lab Sample ID: 280-186724-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.0030	J	0.10	0.0015	mg/L	1		200.7 Rev 4.4	Dissolved
Iron	0.0092	J	0.10	0.0091	mg/L	1		200.7 Rev 4.4	Dissolved
Barium	0.042		0.0030	0.00038	mg/L	1		200.8	Dissolved
Manganese	0.0062		0.0030	0.00051	mg/L	1		200.8	Dissolved
Molybdenum	0.0046		0.0020	0.00037	mg/L	1		200.8	Dissolved
Uranium	0.00015	J	0.0010	0.000030	mg/L	1		200.8	Dissolved
Zinc	0.080		0.010	0.0020	mg/L	1		200.8	Dissolved
Nitrate as N	0.34	J	0.50	0.090	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	0.37		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	3.6		2.0	0.68	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	9.4		5.0	0.71	mg/L	1		SM 4500 SO4 E	Total/NA

Client Sample ID: COMPLIANCE 03 — Lab Sample ID: 280-186724-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.022	J	0.10	0.018	mg/L	1		200.7 Rev 4.4	Dissolved
Barium	0.00090	J	0.0030	0.00038	mg/L	1		200.8	Dissolved

This Detection Summary does not include radiochemical test results.

Eurofins Denver

Client Sample ID: COMPLIANCE 03 (Continued) — Lab Sample ID: 280-186724-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.63		0.50	0.17	mg/L	1		300.0	Total/NA

Client Sample ID: CARIBOU WELL — Lab Sample ID: 280-186724-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.0051	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
Lithium	0.013	J	0.020	0.0091	mg/L	1		200.7 Rev 4.4	Dissolved
Antimony	0.00058	J	0.0020	0.00040	mg/L	1		200.8	Dissolved
Arsenic	0.00054	J	0.0050	0.00050	mg/L	1		200.8	Dissolved
Barium	0.060		0.0030	0.00038	mg/L	1		200.8	Dissolved
Lead	0.00023	J	0.0010	0.00023	mg/L	1		200.8	Dissolved
Manganese	0.0026	J	0.0030	0.00051	mg/L	1		200.8	Dissolved
Molybdenum	0.0070		0.0020	0.00037	mg/L	1		200.8	Dissolved
Uranium	0.0058		0.0010	0.000030	mg/L	1		200.8	Dissolved
Zinc	0.0064	J	0.010	0.0020	mg/L	1		200.8	Dissolved
Nitrate as N	0.16	J	0.50	0.090	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	0.11		0.10	0.044	mg/L	1		353.2	Total/NA
Total Dissolved Solids (TDS)	27		10	4.7	mg/L	1		SM 2540C	Total/NA
Cyanide, Free	0.019		0.010	0.0050	mg/L	1		SM 4500 CN I	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: 280-186724-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.0036	J	0.10	0.0015	mg/L	1		200.7 Rev 4.4	Dissolved
Iron	0.012	J	0.10	0.0091	mg/L	1		200.7 Rev 4.4	Dissolved
Antimony	0.00044	J	0.0020	0.00040	mg/L	1		200.8	Dissolved
Barium	0.073		0.0030	0.00038	mg/L	1		200.8	Dissolved
Cadmium	0.0012		0.0010	0.00019	mg/L	1		200.8	Dissolved
Copper	0.0020		0.0020	0.00071	mg/L	1		200.8	Dissolved
Lead	0.00068	J	0.0010	0.00023	mg/L	1		200.8	Dissolved
Manganese	0.0070		0.0030	0.00051	mg/L	1		200.8	Dissolved
Molybdenum	0.0072		0.0020	0.00037	mg/L	1		200.8	Dissolved
Uranium	0.00097	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 as N	0.12	J	0.50	0.090	mg/L	1		300.0	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: CROSS PORTAL 02 — Lab Sample ID: 280-186724-7

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	0.018	J	0.10	0.0091	mg/L	1		200.7 Rev 4.4	Dissolved
Antimony	0.00056	J	0.0020	0.00040	mg/L	1		200.8	Dissolved
Barium	0.074		0.0030	0.00038	mg/L	1		200.8	Dissolved
Cadmium	0.0011		0.0010	0.00019	mg/L	1		200.8	Dissolved
Copper	0.0018	J	0.0020	0.00071	mg/L	1		200.8	Dissolved
Lead	0.00065	J	0.0010	0.00023	mg/L	1		200.8	Dissolved
Manganese	0.0074		0.0030	0.00051	mg/L	1		200.8	Dissolved
Molybdenum	0.0076		0.0020	0.00037	mg/L	1		200.8	Dissolved

This Detection Summary does not include radiochemical test results.

Client Sample ID: CROSS PORTAL 02 (Continued) — Lab Sample ID: 280-186724-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Uranium	0.00090	J	0.0010	0.000030	mg/L	1		200.8	Dissolved
Zinc	0.21		0.010	0.0020	mg/L	1		200.8	Dissolved
Nitrate as N	0.12	J	0.50	0.090	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	0.044	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	9.9		5.0	0.71	mg/L	1		SM 4500 SO4 E	Total/NA

Client Sample ID: CARIBOU PORTAL — Lab Sample ID: 280-186724-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.0038	J	0.10	0.0015	mg/L	1		200.7 Rev 4.4	Dissolved
Iron	0.023	J	0.10	0.0091	mg/L	1		200.7 Rev 4.4	Dissolved
Antimony	0.0021		0.0020	0.00040	mg/L	1		200.8	Dissolved
Barium	0.050		0.0030	0.00038	mg/L	1		200.8	Dissolved
Copper	0.043		0.0020	0.00071	mg/L	1		200.8	Dissolved
Lead	0.00062	J	0.0010	0.00023	mg/L	1		200.8	Dissolved
Manganese	0.0010	J	0.0030	0.00051	mg/L	1		200.8	Dissolved
Molybdenum	0.0058		0.0020	0.00037	mg/L	1		200.8	Dissolved
Uranium	0.0053		0.0010	0.000030	mg/L	1		200.8	Dissolved
Zinc	0.0051	J F1	0.010	0.0020	mg/L	1		200.8	Dissolved
Nitrate as N	0.18	J	0.50	0.090	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	0.13		0.10	0.044	mg/L	1		353.2	Total/NA
Total Dissolved Solids (TDS)	120		10	4.7	mg/L	1		SM 2540C	Total/NA
Sulfate	9.3		5.0	0.71	mg/L	1		SM 4500 SO4 E	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

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

Job ID: 280-186724-1

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: 280-186724-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-186724-1	CROSS WELL	Water	01/17/24 13:00	01/18/24 13:00
280-186724-2	COMPLIANCE WELL	Water	01/17/24 13:30	01/18/24 13:00
280-186724-3	COMPLIANCE 02	Water	01/17/24 13:30	01/18/24 13:00
280-186724-4	COMPLIANCE 03	Water	01/17/24 13:30	01/18/24 13:00
280-186724-5	CARIBOU WELL	Water	01/17/24 11:30	01/18/24 13:00
280-186724-6	CROSS PORTAL	Water	01/17/24 12:15	01/18/24 13:00
280-186724-7	CROSS PORTAL 02	Water	01/17/24 12:15	01/18/24 13:00
280-186724-8	CARIBOU PORTAL	Water	01/17/24 11:15	01/18/24 13:00

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

Client Sample ID: CROSS WELL
Date Collected: 01/17/24 13:00
Date Received: 01/18/24 13:00

Lab Sample ID: 280-186724-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.10	0.018	mg/L		01/19/24 08:50	01/23/24 18:15	1
Boron	**0.0042**	**J**	0.10	0.0015	mg/L		01/19/24 08:50	01/22/24 14:05	1
Iron	ND		0.10	0.0091	mg/L		01/19/24 08:50	01/22/24 14:05	1
Lithium	ND		0.020	0.0091	mg/L		01/19/24 08:50	01/22/24 14:05	1

Client Sample ID: COMPLIANCE WELL
Date Collected: 01/17/24 13:30
Date Received: 01/18/24 13:00

Lab Sample ID: 280-186724-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.10	0.018	mg/L		01/19/24 08:50	01/23/24 18:32	1
Boron	**0.0034**	**J**	0.10	0.0015	mg/L		01/19/24 08:50	01/22/24 14:09	1
Iron	**0.021**	**J**	0.10	0.0091	mg/L		01/19/24 08:50	01/22/24 14:09	1
Lithium	ND		0.020	0.0091	mg/L		01/19/24 08:50	01/22/24 14:09	1

Client Sample ID: COMPLIANCE 02
Date Collected: 01/17/24 13:30
Date Received: 01/18/24 13:00

Lab Sample ID: 280-186724-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.10	0.018	mg/L		01/19/24 08:50	01/23/24 18:37	1
Boron	**0.0030**	**J**	0.10	0.0015	mg/L		01/19/24 08:50	01/22/24 14:13	1
Iron	**0.0092**	**J**	0.10	0.0091	mg/L		01/19/24 08:50	01/22/24 14:13	1
Lithium	ND		0.020	0.0091	mg/L		01/19/24 08:50	01/22/24 14:13	1

Client Sample ID: COMPLIANCE 03
Date Collected: 01/17/24 13:30
Date Received: 01/18/24 13:00

Lab Sample ID: 280-186724-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.022**	**J**	0.10	0.018	mg/L		01/19/24 08:50	01/23/24 18:41	1
Boron	ND		0.10	0.0015	mg/L		01/19/24 08:50	01/22/24 14:17	1
Iron	ND		0.10	0.0091	mg/L		01/19/24 08:50	01/22/24 14:17	1
Lithium	ND		0.020	0.0091	mg/L		01/19/24 08:50	01/22/24 14:17	1

Client Sample ID: CARIBOU WELL
Date Collected: 01/17/24 11:30
Date Received: 01/18/24 13:00

Lab Sample ID: 280-186724-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.10	0.018	mg/L		01/22/24 08:25	01/22/24 19:01	1
Boron	**0.0051**	**J**	0.10	0.0015	mg/L		01/22/24 08:25	01/22/24 19:01	1
Iron	**0.014**	**J B**	0.10	0.0091	mg/L		01/22/24 08:25	01/22/24 19:01	1
Lithium	**0.013**	**J**	0.020	0.0091	mg/L		01/22/24 08:25	01/22/24 19:01	1

Client Sample ID: CROSS PORTAL
Date Collected: 01/17/24 12:15
Date Received: 01/18/24 13:00

Lab Sample ID: 280-186724-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.10	0.018	mg/L		01/19/24 08:50	01/23/24 18:45	1
Boron	**0.0036**	**J**	0.10	0.0015	mg/L		01/19/24 08:50	01/22/24 14:21	1
Iron	**0.012**	**J**	0.10	0.0091	mg/L		01/19/24 08:50	01/22/24 14:21	1
Lithium	ND		0.020	0.0091	mg/L		01/19/24 08:50	01/22/24 14:21	1

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

Client Sample ID: CROSS PORTAL 02
Date Collected: 01/17/24 12:15
Date Received: 01/18/24 13:00
Lab Sample ID: 280-186724-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.10	0.018	mg/L		01/19/24 08:50	01/23/24 18:49	1
Boron	**0.0039**	**J**	0.10	0.0015	mg/L		01/19/24 08:50	01/22/24 14:25	1
Iron	**0.018**	**J**	0.10	0.0091	mg/L		01/19/24 08:50	01/22/24 14:25	1
Lithium	ND		0.020	0.0091	mg/L		01/19/24 08:50	01/22/24 14:25	1

Client Sample ID: CARIBOU PORTAL
Date Collected: 01/17/24 11:15
Date Received: 01/18/24 13:00
Lab Sample ID: 280-186724-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.10	0.018	mg/L		01/19/24 08:50	01/23/24 18:53	1
Boron	**0.0038**	**J**	0.10	0.0015	mg/L		01/19/24 08:50	01/22/24 14:29	1
Iron	**0.023**	**J**	0.10	0.0091	mg/L		01/19/24 08:50	01/22/24 14:29	1
Lithium	ND		0.020	0.0091	mg/L		01/19/24 08:50	01/22/24 14:29	1

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

Client Sample ID: CROSS WELL
Date Collected: 01/17/24 13:00
Date Received: 01/18/24 13:00
Lab Sample ID: 280-186724-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00040	mg/L		01/19/24 08:50	01/20/24 04:34	1
Arsenic	ND		0.0050	0.00050	mg/L		01/19/24 08:50	01/20/24 04:34	1
Barium	**0.031**		0.0030	0.00038	mg/L		01/19/24 08:50	01/20/24 04:34	1
Beryllium	ND		0.0010	0.00030	mg/L		01/19/24 08:50	01/20/24 04:34	1
Cadmium	ND		0.0010	0.00019	mg/L		01/19/24 08:50	01/20/24 04:34	1
Chromium	ND		0.0030	0.00050	mg/L		01/19/24 08:50	01/20/24 04:34	1
Cobalt	ND		0.0010	0.00033	mg/L		01/19/24 08:50	01/20/24 04:34	1
Copper	**0.0082**		0.0020	0.00071	mg/L		01/19/24 08:50	01/22/24 19:55	1
Lead	**0.00043**	**J**	0.0010	0.00023	mg/L		01/19/24 08:50	01/20/24 04:34	1
Manganese	**0.00061**	**J**	0.0030	0.00051	mg/L		01/19/24 08:50	01/20/24 04:34	1
Molybdenum	**0.00071**	**J**	0.0020	0.00037	mg/L		01/19/24 08:50	01/20/24 04:34	1
Nickel	ND		0.0030	0.00083	mg/L		01/19/24 08:50	01/22/24 19:55	1
Selenium	ND		0.0050	0.0010	mg/L		01/19/24 08:50	01/20/24 04:34	1
Silver	**0.000092**	**J**	0.0010	0.000045	mg/L		01/19/24 08:50	01/20/24 04:34	1
Thallium	ND		0.0010	0.00021	mg/L		01/19/24 08:50	01/20/24 04:34	1
Uranium	**0.000072**	**J**	0.0010	0.000030	mg/L		01/19/24 08:50	01/20/24 04:34	1
Vanadium	ND		0.0050	0.0011	mg/L		01/19/24 08:50	01/20/24 04:34	1
Zinc	**0.77**		0.010	0.0020	mg/L		01/19/24 08:50	01/20/24 04:34	1

Client Sample ID: COMPLIANCE WELL
Date Collected: 01/17/24 13:30
Date Received: 01/18/24 13:00
Lab Sample ID: 280-186724-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00040	mg/L		01/19/24 08:50	01/20/24 04:37	1
Arsenic	ND		0.0050	0.00050	mg/L		01/19/24 08:50	01/20/24 04:37	1
Barium	**0.044**		0.0030	0.00038	mg/L		01/19/24 08:50	01/20/24 04:37	1
Beryllium	ND		0.0010	0.00030	mg/L		01/19/24 08:50	01/20/24 04:37	1
Cadmium	ND		0.0010	0.00019	mg/L		01/19/24 08:50	01/20/24 04:37	1
Chromium	ND		0.0030	0.00050	mg/L		01/19/24 08:50	01/20/24 04:37	1
Cobalt	ND		0.0010	0.00033	mg/L		01/19/24 08:50	01/20/24 04:37	1

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

Client Sample ID: COMPLIANCE WELL
Date Collected: 01/17/24 13:30
Date Received: 01/18/24 13:00

Lab Sample ID: 280-186724-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		0.0020	0.00071	mg/L		01/19/24 08:50	01/22/24 19:58	1
Lead	ND		0.0010	0.00023	mg/L		01/19/24 08:50	01/20/24 04:37	1
Manganese	**0.0067**		0.0030	0.00051	mg/L		01/19/24 08:50	01/20/24 04:37	1
Molybdenum	**0.0044**		0.0020	0.00037	mg/L		01/19/24 08:50	01/20/24 04:37	1
Nickel	ND		0.0030	0.00083	mg/L		01/19/24 08:50	01/22/24 19:58	1
Selenium	ND		0.0050	0.0010	mg/L		01/19/24 08:50	01/20/24 04:37	1
Silver	ND		0.0010	0.000045	mg/L		01/19/24 08:50	01/20/24 04:37	1
Thallium	ND		0.0010	0.00021	mg/L		01/19/24 08:50	01/20/24 04:37	1
Uranium	**0.00014**	**J**	0.0010	0.000030	mg/L		01/19/24 08:50	01/20/24 04:37	1
Vanadium	ND		0.0050	0.0011	mg/L		01/19/24 08:50	01/20/24 04:37	1
Zinc	**0.081**		0.010	0.0020	mg/L		01/19/24 08:50	01/20/24 04:37	1

Client Sample ID: COMPLIANCE 02
Date Collected: 01/17/24 13:30
Date Received: 01/18/24 13:00

Lab Sample ID: 280-186724-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00040	mg/L		01/19/24 08:50	01/20/24 04:41	1
Arsenic	ND		0.0050	0.00050	mg/L		01/19/24 08:50	01/20/24 04:41	1
Barium	**0.042**		0.0030	0.00038	mg/L		01/19/24 08:50	01/20/24 04:41	1
Beryllium	ND		0.0010	0.00030	mg/L		01/19/24 08:50	01/20/24 04:41	1
Cadmium	ND		0.0010	0.00019	mg/L		01/19/24 08:50	01/20/24 04:41	1
Chromium	ND		0.0030	0.00050	mg/L		01/19/24 08:50	01/20/24 04:41	1
Cobalt	ND		0.0010	0.00033	mg/L		01/19/24 08:50	01/20/24 04:41	1
Copper	ND		0.0020	0.00071	mg/L		01/19/24 08:50	01/22/24 20:02	1
Lead	ND		0.0010	0.00023	mg/L		01/19/24 08:50	01/20/24 04:41	1
Manganese	**0.0062**		0.0030	0.00051	mg/L		01/19/24 08:50	01/20/24 04:41	1
Molybdenum	**0.0046**		0.0020	0.00037	mg/L		01/19/24 08:50	01/20/24 04:41	1
Nickel	ND		0.0030	0.00083	mg/L		01/19/24 08:50	01/22/24 20:02	1
Selenium	ND		0.0050	0.0010	mg/L		01/19/24 08:50	01/20/24 04:41	1
Silver	ND		0.0010	0.000045	mg/L		01/19/24 08:50	01/20/24 04:41	1
Thallium	ND		0.0010	0.00021	mg/L		01/19/24 08:50	01/20/24 04:41	1
Uranium	**0.00015**	**J**	0.0010	0.000030	mg/L		01/19/24 08:50	01/20/24 04:41	1
Vanadium	ND		0.0050	0.0011	mg/L		01/19/24 08:50	01/20/24 04:41	1
Zinc	**0.080**		0.010	0.0020	mg/L		01/19/24 08:50	01/20/24 04:41	1

Client Sample ID: COMPLIANCE 03
Date Collected: 01/17/24 13:30
Date Received: 01/18/24 13:00

Lab Sample ID: 280-186724-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00040	mg/L		01/19/24 08:50	01/20/24 04:44	1
Arsenic	ND		0.0050	0.00050	mg/L		01/19/24 08:50	01/20/24 04:44	1
Barium	**0.00090**	**J**	0.0030	0.00038	mg/L		01/19/24 08:50	01/20/24 04:44	1
Beryllium	ND		0.0010	0.00030	mg/L		01/19/24 08:50	01/20/24 04:44	1
Cadmium	ND		0.0010	0.00019	mg/L		01/19/24 08:50	01/20/24 04:44	1
Chromium	ND		0.0030	0.00050	mg/L		01/19/24 08:50	01/20/24 04:44	1
Cobalt	ND		0.0010	0.00033	mg/L		01/19/24 08:50	01/20/24 04:44	1
Copper	ND		0.0020	0.00071	mg/L		01/19/24 08:50	01/22/24 20:05	1
Lead	ND		0.0010	0.00023	mg/L		01/19/24 08:50	01/20/24 04:44	1
Manganese	ND		0.0030	0.00051	mg/L		01/19/24 08:50	01/20/24 04:44	1
Molybdenum	ND		0.0020	0.00037	mg/L		01/19/24 08:50	01/20/24 04:44	1

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

Client Sample ID: COMPLIANCE 03
Date Collected: 01/17/24 13:30
Date Received: 01/18/24 13:00

Lab Sample ID: 280-186724-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	ND		0.0030	0.00083	mg/L		01/19/24 08:50	01/22/24 20:05	1
Selenium	ND		0.0050	0.0010	mg/L		01/19/24 08:50	01/20/24 04:44	1
Silver	ND		0.0010	0.000045	mg/L		01/19/24 08:50	01/20/24 04:44	1
Thallium	ND		0.0010	0.00021	mg/L		01/19/24 08:50	01/20/24 04:44	1
Uranium	ND		0.0010	0.000030	mg/L		01/19/24 08:50	01/20/24 04:44	1
Vanadium	ND		0.0050	0.0011	mg/L		01/19/24 08:50	01/20/24 04:44	1
Zinc	ND		0.010	0.0020	mg/L		01/19/24 08:50	01/20/24 04:44	1

Client Sample ID: CARIBOU WELL
Date Collected: 01/17/24 11:30
Date Received: 01/18/24 13:00

Lab Sample ID: 280-186724-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.00058**	**J**	0.0020	0.00040	mg/L		01/22/24 08:25	01/22/24 22:20	1
Arsenic	**0.00054**	**J**	0.0050	0.00050	mg/L		01/22/24 08:25	01/22/24 22:20	1
Barium	**0.060**		0.0030	0.00038	mg/L		01/22/24 08:25	01/22/24 22:20	1
Beryllium	ND		0.0010	0.00030	mg/L		01/22/24 08:25	01/22/24 22:20	1
Cadmium	ND		0.0010	0.00019	mg/L		01/22/24 08:25	01/22/24 22:20	1
Chromium	ND		0.0030	0.00050	mg/L		01/22/24 08:25	01/22/24 22:20	1
Cobalt	ND		0.0010	0.00033	mg/L		01/22/24 08:25	01/22/24 22:20	1
Copper	ND		0.0020	0.00071	mg/L		01/22/24 08:25	01/22/24 22:20	1
Lead	**0.00023**	**J**	0.0010	0.00023	mg/L		01/22/24 08:25	01/22/24 22:20	1
Manganese	**0.0026**	**J**	0.0030	0.00051	mg/L		01/22/24 08:25	01/22/24 22:20	1
Molybdenum	**0.0070**		0.0020	0.00037	mg/L		01/22/24 08:25	01/22/24 22:20	1
Nickel	ND		0.0030	0.00083	mg/L		01/22/24 08:25	01/22/24 22:20	1
Selenium	ND		0.0050	0.0010	mg/L		01/22/24 08:25	01/22/24 22:20	1
Silver	ND		0.0010	0.000045	mg/L		01/22/24 08:25	01/22/24 22:20	1
Thallium	ND		0.0010	0.00021	mg/L		01/22/24 08:25	01/22/24 22:20	1
Uranium	**0.0058**		0.0010	0.000030	mg/L		01/22/24 08:25	01/22/24 22:20	1
Vanadium	ND		0.0050	0.0011	mg/L		01/22/24 08:25	01/22/24 22:20	1
Zinc	**0.0064**	**J**	0.010	0.0020	mg/L		01/22/24 08:25	01/22/24 22:20	1

Client Sample ID: CROSS PORTAL
Date Collected: 01/17/24 12:15
Date Received: 01/18/24 13:00

Lab Sample ID: 280-186724-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.00044**	**J**	0.0020	0.00040	mg/L		01/19/24 08:50	01/20/24 04:48	1
Arsenic	ND		0.0050	0.00050	mg/L		01/19/24 08:50	01/20/24 04:48	1
Barium	**0.073**		0.0030	0.00038	mg/L		01/19/24 08:50	01/20/24 04:48	1
Beryllium	ND		0.0010	0.00030	mg/L		01/19/24 08:50	01/20/24 04:48	1
Cadmium	**0.0012**		0.0010	0.00019	mg/L		01/19/24 08:50	01/20/24 04:48	1
Chromium	ND		0.0030	0.00050	mg/L		01/19/24 08:50	01/20/24 04:48	1
Cobalt	ND		0.0010	0.00033	mg/L		01/19/24 08:50	01/20/24 04:48	1
Copper	**0.0020**		0.0020	0.00071	mg/L		01/19/24 08:50	01/22/24 20:09	1
Lead	**0.00068**	**J**	0.0010	0.00023	mg/L		01/19/24 08:50	01/20/24 04:48	1
Manganese	**0.0070**		0.0030	0.00051	mg/L		01/19/24 08:50	01/20/24 04:48	1
Molybdenum	**0.0072**		0.0020	0.00037	mg/L		01/19/24 08:50	01/20/24 04:48	1
Nickel	ND		0.0030	0.00083	mg/L		01/19/24 08:50	01/22/24 20:09	1
Selenium	ND		0.0050	0.0010	mg/L		01/19/24 08:50	01/20/24 04:48	1
Silver	ND		0.0010	0.000045	mg/L		01/19/24 08:50	01/20/24 04:48	1
Thallium	ND		0.0010	0.00021	mg/L		01/19/24 08:50	01/20/24 04:48	1

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

Client Sample ID: CROSS PORTAL
Date Collected: 01/17/24 12:15
Date Received: 01/18/24 13:00
Lab Sample ID: 280-186724-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.00097**	**J**	0.0010	0.000030	mg/L		01/19/24 08:50	01/20/24 04:48	1
Vanadium	ND		0.0050	0.0011	mg/L		01/19/24 08:50	01/20/24 04:48	1
Zinc	**0.22**		0.010	0.0020	mg/L		01/19/24 08:50	01/20/24 04:48	1

Client Sample ID: CROSS PORTAL 02
Date Collected: 01/17/24 12:15
Date Received: 01/18/24 13:00
Lab Sample ID: 280-186724-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.00056**	**J**	0.0020	0.00040	mg/L		01/19/24 08:50	01/20/24 04:51	1
Arsenic	ND		0.0050	0.00050	mg/L		01/19/24 08:50	01/20/24 04:51	1
Barium	**0.074**		0.0030	0.00038	mg/L		01/19/24 08:50	01/20/24 04:51	1
Beryllium	ND		0.0010	0.00030	mg/L		01/19/24 08:50	01/20/24 04:51	1
Cadmium	**0.0011**		0.0010	0.00019	mg/L		01/19/24 08:50	01/20/24 04:51	1
Chromium	ND		0.0030	0.00050	mg/L		01/19/24 08:50	01/20/24 04:51	1
Cobalt	ND		0.0010	0.00033	mg/L		01/19/24 08:50	01/20/24 04:51	1
Copper	**0.0018**	**J**	0.0020	0.00071	mg/L		01/19/24 08:50	01/22/24 20:12	1
Lead	**0.00065**	**J**	0.0010	0.00023	mg/L		01/19/24 08:50	01/20/24 04:51	1
Manganese	**0.0074**		0.0030	0.00051	mg/L		01/19/24 08:50	01/20/24 04:51	1
Molybdenum	**0.0076**		0.0020	0.00037	mg/L		01/19/24 08:50	01/20/24 04:51	1
Nickel	ND		0.0030	0.00083	mg/L		01/19/24 08:50	01/22/24 20:12	1
Selenium	ND		0.0050	0.0010	mg/L		01/19/24 08:50	01/20/24 04:51	1
Silver	ND		0.0010	0.000045	mg/L		01/19/24 08:50	01/20/24 04:51	1
Thallium	ND		0.0010	0.00021	mg/L		01/19/24 08:50	01/20/24 04:51	1
Uranium	**0.00090**	**J**	0.0010	0.000030	mg/L		01/19/24 08:50	01/20/24 04:51	1
Vanadium	ND		0.0050	0.0011	mg/L		01/19/24 08:50	01/20/24 04:51	1
Zinc	**0.21**		0.010	0.0020	mg/L		01/19/24 08:50	01/20/24 04:51	1

Client Sample ID: CARIBOU PORTAL
Date Collected: 01/17/24 11:15
Date Received: 01/18/24 13:00
Lab Sample ID: 280-186724-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.0021**		0.0020	0.00040	mg/L		01/19/24 08:50	01/20/24 04:23	1
Arsenic	ND		0.0050	0.00050	mg/L		01/19/24 08:50	01/20/24 04:23	1
Barium	**0.050**		0.0030	0.00038	mg/L		01/19/24 08:50	01/20/24 04:23	1
Beryllium	ND		0.0010	0.00030	mg/L		01/19/24 08:50	01/20/24 04:23	1
Cadmium	ND		0.0010	0.00019	mg/L		01/19/24 08:50	01/20/24 04:23	1
Chromium	ND		0.0030	0.00050	mg/L		01/19/24 08:50	01/20/24 04:23	1
Cobalt	ND	F1	0.0010	0.00033	mg/L		01/19/24 08:50	01/20/24 04:23	1
Copper	**0.043**		0.0020	0.00071	mg/L		01/19/24 08:50	01/22/24 20:23	1
Lead	**0.00062**	**J**	0.0010	0.00023	mg/L		01/19/24 08:50	01/20/24 04:23	1
Manganese	**0.0010**	**J**	0.0030	0.00051	mg/L		01/19/24 08:50	01/20/24 04:23	1
Molybdenum	**0.0058**		0.0020	0.00037	mg/L		01/19/24 08:50	01/20/24 04:23	1
Nickel	ND		0.0030	0.00083	mg/L		01/19/24 08:50	01/22/24 20:23	1
Selenium	ND		0.0050	0.0010	mg/L		01/19/24 08:50	01/20/24 04:23	1
Silver	ND		0.0010	0.000045	mg/L		01/19/24 08:50	01/20/24 04:23	1
Thallium	ND		0.0010	0.00021	mg/L		01/19/24 08:50	01/20/24 04:23	1
Uranium	**0.0053**		0.0010	0.000030	mg/L		01/19/24 08:50	01/20/24 04:23	1
Vanadium	ND		0.0050	0.0011	mg/L		01/19/24 08:50	01/20/24 04:23	1
Zinc	**0.0051**	**J F1**	0.010	0.0020	mg/L		01/19/24 08:50	01/20/24 04:23	1

Method: EPA 245.1 - Mercury (CVAA) - Dissolved

Client Sample ID: CROSS WELL — **Lab Sample ID: 280-186724-1**
Date Collected: 01/17/24 13:00 — **Matrix: Water**
Date Received: 01/18/24 13:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000061	mg/L		01/23/24 14:30	01/23/24 18:26	1

Client Sample ID: COMPLIANCE WELL — **Lab Sample ID: 280-186724-2**
Date Collected: 01/17/24 13:30 — **Matrix: Water**
Date Received: 01/18/24 13:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000061	mg/L		01/23/24 14:30	01/23/24 18:29	1

Client Sample ID: COMPLIANCE 02 — **Lab Sample ID: 280-186724-3**
Date Collected: 01/17/24 13:30 — **Matrix: Water**
Date Received: 01/18/24 13:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000061	mg/L		01/23/24 14:30	01/23/24 18:31	1

Client Sample ID: COMPLIANCE 03 — **Lab Sample ID: 280-186724-4**
Date Collected: 01/17/24 13:30 — **Matrix: Water**
Date Received: 01/18/24 13:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000061	mg/L		01/23/24 14:30	01/23/24 18:34	1

Client Sample ID: CARIBOU WELL — **Lab Sample ID: 280-186724-5**
Date Collected: 01/17/24 11:30 — **Matrix: Water**
Date Received: 01/18/24 13:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000061	mg/L		01/23/24 14:30	01/23/24 18:37	1

Client Sample ID: CROSS PORTAL — **Lab Sample ID: 280-186724-6**
Date Collected: 01/17/24 12:15 — **Matrix: Water**
Date Received: 01/18/24 13:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000061	mg/L		01/23/24 14:30	01/23/24 18:39	1

Client Sample ID: CROSS PORTAL 02 — **Lab Sample ID: 280-186724-7**
Date Collected: 01/17/24 12:15 — **Matrix: Water**
Date Received: 01/18/24 13:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000061	mg/L		01/23/24 14:30	01/23/24 18:42	1

Client Sample ID: CARIBOU PORTAL — **Lab Sample ID: 280-186724-8**
Date Collected: 01/17/24 11:15 — **Matrix: Water**
Date Received: 01/18/24 13:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000061	mg/L		01/23/24 14:30	01/23/24 18:44	1

General Chemistry

Client Sample ID: CROSS WELL — **Lab Sample ID: 280-186724-1**
Date Collected: 01/17/24 13:00 — **Matrix: Water**
Date Received: 01/18/24 13:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (EPA 300.0)	ND		0.50	0.17	mg/L			01/19/24 00:56	1
Nitrate as N (EPA 300.0)	**0.26**	**J**	0.50	0.090	mg/L			01/19/24 00:56	1

General Chemistry (Continued)

Client Sample ID: CROSS WELL
Date Collected: 01/17/24 13:00
Date Received: 01/18/24 13:00

Lab Sample ID: 280-186724-1
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			01/19/24 00:56	1
Nitrate Nitrite as N (EPA 353.2)	**0.26**		0.10	0.044	mg/L			01/23/24 15:29	1
Total Dissolved Solids (TDS) (SM 2540C)	**89**		10	4.7	mg/L			01/19/24 09:08	1
Chloride (SM 4500 Cl- E)	**3.4**		2.0	0.68	mg/L			01/29/24 18:00	1
Cyanide, Free (SM 4500 CN I)	ND		0.010	0.0050	mg/L			01/23/24 13:31	1
Sulfate (SM 4500 SO4 E)	**8.6**		5.0	0.71	mg/L			01/29/24 14:14	1

Client Sample ID: COMPLIANCE WELL
Date Collected: 01/17/24 13:30
Date Received: 01/18/24 13:00

Lab Sample ID: 280-186724-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (EPA 300.0)	ND		0.50	0.17	mg/L			01/19/24 05:45	1
Nitrate as N (EPA 300.0)	**0.34**	**J**	0.50	0.090	mg/L			01/19/24 05:45	1
Nitrite as N (EPA 300.0)	ND		0.50	0.049	mg/L			01/19/24 05:45	1
Nitrate Nitrite as N (EPA 353.2)	**0.35**		0.10	0.044	mg/L			01/23/24 15:30	1
Total Dissolved Solids (TDS) (SM 2540C)	**84**		10	4.7	mg/L			01/19/24 09:08	1
Chloride (SM 4500 Cl- E)	**3.5**		2.0	0.68	mg/L			01/29/24 18:00	1
Cyanide, Free (SM 4500 CN I)	ND		0.010	0.0050	mg/L			01/23/24 13:33	1
Sulfate (SM 4500 SO4 E)	**9.3**		5.0	0.71	mg/L			01/29/24 14:14	1

Client Sample ID: COMPLIANCE 02
Date Collected: 01/17/24 13:30
Date Received: 01/18/24 13:00

Lab Sample ID: 280-186724-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (EPA 300.0)	ND		0.50	0.17	mg/L			01/19/24 06:02	1
Nitrate as N (EPA 300.0)	**0.34**	**J**	0.50	0.090	mg/L			01/19/24 06:02	1
Nitrite as N (EPA 300.0)	ND		0.50	0.049	mg/L			01/19/24 06:02	1
Nitrate Nitrite as N (EPA 353.2)	**0.37**		0.10	0.044	mg/L			01/23/24 15:44	1
Total Dissolved Solids (TDS) (SM 2540C)	**87**		10	4.7	mg/L			01/19/24 09:08	1
Chloride (SM 4500 Cl- E)	**3.6**		2.0	0.68	mg/L			01/29/24 17:59	1
Cyanide, Free (SM 4500 CN I)	ND		0.010	0.0050	mg/L			01/23/24 13:36	1
Sulfate (SM 4500 SO4 E)	**9.4**		5.0	0.71	mg/L			01/29/24 14:14	1

Client Sample ID: COMPLIANCE 03
Date Collected: 01/17/24 13:30
Date Received: 01/18/24 13:00

Lab Sample ID: 280-186724-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (EPA 300.0)	**0.63**		0.50	0.17	mg/L			01/19/24 06:19	1
Nitrate as N (EPA 300.0)	ND		0.50	0.090	mg/L			01/19/24 06:19	1
Nitrite as N (EPA 300.0)	ND		0.50	0.049	mg/L			01/19/24 06:19	1
Nitrate Nitrite as N (EPA 353.2)	ND		0.10	0.044	mg/L			01/23/24 15:45	1
Total Dissolved Solids (TDS) (SM 2540C)	ND		10	4.7	mg/L			01/19/24 09:08	1
Chloride (SM 4500 Cl- E)	ND		2.0	0.68	mg/L			01/29/24 17:59	1
Cyanide, Free (SM 4500 CN I)	ND		0.010	0.0050	mg/L			01/23/24 13:39	1
Sulfate (SM 4500 SO4 E)	ND		5.0	0.71	mg/L			01/29/24 14:13	1

General Chemistry

Client Sample ID: CARIBOU WELL
Date Collected: 01/17/24 11:30
Date Received: 01/18/24 13:00

Lab Sample ID: 280-186724-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (EPA 300.0)	ND		0.50	0.17	mg/L			01/18/24 20:23	1
Nitrate as N (EPA 300.0)	**0.16**	**J**	0.50	0.090	mg/L			01/18/24 20:23	1
Nitrite as N (EPA 300.0)	ND		0.50	0.049	mg/L			01/18/24 20:23	1
Nitrate Nitrite as N (EPA 353.2)	**0.11**		0.10	0.044	mg/L			01/23/24 15:46	1
Total Dissolved Solids (TDS) (SM 2540C)	**27**		10	4.7	mg/L			01/19/24 09:08	1
Chloride (SM 4500 Cl- E)	ND		2.0	0.68	mg/L			01/29/24 17:59	1
Cyanide, Free (SM 4500 CN I)	**0.019**		0.010	0.0050	mg/L			01/23/24 13:41	1
Sulfate (SM 4500 SO4 E)	**2.4**	**J**	5.0	0.71	mg/L			01/29/24 14:16	1

Client Sample ID: CROSS PORTAL
Date Collected: 01/17/24 12:15
Date Received: 01/18/24 13:00

Lab Sample ID: 280-186724-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (EPA 300.0)	ND		0.50	0.17	mg/L			01/18/24 23:14	1
Nitrate as N (EPA 300.0)	**0.12**	**J**	0.50	0.090	mg/L			01/18/24 23:14	1
Nitrite as N (EPA 300.0)	ND		0.50	0.049	mg/L			01/18/24 23:14	1
Nitrate Nitrite as N (EPA 353.2)	ND		0.10	0.044	mg/L			01/23/24 15:47	1
Total Dissolved Solids (TDS) (SM 2540C)	**110**		10	4.7	mg/L			01/19/24 09:08	1
Chloride (SM 4500 Cl- E)	ND		2.0	0.68	mg/L			01/29/24 17:59	1
Cyanide, Free (SM 4500 CN I)	ND		0.010	0.0050	mg/L			01/23/24 13:45	1
Sulfate (SM 4500 SO4 E)	**10**		5.0	0.71	mg/L			01/29/24 14:14	1

Client Sample ID: CROSS PORTAL 02
Date Collected: 01/17/24 12:15
Date Received: 01/18/24 13:00

Lab Sample ID: 280-186724-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (EPA 300.0)	ND		0.50	0.17	mg/L			01/18/24 23:31	1
Nitrate as N (EPA 300.0)	**0.12**	**J**	0.50	0.090	mg/L			01/18/24 23:31	1
Nitrite as N (EPA 300.0)	ND		0.50	0.049	mg/L			01/18/24 23:31	1
Nitrate Nitrite as N (EPA 353.2)	**0.044**	**J**	0.10	0.044	mg/L			01/23/24 15:49	1
Total Dissolved Solids (TDS) (SM 2540C)	**110**		10	4.7	mg/L			01/19/24 09:08	1
Chloride (SM 4500 Cl- E)	ND		2.0	0.68	mg/L			01/29/24 17:58	1
Cyanide, Free (SM 4500 CN I)	ND		0.010	0.0050	mg/L			01/23/24 13:48	1
Sulfate (SM 4500 SO4 E)	**9.9**		5.0	0.71	mg/L			01/29/24 14:15	1

Client Sample ID: CARIBOU PORTAL
Date Collected: 01/17/24 11:15
Date Received: 01/18/24 13:00

Lab Sample ID: 280-186724-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (EPA 300.0)	ND		0.50	0.17	mg/L			01/18/24 20:06	1
Nitrate as N (EPA 300.0)	**0.18**	**J**	0.50	0.090	mg/L			01/18/24 20:06	1
Nitrite as N (EPA 300.0)	ND		0.50	0.049	mg/L			01/18/24 20:06	1
Nitrate Nitrite as N (EPA 353.2)	**0.13**		0.10	0.044	mg/L			01/23/24 15:50	1
Total Dissolved Solids (TDS) (SM 2540C)	**120**		10	4.7	mg/L			01/19/24 09:08	1
Chloride (SM 4500 Cl- E)	ND		2.0	0.68	mg/L			01/29/24 18:01	1
Cyanide, Free (SM 4500 CN I)	ND		0.010	0.0050	mg/L			01/23/24 13:50	1
Sulfate (SM 4500 SO4 E)	**9.3**		5.0	0.71	mg/L			01/29/24 14:15	1

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

Client Sample ID: CROSS WELL
Date Collected: 01/17/24 13:00
Date Received: 01/18/24 13:00

Lab Sample ID: 280-186724-1
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	1.26	U	0.941	0.951	3.00	1.39	pCi/L	01/24/24 10:12	01/30/24 13:06	1
Gross Beta	**2.15**		0.692	0.724	4.00	0.879	pCi/L	01/24/24 10:12	01/30/24 13:06	1

Client Sample ID: COMPLIANCE WELL
Date Collected: 01/17/24 13:30
Date Received: 01/18/24 13:00

Lab Sample ID: 280-186724-2
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	-0.0458	U	0.768	0.768	3.00	1.51	pCi/L	01/24/24 10:12	01/30/24 13:06	1
Gross Beta	**2.14**		0.644	0.679	4.00	0.803	pCi/L	01/24/24 10:12	01/30/24 13:06	1

Client Sample ID: COMPLIANCE 02
Date Collected: 01/17/24 13:30
Date Received: 01/18/24 13:00

Lab Sample ID: 280-186724-3
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	0.267	U	0.751	0.752	3.00	1.37	pCi/L	01/24/24 10:12	01/30/24 13:06	1
Gross Beta	**0.945**		0.535	0.543	4.00	0.784	pCi/L	01/24/24 10:12	01/30/24 13:06	1

Client Sample ID: COMPLIANCE 03
Date Collected: 01/17/24 13:30
Date Received: 01/18/24 13:00

Lab Sample ID: 280-186724-4
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	-0.279	U	0.642	0.643	3.00	1.29	pCi/L	01/24/24 10:12	01/30/24 13:06	1
Gross Beta	0.522	U	0.528	0.531	4.00	0.858	pCi/L	01/24/24 10:12	01/30/24 13:06	1

Client Sample ID: CARIBOU WELL
Date Collected: 01/17/24 11:30
Date Received: 01/18/24 13:00

Lab Sample ID: 280-186724-5
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	0.726	U	0.658	0.663	3.00	1.03	pCi/L	01/24/24 10:12	01/30/24 13:06	1
Gross Beta	0.396	U	0.488	0.489	4.00	0.782	pCi/L	01/24/24 10:12	01/30/24 13:06	1

Client Sample ID: CROSS PORTAL
Date Collected: 01/17/24 12:15
Date Received: 01/18/24 13:00

Lab Sample ID: 280-186724-6
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	1.75	U	1.33	1.34	3.00	2.00	pCi/L	01/24/24 10:12	01/30/24 13:06	1
Gross Beta	**1.33**		0.669	0.682	4.00	0.938	pCi/L	01/24/24 10:12	01/30/24 13:06	1

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

Client Sample ID: CROSS PORTAL 02
Date Collected: 01/17/24 12:15
Date Received: 01/18/24 13:00

Lab Sample ID: 280-186724-7
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	1.30	U	1.07	1.08	3.00	1.63	pCi/L	01/24/24 10:12	01/30/24 13:06	1
Gross Beta	0.865	U	0.621	0.627	4.00	0.941	pCi/L	01/24/24 10:12	01/30/24 13:06	1

Client Sample ID: CARIBOU PORTAL
Date Collected: 01/17/24 11:15
Date Received: 01/18/24 13:00

Lab Sample ID: 280-186724-8
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	**5.26**		1.85	1.95	3.00	2.20	pCi/L	01/24/24 10:12	01/30/24 13:06	1
Gross Beta	**1.03**		0.717	0.725	4.00	1.02	pCi/L	01/24/24 10:12	01/30/24 13:06	1

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

Client Sample ID: CROSS WELL
Date Collected: 01/17/24 13:00
Date Received: 01/18/24 13:00

Lab Sample ID: 280-186724-1
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Cesium-137	3.96	U	10.8	10.8	20.0	18.6	pCi/L	01/24/24 12:36	01/25/24 06:26	1

Other Detected Radionuclides	*Result*	*Qualifier*	*Count Uncert. (2σ+/-)*	*Total Uncert. (2σ+/-)*	*RL*	*MDC*	*Unit*	*Prepared*	*Analyzed*	*Dil Fac*
Bi-214	*240*		*36.9*	*46.4*		*23.9*	*pCi/L*	*01/24/24 12:36*	*01/25/24 06:26*	*1*
Pb-214	*200*		*30.0*	*38.1*		*26.4*	*pCi/L*	*01/24/24 12:36*	*01/25/24 06:26*	*1*

Client Sample ID: COMPLIANCE WELL
Date Collected: 01/17/24 13:30
Date Received: 01/18/24 13:00

Lab Sample ID: 280-186724-2
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Cesium-137	-2.13	U G	12.1	12.1	20.0	21.0	pCi/L	01/24/24 12:36	01/25/24 07:47	1

Other Detected Radionuclides	*Result*	*Qualifier*	*Count Uncert. (2σ+/-)*	*Total Uncert. (2σ+/-)*	*RL*	*MDC*	*Unit*	*Prepared*	*Analyzed*	*Dil Fac*
Bi-214	*442*		*50.7*	*73.0*		*34.7*	*pCi/L*	*01/24/24 12:36*	*01/25/24 07:47*	*1*
Pb-214	*435*		*38.9*	*64.7*		*34.5*	*pCi/L*	*01/24/24 12:36*	*01/25/24 07:47*	*1*

Client Sample ID: COMPLIANCE 02
Date Collected: 01/17/24 13:30
Date Received: 01/18/24 13:00

Lab Sample ID: 280-186724-3
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Cesium-137	4.01	U	8.40	8.41	20.0	14.4	pCi/L	01/24/24 12:36	01/25/24 07:47	1

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

Other Detected Radionuclides	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Bi-214	*335*		*47.3*	*61.6*		*34.8*	*pCi/L*	*01/24/24 12:36*	*01/25/24 07:47*	*1*
Pb-214	*302*		*32.3*	*48.0*		*28.8*	*pCi/L*	*01/24/24 12:36*	*01/25/24 07:47*	*1*

Client Sample ID: COMPLIANCE 03
Date Collected: 01/17/24 13:30
Date Received: 01/18/24 13:00

Lab Sample ID: 280-186724-4
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Cesium-137	-10.4	U G	19.2	19.3	20.0	32.5	pCi/L	01/24/24 12:36	01/25/24 08:51	1

Other Detected Radionuclides	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Bi-214	*72.5*		*30.5*	*31.7*		*34.2*	*pCi/L*	*01/24/24 12:36*	*01/25/24 08:51*	*1*

Client Sample ID: CARIBOU WELL
Date Collected: 01/17/24 11:30
Date Received: 01/18/24 13:00

Lab Sample ID: 280-186724-5
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Cesium-137	-7.94	U G	12.7	12.7	20.0	21.2	pCi/L	01/24/24 12:36	01/25/24 08:52	1

Other Detected Radionuclides	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Bi-214	*184*		*32.9*	*39.6*		*28.0*	*pCi/L*	*01/24/24 12:36*	*01/25/24 08:52*	*1*
Pb-214	*114*		*25.6*	*29.0*		*26.6*	*pCi/L*	*01/24/24 12:36*	*01/25/24 08:52*	*1*

Client Sample ID: CROSS PORTAL
Date Collected: 01/17/24 12:15
Date Received: 01/18/24 13:00

Lab Sample ID: 280-186724-6
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Cesium-137	-0.949	U	9.79	9.79	20.0	17.5	pCi/L	01/24/24 12:36	01/25/24 08:52	1

Other Detected Radionuclides	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Bi-214	*61.6*		*23.1*	*24.2*		*24.9*	*pCi/L*	*01/24/24 12:36*	*01/25/24 08:52*	*1*

Client Sample ID: CROSS PORTAL 02
Date Collected: 01/17/24 12:15
Date Received: 01/18/24 13:00

Lab Sample ID: 280-186724-7
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Cesium-137	7.33	U G	15.1	15.2	20.0	25.9	pCi/L	01/24/24 12:36	01/25/24 09:53	1

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

Other Detected Radionuclides	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Pb-214	*60.9*		*23.5*	*24.6*		*21.1*	*pCi/L*	*01/24/24 12:36*	*01/25/24 09:53*	*1*

Client Sample ID: CARIBOU PORTAL
Date Collected: 01/17/24 11:15
Date Received: 01/18/24 13:00

Lab Sample ID: 280-186724-8
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Cesium-137	2.58	U	8.36	8.36	20.0	14.6	pCi/L	01/24/24 12:36	01/25/24 09:54	1

Other Detected Radionuclides	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Other Detected Radionuclide	*None*						*pCi/L*	*01/24/24 12:36*	*01/25/24 09:54*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 280-640427/1-A
Matrix: Water
Analysis Batch: 640752

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 640427

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.10	0.018	mg/L		01/19/24 08:50	01/22/24 13:41	1
Boron	ND		0.10	0.0015	mg/L		01/19/24 08:50	01/22/24 13:41	1
Iron	ND		0.10	0.0091	mg/L		01/19/24 08:50	01/22/24 13:41	1
Lithium	ND		0.020	0.0091	mg/L		01/19/24 08:50	01/22/24 13:41	1

Lab Sample ID: LCS 280-640427/2-A
Matrix: Water
Analysis Batch: 640752

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 640427

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	10.0	9.89		mg/L		99	87 - 111
Boron	2.00	1.98		mg/L		99	86 - 110
Iron	10.0	10.3		mg/L		103	85 - 115
Lithium	1.00	0.999		mg/L		100	90 - 112

Lab Sample ID: MB 280-640541/1-A
Matrix: Water
Analysis Batch: 640750

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 640541

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.10	0.018	mg/L		01/22/24 08:25	01/22/24 18:00	1
Boron	ND		0.10	0.0015	mg/L		01/22/24 08:25	01/22/24 18:00	1
Iron	0.0155	J	0.10	0.0091	mg/L		01/22/24 08:25	01/22/24 18:00	1
Lithium	ND		0.020	0.0091	mg/L		01/22/24 08:25	01/22/24 18:00	1

Lab Sample ID: LCS 280-640541/2-A
Matrix: Water
Analysis Batch: 640750

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 640541

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	10.0	9.30		mg/L		93	87 - 111
Boron	2.00	1.90		mg/L		95	86 - 110
Iron	10.0	9.62		mg/L		96	85 - 115
Lithium	1.00	0.908		mg/L		91	90 - 112

Lab Sample ID: 280-186724-8 MS
Matrix: Water
Analysis Batch: 640752

Client Sample ID: CARIBOU PORTAL
Prep Type: Dissolved
Prep Batch: 640427

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.0038	J	2.00	2.01		mg/L		100	70 - 130
Iron	0.023	J	10.0	10.4		mg/L		103	70 - 130
Lithium	ND		1.00	0.997		mg/L		100	70 - 130

Lab Sample ID: 280-186724-8 MS
Matrix: Water
Analysis Batch: 640912

Client Sample ID: CARIBOU PORTAL
Prep Type: Dissolved
Prep Batch: 640427

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	ND		10.0	9.94		mg/L		99	70 - 130

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: 280-186724-8 MSD
Matrix: Water
Analysis Batch: 640752

Client Sample ID: CARIBOU PORTAL
Prep Type: Dissolved
Prep Batch: 640427

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	0.0038	J	2.00	2.00		mg/L		100	70 - 130	1	20
Iron	0.023	J	10.0	10.3		mg/L		103	70 - 130	0	20
Lithium	ND		1.00	0.990		mg/L		99	70 - 130	1	20

Lab Sample ID: 280-186724-8 MSD
Matrix: Water
Analysis Batch: 640912

Client Sample ID: CARIBOU PORTAL
Prep Type: Dissolved
Prep Batch: 640427

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	ND		10.0	9.92		mg/L		99	70 - 130	0	20

Lab Sample ID: 280-186724-5 MS
Matrix: Water
Analysis Batch: 640750

Client Sample ID: CARIBOU WELL
Prep Type: Dissolved
Prep Batch: 640541

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	ND		10.0	10.4		mg/L		104	70 - 130
Boron	0.0051	J	2.00	2.13		mg/L		106	70 - 130
Iron	0.014	J B	10.0	10.7		mg/L		107	70 - 130
Lithium	0.013	J	1.00	1.01		mg/L		100	70 - 130

Lab Sample ID: 280-186724-5 MSD
Matrix: Water
Analysis Batch: 640750

Client Sample ID: CARIBOU WELL
Prep Type: Dissolved
Prep Batch: 640541

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	ND		10.0	9.24		mg/L		92	70 - 130	11	20
Boron	0.0051	J	2.00	1.92		mg/L		96	70 - 130	10	20
Iron	0.014	J B	10.0	9.62		mg/L		96	70 - 130	11	20
Lithium	0.013	J	1.00	0.902		mg/L		89	70 - 130	12	20

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 280-640427/1-A
Matrix: Water
Analysis Batch: 640586

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 640427

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00040	mg/L		01/19/24 08:50	01/20/24 04:16	1
Arsenic	ND		0.0050	0.00050	mg/L		01/19/24 08:50	01/20/24 04:16	1
Barium	ND		0.0030	0.00038	mg/L		01/19/24 08:50	01/20/24 04:16	1
Beryllium	ND		0.0010	0.00030	mg/L		01/19/24 08:50	01/20/24 04:16	1
Cadmium	ND		0.0010	0.00019	mg/L		01/19/24 08:50	01/20/24 04:16	1
Chromium	ND		0.0030	0.00050	mg/L		01/19/24 08:50	01/20/24 04:16	1
Cobalt	ND		0.0010	0.00033	mg/L		01/19/24 08:50	01/20/24 04:16	1
Lead	ND		0.0010	0.00023	mg/L		01/19/24 08:50	01/20/24 04:16	1
Manganese	ND		0.0030	0.00051	mg/L		01/19/24 08:50	01/20/24 04:16	1
Molybdenum	ND		0.0020	0.00037	mg/L		01/19/24 08:50	01/20/24 04:16	1
Selenium	ND		0.0050	0.0010	mg/L		01/19/24 08:50	01/20/24 04:16	1
Silver	ND		0.0010	0.000045	mg/L		01/19/24 08:50	01/20/24 04:16	1

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

Lab Sample ID: MB 280-640427/1-A
Matrix: Water
Analysis Batch: 640586

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 640427

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		0.0010	0.00021	mg/L		01/19/24 08:50	01/20/24 04:16	1
Uranium	ND		0.0010	0.000030	mg/L		01/19/24 08:50	01/20/24 04:16	1
Vanadium	ND		0.0050	0.0011	mg/L		01/19/24 08:50	01/20/24 04:16	1
Zinc	ND		0.010	0.0020	mg/L		01/19/24 08:50	01/20/24 04:16	1

Lab Sample ID: MB 280-640427/1-A
Matrix: Water
Analysis Batch: 640713

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 640427

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		0.0020	0.00071	mg/L		01/19/24 08:50	01/22/24 19:48	1
Nickel	ND		0.0030	0.00083	mg/L		01/19/24 08:50	01/22/24 19:48	1

Lab Sample ID: LCS 280-640427/13-A
Matrix: Water
Analysis Batch: 640586

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 640427

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.0400	0.0429		mg/L		107	85 - 115
Arsenic	0.0400	0.0410		mg/L		103	89 - 111
Barium	0.0400	0.0438		mg/L		110	89 - 115
Beryllium	0.0400	0.0421		mg/L		105	85 - 115
Cadmium	0.0400	0.0404		mg/L		101	89 - 111
Chromium	0.0400	0.0387		mg/L		97	86 - 115
Cobalt	0.0400	0.0395		mg/L		99	92 - 115
Lead	0.0400	0.0416		mg/L		104	88 - 115
Manganese	0.0400	0.0394		mg/L		98	87 - 115
Molybdenum	0.0400	0.0408		mg/L		102	89 - 112
Selenium	0.0400	0.0416		mg/L		104	85 - 114
Silver	0.0400	0.0407		mg/L		102	90 - 114
Thallium	0.0400	0.0423		mg/L		106	86 - 115
Uranium	0.0400	0.0399		mg/L		100	85 - 115
Vanadium	0.0400	0.0387		mg/L		97	90 - 115
Zinc	0.0400	0.0385		mg/L		96	88 - 115

Lab Sample ID: LCS 280-640427/13-A
Matrix: Water
Analysis Batch: 640713

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 640427

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Copper	0.0400	0.0417		mg/L		104	90 - 115
Nickel	0.0400	0.0419		mg/L		105	86 - 115

Lab Sample ID: MB 280-640541/1-A
Matrix: Water
Analysis Batch: 640713

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 640541

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00040	mg/L		01/22/24 08:25	01/22/24 21:37	1
Arsenic	ND		0.0050	0.00050	mg/L		01/22/24 08:25	01/22/24 21:37	1

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

Lab Sample ID: MB 280-640541/1-A
Matrix: Water
Analysis Batch: 640713

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 640541

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	ND		0.0030	0.00038	mg/L		01/22/24 08:25	01/22/24 21:37	1
Beryllium	ND		0.0010	0.00030	mg/L		01/22/24 08:25	01/22/24 21:37	1
Cadmium	ND		0.0010	0.00019	mg/L		01/22/24 08:25	01/22/24 21:37	1
Chromium	ND		0.0030	0.00050	mg/L		01/22/24 08:25	01/22/24 21:37	1
Cobalt	ND		0.0010	0.00033	mg/L		01/22/24 08:25	01/22/24 21:37	1
Copper	ND		0.0020	0.00071	mg/L		01/22/24 08:25	01/22/24 21:37	1
Lead	ND		0.0010	0.00023	mg/L		01/22/24 08:25	01/22/24 21:37	1
Manganese	ND		0.0030	0.00051	mg/L		01/22/24 08:25	01/22/24 21:37	1
Molybdenum	ND		0.0020	0.00037	mg/L		01/22/24 08:25	01/22/24 21:37	1
Nickel	ND		0.0030	0.00083	mg/L		01/22/24 08:25	01/22/24 21:37	1
Selenium	ND		0.0050	0.0010	mg/L		01/22/24 08:25	01/22/24 21:37	1
Silver	ND		0.0010	0.000045	mg/L		01/22/24 08:25	01/22/24 21:37	1
Thallium	ND		0.0010	0.00021	mg/L		01/22/24 08:25	01/22/24 21:37	1
Uranium	ND		0.0010	0.000030	mg/L		01/22/24 08:25	01/22/24 21:37	1
Vanadium	ND		0.0050	0.0011	mg/L		01/22/24 08:25	01/22/24 21:37	1
Zinc	ND		0.010	0.0020	mg/L		01/22/24 08:25	01/22/24 21:37	1

Lab Sample ID: LCS 280-640541/14-B
Matrix: Water
Analysis Batch: 640713

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 640541

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.0400	0.0407		mg/L		102	85 - 115
Arsenic	0.0400	0.0397		mg/L		99	89 - 111
Barium	0.0400	0.0406		mg/L		102	89 - 115
Beryllium	0.0400	0.0404		mg/L		101	85 - 115
Cadmium	0.0400	0.0414		mg/L		103	89 - 111
Chromium	0.0400	0.0403		mg/L		101	86 - 115
Cobalt	0.0400	0.0396		mg/L		99	92 - 115
Copper	0.0400	0.0399		mg/L		100	90 - 115
Lead	0.0400	0.0397		mg/L		99	88 - 115
Manganese	0.0400	0.0401		mg/L		100	87 - 115
Molybdenum	0.0400	0.0414		mg/L		103	89 - 112
Nickel	0.0400	0.0406		mg/L		101	86 - 115
Selenium	0.0400	0.0408		mg/L		102	85 - 114
Silver	0.0400	0.0400		mg/L		100	90 - 114
Thallium	0.0400	0.0400		mg/L		100	86 - 115
Uranium	0.0400	0.0355		mg/L		89	85 - 115
Vanadium	0.0400	0.0405		mg/L		101	90 - 115
Zinc	0.0400	0.0387		mg/L		97	88 - 115

Lab Sample ID: 280-186724-8 MS
Matrix: Water
Analysis Batch: 640586

Client Sample ID: CARIBOU PORTAL
Prep Type: Dissolved
Prep Batch: 640427

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.0021		0.0400	0.0439		mg/L		104	85 - 115
Arsenic	ND		0.0400	0.0385		mg/L		96	79 - 120
Barium	0.050		0.0400	0.0914		mg/L		105	89 - 115

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

Lab Sample ID: 280-186724-8 MS
Matrix: Water
Analysis Batch: 640586

Client Sample ID: CARIBOU PORTAL
Prep Type: Dissolved
Prep Batch: 640427

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	ND		0.0400	0.0427		mg/L		107	85 - 115
Cadmium	ND		0.0400	0.0425		mg/L		106	89 - 111
Chromium	ND		0.0400	0.0358		mg/L		89	86 - 115
Cobalt	ND	F1	0.0400	0.0357	F1	mg/L		89	92 - 115
Lead	0.00062	J	0.0400	0.0421		mg/L		104	88 - 115
Manganese	0.0010	J	0.0400	0.0367		mg/L		89	87 - 115
Molybdenum	0.0058		0.0400	0.0465		mg/L		102	89 - 112
Selenium	ND		0.0400	0.0424		mg/L		106	85 - 114
Silver	ND		0.0400	0.0412		mg/L		103	70 - 130
Thallium	ND		0.0400	0.0423		mg/L		106	86 - 115
Uranium	0.0053		0.0400	0.0464		mg/L		103	85 - 115
Vanadium	ND		0.0400	0.0371		mg/L		93	90 - 115
Zinc	0.0051	J F1	0.0400	0.0404		mg/L		88	88 - 115

Lab Sample ID: 280-186724-8 MS
Matrix: Water
Analysis Batch: 640713

Client Sample ID: CARIBOU PORTAL
Prep Type: Dissolved
Prep Batch: 640427

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Copper	0.043		0.0400	0.0832		mg/L		102	90 - 115
Nickel	ND		0.0400	0.0411		mg/L		103	86 - 115

Lab Sample ID: 280-186724-8 MSD
Matrix: Water
Analysis Batch: 640586

Client Sample ID: CARIBOU PORTAL
Prep Type: Dissolved
Prep Batch: 640427

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	0.0021		0.0400	0.0438		mg/L		104	85 - 115	0	20
Arsenic	ND		0.0400	0.0392		mg/L		98	79 - 120	2	20
Barium	0.050		0.0400	0.0913		mg/L		104	89 - 115	0	20
Beryllium	ND		0.0400	0.0431		mg/L		108	85 - 115	1	20
Cadmium	ND		0.0400	0.0417		mg/L		104	89 - 111	2	20
Chromium	ND		0.0400	0.0366		mg/L		91	86 - 115	2	20
Cobalt	ND	F1	0.0400	0.0356	F1	mg/L		89	92 - 115	0	20
Lead	0.00062	J	0.0400	0.0422		mg/L		104	88 - 115	0	20
Manganese	0.0010	J	0.0400	0.0366		mg/L		89	87 - 115	0	20
Molybdenum	0.0058		0.0400	0.0465		mg/L		102	89 - 112	0	20
Selenium	ND		0.0400	0.0414		mg/L		104	85 - 114	2	20
Silver	ND		0.0400	0.0403		mg/L		101	70 - 130	2	20
Thallium	ND		0.0400	0.0421		mg/L		105	86 - 115	1	20
Uranium	0.0053		0.0400	0.0458		mg/L		101	85 - 115	1	20
Vanadium	ND		0.0400	0.0368		mg/L		92	90 - 115	1	20
Zinc	0.0051	J F1	0.0400	0.0382	F1	mg/L		83	88 - 115	6	20

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

Lab Sample ID: 280-186724-8 MSD
Matrix: Water
Analysis Batch: 640713

Client Sample ID: CARIBOU PORTAL
Prep Type: Dissolved
Prep Batch: 640427

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Copper	0.043		0.0400	0.0831		mg/L		102	90 - 115	0	20
Nickel	ND		0.0400	0.0405		mg/L		101	86 - 115	1	20

Lab Sample ID: 280-186724-5 MS
Matrix: Water
Analysis Batch: 640713

Client Sample ID: CARIBOU WELL
Prep Type: Dissolved
Prep Batch: 640541

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.00058	J	0.0400	0.0425		mg/L		105	85 - 115
Arsenic	0.00054	J	0.0400	0.0411		mg/L		101	79 - 120
Barium	0.060		0.0400	0.101		mg/L		101	89 - 115
Beryllium	ND		0.0400	0.0413		mg/L		103	85 - 115
Cadmium	ND		0.0400	0.0425		mg/L		106	89 - 111
Chromium	ND		0.0400	0.0407		mg/L		102	86 - 115
Cobalt	ND		0.0400	0.0390		mg/L		98	92 - 115
Copper	ND		0.0400	0.0393		mg/L		98	90 - 115
Lead	0.00023	J	0.0400	0.0399		mg/L		100	88 - 115
Manganese	0.0026	J	0.0400	0.0418		mg/L		98	87 - 115
Molybdenum	0.0070		0.0400	0.0485		mg/L		104	89 - 112
Nickel	ND		0.0400	0.0387		mg/L		97	86 - 115
Selenium	ND		0.0400	0.0403		mg/L		101	85 - 114
Silver	ND		0.0400	0.0403		mg/L		101	70 - 130
Thallium	ND		0.0400	0.0397		mg/L		99	86 - 115
Uranium	0.0058		0.0400	0.0433		mg/L		94	85 - 115
Vanadium	ND		0.0400	0.0420		mg/L		105	90 - 115
Zinc	0.0064	J	0.0400	0.0455		mg/L		98	88 - 115

Lab Sample ID: 280-186724-5 MSD
Matrix: Water
Analysis Batch: 640713

Client Sample ID: CARIBOU WELL
Prep Type: Dissolved
Prep Batch: 640541

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	0.00058	J	0.0400	0.0430		mg/L		106	85 - 115	1	20
Arsenic	0.00054	J	0.0400	0.0415		mg/L		102	79 - 120	1	20
Barium	0.060		0.0400	0.102		mg/L		103	89 - 115	1	20
Beryllium	ND		0.0400	0.0417		mg/L		104	85 - 115	1	20
Cadmium	ND		0.0400	0.0428		mg/L		107	89 - 111	1	20
Chromium	ND		0.0400	0.0407		mg/L		102	86 - 115	0	20
Cobalt	ND		0.0400	0.0387		mg/L		97	92 - 115	1	20
Copper	ND		0.0400	0.0399		mg/L		100	90 - 115	2	20
Lead	0.00023	J	0.0400	0.0403		mg/L		101	88 - 115	1	20
Manganese	0.0026	J	0.0400	0.0430		mg/L		101	87 - 115	3	20
Molybdenum	0.0070		0.0400	0.0488		mg/L		105	89 - 112	1	20
Nickel	ND		0.0400	0.0392		mg/L		98	86 - 115	1	20
Selenium	ND		0.0400	0.0417		mg/L		104	85 - 114	3	20
Silver	ND		0.0400	0.0406		mg/L		101	70 - 130	1	20
Thallium	ND		0.0400	0.0406		mg/L		102	86 - 115	2	20
Uranium	0.0058		0.0400	0.0434		mg/L		94	85 - 115	0	20
Vanadium	ND		0.0400	0.0407		mg/L		102	90 - 115	3	20

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

Lab Sample ID: 280-186724-5 MSD
Matrix: Water
Analysis Batch: 640713

Client Sample ID: CARIBOU WELL
Prep Type: Dissolved
Prep Batch: 640541

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Zinc	0.0064	J	0.0400	0.0456		mg/L		98	88 - 115	0	20

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 280-640791/1-A
Matrix: Water
Analysis Batch: 640899

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 640791

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000061	mg/L		01/23/24 14:30	01/23/24 18:21	1

Lab Sample ID: LCS 280-640791/2-A
Matrix: Water
Analysis Batch: 640899

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 640791

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00500	0.00491		mg/L		98	90 - 110

Lab Sample ID: 280-186725-B-12-D MS
Matrix: Water
Analysis Batch: 640899

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 640791

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		0.00500	0.00424		mg/L		85	80 - 120

Lab Sample ID: 280-186725-B-12-E MSD
Matrix: Water
Analysis Batch: 640899

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 640791

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.00500	0.00427		mg/L		85	80 - 120	1	10

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 280-640403/39
Matrix: Water
Analysis Batch: 640403

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			01/19/24 02:38	1
Nitrite as N	ND		0.50	0.049	mg/L			01/19/24 02:38	1

Lab Sample ID: MB 280-640403/6
Matrix: Water
Analysis Batch: 640403

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			01/18/24 14:09	1
Nitrite as N	ND		0.50	0.049	mg/L			01/18/24 14:09	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 280-640403/37
Matrix: Water
Analysis Batch: 640403

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	4.86		mg/L		97	90 - 110
Nitrite as N	5.00	5.12		mg/L		102	90 - 110

Lab Sample ID: LCS 280-640403/4
Matrix: Water
Analysis Batch: 640403

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	4.80		mg/L		96	90 - 110
Nitrite as N	5.00	5.04		mg/L		101	90 - 110

Lab Sample ID: LCSD 280-640403/38
Matrix: Water
Analysis Batch: 640403

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	4.85		mg/L		97	90 - 110	0	10
Nitrite as N	5.00	5.11		mg/L		102	90 - 110	0	10

Lab Sample ID: LCSD 280-640403/5
Matrix: Water
Analysis Batch: 640403

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	4.80		mg/L		96	90 - 110	0	10
Nitrite as N	5.00	5.04		mg/L		101	90 - 110	0	10

Lab Sample ID: MRL 280-640403/3
Matrix: Water
Analysis Batch: 640403

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.500	0.497	J	mg/L		99	50 - 150
Nitrite as N	0.500	0.530		mg/L		106	50 - 150

Lab Sample ID: 280-186706-A-1 MS
Matrix: Water
Analysis Batch: 640403

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 as N	0.16	J F1	5.00	6.58	F1	mg/L		128	80 - 120
Nitrite as N	ND	F1	5.00	7.61	F1	mg/L		152	80 - 120

Lab Sample ID: 280-186706-A-1 MSD
Matrix: Water
Analysis Batch: 640403

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 as N	0.16	J F1	5.00	7.13	F1	mg/L		139	80 - 120	8	20
Nitrite as N	ND	F1	5.00	8.65	F1	mg/L		173	80 - 120	13	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 280-186714-C-4 MS
Matrix: Water
Analysis Batch: 640403

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 as N	0.99	F2 F1	5.00	6.21		mg/L		105	80 - 120		
Nitrite as N	ND	F2 F1	5.00	10.9	E F1	mg/L		219	80 - 120		

Lab Sample ID: 280-186714-C-4 MSD
Matrix: Water
Analysis Batch: 640403

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 as N	0.99	F2 F1	5.00	8.26	F1 F2	mg/L		145	80 - 120	28	20
Nitrite as N	ND	F2 F1	5.00	14.4	E F1 F2	mg/L		289	80 - 120	28	20

Lab Sample ID: 280-186715-C-10 MS
Matrix: Water
Analysis Batch: 640403

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 as N	4.3	F1	5.00	11.4	E F1	mg/L		142	80 - 120		
Nitrite as N	ND	F1	5.00	13.9	E F1	mg/L		278	80 - 120		

Lab Sample ID: 280-186715-C-10 MSD
Matrix: Water
Analysis Batch: 640403

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 as N	4.3	F1	5.00	11.3	E F1	mg/L		140	80 - 120	1	20
Nitrite as N	ND	F1	5.00	14.2	E F1	mg/L		284	80 - 120	2	20

Lab Sample ID: 280-186706-A-1 DU
Matrix: Water
Analysis Batch: 640403

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Nitrate as N	0.16	J F1		0.158	J	mg/L				0.7	15
Nitrite as N	ND	F1		ND		mg/L				NC	15

Lab Sample ID: 280-186714-C-4 DU
Matrix: Water
Analysis Batch: 640403

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Nitrate as N	0.99	F2 F1		0.985		mg/L				0.3	15
Nitrite as N	ND	F2 F1		ND		mg/L				NC	15

Lab Sample ID: 280-186715-C-10 DU
Matrix: Water
Analysis Batch: 640403

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Nitrate as N	4.3	F1		4.24		mg/L				0.5	15
Nitrite as N	ND	F1		ND		mg/L				NC	15

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 280-640404/39
Matrix: Water
Analysis Batch: 640404

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			01/19/24 02:38	1

Lab Sample ID: MB 280-640404/6
Matrix: Water
Analysis Batch: 640404

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			01/18/24 14:09	1

Lab Sample ID: LCS 280-640404/37
Matrix: Water
Analysis Batch: 640404

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	5.00	4.93		mg/L		99	90 - 110

Lab Sample ID: LCS 280-640404/4
Matrix: Water
Analysis Batch: 640404

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	5.00	5.19		mg/L		104	90 - 110

Lab Sample ID: LCSD 280-640404/38
Matrix: Water
Analysis Batch: 640404

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	5.01		mg/L		100	90 - 110	2	10

Lab Sample ID: LCSD 280-640404/5
Matrix: Water
Analysis Batch: 640404

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	5.24		mg/L		105	90 - 110	1	10

Lab Sample ID: MRL 280-640404/3
Matrix: Water
Analysis Batch: 640404

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.500	0.595		mg/L		119	50 - 150

Lab Sample ID: 280-186706-A-1 MS
Matrix: Water
Analysis Batch: 640404

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
Fluoride	0.73	F1	5.00	6.76	F1	mg/L		121	80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 280-186706-A-1 MSD
Matrix: Water
Analysis Batch: 640404

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	0.73	F1	5.00	7.28	F1	mg/L		131	80 - 120	7	20

Lab Sample ID: 280-186706-A-1 DU
Matrix: Water
Analysis Batch: 640404

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride	0.73	F1	0.741		mg/L		1	15

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 280-640814/21
Matrix: Water
Analysis Batch: 640814

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			01/23/24 14:16	1

Lab Sample ID: MB 280-640814/61
Matrix: Water
Analysis Batch: 640814

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			01/23/24 15:06	1

Lab Sample ID: LCS 280-640814/20
Matrix: Water
Analysis Batch: 640814

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	4.98		mg/L		100	90 - 110

Lab Sample ID: LCS 280-640814/60
Matrix: Water
Analysis Batch: 640814

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	4.93		mg/L		99	90 - 110

Lab Sample ID: 160-52729-A-2 MS
Matrix: Water
Analysis Batch: 640814

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	0.44		4.00	4.47		mg/L		101	90 - 110

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

Lab Sample ID: 160-52729-A-2 MSD
Matrix: Water
Analysis Batch: 640814

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	0.44		4.00	4.50		mg/L		102	90 - 110	1	10

Lab Sample ID: 160-52729-A-6 MS
Matrix: Water
Analysis Batch: 640814

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	4.6		8.00	12.5		mg/L		99	90 - 110

Lab Sample ID: 160-52729-A-6 MSD
Matrix: Water
Analysis Batch: 640814

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	4.6		8.00	12.4		mg/L		97	90 - 110	1	10

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

Lab Sample ID: MB 280-640470/1
Matrix: Water
Analysis Batch: 640470

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			01/19/24 09:08	1

Lab Sample ID: LCS 280-640470/2
Matrix: Water
Analysis Batch: 640470

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)	502	486		mg/L		97	88 - 114

Lab Sample ID: 280-186729-J-1 DU
Matrix: Water
Analysis Batch: 640470

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		203		mg/L		NC	10

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 280-641335/15
Matrix: Water
Analysis Batch: 641335

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			01/29/24 17:58	1

Method: SM 4500 Cl- E - Chloride, Total (Continued)

Lab Sample ID: LCS 280-641335/13
Matrix: Water
Analysis Batch: 641335

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	20.0		mg/L		100	90 - 110

Lab Sample ID: LCSD 280-641335/14
Matrix: Water
Analysis Batch: 641335

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	20.1		mg/L		101	90 - 110	1	10

Lab Sample ID: 280-186724-7 MS
Matrix: Water
Analysis Batch: 641335

Client Sample ID: CROSS PORTAL 02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	ND		20.0	20.6		mg/L		103	90 - 110

Lab Sample ID: 280-186724-7 MSD
Matrix: Water
Analysis Batch: 641335

Client Sample ID: CROSS PORTAL 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		20.0	20.8		mg/L		104	90 - 110	1	10

Lab Sample ID: 280-186724-8 MS
Matrix: Water
Analysis Batch: 641335

Client Sample ID: CARIBOU PORTAL
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	ND		20.0	20.8		mg/L		104	90 - 110

Lab Sample ID: 280-186724-8 MSD
Matrix: Water
Analysis Batch: 641335

Client Sample ID: CARIBOU PORTAL
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		20.0	20.8		mg/L		104	90 - 110	0	10

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

Lab Sample ID: MB 280-640811/15
Matrix: Water
Analysis Batch: 640811

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			01/23/24 13:02	1

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

Lab Sample ID: HLCS 280-640811/18
Matrix: Water
Analysis Batch: 640811

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	0.343		mg/L		98	75 - 120

Lab Sample ID: LCS 280-640811/16
Matrix: Water
Analysis Batch: 640811

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Free	0.0999	0.104		mg/L		104	90 - 110

Lab Sample ID: LLCS 280-640811/17
Matrix: Water
Analysis Batch: 640811

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	0.0997		mg/L		100	75 - 120

Lab Sample ID: 280-186559-A-2 MS
Matrix: Water
Analysis Batch: 640811

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	F2	0.0999	0.107		mg/L		107	75 - 120

Lab Sample ID: 280-186559-A-2 MSD
Matrix: Water
Analysis Batch: 640811

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	F2	0.200	0.207	F2	mg/L		103	75 - 120	64	20

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 280-641325/14
Matrix: Water
Analysis Batch: 641325

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			01/29/24 14:13	1

Lab Sample ID: LCS 280-641325/12
Matrix: Water
Analysis Batch: 641325

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	25.6		mg/L		102	90 - 110

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

Lab Sample ID: LCSD 280-641325/13
Matrix: Water
Analysis Batch: 641325

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	25.6		mg/L		103	90 - 110	0	10

Lab Sample ID: 280-186724-4 MS
Matrix: Water
Analysis Batch: 641325

Client Sample ID: COMPLIANCE 03
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfate	ND		25.0	25.4		mg/L		102	90 - 110		

Lab Sample ID: 280-186724-4 MSD
Matrix: Water
Analysis Batch: 641325

Client Sample ID: COMPLIANCE 03
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	ND		25.0	26.6		mg/L		106	90 - 110	5	10

Lab Sample ID: 280-186724-5 MS
Matrix: Water
Analysis Batch: 641325

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfate	2.4	J	25.0	28.2		mg/L		103	90 - 110		

Lab Sample ID: 280-186724-5 MSD
Matrix: Water
Analysis Batch: 641325

Client Sample ID: CARIBOU 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	2.4	J	25.0	28.1		mg/L		103	90 - 110	0	10

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Lab Sample ID: MB 160-645454/1-A
Matrix: Water
Analysis Batch: 646054

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 645454

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	0.01947	U	0.439	0.439	3.00	0.861	pCi/L	01/24/24 10:12	01/30/24 12:50	1
Gross Beta	0.1233	U	0.472	0.472	4.00	0.829	pCi/L	01/24/24 10:12	01/30/24 12:50	1

Lab Sample ID: LCS 160-645454/2-A
Matrix: Water
Analysis Batch: 646064

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 645454

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Gross Alpha			49.3	53.47		8.01	3.00	2.70	pCi/L	109	75 - 125		

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

Lab Sample ID: LCSB 160-645454/3-A
Matrix: Water
Analysis Batch: 646064

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 645454

Analyte			Spike Added	LCSB Result	LCSB Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Gross Beta			72.0	70.47		7.58	4.00	1.01	pCi/L	98	75 - 125		

Lab Sample ID: 380-79519-A-1-D MS
Matrix: Water
Analysis Batch: 646064

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 645454

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Gross Alpha	6.91		109	66.37	F1	10.3	3.00	2.78	pCi/L	54	60 - 140		

Lab Sample ID: 380-79519-A-1-E MSBT
Matrix: Water
Analysis Batch: 646064

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 645454

Analyte	Sample Result	Sample Qual	Spike Added	MSBT Result	MSBT Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Gross Beta	6.37		160	158.4		16.4	4.00	0.809	pCi/L	95	60 - 140		

Lab Sample ID: 380-79519-A-1-F DU
Matrix: Water
Analysis Batch: 646064

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 645454

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Gross Alpha	6.91			6.389	G	4.08	3.00	3.70	pCi/L			0.07	1
Gross Beta	6.37			5.951		1.44	4.00	0.925	pCi/L			0.15	1

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

Lab Sample ID: MB 160-645478/1-A
Matrix: Water
Analysis Batch: 645632

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 645478

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Cesium-137	5.988	U G	13.4	13.5	20.0	23.2	pCi/L	01/24/24 12:36	01/25/24 06:25	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*	*01/24/24 12:36*	*01/25/24 06:25*	*1*

Lab Sample ID: LCS 160-645478/2-A
Matrix: Water
Analysis Batch: 645631

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 645478

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Americium-241			135000	153800		18300		416	pCi/L	114	75 - 125		

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

Lab Sample ID: LCS 160-645478/2-A
Matrix: Water
Analysis Batch: 645631

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 645478

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Cesium-137			40100	41620		4960	20.0	108	pCi/L	104	75 - 125		
Cobalt-60			16000	16840		2010		75.9	pCi/L	105	75 - 125		

Lab Sample ID: 280-186724-1 DU
Matrix: Water
Analysis Batch: 645632

Client Sample ID: CROSS WELL
Prep Type: Dissolved
Prep Batch: 645478

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Cesium-137	3.96	U		-11.98	U G	20.3	20.0	34.0	pCi/L			0.51	1
Other Detected Radionuclides	***Sample Result***	***Sample Qual***		***DU Result***	***DU Qual***	***Total Uncert. (2σ+/-)***	***RL***	***MDC***	***Unit***			***RER***	***RER Limit***
Bi-214	*240*			*195.8*		*48.0*		*34.4*	*pCi/L*			*0.47*	*1*
Pb-214	*200*			*224.9*		*41.2*		*21.1*	*pCi/L*			*0.31*	*1*

Metals

Prep Batch: 640427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186724-1	CROSS WELL	Dissolved	Water	200.7	
280-186724-2	COMPLIANCE WELL	Dissolved	Water	200.7	
280-186724-3	COMPLIANCE 02	Dissolved	Water	200.8	
280-186724-4	COMPLIANCE 03	Dissolved	Water	200.8	
280-186724-6	CROSS PORTAL	Dissolved	Water	200.7	
280-186724-7	CROSS PORTAL 02	Dissolved	Water	200.8	
280-186724-8	CARIBOU PORTAL	Dissolved	Water	200.7	
280-186724-8	CARIBOU PORTAL	Dissolved	Water	200.8	
MB 280-640427/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 280-640427/13-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCS 280-640427/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
280-186724-8 MS	CARIBOU PORTAL	Dissolved	Water	200.7	
280-186724-8 MS	CARIBOU PORTAL	Dissolved	Water	200.8	
280-186724-8 MSD	CARIBOU PORTAL	Dissolved	Water	200.7	
280-186724-8 MSD	CARIBOU PORTAL	Dissolved	Water	200.8	

Prep Batch: 640541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186724-5	CARIBOU WELL	Dissolved	Water	200.7	
280-186724-5	CARIBOU WELL	Dissolved	Water	200.8	
MB 280-640541/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 280-640541/14-B	Lab Control Sample	Total Recoverable	Water	200.7	
LCS 280-640541/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
280-186724-5 MS	CARIBOU WELL	Dissolved	Water	200.7	
280-186724-5 MS	CARIBOU WELL	Dissolved	Water	200.8	
280-186724-5 MSD	CARIBOU WELL	Dissolved	Water	200.7	
280-186724-5 MSD	CARIBOU WELL	Dissolved	Water	200.8	

Analysis Batch: 640586

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186724-1	CROSS WELL	Dissolved	Water	200.8	640427
280-186724-2	COMPLIANCE WELL	Dissolved	Water	200.8	640427
280-186724-3	COMPLIANCE 02	Dissolved	Water	200.8	640427
280-186724-4	COMPLIANCE 03	Dissolved	Water	200.8	640427
280-186724-6	CROSS PORTAL	Dissolved	Water	200.8	640427
280-186724-7	CROSS PORTAL 02	Dissolved	Water	200.8	640427
280-186724-8	CARIBOU PORTAL	Dissolved	Water	200.8	640427
MB 280-640427/1-A	Method Blank	Total Recoverable	Water	200.8	640427
LCS 280-640427/13-A	Lab Control Sample	Total Recoverable	Water	200.8	640427
280-186724-8 MS	CARIBOU PORTAL	Dissolved	Water	200.8	640427
280-186724-8 MSD	CARIBOU PORTAL	Dissolved	Water	200.8	640427

Analysis Batch: 640713

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186724-1	CROSS WELL	Dissolved	Water	200.8	640427
280-186724-2	COMPLIANCE WELL	Dissolved	Water	200.8	640427
280-186724-3	COMPLIANCE 02	Dissolved	Water	200.8	640427
280-186724-4	COMPLIANCE 03	Dissolved	Water	200.8	640427
280-186724-5	CARIBOU WELL	Dissolved	Water	200.8	640541
280-186724-6	CROSS PORTAL	Dissolved	Water	200.8	640427
280-186724-7	CROSS PORTAL 02	Dissolved	Water	200.8	640427

Metals (Continued)

Analysis Batch: 640713 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186724-8	CARIBOU PORTAL	Dissolved	Water	200.8	640427
MB 280-640427/1-A	Method Blank	Total Recoverable	Water	200.8	640427
MB 280-640541/1-A	Method Blank	Total Recoverable	Water	200.8	640541
LCS 280-640427/13-A	Lab Control Sample	Total Recoverable	Water	200.8	640427
LCS 280-640541/14-B	Lab Control Sample	Total Recoverable	Water	200.8	640541
280-186724-5 MS	CARIBOU WELL	Dissolved	Water	200.8	640541
280-186724-5 MSD	CARIBOU WELL	Dissolved	Water	200.8	640541
280-186724-8 MS	CARIBOU PORTAL	Dissolved	Water	200.8	640427
280-186724-8 MSD	CARIBOU PORTAL	Dissolved	Water	200.8	640427

Analysis Batch: 640750

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186724-5	CARIBOU WELL	Dissolved	Water	200.7 Rev 4.4	640541
MB 280-640541/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	640541
LCS 280-640541/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	640541
280-186724-5 MS	CARIBOU WELL	Dissolved	Water	200.7 Rev 4.4	640541
280-186724-5 MSD	CARIBOU WELL	Dissolved	Water	200.7 Rev 4.4	640541

Analysis Batch: 640752

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186724-1	CROSS WELL	Dissolved	Water	200.7 Rev 4.4	640427
280-186724-2	COMPLIANCE WELL	Dissolved	Water	200.7 Rev 4.4	640427
280-186724-3	COMPLIANCE 02	Dissolved	Water	200.7 Rev 4.4	640427
280-186724-4	COMPLIANCE 03	Dissolved	Water	200.7 Rev 4.4	640427
280-186724-6	CROSS PORTAL	Dissolved	Water	200.7 Rev 4.4	640427
280-186724-7	CROSS PORTAL 02	Dissolved	Water	200.7 Rev 4.4	640427
280-186724-8	CARIBOU PORTAL	Dissolved	Water	200.7 Rev 4.4	640427
MB 280-640427/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	640427
LCS 280-640427/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	640427
280-186724-8 MS	CARIBOU PORTAL	Dissolved	Water	200.7 Rev 4.4	640427
280-186724-8 MSD	CARIBOU PORTAL	Dissolved	Water	200.7 Rev 4.4	640427

Prep Batch: 640791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186724-1	CROSS WELL	Dissolved	Water	245.1	
280-186724-2	COMPLIANCE WELL	Dissolved	Water	245.1	
280-186724-3	COMPLIANCE 02	Dissolved	Water	245.1	
280-186724-4	COMPLIANCE 03	Dissolved	Water	245.1	
280-186724-5	CARIBOU WELL	Dissolved	Water	245.1	
280-186724-6	CROSS PORTAL	Dissolved	Water	245.1	
280-186724-7	CROSS PORTAL 02	Dissolved	Water	245.1	
280-186724-8	CARIBOU PORTAL	Dissolved	Water	245.1	
MB 280-640791/1-A	Method Blank	Total/NA	Water	245.1	
LCS 280-640791/2-A	Lab Control Sample	Total/NA	Water	245.1	
280-186725-B-12-D MS	Matrix Spike	Dissolved	Water	245.1	
280-186725-B-12-E MSD	Matrix Spike Duplicate	Dissolved	Water	245.1	

Analysis Batch: 640899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186724-1	CROSS WELL	Dissolved	Water	245.1	640791
280-186724-2	COMPLIANCE WELL	Dissolved	Water	245.1	640791

Metals (Continued)

Analysis Batch: 640899 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186724-3	COMPLIANCE 02	Dissolved	Water	245.1	640791
280-186724-4	COMPLIANCE 03	Dissolved	Water	245.1	640791
280-186724-5	CARIBOU WELL	Dissolved	Water	245.1	640791
280-186724-6	CROSS PORTAL	Dissolved	Water	245.1	640791
280-186724-7	CROSS PORTAL 02	Dissolved	Water	245.1	640791
280-186724-8	CARIBOU PORTAL	Dissolved	Water	245.1	640791
MB 280-640791/1-A	Method Blank	Total/NA	Water	245.1	640791
LCS 280-640791/2-A	Lab Control Sample	Total/NA	Water	245.1	640791
280-186725-B-12-D MS	Matrix Spike	Dissolved	Water	245.1	640791
280-186725-B-12-E MSD	Matrix Spike Duplicate	Dissolved	Water	245.1	640791

Analysis Batch: 640912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186724-1	CROSS WELL	Dissolved	Water	200.7 Rev 4.4	640427
280-186724-2	COMPLIANCE WELL	Dissolved	Water	200.7 Rev 4.4	640427
280-186724-3	COMPLIANCE 02	Dissolved	Water	200.7 Rev 4.4	640427
280-186724-4	COMPLIANCE 03	Dissolved	Water	200.7 Rev 4.4	640427
280-186724-6	CROSS PORTAL	Dissolved	Water	200.7 Rev 4.4	640427
280-186724-7	CROSS PORTAL 02	Dissolved	Water	200.7 Rev 4.4	640427
280-186724-8	CARIBOU PORTAL	Dissolved	Water	200.7 Rev 4.4	640427
280-186724-8 MS	CARIBOU PORTAL	Dissolved	Water	200.7 Rev 4.4	640427
280-186724-8 MSD	CARIBOU PORTAL	Dissolved	Water	200.7 Rev 4.4	640427

General Chemistry

Analysis Batch: 640403

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186724-1	CROSS WELL	Total/NA	Water	300.0	
280-186724-2	COMPLIANCE WELL	Total/NA	Water	300.0	
280-186724-3	COMPLIANCE 02	Total/NA	Water	300.0	
280-186724-4	COMPLIANCE 03	Total/NA	Water	300.0	
280-186724-5	CARIBOU WELL	Total/NA	Water	300.0	
280-186724-6	CROSS PORTAL	Total/NA	Water	300.0	
280-186724-7	CROSS PORTAL 02	Total/NA	Water	300.0	
280-186724-8	CARIBOU PORTAL	Total/NA	Water	300.0	
MB 280-640403/39	Method Blank	Total/NA	Water	300.0	
MB 280-640403/6	Method Blank	Total/NA	Water	300.0	
LCS 280-640403/37	Lab Control Sample	Total/NA	Water	300.0	
LCS 280-640403/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-640403/38	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 280-640403/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-640403/3	Lab Control Sample	Total/NA	Water	300.0	
280-186706-A-1 MS	Matrix Spike	Total/NA	Water	300.0	
280-186706-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
280-186714-C-4 MS	Matrix Spike	Total/NA	Water	300.0	
280-186714-C-4 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
280-186715-C-10 MS	Matrix Spike	Total/NA	Water	300.0	
280-186715-C-10 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
280-186706-A-1 DU	Duplicate	Total/NA	Water	300.0	
280-186714-C-4 DU	Duplicate	Total/NA	Water	300.0	
280-186715-C-10 DU	Duplicate	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 640404

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186724-1	CROSS WELL	Total/NA	Water	300.0	
280-186724-2	COMPLIANCE WELL	Total/NA	Water	300.0	
280-186724-3	COMPLIANCE 02	Total/NA	Water	300.0	
280-186724-4	COMPLIANCE 03	Total/NA	Water	300.0	
280-186724-5	CARIBOU WELL	Total/NA	Water	300.0	
280-186724-6	CROSS PORTAL	Total/NA	Water	300.0	
280-186724-7	CROSS PORTAL 02	Total/NA	Water	300.0	
280-186724-8	CARIBOU PORTAL	Total/NA	Water	300.0	
MB 280-640404/39	Method Blank	Total/NA	Water	300.0	
MB 280-640404/6	Method Blank	Total/NA	Water	300.0	
LCS 280-640404/37	Lab Control Sample	Total/NA	Water	300.0	
LCS 280-640404/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-640404/38	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 280-640404/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-640404/3	Lab Control Sample	Total/NA	Water	300.0	
280-186706-A-1 MS	Matrix Spike	Total/NA	Water	300.0	
280-186706-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
280-186706-A-1 DU	Duplicate	Total/NA	Water	300.0	

Analysis Batch: 640470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186724-1	CROSS WELL	Total/NA	Water	SM 2540C	
280-186724-2	COMPLIANCE WELL	Total/NA	Water	SM 2540C	
280-186724-3	COMPLIANCE 02	Total/NA	Water	SM 2540C	
280-186724-4	COMPLIANCE 03	Total/NA	Water	SM 2540C	
280-186724-5	CARIBOU WELL	Total/NA	Water	SM 2540C	
280-186724-6	CROSS PORTAL	Total/NA	Water	SM 2540C	
280-186724-7	CROSS PORTAL 02	Total/NA	Water	SM 2540C	
280-186724-8	CARIBOU PORTAL	Total/NA	Water	SM 2540C	
MB 280-640470/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-640470/2	Lab Control Sample	Total/NA	Water	SM 2540C	
280-186729-J-1 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 640811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186724-1	CROSS WELL	Total/NA	Water	SM 4500 CN I	
280-186724-2	COMPLIANCE WELL	Total/NA	Water	SM 4500 CN I	
280-186724-3	COMPLIANCE 02	Total/NA	Water	SM 4500 CN I	
280-186724-4	COMPLIANCE 03	Total/NA	Water	SM 4500 CN I	
280-186724-5	CARIBOU WELL	Total/NA	Water	SM 4500 CN I	
280-186724-6	CROSS PORTAL	Total/NA	Water	SM 4500 CN I	
280-186724-7	CROSS PORTAL 02	Total/NA	Water	SM 4500 CN I	
280-186724-8	CARIBOU PORTAL	Total/NA	Water	SM 4500 CN I	
MB 280-640811/15	Method Blank	Total/NA	Water	SM 4500 CN I	
HLCS 280-640811/18	Lab Control Sample	Total/NA	Water	SM 4500 CN I	
LCS 280-640811/16	Lab Control Sample	Total/NA	Water	SM 4500 CN I	
LLCS 280-640811/17	Lab Control Sample	Total/NA	Water	SM 4500 CN I	
280-186559-A-2 MS	Matrix Spike	Total/NA	Water	SM 4500 CN I	
280-186559-A-2 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 CN I	

General Chemistry

Analysis Batch: 640814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186724-1	CROSS WELL	Total/NA	Water	353.2	
280-186724-2	COMPLIANCE WELL	Total/NA	Water	353.2	
280-186724-3	COMPLIANCE 02	Total/NA	Water	353.2	
280-186724-4	COMPLIANCE 03	Total/NA	Water	353.2	
280-186724-5	CARIBOU WELL	Total/NA	Water	353.2	
280-186724-6	CROSS PORTAL	Total/NA	Water	353.2	
280-186724-7	CROSS PORTAL 02	Total/NA	Water	353.2	
280-186724-8	CARIBOU PORTAL	Total/NA	Water	353.2	
MB 280-640814/21	Method Blank	Total/NA	Water	353.2	
MB 280-640814/61	Method Blank	Total/NA	Water	353.2	
LCS 280-640814/20	Lab Control Sample	Total/NA	Water	353.2	
LCS 280-640814/60	Lab Control Sample	Total/NA	Water	353.2	
160-52729-A-2 MS	Matrix Spike	Total/NA	Water	353.2	
160-52729-A-2 MSD	Matrix Spike Duplicate	Total/NA	Water	353.2	
160-52729-A-6 MS	Matrix Spike	Total/NA	Water	353.2	
160-52729-A-6 MSD	Matrix Spike Duplicate	Total/NA	Water	353.2	

Analysis Batch: 641325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186724-1	CROSS WELL	Total/NA	Water	SM 4500 SO4 E	
280-186724-2	COMPLIANCE WELL	Total/NA	Water	SM 4500 SO4 E	
280-186724-3	COMPLIANCE 02	Total/NA	Water	SM 4500 SO4 E	
280-186724-4	COMPLIANCE 03	Total/NA	Water	SM 4500 SO4 E	
280-186724-5	CARIBOU WELL	Total/NA	Water	SM 4500 SO4 E	
280-186724-6	CROSS PORTAL	Total/NA	Water	SM 4500 SO4 E	
280-186724-7	CROSS PORTAL 02	Total/NA	Water	SM 4500 SO4 E	
280-186724-8	CARIBOU PORTAL	Total/NA	Water	SM 4500 SO4 E	
MB 280-641325/14	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 280-641325/12	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
LCSD 280-641325/13	Lab Control Sample Dup	Total/NA	Water	SM 4500 SO4 E	
280-186724-4 MS	COMPLIANCE 03	Total/NA	Water	SM 4500 SO4 E	
280-186724-4 MSD	COMPLIANCE 03	Total/NA	Water	SM 4500 SO4 E	
280-186724-5 MS	CARIBOU WELL	Total/NA	Water	SM 4500 SO4 E	
280-186724-5 MSD	CARIBOU WELL	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 641335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186724-1	CROSS WELL	Total/NA	Water	SM 4500 Cl- E	
280-186724-2	COMPLIANCE WELL	Total/NA	Water	SM 4500 Cl- E	
280-186724-3	COMPLIANCE 02	Total/NA	Water	SM 4500 Cl- E	
280-186724-4	COMPLIANCE 03	Total/NA	Water	SM 4500 Cl- E	
280-186724-5	CARIBOU WELL	Total/NA	Water	SM 4500 Cl- E	
280-186724-6	CROSS PORTAL	Total/NA	Water	SM 4500 Cl- E	
280-186724-7	CROSS PORTAL 02	Total/NA	Water	SM 4500 Cl- E	
280-186724-8	CARIBOU PORTAL	Total/NA	Water	SM 4500 Cl- E	
MB 280-641335/15	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 280-641335/13	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
LCSD 280-641335/14	Lab Control Sample Dup	Total/NA	Water	SM 4500 Cl- E	
280-186724-7 MS	CROSS PORTAL 02	Total/NA	Water	SM 4500 Cl- E	
280-186724-7 MSD	CROSS PORTAL 02	Total/NA	Water	SM 4500 Cl- E	
280-186724-8 MS	CARIBOU PORTAL	Total/NA	Water	SM 4500 Cl- E	

General Chemistry (Continued)

Analysis Batch: 641335 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186724-8 MSD	CARIBOU PORTAL	Total/NA	Water	SM 4500 Cl- E	

Rad

Prep Batch: 645454

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186724-1	CROSS WELL	Dissolved	Water	Evaporation	
280-186724-2	COMPLIANCE WELL	Dissolved	Water	Evaporation	
280-186724-3	COMPLIANCE 02	Dissolved	Water	Evaporation	
280-186724-4	COMPLIANCE 03	Dissolved	Water	Evaporation	
280-186724-5	CARIBOU WELL	Dissolved	Water	Evaporation	
280-186724-6	CROSS PORTAL	Dissolved	Water	Evaporation	
280-186724-7	CROSS PORTAL 02	Dissolved	Water	Evaporation	
280-186724-8	CARIBOU PORTAL	Dissolved	Water	Evaporation	
MB 160-645454/1-A	Method Blank	Total/NA	Water	Evaporation	
LCS 160-645454/2-A	Lab Control Sample	Total/NA	Water	Evaporation	
LCSB 160-645454/3-A	Lab Control Sample	Total/NA	Water	Evaporation	
380-79519-A-1-D MS	Matrix Spike	Total/NA	Water	Evaporation	
380-79519-A-1-E MSBT	Matrix Spike	Total/NA	Water	Evaporation	
380-79519-A-1-F DU	Duplicate	Total/NA	Water	Evaporation	

Prep Batch: 645478

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186724-1	CROSS WELL	Dissolved	Water	Fill_Geo-0	
280-186724-2	COMPLIANCE WELL	Dissolved	Water	Fill_Geo-0	
280-186724-3	COMPLIANCE 02	Dissolved	Water	Fill_Geo-0	
280-186724-4	COMPLIANCE 03	Dissolved	Water	Fill_Geo-0	
280-186724-5	CARIBOU WELL	Dissolved	Water	Fill_Geo-0	
280-186724-6	CROSS PORTAL	Dissolved	Water	Fill_Geo-0	
280-186724-7	CROSS PORTAL 02	Dissolved	Water	Fill_Geo-0	
280-186724-8	CARIBOU PORTAL	Dissolved	Water	Fill_Geo-0	
MB 160-645478/1-A	Method Blank	Total/NA	Water	Fill_Geo-0	
LCS 160-645478/2-A	Lab Control Sample	Total/NA	Water	Fill_Geo-0	
280-186724-1 DU	CROSS WELL	Dissolved	Water	Fill_Geo-0	

Lab Chronicle

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

Job ID: 280-186724-1

Client Sample ID: CROSS WELL

Date Collected: 01/17/24 13:00
Date Received: 01/18/24 13:00

Lab Sample ID: 280-186724-1

Matrix: Water

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	640427	01/19/24 08:50	AES	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			640752	01/22/24 14:05	ADL	EET DEN
Dissolved	Prep	200.7			50 mL	50 mL	640427	01/19/24 08:50	AES	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			640912	01/23/24 18:15	ADL	EET DEN
Dissolved	Prep	200.7			50 mL	50 mL	640427	01/19/24 08:50	AES	EET DEN
Dissolved	Analysis	200.8		1			640586	01/20/24 04:34	LRD	EET DEN
Dissolved	Prep	200.7			50 mL	50 mL	640427	01/19/24 08:50	AES	EET DEN
Dissolved	Analysis	200.8		1			640713	01/22/24 19:55	LMT	EET DEN
Dissolved	Prep	245.1			30 mL	50 mL	640791	01/23/24 14:30	KMS	EET DEN
Dissolved	Analysis	245.1		1			640899	01/23/24 18:26	KMS	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	640403	01/19/24 00:56	IRC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	640404	01/19/24 00:56	IRC	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	640814	01/23/24 15:29	BCR	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	640470	01/19/24 09:08	AKF	EET DEN
Total/NA	Analysis	SM 4500 Cl- E		1	2 mL	2 mL	641335	01/29/24 18:00	SL	EET DEN
Total/NA	Analysis	SM 4500 CN I		1	10 mL	10 mL	640811	01/23/24 13:31	MMP	EET DEN
Total/NA	Analysis	SM 4500 SO4 E		1	2 mL	2 mL	641325	01/29/24 14:14	SL	EET DEN
Dissolved	Prep	Evaporation			200.03 mL	1.0 g	645454	01/24/24 10:12	ASG	EET SL
Dissolved	Analysis	900.0		1			646064	01/30/24 13:06	FLC	EET SL
Dissolved	Prep	Fill_Geo-0			1000 mL	1.0 g	645478	01/24/24 12:36	SAC	EET SL
Dissolved	Analysis	901.1		1			645636	01/25/24 06:26	CAH	EET SL

Client Sample ID: COMPLIANCE WELL

Date Collected: 01/17/24 13:30
Date Received: 01/18/24 13:00

Lab Sample ID: 280-186724-2

Matrix: Water

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	640427	01/19/24 08:50	AES	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			640752	01/22/24 14:09	ADL	EET DEN
Dissolved	Prep	200.7			50 mL	50 mL	640427	01/19/24 08:50	AES	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			640912	01/23/24 18:32	ADL	EET DEN
Dissolved	Prep	200.7			50 mL	50 mL	640427	01/19/24 08:50	AES	EET DEN
Dissolved	Analysis	200.8		1			640586	01/20/24 04:37	LRD	EET DEN
Dissolved	Prep	200.7			50 mL	50 mL	640427	01/19/24 08:50	AES	EET DEN
Dissolved	Analysis	200.8		1			640713	01/22/24 19:58	LMT	EET DEN
Dissolved	Prep	245.1			30 mL	50 mL	640791	01/23/24 14:30	KMS	EET DEN
Dissolved	Analysis	245.1		1			640899	01/23/24 18:29	KMS	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	640403	01/19/24 05:45	IRC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	640404	01/19/24 05:45	IRC	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	640814	01/23/24 15:30	BCR	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	640470	01/19/24 09:08	AKF	EET DEN
Total/NA	Analysis	SM 4500 Cl- E		1	2 mL	2 mL	641335	01/29/24 18:00	SL	EET DEN
Total/NA	Analysis	SM 4500 CN I		1	10 mL	10 mL	640811	01/23/24 13:33	MMP	EET DEN

Client Sample ID: COMPLIANCE WELL

Lab Sample ID: 280-186724-2

Date Collected: 01/17/24 13:30

Matrix: Water

Date Received: 01/18/24 13:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 SO4 E		1	2 mL	2 mL	641325	01/29/24 14:14	SL	EET DEN
Dissolved	Prep	Evaporation			200.03 mL	1.0 g	645454	01/24/24 10:12	ASG	EET SL
Dissolved	Analysis	900.0		1			646064	01/30/24 13:06	FLC	EET SL
Dissolved	Prep	Fill_Geo-0			1000 mL	1.0 g	645478	01/24/24 12:36	SAC	EET SL
Dissolved	Analysis	901.1		1			645631	01/25/24 07:47	CAH	EET SL

Client Sample ID: COMPLIANCE 02

Lab Sample ID: 280-186724-3

Date Collected: 01/17/24 13:30

Matrix: Water

Date Received: 01/18/24 13:00

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	640427	01/19/24 08:50	AES	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			640752	01/22/24 14:13	ADL	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	640427	01/19/24 08:50	AES	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			640912	01/23/24 18:37	ADL	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	640427	01/19/24 08:50	AES	EET DEN
Dissolved	Analysis	200.8		1			640586	01/20/24 04:41	LRD	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	640427	01/19/24 08:50	AES	EET DEN
Dissolved	Analysis	200.8		1			640713	01/22/24 20:02	LMT	EET DEN
Dissolved	Prep	245.1			30 mL	50 mL	640791	01/23/24 14:30	KMS	EET DEN
Dissolved	Analysis	245.1		1			640899	01/23/24 18:31	KMS	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	640403	01/19/24 06:02	IRC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	640404	01/19/24 06:02	IRC	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	640814	01/23/24 15:44	BCR	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	640470	01/19/24 09:08	AKF	EET DEN
Total/NA	Analysis	SM 4500 Cl- E		1	2 mL	2 mL	641335	01/29/24 17:59	SL	EET DEN
Total/NA	Analysis	SM 4500 CN I		1	10 mL	10 mL	640811	01/23/24 13:36	MMP	EET DEN
Total/NA	Analysis	SM 4500 SO4 E		1	2 mL	2 mL	641325	01/29/24 14:14	SL	EET DEN
Dissolved	Prep	Evaporation			200.01 mL	1.0 g	645454	01/24/24 10:12	ASG	EET SL
Dissolved	Analysis	900.0		1			646064	01/30/24 13:06	FLC	EET SL
Dissolved	Prep	Fill_Geo-0			1000 mL	1.0 g	645478	01/24/24 12:36	SAC	EET SL
Dissolved	Analysis	901.1		1			645636	01/25/24 07:47	CAH	EET SL

Client Sample ID: COMPLIANCE 03

Lab Sample ID: 280-186724-4

Date Collected: 01/17/24 13:30

Matrix: Water

Date Received: 01/18/24 13:00

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	640427	01/19/24 08:50	AES	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			640752	01/22/24 14:17	ADL	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	640427	01/19/24 08:50	AES	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			640912	01/23/24 18:41	ADL	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	640427	01/19/24 08:50	AES	EET DEN
Dissolved	Analysis	200.8		1			640586	01/20/24 04:44	LRD	EET DEN

Lab Chronicle

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

Job ID: 280-186724-1

Client Sample ID: COMPLIANCE 03

Lab Sample ID: 280-186724-4

Date Collected: 01/17/24 13:30
Matrix: Water
Date Received: 01/18/24 13:00

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	640427	01/19/24 08:50	AES	EET DEN
Dissolved	Analysis	200.8		1			640713	01/22/24 20:05	LMT	EET DEN
Dissolved	Prep	245.1			30 mL	50 mL	640791	01/23/24 14:30	KMS	EET DEN
Dissolved	Analysis	245.1		1			640899	01/23/24 18:34	KMS	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	640403	01/19/24 06:19	IRC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	640404	01/19/24 06:19	IRC	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	640814	01/23/24 15:45	BCR	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	640470	01/19/24 09:08	AKF	EET DEN
Total/NA	Analysis	SM 4500 Cl- E		1	2 mL	2 mL	641335	01/29/24 17:59	SL	EET DEN
Total/NA	Analysis	SM 4500 CN I		1	10 mL	10 mL	640811	01/23/24 13:39	MMP	EET DEN
Total/NA	Analysis	SM 4500 SO4 E		1	2 mL	2 mL	641325	01/29/24 14:13	SL	EET DEN
Dissolved	Prep	Evaporation			200.01 mL	1.0 g	645454	01/24/24 10:12	ASG	EET SL
Dissolved	Analysis	900.0		1			646064	01/30/24 13:06	FLC	EET SL
Dissolved	Prep	Fill_Geo-0			1000 mL	1.0 g	645478	01/24/24 12:36	SAC	EET SL
Dissolved	Analysis	901.1		1			645632	01/25/24 08:51	CAH	EET SL

Client Sample ID: CARIBOU WELL

Lab Sample ID: 280-186724-5

Date Collected: 01/17/24 11:30
Matrix: Water
Date Received: 01/18/24 13:00

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	640541	01/22/24 08:25	AES	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			640750	01/22/24 19:01	ADL	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	640541	01/22/24 08:25	AES	EET DEN
Dissolved	Analysis	200.8		1			640713	01/22/24 22:20	LMT	EET DEN
Dissolved	Prep	245.1			30 mL	50 mL	640791	01/23/24 14:30	KMS	EET DEN
Dissolved	Analysis	245.1		1			640899	01/23/24 18:37	KMS	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	640403	01/18/24 20:23	IRC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	640404	01/18/24 20:23	IRC	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	640814	01/23/24 15:46	BCR	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	640470	01/19/24 09:08	AKF	EET DEN
Total/NA	Analysis	SM 4500 Cl- E		1	2 mL	2 mL	641335	01/29/24 17:59	SL	EET DEN
Total/NA	Analysis	SM 4500 CN I		1	10 mL	10 mL	640811	01/23/24 13:41	MMP	EET DEN
Total/NA	Analysis	SM 4500 SO4 E		1	2 mL	2 mL	641325	01/29/24 14:16	SL	EET DEN
Dissolved	Prep	Evaporation			199.98 mL	1.0 g	645454	01/24/24 10:12	ASG	EET SL
Dissolved	Analysis	900.0		1			646064	01/30/24 13:06	FLC	EET SL
Dissolved	Prep	Fill_Geo-0			1000 mL	1.0 g	645478	01/24/24 12:36	SAC	EET SL
Dissolved	Analysis	901.1		1			645631	01/25/24 08:52	CAH	EET SL

Lab Chronicle

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

Job ID: 280-186724-1

Client Sample ID: CROSS PORTAL

Date Collected: 01/17/24 12:15
Date Received: 01/18/24 13:00

Lab Sample ID: 280-186724-6

Matrix: Water

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	640427	01/19/24 08:50	AES	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			640752	01/22/24 14:21	ADL	EET DEN
Dissolved	Prep	200.7			50 mL	50 mL	640427	01/19/24 08:50	AES	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			640912	01/23/24 18:45	ADL	EET DEN
Dissolved	Prep	200.7			50 mL	50 mL	640427	01/19/24 08:50	AES	EET DEN
Dissolved	Analysis	200.8		1			640586	01/20/24 04:48	LRD	EET DEN
Dissolved	Prep	200.7			50 mL	50 mL	640427	01/19/24 08:50	AES	EET DEN
Dissolved	Analysis	200.8		1			640713	01/22/24 20:09	LMT	EET DEN
Dissolved	Prep	245.1			30 mL	50 mL	640791	01/23/24 14:30	KMS	EET DEN
Dissolved	Analysis	245.1		1			640899	01/23/24 18:39	KMS	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	640403	01/18/24 23:14	IRC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	640404	01/18/24 23:14	IRC	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	640814	01/23/24 15:47	BCR	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	640470	01/19/24 09:08	AKF	EET DEN
Total/NA	Analysis	SM 4500 Cl- E		1	2 mL	2 mL	641335	01/29/24 17:59	SL	EET DEN
Total/NA	Analysis	SM 4500 CN I		1	10 mL	10 mL	640811	01/23/24 13:45	MMP	EET DEN
Total/NA	Analysis	SM 4500 SO4 E		1	2 mL	2 mL	641325	01/29/24 14:14	SL	EET DEN
Dissolved	Prep	Evaporation			199.97 mL	1.0 g	645454	01/24/24 10:12	ASG	EET SL
Dissolved	Analysis	900.0		1			646064	01/30/24 13:06	FLC	EET SL
Dissolved	Prep	Fill_Geo-0			1000 mL	1.0 g	645478	01/24/24 12:36	SAC	EET SL
Dissolved	Analysis	901.1		1			645636	01/25/24 08:52	CAH	EET SL

Client Sample ID: CROSS PORTAL 02

Date Collected: 01/17/24 12:15
Date Received: 01/18/24 13:00

Lab Sample ID: 280-186724-7

Matrix: Water

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	640427	01/19/24 08:50	AES	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			640752	01/22/24 14:25	ADL	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	640427	01/19/24 08:50	AES	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			640912	01/23/24 18:49	ADL	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	640427	01/19/24 08:50	AES	EET DEN
Dissolved	Analysis	200.8		1			640586	01/20/24 04:51	LRD	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	640427	01/19/24 08:50	AES	EET DEN
Dissolved	Analysis	200.8		1			640713	01/22/24 20:12	LMT	EET DEN
Dissolved	Prep	245.1			30 mL	50 mL	640791	01/23/24 14:30	KMS	EET DEN
Dissolved	Analysis	245.1		1			640899	01/23/24 18:42	KMS	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	640403	01/18/24 23:31	IRC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	640404	01/18/24 23:31	IRC	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	640814	01/23/24 15:49	BCR	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	640470	01/19/24 09:08	AKF	EET DEN
Total/NA	Analysis	SM 4500 Cl- E		1	2 mL	2 mL	641335	01/29/24 17:58	SL	EET DEN
Total/NA	Analysis	SM 4500 CN I		1	10 mL	10 mL	640811	01/23/24 13:48	MMP	EET DEN

Lab Chronicle

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

Job ID: 280-186724-1

Client Sample ID: CROSS PORTAL 02

Lab Sample ID: 280-186724-7

Date Collected: 01/17/24 12:15

Matrix: Water

Date Received: 01/18/24 13:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 SO4 E		1	2 mL	2 mL	641325	01/29/24 14:15	SL	EET DEN
Dissolved	Prep	Evaporation			200.02 mL	1.0 g	645454	01/24/24 10:12	ASG	EET SL
Dissolved	Analysis	900.0		1			646064	01/30/24 13:06	FLC	EET SL
Dissolved	Prep	Fill_Geo-0			1000 mL	1.0 g	645478	01/24/24 12:36	SAC	EET SL
Dissolved	Analysis	901.1		1			645632	01/25/24 09:53	CAH	EET SL

Client Sample ID: CARIBOU PORTAL

Lab Sample ID: 280-186724-8

Date Collected: 01/17/24 11:15

Matrix: Water

Date Received: 01/18/24 13:00

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	640427	01/19/24 08:50	AES	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			640752	01/22/24 14:29	ADL	EET DEN
Dissolved	Prep	200.7			50 mL	50 mL	640427	01/19/24 08:50	AES	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			640912	01/23/24 18:53	ADL	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	640427	01/19/24 08:50	AES	EET DEN
Dissolved	Analysis	200.8		1			640586	01/20/24 04:23	LRD	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	640427	01/19/24 08:50	AES	EET DEN
Dissolved	Analysis	200.8		1			640713	01/22/24 20:23	LMT	EET DEN
Dissolved	Prep	245.1			30 mL	50 mL	640791	01/23/24 14:30	KMS	EET DEN
Dissolved	Analysis	245.1		1			640899	01/23/24 18:44	KMS	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	640403	01/18/24 20:06	IRC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	640404	01/18/24 20:06	IRC	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	640814	01/23/24 15:50	BCR	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	640470	01/19/24 09:08	AKF	EET DEN
Total/NA	Analysis	SM 4500 Cl- E		1	2 mL	2 mL	641335	01/29/24 18:01	SL	EET DEN
Total/NA	Analysis	SM 4500 CN I		1	10 mL	10 mL	640811	01/23/24 13:50	MMP	EET DEN
Total/NA	Analysis	SM 4500 SO4 E		1	2 mL	2 mL	641325	01/29/24 14:15	SL	EET DEN
Dissolved	Prep	Evaporation			200.01 mL	1.0 g	645454	01/24/24 10:12	ASG	EET SL
Dissolved	Analysis	900.0		1			646064	01/30/24 13:06	FLC	EET SL
Dissolved	Prep	Fill_Geo-0			1000 mL	1.0 g	645478	01/24/24 12:36	SAC	EET SL
Dissolved	Analysis	901.1		1			645631	01/25/24 09:54	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
Job ID: 280-186724-1
Project/Site: Nederland, CO - Groundwater

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	10-31-24
A2LA	ISO/IEC 17025	2907.01	10-31-25
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	04-21-24
California	State	2513	01-08-25
Connecticut	State	PH-0686	09-30-24
Florida	NELAP	E87667-57	06-30-24
Georgia	State	4025-011	01-08-25
Illinois	NELAP	2000172019-1	04-30-24
Iowa	State	370	12-01-24
Kansas	NELAP	E-10166	04-30-24
Kentucky (WW)	State	KY98047	12-31-24
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-23 *
Louisiana (All)	NELAP	30785	06-30-24
Minnesota	NELAP	1788752	12-31-24
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 Dakota	State	R-034	01-08-24 *
Oklahoma	NELAP	8614	08-31-24
Oregon	NELAP	4025-020	01-08-25
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	11-30-24
Wisconsin	State	999615430	08-31-24
Wyoming (UST)	A2LA	2907.01	10-31-25

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	12-08-24
California	Los Angeles County Sanitation Districts	10259	06-30-22 *
California	State	2886	06-30-24
Connecticut	State	PH-0241	03-31-25

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

Accreditation/Certification Summary

Client: Grand Island Resources
Job ID: 280-186724-1
Project/Site: Nederland, CO - Groundwater

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
Florida	NELAP	E87689	06-30-24
HI - RadChem Recognition	State	n/a	06-30-24
Illinois	NELAP	200023	11-30-24
Iowa	State	373	12-01-24
Kansas	NELAP	E-10236	10-31-24
Kentucky (DW)	State	KY90125	12-31-24
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-24
Louisiana	NELAP	04080	06-30-22 *
Louisiana (All)	NELAP	04080	06-30-24
Louisiana (DW)	State	LA011	12-31-24
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	MO00054	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	MO00054	07-31-24
Virginia	NELAP	10310	06-15-25
Washington	State	C592	08-30-24
West Virginia DEP	State	381	01-31-24

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

Eurofins TestAmerica, Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Phone (303) 431-7171

Chain of Custody Record

eurofins | Environment Testing America

280-186724 Chain of Custody

Client Information	Sampler: BM	Lab PM: Bieniulis, Dylan T	Carr
Client Contact: Brooke Molson Moran	Phone: 303-506-1618	E-Mail: Dylan.Bieniulis@et.eurofinsus.com	Stat
Company: Grand Island Resources	PWSID:		
Address: 12567 West Cedar Road Suite 250	Due Date Requested:		
City: Lakewood	TAT Requested (days):		
State, Zip: CO, 80466	Compliance Project: Δ Yes Δ No		
Phone: 315-414-6986	PO #: Not required		
Email: bmolsonm@g.emporia.edu	WO #:		
Project Name: Nederland, CO	Project #: 28025589		
Site: Groundwater Sampling	SSOW#:		

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	200.7/200.8/245.1 Dissolved Metals and Mercury (Field Filtered)	SM4500_SO4_E - Sulfate, SM4500_Cl_E - Chloride, 300.0 Fluoride, and 300.0 Nitrate/Nitrite	SM4500_CN_I - Free Cyanide	353.2 - Nitrate/Nitrite as N	2540C - TDS	900.0 - Gross Alpha and Gross Beta (Field Filtered) (Eurofins TestAmerica St. Louis)	901.1 - Beta/Photon Emitters + TICs (Field Filtered) (Eurofins TestAmerica St. Louis)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	N	B	S	N	D	D		
CROSS WELL	1/17/24	13:00	G	W			X	X	X	X	X	X	X		300.0 Nitrate/Nitrite = 48 hour hold time
COMPLIANCE WELL	"	13:30	G	W			X	X	X	X	X	X	X		FIELD-
COMPLIANCE 02	"	13:30	G	W			X	X	X	X	X	X	X		FILTERED ALL
COMPLIANCE 03	"	13:30	G	W			X	X	X	X	X	X	X		NITRIC-
CARIBOU WELL	"	11:30	G	W			X	X	X	X	X	X	X		PRESERVED
CROSS PORTAL	"	12:15	G	W			X	X	X	X	X	X	X		BOTTLES
CROSS PORTAL 02	"	12:15	G	W			X	X	X	X	X	X	X		
CARIBOU PORTAL	"	11:15	G	W			X	X	X	X	X	X	X		

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☒ Archive For 1 Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Brooke Moran	1/17/24 15:50	GIR	JP BREWER	1/17/24 3:52pm	GIR
[redacted]	[redacted]	GIR		1/18/24 1300	EESTDEN
JP BREWER	1-18-24 1:30pm	GIR			

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2.8, 2.1, 3.4°C APPACFO-2

Ver: 01/16/2019

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone: 303-736-0100 Fax: 303-431-7171

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Bieniulis, Dylan T	Carrier Tracking No(s):	COC No: 280-688968.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Dylan.Bieniulis@et.eurofinsus.com	State of Origin: Colorado	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note):		Job #: 280-186724-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 2/1/2024			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: Nederland, CO - Groundwater	Project #: 28025589			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
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)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	901.1_Cs/FIELD_FLTRD (MOD) Cesium-137 only	900.0/FIELD_FLTRD Standard Target List	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
CROSS WELL (280-186724-1)	1/17/24	13:00 Mountain		Water			X	X	2	
COMPLIANCE WELL (280-186724-2)	1/17/24	13:30 Mountain		Water			X	X	2	
COMPLIANCE 02 (280-186724-3)	1/17/24	13:30 Mountain		Water			X	X	2	
COMPLIANCE 03 (280-186724-4)	1/17/24	13:30 Mountain		Water			X	X	2	
CARIBOU WELL (280-186724-5)	1/17/24	11:30 Mountain		Water			X	X	2	
CROSS PORTAL (280-186724-6)	1/17/24	12:15 Mountain		Water			X	X	2	
CROSS PORTAL 02 (280-186724-7)	1/17/24	12:15 Mountain		Water			X	X	2	
CARIBOU PORTAL (280-186724-8)	1/17/24	11:15 Mountain		Water			X	X	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/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	1/19/24 1615	EET Den	M. Pinette	JAN 23 2024 1000	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Grand Island Resources

Job Number: 280-186724-1

Login Number: 186724
List Number: 1
Creator: Little, Matthew L

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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 <6mm (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: 280-186724-1

Login Number: 186724
List Number: 2
Creator: Pinette, Meadow L

List Source: Eurofins St. Louis
List Creation: 01/23/24 02:24 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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 <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

APPENDIX B OUTFALL ANALYTICAL RESULTS

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Brooke Molson Moran
Grand Island Resources
12567 West Cedar Road
Suite 110
Lakewood, Colorado 80228

Generated 1/18/2024 4:01:15 PM

JOB DESCRIPTION

Nederland, CO

JOB NUMBER

280-186380-1

Eurofins Denver
4955 Yarrow Street
Arvada CO 80002

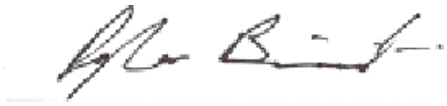
See page two for job notes and contact information.

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
1/18/2024 4:01:15 PM

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

Table of Contents

Definitions/Glossary

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

Job ID: 280-186380-1

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	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: Nederland, CO

Report Number: 280-186380-1

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 01/08/2024; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.4 C.

The LL Mercury kit was received as two loose voa vials instead of in the method specific bubble wrap packaging provided by the laboratory's vendor. The containers were placed in a bubble wrap bag by the laboratory's receiving department and subcontracted to the laboratory performing the analysis: OUTFALL - 001A (280-186380-1). The client was notified on 1/9/2024.

TOTAL RECOVERABLE METALS (ICP)
Sample OUTFALL - 001A (280-186380-1) was analyzed for Total Recoverable Metals (ICP) in accordance with EPA Method 200.7. The samples were prepared on 01/09/2024 and analyzed on 01/10/2024.

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

POTENTIALLY DISSOLVED METALS (ICPMS)
Sample OUTFALL - 001A (280-186380-1) was analyzed for potentially dissolved metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared on 01/11/2024 and analyzed on 01/12/2024 and 01/15/2024.

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 - 001A (280-186380-1) was analyzed for total recoverable metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared and analyzed on 01/09/2024.

Zinc was detected in method blank MB 280-639449/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

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

TOTAL MERCURY (CVAA)
Sample OUTFALL - 001A (280-186380-1) was analyzed for total mercury (CVAA) in accordance with EPA Method 245.1. The samples were prepared and analyzed on 01/11/2024.

Job ID: 280-186380-1 (Continued) Eurofins Denver

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

TRIVALENT CHROMIUM - POTENTIALLY DISSOLVED
Sample OUTFALL - 001A (280-186380-1) was analyzed for Trivalent Chromium - Potentially Dissolved in accordance with SM3500_CR3_B. The samples were analyzed on 01/18/2024.

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

TRIVALENT CHROMIUM - TOTAL RECOVERABLE
Sample OUTFALL - 001A (280-186380-1) was analyzed for Trivalent Chromium - Total Recoverable in accordance with SM3500_CR3_B. The samples were analyzed on 01/18/2024.

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

SPECIFIC CONDUCTIVITY
Sample OUTFALL - 001A (280-186380-1) was analyzed for specific conductivity in accordance with SM20 2510B. The samples were analyzed on 01/08/2024.

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

TOTAL SUSPENDED SOLIDS
Sample OUTFALL - 001A (280-186380-1) was analyzed for total suspended solids in accordance with SM20 2540D. The samples were analyzed on 01/15/2024.

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

DISSOLVED HEXAVALENT CHROMIUM
Sample OUTFALL - 001A (280-186380-1) was analyzed for dissolved hexavalent chromium in accordance with SM 3500 CR B. The samples were analyzed on 01/08/2024.

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

HEXAVALENT CHROMIUM
Sample OUTFALL - 001A (280-186380-1) was analyzed for hexavalent chromium in accordance with 3500_CR_B. The samples were analyzed on 01/08/2024.

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

CORROSIVITY (PH)
Sample OUTFALL - 001A (280-186380-1) was analyzed for corrosivity (pH) in accordance with SM20 4500 H+ B. The samples were analyzed on 01/10/2024.

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

SULFIDE
Sample OUTFALL - 001A (280-186380-1) was analyzed for sulfide in accordance with SM20 4500 S2 D. The samples were analyzed on 01/10/2024.

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

HYDROGEN SULFIDE
Sample OUTFALL - 001A (280-186380-1) was analyzed for Hydrogen Sulfide in accordance with SM20 4500 S2 H. The samples were analyzed on 01/10/2024.

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

LOW LEVEL MERCURY
Sample OUTFALL - 001A (280-186380-1) was analyzed for Low Level Mercury in accordance with EPA 1631. The samples were prepared on 01/12/2024 and analyzed on 01/18/2024.

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: 280-186380-1

Client Sample ID: OUTFALL - 001A

Lab Sample ID: 280-186380-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	1.2		0.50	0.20	ng/L	1		1631E	Total/NA
Zinc	16	B	10	2.0	ug/L	1		200.8	Total Recoverable
Copper	0.72	J	2.0	0.71	ug/L	1		200.8	Potentially Dissolved
Zinc	25		10	2.0	ug/L	1		200.8	Potentially Dissolved
Specific Conductance	250		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	21.2	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	250		2.0	2.0	umhos/cm	1		SM4500 S2 H	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

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

Job ID: 280-186380-1

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: 280-186380-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-186380-1	OUTFALL - 001A	Water	01/08/24 10:00	01/08/24 12:35

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

Client Sample ID: OUTFALL - 001A
Date Collected: 01/08/24 10:00
Date Received: 01/08/24 12:35

Lab Sample ID: 280-186380-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**1.2**		0.50	0.20	ng/L		01/12/24 10:50	01/18/24 11:21	1

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

Client Sample ID: OUTFALL - 001A
Date Collected: 01/08/24 10:00
Date Received: 01/08/24 12:35

Lab Sample ID: 280-186380-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		100	9.1	ug/L		01/09/24 09:17	01/10/24 14:00	1

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

Client Sample ID: OUTFALL - 001A
Date Collected: 01/08/24 10:00
Date Received: 01/08/24 12:35

Lab Sample ID: 280-186380-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		01/09/24 09:17	01/09/24 15:46	1
Cadmium	ND		1.0	0.19	ug/L		01/09/24 09:17	01/09/24 15:46	1
Chromium	ND		3.0	0.50	ug/L		01/09/24 09:17	01/09/24 15:46	1
Copper	ND		2.0	0.71	ug/L		01/09/24 09:17	01/09/24 15:46	1
Lead	ND		1.0	0.23	ug/L		01/09/24 09:17	01/09/24 15:46	1
Zinc	**16**	**B**	10	2.0	ug/L		01/09/24 09:17	01/09/24 15:46	1

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

Client Sample ID: OUTFALL - 001A
Date Collected: 01/08/24 10:00
Date Received: 01/08/24 12:35

Lab Sample ID: 280-186380-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		01/11/24 15:37	01/12/24 22:24	1
Cadmium	ND		1.0	0.19	ug/L		01/11/24 15:37	01/12/24 22:24	1
Chromium	ND		3.0	0.50	ug/L		01/11/24 15:37	01/12/24 22:24	1
Copper	**0.72**	**J**	2.0	0.71	ug/L		01/11/24 15:37	01/12/24 22:24	1
Lead	ND		1.0	0.23	ug/L		01/11/24 15:37	01/12/24 22:24	1
Manganese	ND		3.0	0.51	ug/L		01/11/24 15:37	01/12/24 22:24	1
Nickel	ND		3.0	0.83	ug/L		01/11/24 15:37	01/15/24 14:26	1
Selenium	ND		5.0	1.0	ug/L		01/11/24 15:37	01/12/24 22:24	1
Silver	ND		0.50	0.045	ug/L		01/11/24 15:37	01/12/24 22:24	1
Zinc	**25**		10	2.0	ug/L		01/11/24 15:37	01/12/24 22:24	1

Method: EPA 245.1 - Mercury (CVAA)

Client Sample ID: OUTFALL - 001A
Date Collected: 01/08/24 10:00
Date Received: 01/08/24 12:35

Lab Sample ID: 280-186380-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.061	ug/L		01/11/24 13:00	01/11/24 17:44	1

General Chemistry

Client Sample ID: OUTFALL - 001A
Date Collected: 01/08/24 10:00
Date Received: 01/08/24 12:35

Lab Sample ID: 280-186380-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (SM 2510B)	**250**		2.0	2.0	umhos/cm			01/08/24 18:08	1
Total Suspended Solids (SM 2540D)	ND		4.0	1.1	mg/L			01/15/24 15:48	1
Chromium, hexavalent (SM 3500 CR B)	ND		0.020	0.0040	mg/L			01/08/24 13:56	1
pH adj. to 25 deg C (SM 4500 H+ B	**7.9**	**HF**	0.1	0.1	SU			01/10/24 18:16	1
Temperature (SM 4500 H+ B)	**21.2**	**HF**	1.0	1.0	Degrees C			01/10/24 18:16	1
Sulfide (SM 4500 S2 D)	ND		0.050	0.022	mg/L			01/10/24 21:34	1
Un-ionized Hydrogen Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			01/10/24 12:40	1
Field pH (SM4500 S2 H)	**7.9**		1.0	1.0	SU			01/10/24 12:40	1
Field Temperature (SM4500 S2 H)	**21**		1.0	1.0	Celsius			01/10/24 12:40	1
Specific Conductance (SM4500 S2 H)	**250**		2.0	2.0	umhos/cm			01/10/24 12:40	1
Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			01/10/24 12:40	1

General Chemistry - Total Recoverable

Client Sample ID: OUTFALL - 001A
Date Collected: 01/08/24 10:00
Date Received: 01/08/24 12:35

Lab Sample ID: 280-186380-1
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			01/18/24 09:52	1

General Chemistry - Dissolved

Client Sample ID: OUTFALL - 001A
Date Collected: 01/08/24 10:00
Date Received: 01/08/24 12:35

Lab Sample ID: 280-186380-1
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			01/08/24 13:45	1

General Chemistry - Potentially Dissolved

Client Sample ID: OUTFALL - 001A
Date Collected: 01/08/24 10:00
Date Received: 01/08/24 12:35

Lab Sample ID: 280-186380-1
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			01/18/24 09:52	1

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

Lab Sample ID: MB 400-657966/3-A
Matrix: Water
Analysis Batch: 658033

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 657966

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.50	0.20	ng/L		01/17/24 16:00	01/18/24 09:50	1

Lab Sample ID: LCS 400-657966/4-A
Matrix: Water
Analysis Batch: 658033

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 657966

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	5.12		ng/L		102	79 - 121

Lab Sample ID: LCSD 400-657966/5-A
Matrix: Water
Analysis Batch: 658033

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 657966

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	1	20

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 280-639449/1-A
Matrix: Water
Analysis Batch: 639763

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 639449

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		100	9.1	ug/L		01/09/24 09:17	01/10/24 13:04	1

Lab Sample ID: LCS 280-639449/2-A
Matrix: Water
Analysis Batch: 639763

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 639449

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	10000	9850		ug/L		98	85 - 115

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 280-639449/1-A
Matrix: Water
Analysis Batch: 639602

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 639449

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		01/09/24 09:17	01/09/24 15:21	1
Cadmium	ND		1.0	0.19	ug/L		01/09/24 09:17	01/09/24 15:21	1
Chromium	ND		3.0	0.50	ug/L		01/09/24 09:17	01/09/24 15:21	1
Copper	ND		2.0	0.71	ug/L		01/09/24 09:17	01/09/24 15:21	1
Lead	ND		1.0	0.23	ug/L		01/09/24 09:17	01/09/24 15:21	1
Zinc	2.51	J	10	2.0	ug/L		01/09/24 09:17	01/09/24 15:21	1

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

Lab Sample ID: LCS 280-639449/22-A
Matrix: Water
Analysis Batch: 639602

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 639449

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	40.0	39.6		ug/L		99	89 - 111
Cadmium	40.0	40.6		ug/L		101	89 - 111
Chromium	40.0	41.0		ug/L		102	86 - 115
Copper	40.0	40.6		ug/L		102	90 - 115
Lead	40.0	41.5		ug/L		104	88 - 115
Zinc	40.0	38.5		ug/L		96	88 - 115

Lab Sample ID: MB 280-639826/1-B
Matrix: Water
Analysis Batch: 640009

Client Sample ID: Method Blank
Prep Type: Potentially Dissolved
Prep Batch: 639829

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		01/11/24 15:37	01/12/24 22:12	1
Cadmium	ND		1.0	0.19	ug/L		01/11/24 15:37	01/12/24 22:12	1
Chromium	ND		3.0	0.50	ug/L		01/11/24 15:37	01/12/24 22:12	1
Copper	ND		2.0	0.71	ug/L		01/11/24 15:37	01/12/24 22:12	1
Lead	ND		1.0	0.23	ug/L		01/11/24 15:37	01/12/24 22:12	1
Manganese	ND		3.0	0.51	ug/L		01/11/24 15:37	01/12/24 22:12	1
Selenium	ND		5.0	1.0	ug/L		01/11/24 15:37	01/12/24 22:12	1
Silver	ND		0.50	0.045	ug/L		01/11/24 15:37	01/12/24 22:12	1
Zinc	ND		10	2.0	ug/L		01/11/24 15:37	01/12/24 22:12	1

Lab Sample ID: MB 280-639826/1-B
Matrix: Water
Analysis Batch: 640075

Client Sample ID: Method Blank
Prep Type: Potentially Dissolved
Prep Batch: 639829

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	ND		3.0	0.83	ug/L		01/11/24 15:37	01/15/24 14:08	1

Lab Sample ID: LCS 280-639826/2-B
Matrix: Water
Analysis Batch: 640009

Client Sample ID: Lab Control Sample
Prep Type: Potentially Dissolved
Prep Batch: 639829

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	40.0	41.9		ug/L		105	89 - 111
Cadmium	40.0	43.5		ug/L		109	89 - 111
Chromium	40.0	40.8		ug/L		102	86 - 115
Copper	40.0	41.0		ug/L		103	90 - 115
Lead	40.0	40.2		ug/L		101	88 - 115
Manganese	40.0	41.6		ug/L		104	87 - 115
Selenium	40.0	41.1		ug/L		103	85 - 114
Silver	40.0	40.0		ug/L		100	90 - 114
Zinc	40.0	41.0		ug/L		102	88 - 115

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

Lab Sample ID: LCS 280-639826/2-B
Matrix: Water
Analysis Batch: 640075

Client Sample ID: Lab Control Sample
Prep Type: Potentially Dissolved
Prep Batch: 639829

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nickel	40.0	41.1		ug/L		103	86 - 115

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 280-639789/1-A
Matrix: Water
Analysis Batch: 639932

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 639789

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.061	ug/L		01/11/24 13:00	01/11/24 17:21	1

Lab Sample ID: LCS 280-639789/2-A
Matrix: Water
Analysis Batch: 639932

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 639789

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	5.02		ug/L		100	90 - 110

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: MB 280-639448/5
Matrix: Water
Analysis Batch: 639448

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			01/08/24 17:58	1

Lab Sample ID: LCS 280-639448/4
Matrix: Water
Analysis Batch: 639448

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

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 280-640077/1
Matrix: Water
Analysis Batch: 640077

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			01/15/24 15:48	1

Lab Sample ID: LCS 280-640077/2
Matrix: Water
Analysis Batch: 640077

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	502	488		mg/L		97	79 - 114

Method: SM 3500 CR B - Chromium, Hexavalent

Lab Sample ID: MB 280-639442/19
Matrix: Water
Analysis Batch: 639442

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			01/08/24 13:55	1

Lab Sample ID: LCS 280-639442/17
Matrix: Water
Analysis Batch: 639442

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	0.100		mg/L		100	91 - 112		

Lab Sample ID: LCSD 280-639442/18
Matrix: Water
Analysis Batch: 639442

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	0.100		mg/L		100	91 - 112	0	20

Lab Sample ID: 280-186380-1 MS
Matrix: Water
Analysis Batch: 639442

Client Sample ID: OUTFALL - 001A
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	0.104		mg/L		104	91 - 112		

Lab Sample ID: 280-186380-1 MSD
Matrix: Water
Analysis Batch: 639442

Client Sample ID: OUTFALL - 001A
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	0.103		mg/L		103	91 - 112	1	20

Lab Sample ID: 280-186380-1 DU
Matrix: Water
Analysis Batch: 639442

Client Sample ID: OUTFALL - 001A
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 280-639430/3-A
Matrix: Water
Analysis Batch: 639442

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			01/08/24 13:45	1

Lab Sample ID: LCS 280-639430/1-A
Matrix: Water
Analysis Batch: 639442

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	0.0991		mg/L		99	91 - 112		

Method: SM 3500 CR B - Chromium, Hexavalent

Lab Sample ID: LCSD 280-639430/2-A
Matrix: Water
Analysis Batch: 639442

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	0.0989		mg/L		99	91 - 112	0	20

Lab Sample ID: 280-186380-1 MS
Matrix: Water
Analysis Batch: 639442

Client Sample ID: OUTFALL - 001A
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chromium, hexavalent	ND		0.100	0.102		mg/L		102	91 - 112		

Lab Sample ID: 280-186380-1 MSD
Matrix: Water
Analysis Batch: 639442

Client Sample ID: OUTFALL - 001A
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	0	20

Lab Sample ID: 280-186380-1 DU
Matrix: Water
Analysis Batch: 639442

Client Sample ID: OUTFALL - 001A
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 280-639794/5
Matrix: Water
Analysis Batch: 639794

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 280-639715/11
Matrix: Water
Analysis Batch: 639715

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			01/10/24 21:33	1

Lab Sample ID: LCS 280-639715/9
Matrix: Water
Analysis Batch: 639715

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	0.442		mg/L		88	81 - 122		

Method: SM 4500 S2 D - Sulfide, Total (Continued)

Lab Sample ID: LCSD 280-639715/10
Matrix: Water
Analysis Batch: 639715

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	0.446		mg/L		89	81 - 122	1	10

Lab Sample ID: 280-186380-1 MS
Matrix: Water
Analysis Batch: 639715

Client Sample ID: OUTFALL - 001A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	ND		0.500	0.464		mg/L		93	81 - 122

Lab Sample ID: 280-186380-1 MSD
Matrix: Water
Analysis Batch: 639715

Client Sample ID: OUTFALL - 001A
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	0.451		mg/L		90	81 - 122	3	10

QC Association Summary

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

Job ID: 280-186380-1

Metals

Prep Batch: 639449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186380-1	OUTFALL - 001A	Total Recoverable	Water	200.8	
MB 280-639449/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-639449/22-A	Lab Control Sample	Total Recoverable	Water	200.8	
LCS 280-639449/2-A	Lab Control Sample	Total Recoverable	Water	200.8	

Analysis Batch: 639602

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186380-1	OUTFALL - 001A	Total Recoverable	Water	200.8	639449
MB 280-639449/1-A	Method Blank	Total Recoverable	Water	200.8	639449
LCS 280-639449/22-A	Lab Control Sample	Total Recoverable	Water	200.8	639449

Filtration Batch: 639712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186380-1	OUTFALL - 001A	Potentially Dissolvec	Water	Poten_Diss_Met	

Analysis Batch: 639763

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186380-1	OUTFALL - 001A	Total Recoverable	Water	200.7 Rev 4.4	639449
MB 280-639449/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	639449
LCS 280-639449/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	639449

Prep Batch: 639789

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186380-1	OUTFALL - 001A	Total/NA	Water	245.1	
MB 280-639789/1-A	Method Blank	Total/NA	Water	245.1	
LCS 280-639789/2-A	Lab Control Sample	Total/NA	Water	245.1	

Filtration Batch: 639826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-639826/1-B	Method Blank	Potentially Dissolvec	Water	Poten_Diss_Met	
LCS 280-639826/2-B	Lab Control Sample	Potentially Dissolvec	Water	Poten_Diss_Met	

Prep Batch: 639829

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186380-1	OUTFALL - 001A	Potentially Dissolvec	Water	200.8	639712
MB 280-639826/1-B	Method Blank	Potentially Dissolvec	Water	200.8	639826
LCS 280-639826/2-B	Lab Control Sample	Potentially Dissolvec	Water	200.8	639826

Analysis Batch: 639932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186380-1	OUTFALL - 001A	Total/NA	Water	245.1	639789
MB 280-639789/1-A	Method Blank	Total/NA	Water	245.1	639789
LCS 280-639789/2-A	Lab Control Sample	Total/NA	Water	245.1	639789

Analysis Batch: 640009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186380-1	OUTFALL - 001A	Potentially Dissolvec	Water	200.8	639829
MB 280-639826/1-B	Method Blank	Potentially Dissolvec	Water	200.8	639829
LCS 280-639826/2-B	Lab Control Sample	Potentially Dissolvec	Water	200.8	639829

QC Association Summary

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

Job ID: 280-186380-1

Metals

Analysis Batch: 640075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186380-1	OUTFALL - 001A	Potentially Dissolvec	Water	200.8	639829
MB 280-639826/1-B	Method Blank	Potentially Dissolvec	Water	200.8	639829
LCS 280-639826/2-B	Lab Control Sample	Potentially Dissolvec	Water	200.8	639829

Prep Batch: 657966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186380-1	OUTFALL - 001A	Total/NA	Water	1631E	
MB 400-657966/3-A	Method Blank	Total/NA	Water	1631E	
LCS 400-657966/4-A	Lab Control Sample	Total/NA	Water	1631E	
LCSD 400-657966/5-A	Lab Control Sample Dup	Total/NA	Water	1631E	

Analysis Batch: 658033

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186380-1	OUTFALL - 001A	Total/NA	Water	1631E	657966
MB 400-657966/3-A	Method Blank	Total/NA	Water	1631E	657966
LCS 400-657966/4-A	Lab Control Sample	Total/NA	Water	1631E	657966
LCSD 400-657966/5-A	Lab Control Sample Dup	Total/NA	Water	1631E	657966

General Chemistry

Filtration Batch: 639430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186380-1	OUTFALL - 001A	Dissolved	Water	FILTRATION	
MB 280-639430/3-A	Method Blank	Dissolved	Water	FILTRATION	
LCS 280-639430/1-A	Lab Control Sample	Dissolved	Water	FILTRATION	
LCSD 280-639430/2-A	Lab Control Sample Dup	Dissolved	Water	FILTRATION	
280-186380-1 MS	OUTFALL - 001A	Dissolved	Water	FILTRATION	
280-186380-1 MSD	OUTFALL - 001A	Dissolved	Water	FILTRATION	
280-186380-1 DU	OUTFALL - 001A	Dissolved	Water	FILTRATION	

Analysis Batch: 639442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186380-1	OUTFALL - 001A	Dissolved	Water	SM 3500 CR B	639430
280-186380-1	OUTFALL - 001A	Total/NA	Water	SM 3500 CR B	
MB 280-639430/3-A	Method Blank	Dissolved	Water	SM 3500 CR B	639430
MB 280-639442/19	Method Blank	Total/NA	Water	SM 3500 CR B	
LCS 280-639430/1-A	Lab Control Sample	Dissolved	Water	SM 3500 CR B	639430
LCS 280-639442/17	Lab Control Sample	Total/NA	Water	SM 3500 CR B	
LCSD 280-639430/2-A	Lab Control Sample Dup	Dissolved	Water	SM 3500 CR B	639430
LCSD 280-639442/18	Lab Control Sample Dup	Total/NA	Water	SM 3500 CR B	
280-186380-1 MS	OUTFALL - 001A	Dissolved	Water	SM 3500 CR B	639430
280-186380-1 MS	OUTFALL - 001A	Total/NA	Water	SM 3500 CR B	
280-186380-1 MSD	OUTFALL - 001A	Dissolved	Water	SM 3500 CR B	639430
280-186380-1 MSD	OUTFALL - 001A	Total/NA	Water	SM 3500 CR B	
280-186380-1 DU	OUTFALL - 001A	Dissolved	Water	SM 3500 CR B	639430
280-186380-1 DU	OUTFALL - 001A	Total/NA	Water	SM 3500 CR B	

Analysis Batch: 639448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186380-1	OUTFALL - 001A	Total/NA	Water	SM 2510B	
MB 280-639448/5	Method Blank	Total/NA	Water	SM 2510B	

General Chemistry (Continued)

Analysis Batch: 639448 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 280-639448/4	Lab Control Sample	Total/NA	Water	SM 2510B	

Analysis Batch: 639656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186380-1	OUTFALL - 001A	Total/NA	Water	SM4500 S2 H	

Analysis Batch: 639715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186380-1	OUTFALL - 001A	Total/NA	Water	SM 4500 S2 D	
MB 280-639715/11	Method Blank	Total/NA	Water	SM 4500 S2 D	
LCS 280-639715/9	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
LCSD 280-639715/10	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 D	
280-186380-1 MS	OUTFALL - 001A	Total/NA	Water	SM 4500 S2 D	
280-186380-1 MSD	OUTFALL - 001A	Total/NA	Water	SM 4500 S2 D	

Analysis Batch: 639794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186380-1	OUTFALL - 001A	Total/NA	Water	SM 4500 H+ B	
LCS 280-639794/5	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 640077

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186380-1	OUTFALL - 001A	Total/NA	Water	SM 2540D	
MB 280-640077/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 280-640077/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 640371

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186380-1	OUTFALL - 001A	Potentially Dissolvec	Water	SM3500 CR B	
280-186380-1	OUTFALL - 001A	Total Recoverable	Water	SM3500 CR B	

Lab Chronicle

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

Job ID: 280-186380-1

Client Sample ID: OUTFALL - 001A

Date Collected: 01/08/24 10:00
Date Received: 01/08/24 12:35

Lab Sample ID: 280-186380-1

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	657966	01/12/24 10:50	VLC	EET PEN
							Completed:	01/16/24 09:00 [1]		
Total/NA	Analysis	1631E		1			658033	01/18/24 11:21	VLC	EET PEN
Total Recoverable	Prep	200.8			50 mL	50 mL	639449	01/09/24 09:17	AES	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			639763	01/10/24 14:00	ADL	EET DEN
Potentially Dissolvec	Filtration	Poten_Diss_Met			250 mL	250 mL	639712	01/10/24 21:00	LRD	EET DEN
Potentially Dissolvec	Prep	200.8			50 mL	50 mL	639829	01/11/24 15:37	MSM	EET DEN
Potentially Dissolvec	Analysis	200.8		1			640075	01/15/24 14:26	LMT	EET DEN
Potentially Dissolvec	Filtration	Poten_Diss_Met			250 mL	250 mL	639712	01/10/24 21:00	LRD	EET DEN
Potentially Dissolvec	Prep	200.8			50 mL	50 mL	639829	01/11/24 15:37	MSM	EET DEN
Potentially Dissolvec	Analysis	200.8		1			640009	01/12/24 22:24	LRD	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	639449	01/09/24 09:17	AES	EET DEN
Total Recoverable	Analysis	200.8		1			639602	01/09/24 15:46	LMT	EET DEN
Total/NA	Prep	245.1			30 mL	50 mL	639789	01/11/24 13:00	KMS	EET DEN
Total/NA	Analysis	245.1		1			639932	01/11/24 17:44	KMS	EET DEN
Total/NA	Analysis	SM 2510B		1			639448	01/08/24 18:08	LL	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	640077	01/15/24 15:48	AKF	EET DEN
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	639430	01/08/24 13:11	SL	EET DEN
Dissolved	Analysis	SM 3500 CR B		1	2 mL	2 mL	639442	01/08/24 13:45	SL	EET DEN
Total/NA	Analysis	SM 3500 CR B		1	2 mL	2 mL	639442	01/08/24 13:56	SL	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			639794	01/10/24 18:16	LL	EET DEN
Total/NA	Analysis	SM 4500 S2 D		1	2 mL	2 mL	639715	01/10/24 21:34	SL	EET DEN
Potentially Dissolvec	Analysis	SM3500 CR B		1			640371	01/18/24 09:52	RMS	EET DEN
Total Recoverable	Analysis	SM3500 CR B		1			640371	01/18/24 09:52	RMS	EET DEN
Total/NA	Analysis	SM4500 S2 H		1			639656	01/10/24 12:40	SAH	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: 280-186380-1

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	10-31-24
A2LA	ISO/IEC 17025	2907.01	10-31-25
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	04-21-24
California	State	2513	01-09-24 *
Connecticut	State	PH-0686	09-30-24
Florida	NELAP	E87667-57	06-30-24
Georgia	State	4025-011	01-08-25
Illinois	NELAP	2000172019-1	04-30-24
Iowa	State	370	12-01-24
Kansas	NELAP	E-10166	04-30-24
Kentucky (WW)	State	KY98047	12-31-24
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-23 *
Louisiana (All)	NELAP	30785	06-30-24
Minnesota	NELAP	1788752	12-31-24
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 Dakota	State	R-034	01-08-24 *
Oklahoma	NELAP	8614	08-31-24
Oregon	NELAP	4025-020	01-08-25
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	11-30-24
Wisconsin	State	999615430	08-31-24
Wyoming (UST)	A2LA	2907.01	10-31-25

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	10-09-24
Kansas	NELAP	E-10253	10-31-24

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

Accreditation/Certification Summary

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

Job ID: 280-186380-1

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	12-31-24
North Carolina (WW/SW)	State	314	12-31-24
Oklahoma	NELAP	9810	08-31-24
Pennsylvania	NELAP	68-00467	01-31-24
South Carolina	State	96026	06-30-24
Tennessee	State	TN02907	06-30-24
Texas	NELAP	T104704286	09-30-24
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
West Virginia DEP	State	136	03-31-24

Eurofins TestAmerica, Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Phone (303) 431-7171

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: JP BREWER	Lab PM: Bieniulis, Dylan T	Carrier Tracking No(s):	COC No:
Client Contact: Patrick Delaney	Phone: 303-304-1183	E-Mail: Dylan.Bieniulis@et.eurofinsus.com	State of Origin:	Page:
Company: Grand Island Resources	PWSID:			Job #:

Address: 12567 West Cedar Road Suite 250	Due Date Requested:
City: Lakewood	TAT Requested (days):
State, Zip: CO, 80466	Compliance Project: Δ Yes Δ No
Phone: 315-414-6986	PO #: Advance Payment Required
Email: pdelaney@blackfoxmining.com	WO #:
Project Name: Nederland, CO	Project #: 28022821
Site: First half of the month event + quarterly LL Hg	SSOW#:

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2510B - Specific Conductance, 2540D - TSS, SM4500_H+ - pH / Temp	3500_CR_B - Total Hexavalent Cr and Trivalent Cr (calc)	3500_CR_B - Dissolved Hexavalent Cr (LAB FILTER) and Potentially Dissolved Trivalent Cr (calc)	SM4500_S2_D - Sulfide and SM3500_S2_H - Unionized Hydrogen Sulfide (calc)	1631E - Low Level Mercury (ETA Pensacola)	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)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	CB	N	D	D		
OUTFALL-001A	1-8-24	10am	G	W	N		X	X	X	X	X	X	X		

*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 total recoverable metals permit list = 200.7 (Fe), 200.8 (As, Cd, Cr, Cu, Pb, Zn), and 245.1 (Hg)

TEMP = 4°C

P.H. = 7.1

280-186380 Chain of Custody

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☒ Archive For 1 Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	JP BREWER	1-8-24 10:45am	GIR	Riley McAllister	1-8-24 10:45am	GIR
2		1-8-24	GIR		1-8-24 1235	EEIDEN
3						

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.2°C APPACF0.2

Ver: 01/16/2019

1/18/2024

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone: 303-736-0100 Fax: 303-431-7171

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Bieniulis, Dylan T	Carrier Tracking No(s):	COC No: 280-687915.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Dylan.Bieniulis@et.eurofinsus.com	State of Origin: Colorado	Page: Page 1 of 1
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note):		Job #: 280-186380-1
Address: 3355 McLemore Drive, ,	Due Date Requested: 1/22/2024			
City: Pensacola	TAT Requested (days):			
State, Zip: FL, 32514				
Phone: 850-474-1001(Tel) 850-478-2671(Fax)	PO #:			
Email:	WO #:			
Project Name: Nederland, CO	Project #: 28022821			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

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)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1631E/1631E_Prep	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
OUTFALL - 001A (280-186380-1)	1/8/24	10:00 Mountain		Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica 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	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	1/9/24 1507	LETDEN			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: [signature]	Date/Time: 1.10.24 10:02	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.4 IR11

Ver: 06/08/2021


eurofins
Enviro
Test
4574
ORIGIN ID:WHHA (303) 736-0100
EUROFINS
EUROFINS TESTAMERICA DENVER
4955 YARROW ST
ARVADA, CO 80002
UNITED STATES US
SHIP DATE: 09JAN24
ACTWGT: 12.15 LB
CAD: 290884/CAFE3755
BILL SENDER
TO SHIPPING/RECEIVING
EUROFINS ENVIRONMENT TESTING SOUTHE
3355 MCLEMORE DRIVE
PENSACOLA FL 32514
(850) 474-1001
REF: S280-136794
PO: YES
DEPT: BOTTLE PREP
FedEx
Express
WED - 10 JAN 10:30A
TRK# 0201 7079 0018 8157
PRIORITY OVERNIGHT
XH PNSA
32514
FL-US BFM

Login Sample Receipt Checklist

Client: Grand Island Resources

Job Number: 280-186380-1

Login Number: 186380
List Number: 1
Creator: Held, Wesley

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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.	False	Improper containers received.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Grand Island Resources

Job Number: 280-186380-1

Login Number: 186380
List Number: 2
Creator: Pardonner, Brett

List Source: Eurofins Pensacola
List Creation: 01/10/24 04:54 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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	0.6°C IR11
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Brooke Molson Moran
Grand Island Resources
12567 West Cedar Road
Suite 110
Lakewood, Colorado 80228

Generated 2/5/2024 12:04:58 PM

JOB DESCRIPTION

Nederland, CO

JOB NUMBER

280-186951-1

Eurofins Denver
4955 Yarrow Street
Arvada CO 80002

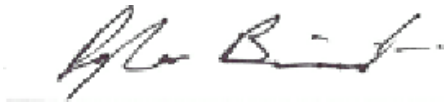
See page two for job notes and contact information.

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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2/5/2024 12:04:58 PM

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

Table of Contents

Definitions/Glossary

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

Job ID: 280-186951-1

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.
¤	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

Job Narrative
280-186951-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
- 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.

This report may include reporting limits (RLs) lower than Eurofins Environmental Testing standard reporting limits. 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.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

If potentially dissolved silver by method 200.8 is requested for samples on the chain of custody, this report contains a client specific, custom reporting limit.

Receipt
The sample was received on 1/24/2024 11:04 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.1°C

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

Method 200.8 - Metals (ICP/MS)
Sample OUTFALL 001A (186951-1) was analyzed for Metals (ICP/MS). The sample was prepared on 1/25/2024 and 1/30/2024 and analyzed on 1/26/2024, 1/30/2024 and 1/31/2024.

Detection Summary

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

Job ID: 280-186951-1

Client Sample ID: OUTFALL 001A

Lab Sample ID: 280-186951-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	1.9	J	2.0	0.71	ug/L	1		200.8	Total Recoverable
Lead	0.25	J	1.0	0.23	ug/L	1		200.8	Total Recoverable
Copper	2.1		2.0	0.71	ug/L	1		200.8	Potentially Dissolved
Lead	0.26	J	1.0	0.23	ug/L	1		200.8	Potentially Dissolved
Zinc	31		10	2.0	ug/L	1		200.8	Potentially Dissolved

This Detection Summary does not include radiochemical test results.

Method Summary

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

Job ID: 280-186951-1

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: 280-186951-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-186951-1	OUTFALL 001A	Water	01/24/24 09:30	01/24/24 11:04

Client Sample Results

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

Job ID: 280-186951-1

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

Client Sample ID: OUTFALL 001A
Date Collected: 01/24/24 09:30
Date Received: 01/24/24 11:04

Lab Sample ID: 280-186951-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	**1.9**	**J**	2.0	0.71	ug/L		01/25/24 14:37	01/30/24 16:19	1
Lead	**0.25**	**J**	1.0	0.23	ug/L		01/25/24 14:37	01/26/24 16:49	1

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

Client Sample ID: OUTFALL 001A
Date Collected: 01/24/24 09:30
Date Received: 01/24/24 11:04

Lab Sample ID: 280-186951-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		1.0	0.19	ug/L		01/30/24 15:34	01/31/24 10:11	1
Copper	**2.1**		2.0	0.71	ug/L		01/30/24 15:34	01/31/24 10:11	1
Lead	**0.26**	**J**	1.0	0.23	ug/L		01/30/24 15:34	01/31/24 10:11	1
Silver	ND		0.50	0.045	ug/L		01/30/24 15:34	01/31/24 10:11	1
Zinc	**31**		10	2.0	ug/L		01/30/24 15:34	01/31/24 16:35	1

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 280-641022/1-A
Matrix: Water
Analysis Batch: 641236

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 641022

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.0	0.23	ug/L		01/25/24 14:37	01/26/24 15:20	1

Lab Sample ID: MB 280-641022/1-A
Matrix: Water
Analysis Batch: 641511

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 641022

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		2.0	0.71	ug/L		01/25/24 14:37	01/30/24 15:23	1

Lab Sample ID: LCS 280-641022/21-A
Matrix: Water
Analysis Batch: 641236

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 641022

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	40.0	39.0		ug/L		98	88 - 115

Lab Sample ID: LCS 280-641022/21-A
Matrix: Water
Analysis Batch: 641511

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 641022

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Copper	40.0	41.3		ug/L		103	90 - 115

Lab Sample ID: MB 280-640963/1-B
Matrix: Water
Analysis Batch: 641574

Client Sample ID: Method Blank
Prep Type: Potentially Dissolved
Prep Batch: 641373

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		1.0	0.19	ug/L		01/30/24 15:34	01/31/24 09:50	1
Lead	ND		1.0	0.23	ug/L		01/30/24 15:34	01/31/24 09:50	1
Silver	ND		0.50	0.045	ug/L		01/30/24 15:34	01/31/24 09:50	1

Lab Sample ID: MB 280-640963/1-B
Matrix: Water
Analysis Batch: 641585

Client Sample ID: Method Blank
Prep Type: Potentially Dissolved
Prep Batch: 641373

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		2.0	0.71	ug/L		01/30/24 15:34	01/31/24 12:43	1

Lab Sample ID: MB 280-640963/1-B
Matrix: Water
Analysis Batch: 641646

Client Sample ID: Method Blank
Prep Type: Potentially Dissolved
Prep Batch: 641373

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		10	2.0	ug/L		01/30/24 15:34	01/31/24 16:33	1

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

Lab Sample ID: LCS 280-640963/2-B
Matrix: Water
Analysis Batch: 641574

Client Sample ID: Lab Control Sample
Prep Type: Potentially Dissolved
Prep Batch: 641373

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cadmium	40.0	40.4		ug/L		101	89 - 111
Lead	40.0	40.5		ug/L		101	88 - 115
Silver	40.0	40.6		ug/L		101	90 - 114
Zinc	40.0	38.2		ug/L		95	88 - 115

Lab Sample ID: LCS 280-640963/2-B
Matrix: Water
Analysis Batch: 641585

Client Sample ID: Lab Control Sample
Prep Type: Potentially Dissolved
Prep Batch: 641373

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Copper	40.0	39.9		ug/L		100	90 - 115

QC Association Summary

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

Job ID: 280-186951-1

Metals

Filtration Batch: 640963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-640963/1-B	Method Blank	Potentially Dissolvec	Water	Poten_Diss_Met	
LCS 280-640963/2-B	Lab Control Sample	Potentially Dissolvec	Water	Poten_Diss_Met	

Prep Batch: 641022

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186951-1	OUTFALL 001A	Total Recoverable	Water	200.8	
MB 280-641022/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-641022/21-A	Lab Control Sample	Total Recoverable	Water	200.8	

Filtration Batch: 641188

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186951-1	OUTFALL 001A	Potentially Dissolvec	Water	Poten_Diss_Met	

Analysis Batch: 641236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186951-1	OUTFALL 001A	Total Recoverable	Water	200.8	641022
MB 280-641022/1-A	Method Blank	Total Recoverable	Water	200.8	641022
LCS 280-641022/21-A	Lab Control Sample	Total Recoverable	Water	200.8	641022

Prep Batch: 641373

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186951-1	OUTFALL 001A	Potentially Dissolvec	Water	200.8	641188
MB 280-640963/1-B	Method Blank	Potentially Dissolvec	Water	200.8	640963
LCS 280-640963/2-B	Lab Control Sample	Potentially Dissolvec	Water	200.8	640963

Analysis Batch: 641511

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186951-1	OUTFALL 001A	Total Recoverable	Water	200.8	641022
MB 280-641022/1-A	Method Blank	Total Recoverable	Water	200.8	641022
LCS 280-641022/21-A	Lab Control Sample	Total Recoverable	Water	200.8	641022

Analysis Batch: 641574

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186951-1	OUTFALL 001A	Potentially Dissolvec	Water	200.8	641373
MB 280-640963/1-B	Method Blank	Potentially Dissolvec	Water	200.8	641373
LCS 280-640963/2-B	Lab Control Sample	Potentially Dissolvec	Water	200.8	641373

Analysis Batch: 641585

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-640963/1-B	Method Blank	Potentially Dissolvec	Water	200.8	641373
LCS 280-640963/2-B	Lab Control Sample	Potentially Dissolvec	Water	200.8	641373

Analysis Batch: 641646

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186951-1	OUTFALL 001A	Potentially Dissolvec	Water	200.8	641373
MB 280-640963/1-B	Method Blank	Potentially Dissolvec	Water	200.8	641373

Lab Chronicle

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

Job ID: 280-186951-1

Client Sample ID: OUTFALL 001A

Date Collected: 01/24/24 09:30
Date Received: 01/24/24 11:04

Lab Sample ID: 280-186951-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Potentially Dissolvec	Filtration	Poten_Diss_Met			250 mL	250 mL	641188	01/26/24 15:08	KMS	EET DEN
Potentially Dissolvec	Prep	200.8			50 mL	50 mL	641373	01/30/24 15:34	AES	EET DEN
Potentially Dissolvec	Analysis	200.8		1			641574	01/31/24 10:11	LMT	EET DEN
Potentially Dissolvec	Filtration	Poten_Diss_Met			250 mL	250 mL	641188	01/26/24 15:08	KMS	EET DEN
Potentially Dissolvec	Prep	200.8			50 mL	50 mL	641373	01/30/24 15:34	AES	EET DEN
Potentially Dissolvec	Analysis	200.8		1			641646	01/31/24 16:35	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	641022	01/25/24 14:37	MSM	EET DEN
Total Recoverable	Analysis	200.8		1			641236	01/26/24 16:49	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	641022	01/25/24 14:37	MSM	EET DEN
Total Recoverable	Analysis	200.8		1			641511	01/30/24 16:19	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: 280-186951-1

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	10-31-24
A2LA	ISO/IEC 17025	2907.01	10-31-25
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	04-21-24
California	State	2513	01-08-25
Connecticut	State	PH-0686	09-30-24
Florida	NELAP	E87667-57	06-30-24
Georgia	State	4025-011	01-08-25
Illinois	NELAP	2000172019-1	04-30-24
Iowa	State	370	12-01-24
Kansas	NELAP	E-10166	04-30-24
Kentucky (WW)	State	KY98047	12-31-24
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-23 *
Louisiana (All)	NELAP	30785	06-30-24
Minnesota	NELAP	1788752	12-31-24
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 Dakota	State	R-034	01-08-24 *
Oklahoma	NELAP	8614	08-31-24
Oregon	NELAP	4025-020	01-08-25
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	11-30-24
Wisconsin	State	999615430	08-31-24
Wyoming (UST)	A2LA	2907.01	10-31-25

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

Eurofins TestAmerica, Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Phone (303) 431-7171

Chain of Custody Record

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Client Information	Sampler: JP BREWER	Lab PM: Bieniulis, Dylan T	Carrier Tracking No(s):	COC No:
Client Contact: Patrick Delaney	Phone: 303 304-1183	E-Mail: Dylan.Bieniulis@et.eurofinsus.com	State of Origin:	Page:
Company: Grand Island Resources	PWSID:			Job #:
Address: 12567 West Cedar Road Suite 250	Due Date Requested:			
City: Lakewood	TAT Requested (days):			
State, Zip: CO, 80466	Compliance Project: Δ Yes Δ No			
Phone: 315-414-6986	PO #: Advance Payment Required			
Email: pdelaney@blackfoxmining.com	WO #:			
Project Name: Nederland, CO	Project #: 28022821			
Site: second half of the month event	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	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:
			Preservation Code:				D	D		
OUTFALL 001A	1-24-24	9:30am	G	W			X	X		

*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)

TEMP -4°C

PH -7.2

280-186951 Chain of Custody

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☒ Archive For 1 Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	JP BREWER	1-24-24 9:45	GIR		1/24/ 9:45	GIR
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 1/24/24 11:04	Company EUROFINS
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.9°C, F0.2 IRAPPA

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Grand Island Resources

Job Number: 280-186951-1

Login Number: 186951
List Number: 1
Creator: Rystrom, Joshua R

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Brooke Molson Moran
Grand Island Resources
12567 West Cedar Road
Suite 110
Lakewood, Colorado 80228

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JOB DESCRIPTION

Nederland, CO

JOB NUMBER

280-187434-1

Eurofins Denver
4955 Yarrow Street
Arvada CO 80002

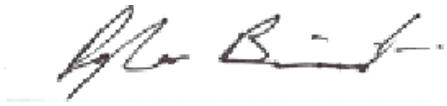
See page two for job notes and contact information.

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

Table of Contents

Definitions/Glossary

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

Job ID: 280-187434-1

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
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.

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

Job Narrative
280-187434-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
- 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.

This report may include reporting limits (RLs) lower than Eurofins Environmental Testing standard reporting limits. 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.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

If potentially dissolved silver by method 200.8 is requested for samples on the chain of custody, this report contains a client specific, custom reporting limit.

Receipt
The sample was received on 2/7/2024 1:24 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 6.1°C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

Receipt Exceptions
The following sample was received at the laboratory outside the required temperature criteria: OUTFALL-001A (280-187434-1). The sample(s) is considered acceptable since it was collected and submitted to the laboratory on the same day and there is evidence that the chilling process has begun.

Method 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable
Sample OUTFALL-001A (280-187434-1) was analyzed for Metals (ICP) - Total Recoverable. The sample was prepared and analyzed on 2/8/2024.

Method 200.8 - Metals (ICP/MS) - Potentially Dissolved
Sample OUTFALL-001A (280-187434-1) was analyzed for Metals (ICP/MS) - Potentially Dissolved. The sample was prepared and analyzed on 2/15/2024.

Method 200.8 - Metals (ICP/MS) - Total Recoverable
Sample OUTFALL-001A (280-187434-1) was analyzed for Metals (ICP/MS) - Total Recoverable. The sample was prepared on 2/8/2024 and analyzed on 2/8/2024 and 2/15/2024.

The continuing calibration verification (CCV) associated with batch 280-642530 recovered above the upper control limit for Zn. The samples (Batch QC) associated with this CCV were <RL and within control limit for the affected analytes; therefore, the data have been reported. The associated samples are impacted: (CCV 280-642530/70), (LCS 280-642362/26-A), and (MB 280-642362/1-A).

Method 245.1 - Mercury (CVAA)
Sample OUTFALL-001A (280-187434-1) was analyzed for Mercury (CVAA). The sample was prepared on 2/15/2024 and analyzed on 2/9/2024 and 2/15/2024.

Method SM 2510B - Conductivity, Specific Conductance
Sample OUTFALL-001A (280-187434-1) was analyzed for Conductivity, Specific Conductance. The sample was analyzed on 2/15/2024.

Method SM 2540D - Solids, Total Suspended (TSS)
Sample OUTFALL-001A (280-187434-1) was analyzed for Solids, Total Suspended (TSS). The sample was analyzed on 2/8/2024, 2/9/2024 and 2/15/2024.

Method SM 3500 CR B - Chromium, Hexavalent
Sample OUTFALL-001A (280-187434-1) was analyzed for Chromium, Hexavalent. The sample was analyzed on 2/7/2024 and 2/9/2024.

Method SM 3500 CR B - Chromium, Hexavalent - Dissolved
Sample OUTFALL-001A (280-187434-1) was analyzed for Chromium, Hexavalent - Dissolved. The sample was analyzed on 2/7/2024 and 2/9/2024.

Method SM3500 CR B - Chromium, Trivalent - Potentially Dissolved
Sample OUTFALL-001A (280-187434-1) was analyzed for Chromium, Trivalent - Potentially Dissolved. The sample was prepared on 2/15/2024 and analyzed on 2/15/2024 and 2/19/2024.

Method SM3500 CR B - Chromium, Trivalent - Total Recoverable
Sample OUTFALL-001A (280-187434-1) was analyzed for Chromium, Trivalent - Total Recoverable. The sample was prepared on 2/15/2024 and analyzed on 2/9/2024, 2/15/2024 and 2/19/2024.

Method SM 4500 H+ B - pH
Sample OUTFALL-001A (280-187434-1) was analyzed for pH. The sample was analyzed on 2/9/2024.

The sample duplicate (DUP) precision for analytical batch 280-642625 was outside control limits. Sample non-homogeneity is suspected.

Sample did not equilibrate to within 0.05 pH units after three measurements but its duplicate did therefore the sample was not rerun: OUTFALL-001A (280-187434-1) and (280-187434-C-1 DU).

Method SM 4500 S2 D - Sulfide, Total
Sample OUTFALL-001A (280-187434-1) was analyzed for Sulfide, Total. The sample was analyzed on 2/9/2024.

Method SM4500 S2 H - Unionized Hydrogen Sulfide
Sample OUTFALL-001A (280-187434-1) was analyzed for Unionized Hydrogen Sulfide. The sample was analyzed on 2/11/2024.

Detection Summary

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

Job ID: 280-187434-1

Client Sample ID: OUTFALL-001A — Lab Sample ID: 280-187434-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	12	J	100	9.1	ug/L	1		200.7 Rev 4.4	Total Recoverable
Chromium	1.8	J B	3.0	0.50	ug/L	1		200.8	Total Recoverable
Copper	1.6	J	2.0	0.71	ug/L	1		200.8	Total Recoverable
Lead	0.42	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	3.5		2.0	0.71	ug/L	1		200.8	Potentially Dissolved
Lead	0.40	J	1.0	0.23	ug/L	1		200.8	Potentially Dissolved
Manganese	0.58	J	3.0	0.51	ug/L	1		200.8	Potentially Dissolved
Silver	0.062	J	0.50	0.045	ug/L	1		200.8	Potentially Dissolved
Zinc	20		10	2.0	ug/L	1		200.8	Potentially Dissolved
Specific Conductance	240		2.0	2.0	umhos/cm	1		SM 2510B	Total/NA
pH adj. to 25 deg C	7.3	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	7.3		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	240		2.0	2.0	umhos/cm	1		SM4500 S2 H	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

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

Job ID: 280-187434-1

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: 280-187434-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-187434-1	OUTFALL-001A	Water	02/07/24 10:15	02/07/24 13:24

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

Client Sample ID: OUTFALL-001A
Date Collected: 02/07/24 10:15
Date Received: 02/07/24 13:24

Lab Sample ID: 280-187434-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**12**	**J**	100	9.1	ug/L		02/08/24 08:39	02/08/24 21:33	1

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

Client Sample ID: OUTFALL-001A
Date Collected: 02/07/24 10:15
Date Received: 02/07/24 13:24

Lab Sample ID: 280-187434-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		02/08/24 08:39	02/08/24 17:15	1
Cadmium	ND		1.0	0.19	ug/L		02/08/24 08:39	02/08/24 17:15	1
Chromium	**1.8**	**J B**	3.0	0.50	ug/L		02/08/24 08:39	02/08/24 17:15	1
Copper	**1.6**	**J**	2.0	0.71	ug/L		02/08/24 08:39	02/08/24 17:15	1
Lead	**0.42**	**J**	1.0	0.23	ug/L		02/08/24 08:39	02/08/24 17:15	1
Zinc	**15**		10	2.0	ug/L		02/08/24 08:39	02/08/24 17:15	1

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

Client Sample ID: OUTFALL-001A
Date Collected: 02/07/24 10:15
Date Received: 02/07/24 13:24

Lab Sample ID: 280-187434-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		02/15/24 08:55	02/15/24 16:13	1
Cadmium	ND		1.0	0.19	ug/L		02/15/24 08:55	02/15/24 16:13	1
Chromium	ND		3.0	0.50	ug/L		02/15/24 08:55	02/15/24 16:13	1
Copper	**3.5**		2.0	0.71	ug/L		02/15/24 08:55	02/15/24 16:13	1
Lead	**0.40**	**J**	1.0	0.23	ug/L		02/15/24 08:55	02/15/24 16:13	1
Manganese	**0.58**	**J**	3.0	0.51	ug/L		02/15/24 08:55	02/15/24 16:13	1
Nickel	ND		3.0	0.83	ug/L		02/15/24 08:55	02/15/24 16:13	1
Selenium	ND		5.0	1.0	ug/L		02/15/24 08:55	02/15/24 16:13	1
Silver	**0.062**	**J**	0.50	0.045	ug/L		02/15/24 08:55	02/15/24 16:13	1
Zinc	**20**		10	2.0	ug/L		02/15/24 08:55	02/15/24 16:13	1

Method: EPA 245.1 - Mercury (CVAA)

Client Sample ID: OUTFALL-001A
Date Collected: 02/07/24 10:15
Date Received: 02/07/24 13:24

Lab Sample ID: 280-187434-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.061	ug/L		02/15/24 14:35	02/15/24 20:46	1

General Chemistry

Client Sample ID: OUTFALL-001A
Date Collected: 02/07/24 10:15
Date Received: 02/07/24 13:24

Lab Sample ID: 280-187434-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (SM 2510B)	**240**		2.0	2.0	umhos/cm			02/15/24 15:55	1
Total Suspended Solids (SM 2540D)	ND		4.0	1.1	mg/L			02/08/24 13:26	1
Chromium, hexavalent (SM 3500 CR B)	ND		0.020	0.0040	mg/L			02/07/24 16:43	1
pH adj. to 25 deg C (SM 4500 H+ B	**7.3**	**HF**	0.1	0.1	SU			02/09/24 18:24	1
Temperature (SM 4500 H+ B)	**23.2**	**HF**	1.0	1.0	Degrees C			02/09/24 18:24	1

General Chemistry (Continued)

Client Sample ID: OUTFALL-001A
Date Collected: 02/07/24 10:15
Date Received: 02/07/24 13:24

Lab Sample ID: 280-187434-1
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			02/09/24 19:30	1
Un-ionized Hydrogen Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			02/11/24 18:43	1
Field pH (SM4500 S2 H)	**7.3**		1.0	1.0	SU			02/11/24 18:43	1
Field Temperature (SM4500 S2 H)	**23**		1.0	1.0	Celsius			02/11/24 18:43	1
Specific Conductance (SM4500 S2 H)	**240**		2.0	2.0	umhos/cm			02/11/24 18:43	1
Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			02/11/24 18:43	1

General Chemistry - Total Recoverable

Client Sample ID: OUTFALL-001A
Date Collected: 02/07/24 10:15
Date Received: 02/07/24 13:24

Lab Sample ID: 280-187434-1
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			02/19/24 11:56	1

General Chemistry - Dissolved

Client Sample ID: OUTFALL-001A
Date Collected: 02/07/24 10:15
Date Received: 02/07/24 13:24

Lab Sample ID: 280-187434-1
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			02/07/24 16:35	1

General Chemistry - Potentially Dissolved

Client Sample ID: OUTFALL-001A
Date Collected: 02/07/24 10:15
Date Received: 02/07/24 13:24

Lab Sample ID: 280-187434-1
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			02/19/24 11:56	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 280-642362/1-A
Matrix: Water
Analysis Batch: 642573

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 642362

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		100	9.1	ug/L		02/08/24 08:39	02/08/24 20:32	1

Lab Sample ID: LCS 280-642362/2-A
Matrix: Water
Analysis Batch: 642573

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 642362

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	10000	10100		ug/L		101	85 - 115

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 280-642362/1-A
Matrix: Water
Analysis Batch: 642530

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 642362

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		02/08/24 08:39	02/08/24 16:46	1
Cadmium	ND		1.0	0.19	ug/L		02/08/24 08:39	02/08/24 16:46	1
Chromium	0.638	J	3.0	0.50	ug/L		02/08/24 08:39	02/08/24 16:46	1
Copper	ND		2.0	0.71	ug/L		02/08/24 08:39	02/08/24 16:46	1
Lead	ND		1.0	0.23	ug/L		02/08/24 08:39	02/08/24 16:46	1
Zinc	ND	^+	10	2.0	ug/L		02/08/24 08:39	02/08/24 16:46	1

Lab Sample ID: LCS 280-642362/26-A
Matrix: Water
Analysis Batch: 642530

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 642362

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	40.0	41.0		ug/L		102	89 - 111
Cadmium	40.0	40.0		ug/L		100	89 - 111
Chromium	40.0	42.4		ug/L		106	86 - 115
Copper	40.0	40.9		ug/L		102	90 - 115
Lead	40.0	41.2		ug/L		103	88 - 115
Zinc	40.0	41.0	^+	ug/L		103	88 - 115

Lab Sample ID: MB 280-642611/1-C
Matrix: Water
Analysis Batch: 643214

Client Sample ID: Method Blank
Prep Type: Potentially Dissolved
Prep Batch: 643016

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		02/15/24 08:55	02/15/24 16:09	1
Cadmium	ND		1.0	0.19	ug/L		02/15/24 08:55	02/15/24 16:09	1
Chromium	ND		3.0	0.50	ug/L		02/15/24 08:55	02/15/24 16:09	1
Copper	ND		2.0	0.71	ug/L		02/15/24 08:55	02/15/24 16:09	1
Lead	ND		1.0	0.23	ug/L		02/15/24 08:55	02/15/24 16:09	1
Manganese	ND		3.0	0.51	ug/L		02/15/24 08:55	02/15/24 16:09	1
Nickel	ND		3.0	0.83	ug/L		02/15/24 08:55	02/15/24 16:09	1
Selenium	ND		5.0	1.0	ug/L		02/15/24 08:55	02/15/24 16:09	1
Silver	ND		0.50	0.045	ug/L		02/15/24 08:55	02/15/24 16:09	1
Zinc	ND		10	2.0	ug/L		02/15/24 08:55	02/15/24 16:09	1

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: LCS 280-642611/2-D
Matrix: Water
Analysis Batch: 643214

Client Sample ID: Lab Control Sample
Prep Type: Potentially Dissolved
Prep Batch: 643016

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	40.0	41.5		ug/L		104	89 - 111
Cadmium	40.0	40.2		ug/L		100	89 - 111
Chromium	40.0	40.6		ug/L		101	86 - 115
Copper	40.0	41.2		ug/L		103	90 - 115
Lead	40.0	39.3		ug/L		98	88 - 115
Manganese	40.0	42.1		ug/L		105	87 - 115
Nickel	40.0	40.5		ug/L		101	86 - 115
Selenium	40.0	41.0		ug/L		102	85 - 114
Silver	40.0	40.5		ug/L		101	90 - 114
Zinc	40.0	40.8		ug/L		102	88 - 115

Lab Sample ID: 280-187434-1 MS
Matrix: Water
Analysis Batch: 643214

Client Sample ID: OUTFALL-001A
Prep Type: Potentially Dissolved
Prep Batch: 643016

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	ND		40.0	40.8		ug/L		102	79 - 120
Cadmium	ND		40.0	39.2		ug/L		98	89 - 111
Chromium	ND		40.0	40.5		ug/L		101	86 - 115
Copper	3.5		40.0	41.6		ug/L		95	90 - 115
Lead	0.40	J	40.0	40.6		ug/L		100	88 - 115
Manganese	0.58	J	40.0	40.3		ug/L		99	87 - 115
Nickel	ND		40.0	39.3		ug/L		98	86 - 115
Selenium	ND		40.0	40.5		ug/L		101	85 - 114
Silver	0.062	J	40.0	40.5		ug/L		101	70 - 130
Zinc	20		40.0	57.3		ug/L		93	88 - 115

Lab Sample ID: 280-187434-1 MSD
Matrix: Water
Analysis Batch: 643214

Client Sample ID: OUTFALL-001A
Prep Type: Potentially Dissolved
Prep Batch: 643016

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	ND		40.0	41.3		ug/L		103	79 - 120	1	20
Cadmium	ND		40.0	40.5		ug/L		101	89 - 111	3	20
Chromium	ND		40.0	40.1		ug/L		100	86 - 115	1	20
Copper	3.5		40.0	41.4		ug/L		95	90 - 115	0	20
Lead	0.40	J	40.0	39.9		ug/L		99	88 - 115	2	20
Manganese	0.58	J	40.0	42.0		ug/L		104	87 - 115	4	20
Nickel	ND		40.0	40.2		ug/L		100	86 - 115	2	20
Selenium	ND		40.0	39.4		ug/L		99	85 - 114	3	20
Silver	0.062	J	40.0	40.5		ug/L		101	70 - 130	0	20
Zinc	20		40.0	60.0		ug/L		100	88 - 115	5	20

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 280-643144/1-A
Matrix: Water
Analysis Batch: 643333

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 643144

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.061	ug/L		02/15/24 14:35	02/15/24 20:38	1

Lab Sample ID: LCS 280-643144/2-A
Matrix: Water
Analysis Batch: 643333

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 643144

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	4.55		ug/L		91	90 - 110

Lab Sample ID: LCSD 280-643144/3-A
Matrix: Water
Analysis Batch: 643333

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 643144

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	5.00	4.81		ug/L		96	90 - 110	6	10

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: MB 280-643187/5
Matrix: Water
Analysis Batch: 643187

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			02/15/24 15:55	1

Lab Sample ID: LCS 280-643187/4
Matrix: Water
Analysis Batch: 643187

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	1430		umhos/cm		101	90 - 110

Lab Sample ID: 280-187434-1 DU
Matrix: Water
Analysis Batch: 643187

Client Sample ID: OUTFALL-001A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Specific Conductance	240		243		umhos/cm		0.3	10

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 280-642469/1
Matrix: Water
Analysis Batch: 642469

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			02/08/24 13:26	1

Method: SM 2540D - Solids, Total Suspended (TSS) (Continued)

Lab Sample ID: LCS 280-642469/2
Matrix: Water
Analysis Batch: 642469

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	484		mg/L		97	79 - 114

Lab Sample ID: LCSD 280-642469/3
Matrix: Water
Analysis Batch: 642469

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	501	444		mg/L		89	79 - 114	9	20

Method: SM 3500 CR B - Chromium, Hexavalent

Lab Sample ID: MB 280-642368/19
Matrix: Water
Analysis Batch: 642368

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			02/07/24 16:42	1

Lab Sample ID: LCS 280-642368/17
Matrix: Water
Analysis Batch: 642368

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 280-642368/18
Matrix: Water
Analysis Batch: 642368

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: 280-187434-1 MS
Matrix: Water
Analysis Batch: 642368

Client Sample ID: OUTFALL-001A
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	0.103		mg/L		103	91 - 112

Lab Sample ID: 280-187434-1 MSD
Matrix: Water
Analysis Batch: 642368

Client Sample ID: OUTFALL-001A
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	0.103		mg/L		103	91 - 112	0	20

Method: SM 3500 CR B - Chromium, Hexavalent (Continued)

Lab Sample ID: 280-187434-1 DU
Matrix: Water
Analysis Batch: 642368

Client Sample ID: OUTFALL-001A
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 280-642366/3-A
Matrix: Water
Analysis Batch: 642368

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			02/07/24 16:34	1

Lab Sample ID: LCS 280-642366/1-A
Matrix: Water
Analysis Batch: 642368

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	0.101		mg/L		101	91 - 112		

Lab Sample ID: LCSD 280-642366/2-A
Matrix: Water
Analysis Batch: 642368

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	0.102		mg/L		102	91 - 112	1	20

Lab Sample ID: 280-187434-1 MS
Matrix: Water
Analysis Batch: 642368

Client Sample ID: OUTFALL-001A
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chromium, hexavalent	ND		0.100	0.102		mg/L		102	91 - 112		

Lab Sample ID: 280-187434-1 MSD
Matrix: Water
Analysis Batch: 642368

Client Sample ID: OUTFALL-001A
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	0.103		mg/L		103	91 - 112	0	20

Lab Sample ID: 280-187434-1 DU
Matrix: Water
Analysis Batch: 642368

Client Sample ID: OUTFALL-001A
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 280-642625/31
Matrix: Water
Analysis Batch: 642625

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

Lab Sample ID: 280-187434-1 DU
Matrix: Water
Analysis Batch: 642625

Client Sample ID: OUTFALL-001A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH adj. to 25 deg C	7.3	HF	7.9	F3	SU		7	5
Temperature	23.2	HF	22.7		Degrees C		2	10

Method: SM 4500 S2 D - Sulfide, Total

Lab Sample ID: MB 280-642623/11
Matrix: Water
Analysis Batch: 642623

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			02/09/24 19:17	1

Lab Sample ID: LCS 280-642623/9
Matrix: Water
Analysis Batch: 642623

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	0.481		mg/L		96	81 - 122

Lab Sample ID: LCSD 280-642623/10
Matrix: Water
Analysis Batch: 642623

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	0.481		mg/L		96	81 - 122	0	10

Lab Sample ID: 280-187434-1 MS
Matrix: Water
Analysis Batch: 642623

Client Sample ID: OUTFALL-001A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	ND		0.501	0.457		mg/L		91	81 - 122

Lab Sample ID: 280-187434-1 MSD
Matrix: Water
Analysis Batch: 642623

Client Sample ID: OUTFALL-001A
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	0.458		mg/L		91	81 - 122	0	10

QC Association Summary

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

Job ID: 280-187434-1

Metals

Prep Batch: 642362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-187434-1	OUTFALL-001A	Total Recoverable	Water	200.8	
MB 280-642362/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-642362/26-A	Lab Control Sample	Total Recoverable	Water	200.8	
LCS 280-642362/2-A	Lab Control Sample	Total Recoverable	Water	200.8	

Analysis Batch: 642530

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-187434-1	OUTFALL-001A	Total Recoverable	Water	200.8	642362
MB 280-642362/1-A	Method Blank	Total Recoverable	Water	200.8	642362
LCS 280-642362/26-A	Lab Control Sample	Total Recoverable	Water	200.8	642362

Analysis Batch: 642573

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-187434-1	OUTFALL-001A	Total Recoverable	Water	200.7 Rev 4.4	642362
MB 280-642362/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	642362
LCS 280-642362/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	642362

Filtration Batch: 642611

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-187434-1	OUTFALL-001A	Potentially Dissolvec	Water	Poten_Diss_Met	
MB 280-642611/1-C	Method Blank	Potentially Dissolvec	Water	Poten_Diss_Met	
LCS 280-642611/2-D	Lab Control Sample	Potentially Dissolvec	Water	Poten_Diss_Met	
280-187434-1 MS	OUTFALL-001A	Potentially Dissolvec	Water	Poten_Diss_Met	
280-187434-1 MSD	OUTFALL-001A	Potentially Dissolvec	Water	Poten_Diss_Met	

Prep Batch: 643016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-187434-1	OUTFALL-001A	Potentially Dissolvec	Water	200.8	642611
MB 280-642611/1-C	Method Blank	Potentially Dissolvec	Water	200.8	642611
LCS 280-642611/2-D	Lab Control Sample	Potentially Dissolvec	Water	200.8	642611
280-187434-1 MS	OUTFALL-001A	Potentially Dissolvec	Water	200.8	642611
280-187434-1 MSD	OUTFALL-001A	Potentially Dissolvec	Water	200.8	642611

Prep Batch: 643144

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-187434-1	OUTFALL-001A	Total/NA	Water	245.1	
MB 280-643144/1-A	Method Blank	Total/NA	Water	245.1	
LCS 280-643144/2-A	Lab Control Sample	Total/NA	Water	245.1	
LCSD 280-643144/3-A	Lab Control Sample Dup	Total/NA	Water	245.1	

Analysis Batch: 643214

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-187434-1	OUTFALL-001A	Potentially Dissolvec	Water	200.8	643016
MB 280-642611/1-C	Method Blank	Potentially Dissolvec	Water	200.8	643016
LCS 280-642611/2-D	Lab Control Sample	Potentially Dissolvec	Water	200.8	643016
280-187434-1 MS	OUTFALL-001A	Potentially Dissolvec	Water	200.8	643016
280-187434-1 MSD	OUTFALL-001A	Potentially Dissolvec	Water	200.8	643016

Analysis Batch: 643333

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-187434-1	OUTFALL-001A	Total/NA	Water	245.1	643144

Metals (Continued)

Analysis Batch: 643333 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-643144/1-A	Method Blank	Total/NA	Water	245.1	643144
LCS 280-643144/2-A	Lab Control Sample	Total/NA	Water	245.1	643144
LCSD 280-643144/3-A	Lab Control Sample Dup	Total/NA	Water	245.1	643144

General Chemistry

Filtration Batch: 642366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-187434-1	OUTFALL-001A	Dissolved	Water	FILTRATION	
MB 280-642366/3-A	Method Blank	Dissolved	Water	FILTRATION	
LCS 280-642366/1-A	Lab Control Sample	Dissolved	Water	FILTRATION	
LCSD 280-642366/2-A	Lab Control Sample Dup	Dissolved	Water	FILTRATION	
280-187434-1 MS	OUTFALL-001A	Dissolved	Water	FILTRATION	
280-187434-1 MSD	OUTFALL-001A	Dissolved	Water	FILTRATION	
280-187434-1 DU	OUTFALL-001A	Dissolved	Water	FILTRATION	

Analysis Batch: 642368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-187434-1	OUTFALL-001A	Dissolved	Water	SM 3500 CR B	642366
280-187434-1	OUTFALL-001A	Total/NA	Water	SM 3500 CR B	
MB 280-642366/3-A	Method Blank	Dissolved	Water	SM 3500 CR B	642366
MB 280-642368/19	Method Blank	Total/NA	Water	SM 3500 CR B	
LCS 280-642366/1-A	Lab Control Sample	Dissolved	Water	SM 3500 CR B	642366
LCS 280-642368/17	Lab Control Sample	Total/NA	Water	SM 3500 CR B	
LCSD 280-642366/2-A	Lab Control Sample Dup	Dissolved	Water	SM 3500 CR B	642366
LCSD 280-642368/18	Lab Control Sample Dup	Total/NA	Water	SM 3500 CR B	
280-187434-1 MS	OUTFALL-001A	Dissolved	Water	SM 3500 CR B	642366
280-187434-1 MS	OUTFALL-001A	Total/NA	Water	SM 3500 CR B	
280-187434-1 MSD	OUTFALL-001A	Dissolved	Water	SM 3500 CR B	642366
280-187434-1 MSD	OUTFALL-001A	Total/NA	Water	SM 3500 CR B	
280-187434-1 DU	OUTFALL-001A	Dissolved	Water	SM 3500 CR B	642366
280-187434-1 DU	OUTFALL-001A	Total/NA	Water	SM 3500 CR B	

Analysis Batch: 642469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-187434-1	OUTFALL-001A	Total/NA	Water	SM 2540D	
MB 280-642469/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 280-642469/2	Lab Control Sample	Total/NA	Water	SM 2540D	
LCSD 280-642469/3	Lab Control Sample Dup	Total/NA	Water	SM 2540D	

Analysis Batch: 642623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-187434-1	OUTFALL-001A	Total/NA	Water	SM 4500 S2 D	
MB 280-642623/11	Method Blank	Total/NA	Water	SM 4500 S2 D	
LCS 280-642623/9	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
LCSD 280-642623/10	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 D	
280-187434-1 MS	OUTFALL-001A	Total/NA	Water	SM 4500 S2 D	
280-187434-1 MSD	OUTFALL-001A	Total/NA	Water	SM 4500 S2 D	

QC Association Summary

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

Job ID: 280-187434-1

General Chemistry

Analysis Batch: 642625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-187434-1	OUTFALL-001A	Total/NA	Water	SM 4500 H+ B	
LCS 280-642625/31	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
280-187434-1 DU	OUTFALL-001A	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 642630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-187434-1	OUTFALL-001A	Total/NA	Water	SM4500 S2 H	

Analysis Batch: 643187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-187434-1	OUTFALL-001A	Total/NA	Water	SM 2510B	
MB 280-643187/5	Method Blank	Total/NA	Water	SM 2510B	
LCS 280-643187/4	Lab Control Sample	Total/NA	Water	SM 2510B	
280-187434-1 DU	OUTFALL-001A	Total/NA	Water	SM 2510B	

Analysis Batch: 643423

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-187434-1	OUTFALL-001A	Potentially Dissolvec	Water	SM3500 CR B	
280-187434-1	OUTFALL-001A	Total Recoverable	Water	SM3500 CR B	

Lab Chronicle

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

Job ID: 280-187434-1

Client Sample ID: OUTFALL-001A

Date Collected: 02/07/24 10:15
Date Received: 02/07/24 13:24

Lab Sample ID: 280-187434-1

Matrix: Water

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	642362	02/08/24 08:39	CAF	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			642573	02/08/24 21:33	ADL	EET DEN
Potentially Dissolvec	Filtration	Poten_Diss_Met			150 mL	150 mL	642611	02/09/24 15:16	MSM	EET DEN
Potentially Dissolvec	Prep	200.8			50 mL	50 mL	643016	02/15/24 08:55	AES	EET DEN
Potentially Dissolvec	Analysis	200.8		1			643214	02/15/24 16:13	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	642362	02/08/24 08:39	CAF	EET DEN
Total Recoverable	Analysis	200.8		1			642530	02/08/24 17:15	LMT	EET DEN
Total/NA	Prep	245.1			30 mL	50 mL	643144	02/15/24 14:35	KMS	EET DEN
Total/NA	Analysis	245.1		1			643333	02/15/24 20:46	KMS	EET DEN
Total/NA	Analysis	SM 2510B		1			643187	02/15/24 15:55	LL	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	642469	02/08/24 13:26	AKF	EET DEN
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	642366	02/07/24 15:16	SL	EET DEN
Dissolved	Analysis	SM 3500 CR B		1	2 mL	2 mL	642368	02/07/24 16:35	SL	EET DEN
Total/NA	Analysis	SM 3500 CR B		1	2 mL	2 mL	642368	02/07/24 16:43	SL	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			642625	02/09/24 18:24	LL	EET DEN
Total/NA	Analysis	SM 4500 S2 D		1	2 mL	2 mL	642623	02/09/24 19:30	SL	EET DEN
Potentially Dissolvec	Analysis	SM3500 CR B		1			643423	02/19/24 11:56	RMS	EET DEN
Total Recoverable	Analysis	SM3500 CR B		1			643423	02/19/24 11:56	RMS	EET DEN
Total/NA	Analysis	SM4500 S2 H		1			642630	02/11/24 18:43	C1A	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: 280-187434-1

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	10-31-24
A2LA	ISO/IEC 17025	2907.01	10-31-25
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	11-30-25
Arizona	State	AZ0713	12-20-24
Arkansas DEQ	State	19-047-0	04-21-24
California	State	2513	01-08-25
Connecticut	State	PH-0686	09-30-24
Florida	NELAP	E87667-57	06-30-24
Georgia	State	4025-011	01-08-25
Illinois	NELAP	2000172019-1	04-30-24
Iowa	State	370	12-01-24
Kansas	NELAP	E-10166	04-30-24
Kentucky (WW)	State	KY98047	12-31-24
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-23 *
Louisiana (All)	NELAP	30785	06-30-24
Minnesota	NELAP	1788752	12-31-24
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 Dakota	State	R-034	01-08-24 *
Oklahoma	NELAP	8614	08-31-24
Oregon	NELAP	4025-020	01-08-25
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	11-30-24
Wisconsin	State	999615430	08-31-24
Wyoming (UST)	A2LA	2907.01	10-31-25

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

Eurofins TestAmerica, Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Phone (303) 431-7171

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: P BREWER	Lab PM: Bieniulis, Dylan T	Carrier Tracking No(s):	COC No:
Client Contact: Patrick Delaney	Phone: 303-304-1183	E-Mail: Dylan.Bieniulis@et.eurofinsus.com	State of Origin:	Page:
Company: Grand Island Resources	PWSID:			Job #:
Address: 12567 West Cedar Road Suite 250	Due Date Requested:			
City: Lakewood	TAT Requested (days):			
State, Zip: CO, 80466	Compliance Project: Δ Yes Δ No			
Phone: 315-414-6986	PO #: Advance Payment Required			
Email: pdelaney@blackfoxmining.com	WO #:			
Project Name: Nederland, CO	Project #: 28022821			
Site: First half of the month event	SSOW#:			

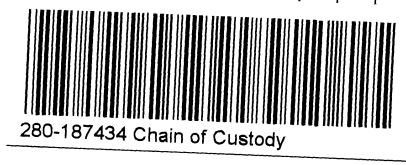
Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2510B - Specific Conductance, 2540D - TSS, SM4500_H+ - pH / Temp	3500_CR_B - Total Hexavalent Cr and Trivalent Cr (calc)	3500_CR_B - Dissolved Hexavalent Cr (LAB FILTER) and Potentially Dissolved Trivalent Cr (calc)	SM4500_S2_D - Sulfide and SM3500_S2_H - Unionized Hydrogen Sulfide (calc)	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)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	CB	D	D		
CUTFALL - CCIA	2-7-24	10:15 am	G	W	N		X	X	XX		X	X		*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 total recoverable metals permit list = 200.7 (Fe), 200.8 (As, Cd, Cr, Cu, Pb, Zn), and 245.1 (Hg)
														TEMP = 5°C
														PH = 7.5



Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☒ Archive For 1 Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	SP Brewer	2-7-24 1:24pm	EIR		2/7/24 1324	EETDEN
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 6.0 °C FO.1 IR14

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Grand Island Resources

Job Number: 280-187434-1

Login Number: 187434
List Number: 1
Creator: Roehsner, Karen P

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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	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 <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Brooke Molson Moran
Grand Island Resources
12567 West Cedar Road
Suite 110
Lakewood, Colorado 80228

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JOB DESCRIPTION

Nederland, CO

JOB NUMBER

280-188004-1

Eurofins Denver
4955 Yarrow Street
Arvada CO 80002

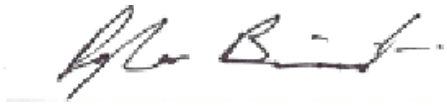
See page two for job notes and contact information.

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

Table of Contents

Definitions/Glossary

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

Job ID: 280-188004-1

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.
¤	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

Job Narrative
280-188004-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
- 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.

This report may include reporting limits (RLs) lower than Eurofins Environmental Testing standard reporting limits. 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.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

If potentially dissolved silver by method 200.8 is requested for samples on the chain of custody, this report contains a client specific, custom reporting limit.

Receipt
The sample was received on 2/22/2024 4:05 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.2°C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

Method 200.8 - Metals (ICP/MS) - Potentially Dissolved
Sample OUTFALL 001 (280-188004-1) was analyzed for Metals (ICP/MS) - Potentially Dissolved. The sample was prepared on 2/26/2024 and analyzed on 2/28/2024.

Method 200.8 - Metals (ICP/MS) - Total Recoverable
Sample OUTFALL 001 (280-188004-1) was analyzed for Metals (ICP/MS) - Total Recoverable. The sample was prepared and analyzed on 2/28/2024.

Detection Summary

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

Job ID: 280-188004-1

Client Sample ID: OUTFALL 001

Lab Sample ID: 280-188004-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.30	J	1.0	0.23	ug/L	1		200.8	Total Recoverable
Lead	0.37	J	1.0	0.23	ug/L	1		200.8	Potentially Dissolved
Zinc	24		10	2.0	ug/L	1		200.8	Potentially Dissolved

This Detection Summary does not include radiochemical test results.

Method Summary

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

Job ID: 280-188004-1

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: 280-188004-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-188004-1	OUTFALL 001	Water	02/22/24 11:00	02/22/24 16:05

Client Sample Results

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

Job ID: 280-188004-1

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

Client Sample ID: OUTFALL 001
Date Collected: 02/22/24 11:00
Date Received: 02/22/24 16:05

Lab Sample ID: 280-188004-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		2.0	0.71	ug/L		02/28/24 08:28	02/28/24 18:37	1
Lead	**0.30**	**J**	1.0	0.23	ug/L		02/28/24 08:28	02/28/24 18:37	1

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

Client Sample ID: OUTFALL 001
Date Collected: 02/22/24 11:00
Date Received: 02/22/24 16:05

Lab Sample ID: 280-188004-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		1.0	0.19	ug/L		02/26/24 17:49	02/28/24 15:39	1
Copper	ND		2.0	0.71	ug/L		02/26/24 17:49	02/28/24 15:39	1
Lead	**0.37**	**J**	1.0	0.23	ug/L		02/26/24 17:49	02/28/24 15:39	1
Silver	ND		0.50	0.045	ug/L		02/26/24 17:49	02/28/24 15:39	1
Zinc	**24**		10	2.0	ug/L		02/26/24 17:49	02/28/24 15:39	1

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

Job ID: 280-188004-1

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 280-644235/1-A
Matrix: Water
Analysis Batch: 644495

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 644235

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		2.0	0.71	ug/L		02/28/24 08:28	02/28/24 18:32	1
Lead	ND		1.0	0.23	ug/L		02/28/24 08:28	02/28/24 18:32	1

Lab Sample ID: LCS 280-644235/2-A
Matrix: Water
Analysis Batch: 644495

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 644235

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	38.9		ug/L		97	88 - 115

Lab Sample ID: MB 280-643924/1-B
Matrix: Water
Analysis Batch: 644495

Client Sample ID: Method Blank
Prep Type: Potentially Dissolved
Prep Batch: 644143

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		1.0	0.19	ug/L		02/26/24 17:49	02/28/24 15:28	1
Copper	ND		2.0	0.71	ug/L		02/26/24 17:49	02/28/24 15:28	1
Lead	ND		1.0	0.23	ug/L		02/26/24 17:49	02/28/24 15:28	1
Silver	ND		0.50	0.045	ug/L		02/26/24 17:49	02/28/24 15:28	1
Zinc	ND		10	2.0	ug/L		02/26/24 17:49	02/28/24 15:28	1

Lab Sample ID: LCS 280-643924/2-B
Matrix: Water
Analysis Batch: 644495

Client Sample ID: Lab Control Sample
Prep Type: Potentially Dissolved
Prep Batch: 644143

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cadmium	40.0	41.2		ug/L		103	89 - 111
Copper	40.0	41.3		ug/L		103	90 - 115
Lead	40.0	40.5		ug/L		101	88 - 115
Silver	40.0	40.7		ug/L		102	90 - 114
Zinc	40.0	43.9		ug/L		110	88 - 115

QC Association Summary

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

Job ID: 280-188004-1

Metals

Filtration Batch: 643924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-188004-1	OUTFALL 001	Potentially Dissolvec	Water	Poten_Diss_Met	
MB 280-643924/1-B	Method Blank	Potentially Dissolvec	Water	Poten_Diss_Met	
LCS 280-643924/2-B	Lab Control Sample	Potentially Dissolvec	Water	Poten_Diss_Met	

Prep Batch: 644143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-188004-1	OUTFALL 001	Potentially Dissolvec	Water	200.8	643924
MB 280-643924/1-B	Method Blank	Potentially Dissolvec	Water	200.8	643924
LCS 280-643924/2-B	Lab Control Sample	Potentially Dissolvec	Water	200.8	643924

Prep Batch: 644235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-188004-1	OUTFALL 001	Total Recoverable	Water	200.8	
MB 280-644235/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-644235/2-A	Lab Control Sample	Total Recoverable	Water	200.8	

Analysis Batch: 644495

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-188004-1	OUTFALL 001	Potentially Dissolvec	Water	200.8	644143
280-188004-1	OUTFALL 001	Total Recoverable	Water	200.8	644235
MB 280-643924/1-B	Method Blank	Potentially Dissolvec	Water	200.8	644143
MB 280-644235/1-A	Method Blank	Total Recoverable	Water	200.8	644235
LCS 280-643924/2-B	Lab Control Sample	Potentially Dissolvec	Water	200.8	644143
LCS 280-644235/2-A	Lab Control Sample	Total Recoverable	Water	200.8	644235

Lab Chronicle

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

Job ID: 280-188004-1

Client Sample ID: OUTFALL 001

Date Collected: 02/22/24 11:00
Date Received: 02/22/24 16:05

Lab Sample ID: 280-188004-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Potentially Dissolvec	Filtration	Poten_Diss_Met			200 mL	200 mL	643924	02/22/24 20:30	LRD	EET DEN
Potentially Dissolvec	Prep	200.8			50 mL	50 mL	644143	02/26/24 17:49	AES	EET DEN
Potentially Dissolvec	Analysis	200.8		1			644495	02/28/24 15:39	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	644235	02/28/24 08:28	AES	EET DEN
Total Recoverable	Analysis	200.8		1			644495	02/28/24 18:37	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: 280-188004-1

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	10-31-24
A2LA	ISO/IEC 17025	2907.01	10-31-25
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	11-30-25
Arizona	State	AZ0713	12-20-24
Arkansas DEQ	State	19-047-0	04-21-24
California	State	2513	01-08-25
Connecticut	State	PH-0686	09-30-24
Florida	NELAP	E87667-57	06-30-24
Georgia	State	4025-011	01-08-25
Illinois	NELAP	2000172019-1	04-30-24
Iowa	State	370	12-01-24
Kansas	NELAP	E-10166	04-30-24
Kentucky (WW)	State	KY98047	12-31-24
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-23 *
Louisiana (All)	NELAP	30785	06-30-24
Minnesota	NELAP	1788752	12-31-24
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 Dakota	State	R-034	01-08-24 *
Oklahoma	NELAP	8614	08-31-24
Oregon	NELAP	4025-020	01-08-25
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	11-30-24
Wisconsin	State	999615430	08-31-24
Wyoming (UST)	A2LA	2907.01	10-31-25

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

Eurofins TestAmerica, Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Phone (303) 431-7171

Chain of Custody Record

eurofins | Environment Testing America

Client Information

Client Contact: Patrick Delaney	Sampler: BM	Lab PM: Bieniulis, Dylan T	Carrier Tracking No(s):	COC No:
	Phone: 303-506-1618	E-Mail: Dylan.Bieniulis@et.eurofinsus.com	State of Origin:	Page:
Company: Grand Island Resources	PWSID:			Job #:
Address: 12567 West Cedar Road Suite 250	Due Date Requested:			
City: Lakewood	TAT Requested (days):			
State, Zip: CO, 80466	Compliance Project: Δ Yes Δ No			
Phone: 315-414-6986	PO #: Advance Payment Required			
Email: pdelaney@blackfoxmining.com	WO #:			
Project Name: Nederland, CO	Project #: 28022821			
Site: second half of the month event	SSOW#:			

Analysis Requested

Preservation Codes:
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, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	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:
			Preservation Code:		X	X	D	D	X	
OUTFALL001	2/22/24	11am	G	W			X	X		*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)
										temp = 4°C
										pH = 7.6

280-188004 Chain of Custody

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☒ Archive For 1 Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[illegible] Moran	2/22/24 13:04	GIR	JP Brewer	2/22/24 107pm	GIR
JP Brewer	2/22/24 1605 pm	GIR	[illegible]	2/22/24 1605	[illegible]

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 3.7/3.4 (7.0)

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Grand Island Resources

Job Number: 280-188004-1

Login Number: 188004
List Number: 1
Creator: Naylis, Patrick J

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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 <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Brooke Molson Moran
Grand Island Resources
12567 West Cedar Road
Suite 110
Lakewood, Colorado 80228

Generated 3/19/2024 1:07:48 PM

JOB DESCRIPTION

Nederland, CO

JOB NUMBER

280-188461-1

Eurofins Denver
4955 Yarrow Street
Arvada CO 80002

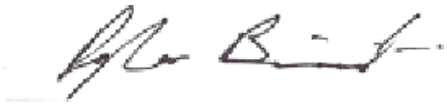
See page two for job notes and contact information.

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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3/19/2024 1:07:48 PM

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

Table of Contents

Definitions/Glossary

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

Job ID: 280-188461-1

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	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

Job Narrative
280-188461-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
- 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.

This report may include reporting limits (RLs) lower than Eurofins Environmental Testing standard reporting limits. 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.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

If potentially dissolved silver by method 200.8 is requested for samples on the chain of custody, this report contains a client specific, custom reporting limit.

Receipt
The sample was received on 3/6/2024 4:50 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.1°C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

Method 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable
Sample OUTFALL 001 (280-188461-1) was analyzed for Metals (ICP) - Total Recoverable. The sample was prepared and analyzed on 3/11/2024.

Method 200.8 - Metals (ICP/MS) - Potentially Dissolved
Sample OUTFALL 001 (280-188461-1) was analyzed for Metals (ICP/MS) - Potentially Dissolved. The sample was prepared and analyzed on 3/13/2024.

Method 200.8 - Metals (ICP/MS) - Total Recoverable
Sample OUTFALL 001 (280-188461-1) was analyzed for Metals (ICP/MS) - Total Recoverable. The sample was prepared and analyzed on 3/11/2024.

Method 245.1 - Mercury (CVAA)
Sample OUTFALL 001 (280-188461-1) was analyzed for Mercury (CVAA). The sample was prepared and analyzed on 3/8/2024.

Method SM 2510B - Conductivity, Specific Conductance
Sample OUTFALL 001 (280-188461-1) was analyzed for Conductivity, Specific Conductance. The sample was analyzed on 3/11/2024.

Method SM 2540D - Solids, Total Suspended (TSS)
Sample OUTFALL 001 (280-188461-1) was analyzed for Solids, Total Suspended (TSS). The sample was analyzed on 3/7/2024.

Method SM 3500 CR B - Chromium, Hexavalent

Job ID: 280-188461-1 (Continued) Eurofins Denver

Sample OUTFALL 001 (280-188461-1) was analyzed for Chromium, Hexavalent. The sample was analyzed on 3/6/2024.

Method SM 3500 CR B - Chromium, Hexavalent - Dissolved
Sample OUTFALL 001 (280-188461-1) was analyzed for Chromium, Hexavalent - Dissolved. The sample was analyzed on 3/6/2024.

Method SM3500 CR B - Chromium, Trivalent - Potentially Dissolved
Sample OUTFALL 001 (280-188461-1) was analyzed for Chromium, Trivalent - Potentially Dissolved. The sample was analyzed on 3/19/2024.

Method SM3500 CR B - Chromium, Trivalent - Total Recoverable
Sample OUTFALL 001 (280-188461-1) was analyzed for Chromium, Trivalent - Total Recoverable. The sample was analyzed on 3/19/2024.

Method SM 4500 H+ B - pH
Sample OUTFALL 001 (280-188461-1) was analyzed for pH. The sample was analyzed on 3/7/2024.

Method SM 4500 S2 D - Sulfide, Total
Sample OUTFALL 001 (280-188461-1) was analyzed for Sulfide, Total. The sample was analyzed on 3/6/2024.

Method SM4500 S2 H - Unionized Hydrogen Sulfide
Sample OUTFALL 001 (280-188461-1) was analyzed for Unionized Hydrogen Sulfide. The sample was analyzed on 3/10/2024.

Detection Summary

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

Job ID: 280-188461-1

Client Sample ID: OUTFALL 001 — Lab Sample ID: 280-188461-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	11		10	2.0	ug/L	1		200.8	Total Recoverable
Silver	0.082	J	0.50	0.045	ug/L	1		200.8	Potentially Dissolved
Zinc	18	B	10	2.0	ug/L	1		200.8	Potentially Dissolved
Specific Conductance	240		2.0	2.0	umhos/cm	1		SM 2510B	Total/NA
pH adj. to 25 deg C	8.1	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Temperature	20.8	HF	1.0	1.0	Degrees C	1		SM 4500 H+ B	Total/NA
Field pH	8.1		1.0	1.0	SU	1		SM4500 S2 H	Total/NA
Field Temperature	21		1.0	1.0	Celsius	1		SM4500 S2 H	Total/NA
Specific Conductance	240		2.0	2.0	umhos/cm	1		SM4500 S2 H	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

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

Job ID: 280-188461-1

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: 280-188461-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-188461-1	OUTFALL 001	Water	03/06/24 12:00	03/06/24 16:50

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

Client Sample ID: OUTFALL 001
Date Collected: 03/06/24 12:00
Date Received: 03/06/24 16:50

Lab Sample ID: 280-188461-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		100	9.1	ug/L		03/11/24 08:49	03/11/24 22:34	1

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

Client Sample ID: OUTFALL 001
Date Collected: 03/06/24 12:00
Date Received: 03/06/24 16:50

Lab Sample ID: 280-188461-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		03/11/24 08:49	03/11/24 17:14	1
Cadmium	ND		1.0	0.19	ug/L		03/11/24 08:49	03/11/24 17:14	1
Chromium	ND		3.0	0.50	ug/L		03/11/24 08:49	03/11/24 17:14	1
Copper	ND		2.0	0.71	ug/L		03/11/24 08:49	03/11/24 17:14	1
Lead	ND		1.0	0.23	ug/L		03/11/24 08:49	03/11/24 17:14	1
Zinc	**11**		10	2.0	ug/L		03/11/24 08:49	03/11/24 17:14	1

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

Client Sample ID: OUTFALL 001
Date Collected: 03/06/24 12:00
Date Received: 03/06/24 16:50

Lab Sample ID: 280-188461-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		03/13/24 08:54	03/13/24 16:39	1
Cadmium	ND		1.0	0.19	ug/L		03/13/24 08:54	03/13/24 16:39	1
Chromium	ND		3.0	0.50	ug/L		03/13/24 08:54	03/13/24 16:39	1
Copper	ND		2.0	0.71	ug/L		03/13/24 08:54	03/13/24 16:39	1
Lead	ND		1.0	0.23	ug/L		03/13/24 08:54	03/13/24 16:39	1
Manganese	ND		3.0	0.51	ug/L		03/13/24 08:54	03/13/24 16:39	1
Nickel	ND		3.0	0.83	ug/L		03/13/24 08:54	03/13/24 16:39	1
Selenium	ND		5.0	1.0	ug/L		03/13/24 08:54	03/13/24 16:39	1
Silver	**0.082**	**J**	0.50	0.045	ug/L		03/13/24 08:54	03/13/24 16:39	1
Zinc	**18**	**B**	10	2.0	ug/L		03/13/24 08:54	03/13/24 16:39	1

Method: EPA 245.1 - Mercury (CVAA)

Client Sample ID: OUTFALL 001
Date Collected: 03/06/24 12:00
Date Received: 03/06/24 16:50

Lab Sample ID: 280-188461-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.061	ug/L		03/08/24 13:30	03/08/24 21:46	1

General Chemistry

Client Sample ID: OUTFALL 001
Date Collected: 03/06/24 12:00
Date Received: 03/06/24 16:50

Lab Sample ID: 280-188461-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (SM 2510B)	**240**		2.0	2.0	umhos/cm			03/11/24 19:46	1
Total Suspended Solids (SM 2540D)	ND		4.0	1.1	mg/L			03/07/24 14:02	1
Chromium, hexavalent (SM 3500 CR B)	ND		0.020	0.0040	mg/L			03/06/24 17:56	1
pH adj. to 25 deg C (SM 4500 H+ B	**8.1**	**HF**	0.1	0.1	SU			03/07/24 21:31	1
Temperature (SM 4500 H+ B)	**20.8**	**HF**	1.0	1.0	Degrees C			03/07/24 21:31	1

General Chemistry (Continued)

Client Sample ID: OUTFALL 001
Date Collected: 03/06/24 12:00
Date Received: 03/06/24 16:50

Lab Sample ID: 280-188461-1
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			03/06/24 20:02	1
Un-ionized Hydrogen Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			03/10/24 19:57	1
Field pH (SM4500 S2 H)	**8.1**		1.0	1.0	SU			03/10/24 19:57	1
Field Temperature (SM4500 S2 H)	**21**		1.0	1.0	Celsius			03/10/24 19:57	1
Specific Conductance (SM4500 S2 H)	**240**		2.0	2.0	umhos/cm			03/10/24 19:57	1
Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			03/10/24 19:57	1

General Chemistry - Total Recoverable

Client Sample ID: OUTFALL 001
Date Collected: 03/06/24 12:00
Date Received: 03/06/24 16:50

Lab Sample ID: 280-188461-1
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			03/19/24 07:52	1

General Chemistry - Dissolved

Client Sample ID: OUTFALL 001
Date Collected: 03/06/24 12:00
Date Received: 03/06/24 16:50

Lab Sample ID: 280-188461-1
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			03/06/24 18:04	1

General Chemistry - Potentially Dissolved

Client Sample ID: OUTFALL 001
Date Collected: 03/06/24 12:00
Date Received: 03/06/24 16:50

Lab Sample ID: 280-188461-1
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			03/19/24 07:52	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 280-645318/1-A
Matrix: Water
Analysis Batch: 645690

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 645318

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		100	9.1	ug/L		03/11/24 08:49	03/11/24 20:50	1

Lab Sample ID: LCS 280-645318/2-A
Matrix: Water
Analysis Batch: 645690

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 645318

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	10000	9800		ug/L		98	85 - 115

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 280-645318/1-A
Matrix: Water
Analysis Batch: 645665

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 645318

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		03/11/24 08:49	03/11/24 16:46	1
Cadmium	ND		1.0	0.19	ug/L		03/11/24 08:49	03/11/24 16:46	1
Chromium	ND		3.0	0.50	ug/L		03/11/24 08:49	03/11/24 16:46	1
Copper	ND		2.0	0.71	ug/L		03/11/24 08:49	03/11/24 16:46	1
Lead	ND		1.0	0.23	ug/L		03/11/24 08:49	03/11/24 16:46	1
Zinc	ND		10	2.0	ug/L		03/11/24 08:49	03/11/24 16:46	1

Lab Sample ID: LCS 280-645318/19-A
Matrix: Water
Analysis Batch: 645665

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 645318

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	40.0	38.1		ug/L		95	89 - 111
Cadmium	40.0	40.0		ug/L		100	89 - 111
Chromium	40.0	38.2		ug/L		95	86 - 115
Copper	40.0	38.6		ug/L		97	90 - 115
Lead	40.0	40.0		ug/L		100	88 - 115
Zinc	40.0	44.1		ug/L		110	88 - 115

Lab Sample ID: MB 280-645461/1-B
Matrix: Water
Analysis Batch: 646018

Client Sample ID: Method Blank
Prep Type: Potentially Dissolved
Prep Batch: 645707

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		03/13/24 08:54	03/13/24 16:27	1
Cadmium	ND		1.0	0.19	ug/L		03/13/24 08:54	03/13/24 16:27	1
Chromium	ND		3.0	0.50	ug/L		03/13/24 08:54	03/13/24 16:27	1
Copper	ND		2.0	0.71	ug/L		03/13/24 08:54	03/13/24 16:27	1
Lead	ND		1.0	0.23	ug/L		03/13/24 08:54	03/13/24 16:27	1
Manganese	ND		3.0	0.51	ug/L		03/13/24 08:54	03/13/24 16:27	1
Nickel	ND		3.0	0.83	ug/L		03/13/24 08:54	03/13/24 16:27	1
Selenium	ND		5.0	1.0	ug/L		03/13/24 08:54	03/13/24 16:27	1
Silver	ND		0.50	0.045	ug/L		03/13/24 08:54	03/13/24 16:27	1
Zinc	4.26	J	10	2.0	ug/L		03/13/24 08:54	03/13/24 16:27	1

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: LCS 280-645461/2-C
Matrix: Water
Analysis Batch: 646018

Client Sample ID: Lab Control Sample
Prep Type: Potentially Dissolved
Prep Batch: 645707

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	40.0	42.8		ug/L		107	89 - 111
Cadmium	40.0	40.6		ug/L		101	89 - 111
Chromium	40.0	42.1		ug/L		105	86 - 115
Copper	40.0	41.6		ug/L		104	90 - 115
Lead	40.0	41.4		ug/L		103	88 - 115
Manganese	40.0	42.5		ug/L		106	87 - 115
Nickel	40.0	42.0		ug/L		105	86 - 115
Selenium	40.0	43.5		ug/L		109	85 - 114
Silver	40.0	40.2		ug/L		101	90 - 114
Zinc	40.0	41.3		ug/L		103	88 - 115

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 280-645391/1-A
Matrix: Water
Analysis Batch: 645554

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 645391

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.061	ug/L		03/08/24 13:30	03/08/24 21:39	1

Lab Sample ID: LCS 280-645391/2-A
Matrix: Water
Analysis Batch: 645554

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 645391

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	5.01		ug/L		100	90 - 110

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: MB 280-645634/4
Matrix: Water
Analysis Batch: 645634

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			03/11/24 19:46	1

Lab Sample ID: LCS 280-645634/3
Matrix: Water
Analysis Batch: 645634

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	1430		umhos/cm		102	90 - 110

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 280-645300/1
Matrix: Water
Analysis Batch: 645300

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			03/07/24 14:02	1

Lab Sample ID: LCS 280-645300/2
Matrix: Water
Analysis Batch: 645300

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			502	468		mg/L		93	79 - 114		

Method: SM 3500 CR B - Chromium, Hexavalent

Lab Sample ID: MB 280-645193/10
Matrix: Water
Analysis Batch: 645193

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			03/06/24 17:55	1

Lab Sample ID: LCS 280-645193/8
Matrix: Water
Analysis Batch: 645193

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		

Lab Sample ID: LCSD 280-645193/9
Matrix: Water
Analysis Batch: 645193

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	0.101		mg/L		101	91 - 112	1	20

Lab Sample ID: 280-188461-1 MS
Matrix: Water
Analysis Batch: 645193

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	0.101		mg/L		101	91 - 112		

Lab Sample ID: 280-188461-1 MSD
Matrix: Water
Analysis Batch: 645193

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	0.103		mg/L		103	91 - 112	3	20

Method: SM 3500 CR B - Chromium, Hexavalent (Continued)

Lab Sample ID: 280-188461-1 DU
Matrix: Water
Analysis Batch: 645193

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 280-645181/3-A
Matrix: Water
Analysis Batch: 645193

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			03/06/24 18:03	1

Lab Sample ID: LCS 280-645181/1-A
Matrix: Water
Analysis Batch: 645193

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	0.101		mg/L		101	91 - 112		

Lab Sample ID: LCSD 280-645181/2-A
Matrix: Water
Analysis Batch: 645193

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	0.102		mg/L		102	91 - 112	0	20

Lab Sample ID: 280-188461-1 MS
Matrix: Water
Analysis Batch: 645193

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	0.103		mg/L		103	91 - 112		

Lab Sample ID: 280-188461-1 MSD
Matrix: Water
Analysis Batch: 645193

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	3	20

Lab Sample ID: 280-188461-1 DU
Matrix: Water
Analysis Batch: 645193

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

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

Job ID: 280-188461-1

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 280-645422/5
Matrix: Water
Analysis Batch: 645422

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 280-645198/11
Matrix: Water
Analysis Batch: 645198

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			03/06/24 19:55	1

Lab Sample ID: LCS 280-645198/9
Matrix: Water
Analysis Batch: 645198

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	0.497		mg/L		99	81 - 122		

Lab Sample ID: LCSD 280-645198/10
Matrix: Water
Analysis Batch: 645198

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	0.510		mg/L		102	81 - 122	3	10

Metals

Prep Batch: 645318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-188461-1	OUTFALL 001	Total Recoverable	Water	200.8	
MB 280-645318/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-645318/19-A	Lab Control Sample	Total Recoverable	Water	200.8	
LCS 280-645318/2-A	Lab Control Sample	Total Recoverable	Water	200.8	

Prep Batch: 645391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-188461-1	OUTFALL 001	Total/NA	Water	245.1	
MB 280-645391/1-A	Method Blank	Total/NA	Water	245.1	
LCS 280-645391/2-A	Lab Control Sample	Total/NA	Water	245.1	

Filtration Batch: 645461

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-188461-1	OUTFALL 001	Potentially Dissolvec	Water	Poten_Diss_Met	
MB 280-645461/1-B	Method Blank	Potentially Dissolvec	Water	Poten_Diss_Met	
LCS 280-645461/2-C	Lab Control Sample	Potentially Dissolvec	Water	Poten_Diss_Met	

Analysis Batch: 645554

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-188461-1	OUTFALL 001	Total/NA	Water	245.1	645391
MB 280-645391/1-A	Method Blank	Total/NA	Water	245.1	645391
LCS 280-645391/2-A	Lab Control Sample	Total/NA	Water	245.1	645391

Analysis Batch: 645665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-188461-1	OUTFALL 001	Total Recoverable	Water	200.8	645318
MB 280-645318/1-A	Method Blank	Total Recoverable	Water	200.8	645318
LCS 280-645318/19-A	Lab Control Sample	Total Recoverable	Water	200.8	645318

Analysis Batch: 645690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-188461-1	OUTFALL 001	Total Recoverable	Water	200.7 Rev 4.4	645318
MB 280-645318/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	645318
LCS 280-645318/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	645318

Prep Batch: 645707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-188461-1	OUTFALL 001	Potentially Dissolvec	Water	200.8	645461
MB 280-645461/1-B	Method Blank	Potentially Dissolvec	Water	200.8	645461
LCS 280-645461/2-C	Lab Control Sample	Potentially Dissolvec	Water	200.8	645461

Analysis Batch: 646018

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-188461-1	OUTFALL 001	Potentially Dissolvec	Water	200.8	645707
MB 280-645461/1-B	Method Blank	Potentially Dissolvec	Water	200.8	645707
LCS 280-645461/2-C	Lab Control Sample	Potentially Dissolvec	Water	200.8	645707

General Chemistry

Filtration Batch: 645181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-188461-1	OUTFALL 001	Dissolved	Water	FILTRATION	
MB 280-645181/3-A	Method Blank	Dissolved	Water	FILTRATION	
LCS 280-645181/1-A	Lab Control Sample	Dissolved	Water	FILTRATION	
LCSD 280-645181/2-A	Lab Control Sample Dup	Dissolved	Water	FILTRATION	
280-188461-1 MS	OUTFALL 001	Dissolved	Water	FILTRATION	
280-188461-1 MSD	OUTFALL 001	Dissolved	Water	FILTRATION	
280-188461-1 DU	OUTFALL 001	Dissolved	Water	FILTRATION	

Analysis Batch: 645193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-188461-1	OUTFALL 001	Dissolved	Water	SM 3500 CR B	645181
280-188461-1	OUTFALL 001	Total/NA	Water	SM 3500 CR B	
MB 280-645181/3-A	Method Blank	Dissolved	Water	SM 3500 CR B	645181
MB 280-645193/10	Method Blank	Total/NA	Water	SM 3500 CR B	
LCS 280-645181/1-A	Lab Control Sample	Dissolved	Water	SM 3500 CR B	645181
LCS 280-645193/8	Lab Control Sample	Total/NA	Water	SM 3500 CR B	
LCSD 280-645181/2-A	Lab Control Sample Dup	Dissolved	Water	SM 3500 CR B	645181
LCSD 280-645193/9	Lab Control Sample Dup	Total/NA	Water	SM 3500 CR B	
280-188461-1 MS	OUTFALL 001	Dissolved	Water	SM 3500 CR B	645181
280-188461-1 MS	OUTFALL 001	Total/NA	Water	SM 3500 CR B	
280-188461-1 MSD	OUTFALL 001	Dissolved	Water	SM 3500 CR B	645181
280-188461-1 MSD	OUTFALL 001	Total/NA	Water	SM 3500 CR B	
280-188461-1 DU	OUTFALL 001	Dissolved	Water	SM 3500 CR B	645181
280-188461-1 DU	OUTFALL 001	Total/NA	Water	SM 3500 CR B	

Analysis Batch: 645198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-188461-1	OUTFALL 001	Total/NA	Water	SM 4500 S2 D	
MB 280-645198/11	Method Blank	Total/NA	Water	SM 4500 S2 D	
LCS 280-645198/9	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
LCSD 280-645198/10	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 D	

Analysis Batch: 645300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-188461-1	OUTFALL 001	Total/NA	Water	SM 2540D	
MB 280-645300/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 280-645300/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 645422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-188461-1	OUTFALL 001	Total/NA	Water	SM 4500 H+ B	
LCS 280-645422/5	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 645489

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-188461-1	OUTFALL 001	Total/NA	Water	SM4500 S2 H	

Analysis Batch: 645634

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-188461-1	OUTFALL 001	Total/NA	Water	SM 2510B	
MB 280-645634/4	Method Blank	Total/NA	Water	SM 2510B	

General Chemistry (Continued)

Analysis Batch: 645634 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 280-645634/3	Lab Control Sample	Total/NA	Water	SM 2510B	

Analysis Batch: 646302

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-188461-1	OUTFALL 001	Potentially Dissolvec	Water	SM3500 CR B	
280-188461-1	OUTFALL 001	Total Recoverable	Water	SM3500 CR B	

Lab Chronicle

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

Job ID: 280-188461-1

Client Sample ID: OUTFALL 001

Date Collected: 03/06/24 12:00
Date Received: 03/06/24 16:50

Lab Sample ID: 280-188461-1

Matrix: Water

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	645318	03/11/24 08:49	AES	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			645690	03/11/24 22:34	ADL	EET DEN
Potentially Dissolvec	Filtration	Poten_Diss_Met			250 mL	250 mL	645461	03/08/24 16:00	LRD	EET DEN
Potentially Dissolvec	Prep	200.8			50 mL	50 mL	645707	03/13/24 08:54	AES	EET DEN
Potentially Dissolvec	Analysis	200.8		1			646018	03/13/24 16:39	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	645318	03/11/24 08:49	AES	EET DEN
Total Recoverable	Analysis	200.8		1			645665	03/11/24 17:14	LMT	EET DEN
Total/NA	Prep	245.1			30 mL	50 mL	645391	03/08/24 13:30	NKC	EET DEN
Total/NA	Analysis	245.1		1			645554	03/08/24 21:46	NKC	EET DEN
Total/NA	Analysis	SM 2510B		1			645634	03/11/24 19:46	LL	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	645300	03/07/24 14:02	AKF	EET DEN
Dissolved	Filtration	FILTRATION			2 mL	2 mL	645181	03/06/24 17:16	CLP	EET DEN
Dissolved	Analysis	SM 3500 CR B		1	2 mL	2 mL	645193	03/06/24 18:04	CLP	EET DEN
Total/NA	Analysis	SM 3500 CR B		1	2 mL	2 mL	645193	03/06/24 17:56	CLP	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			645422	03/07/24 21:31	LL	EET DEN
Total/NA	Analysis	SM 4500 S2 D		1	2 mL	2 mL	645198	03/06/24 20:02	SL	EET DEN
Potentially Dissolvec	Analysis	SM3500 CR B		1			646302	03/19/24 07:52	RMS	EET DEN
Total Recoverable	Analysis	SM3500 CR B		1			646302	03/19/24 07:52	RMS	EET DEN
Total/NA	Analysis	SM4500 S2 H		1			645489	03/10/24 19:57	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: 280-188461-1

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	10-31-24
A2LA	ISO/IEC 17025	2907.01	10-31-25
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	11-30-25
Arizona	State	AZ0713	12-20-24
Arkansas DEQ	State	19-047-0	04-21-24
California	State	2513	01-08-25
Connecticut	State	PH-0686	09-30-24
Florida	NELAP	E87667-57	06-30-24
Georgia	State	4025-011	01-08-25
Illinois	NELAP	2000172019-1	04-30-24
Iowa	State	370	12-01-24
Kansas	NELAP	E-10166	04-30-24
Kentucky (WW)	State	KY98047	12-31-24
Louisiana	NELAP	30785	06-30-14 *
Louisiana (All)	NELAP	30785	06-30-24
Minnesota	NELAP	1788752	12-31-24
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 Dakota	State	R-034	01-08-24 *
Oklahoma	NELAP	8614	08-31-24
Oregon	NELAP	4025-020	01-08-25
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	11-30-24
Wisconsin	State	999615430	08-31-24
Wyoming (UST)	A2LA	2907.01	10-31-25

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

Eurofins TestAmerica, Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Phone (303) 431-7171

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: B. Moran	Lab PM: Bieniulis, Dylan T	Carrier Tracking No(s):	COC No:
Client Contact: Patrick Delaney	Phone: 303-506-1618	E-Mail: Dylan.Bieniulis@et.eurofinsus.com	State of Origin:	Page:
Company: Grand Island Resources	PWSID:			Job #:

Address: 12567 West Cedar Road Suite 250	Due Date Requested:
City: Lakewood	TAT Requested (days):
State, Zip: CO, 80466	Compliance Project: Δ Yes Δ No
Phone: 315-414-6986	PO #: Advance Payment Required
Email: pdelaney@blackfoxmining.com	WO #:
Project Name: Nederland, CO	Project #: 28022821
Site: First half of the month event	SSOW#:

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2510B - Specific Conductance, 2540D - TSS, SM4500_H+ - pH / Temp	3500_CR_B - Total Hexavalent Cr and Trivalent Cr (calc)	3500_CR_B - Dissolved Hexavalent Cr (LAB FILTER) and Potentially Dissolved Trivalent Cr (calc)	SM4500_S2_D - Sulfide and SM3500_S2_H - Unionized Hydrogen Sulfide (calc)	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)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	CB	D	D		
OUTFALL 001	3/16/24	12:00	G	W	N		X	X	X	X	X	X		*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 total recoverable metals permit list = 200.7 (Fe), 200.8 (As, Cd, Cr, Cu, Pb, Zn), and 245.1 (Hg) pH = 7.6 temp = 5°

280-188461 Chain of Custody

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☒ Archive For 1 Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
B Moran	3/6/24 12:15	GIR	SP Brewer	3/6/24 12:16pm	GIR
Relinquished by: SP Brewer	Date/Time: 3/6/24 4:50pm	Company GIR	Received by:	Date/Time: 3.6.24 450pm	Company EETDEN
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 5.0°C CF0.1 IR14

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Grand Island Resources

Job Number: 280-188461-1

Login Number: 188461
List Number: 1
Creator: Held, Wesley

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Brooke Molson Moran
Grand Island Resources
12567 West Cedar Road
Suite 110
Lakewood, Colorado 80228

Generated 3/28/2024 10:00:30 AM

JOB DESCRIPTION

Nederland, CO

JOB NUMBER

280-188984-1

Eurofins Denver
4955 Yarrow Street
Arvada CO 80002

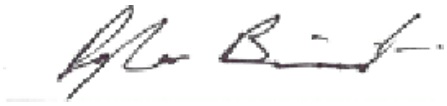
See page two for job notes and contact information.

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

Table of Contents

Definitions/Glossary

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

Job ID: 280-188984-1

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

Job Narrative
280-188984-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
- 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.

This report may include reporting limits (RLs) lower than Eurofins Environmental Testing standard reporting limits. 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.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

If potentially dissolved silver by method 200.8 is requested for samples on the chain of custody, this report contains a client specific, custom reporting limit.

Receipt
The sample was received on 3/20/2024 3:45 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.7°C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

Method 200.8 - Metals (ICP/MS) - Potentially Dissolved
Sample OUTFALL 001 (280-188984-1) was analyzed for Metals (ICP/MS) - Potentially Dissolved. The sample was prepared on 3/25/2024 and analyzed on 3/26/2024.

Method 200.8 - Metals (ICP/MS) - Total Recoverable
Sample OUTFALL 001 (280-188984-1) was analyzed for Metals (ICP/MS) - Total Recoverable. The sample was prepared and analyzed on 3/22/2024.

Detection Summary

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

Job ID: 280-188984-1

Client Sample ID: OUTFALL 001

Lab Sample ID: 280-188984-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	13		10	2.0	ug/L	1		200.8	Potentially Dissolved

This Detection Summary does not include radiochemical test results.

Method Summary

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

Job ID: 280-188984-1

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: 280-188984-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-188984-1	OUTFALL 001	Water	03/20/24 12:30	03/20/24 15:45

Client Sample Results

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

Job ID: 280-188984-1

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

Client Sample ID: OUTFALL 001
Date Collected: 03/20/24 12:30
Date Received: 03/20/24 15:45

Lab Sample ID: 280-188984-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		2.0	0.71	ug/L		03/22/24 08:30	03/22/24 20:16	1
Lead	ND		1.0	0.23	ug/L		03/22/24 08:30	03/22/24 20:16	1

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

Client Sample ID: OUTFALL 001
Date Collected: 03/20/24 12:30
Date Received: 03/20/24 15:45

Lab Sample ID: 280-188984-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		1.0	0.19	ug/L		03/25/24 15:53	03/26/24 19:30	1
Copper	ND		2.0	0.71	ug/L		03/25/24 15:53	03/26/24 19:30	1
Lead	ND		1.0	0.23	ug/L		03/25/24 15:53	03/26/24 19:30	1
Silver	ND		0.50	0.045	ug/L		03/25/24 15:53	03/26/24 19:30	1
Zinc	**13**		10	2.0	ug/L		03/25/24 15:53	03/26/24 19:30	1

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 280-646655/1-A
Matrix: Water
Analysis Batch: 646941

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 646655

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		2.0	0.71	ug/L		03/22/24 08:30	03/22/24 20:07	1
Lead	ND		1.0	0.23	ug/L		03/22/24 08:30	03/22/24 20:07	1

Lab Sample ID: LCS 280-646655/2-A
Matrix: Water
Analysis Batch: 646941

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 646655

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Copper	40.0	39.1		ug/L		98	90 - 115
Lead	40.0	38.5		ug/L		96	88 - 115

Lab Sample ID: MB 280-646859/1-B
Matrix: Water
Analysis Batch: 647281

Client Sample ID: Method Blank
Prep Type: Potentially Dissolved
Prep Batch: 646995

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		1.0	0.19	ug/L		03/25/24 15:53	03/26/24 19:25	1
Copper	ND		2.0	0.71	ug/L		03/25/24 15:53	03/26/24 19:25	1
Lead	ND		1.0	0.23	ug/L		03/25/24 15:53	03/26/24 19:25	1
Silver	ND		0.50	0.045	ug/L		03/25/24 15:53	03/26/24 19:25	1
Zinc	ND		10	2.0	ug/L		03/25/24 15:53	03/26/24 19:25	1

Lab Sample ID: LCS 280-646859/2-C
Matrix: Water
Analysis Batch: 647281

Client Sample ID: Lab Control Sample
Prep Type: Potentially Dissolved
Prep Batch: 646995

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cadmium	40.0	40.8		ug/L		102	89 - 111
Copper	40.0	42.6		ug/L		106	90 - 115
Lead	40.0	40.5		ug/L		101	88 - 115
Silver	40.0	40.7		ug/L		102	90 - 114
Zinc	40.0	42.0		ug/L		105	88 - 115

QC Association Summary

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

Job ID: 280-188984-1

Metals

Prep Batch: 646655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-188984-1	OUTFALL 001	Total Recoverable	Water	200.8	
MB 280-646655/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-646655/2-A	Lab Control Sample	Total Recoverable	Water	200.8	

Filtration Batch: 646859

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-188984-1	OUTFALL 001	Potentially Dissolvec	Water	Poten_Diss_Met	
MB 280-646859/1-B	Method Blank	Potentially Dissolvec	Water	Poten_Diss_Met	
LCS 280-646859/2-C	Lab Control Sample	Potentially Dissolvec	Water	Poten_Diss_Met	

Analysis Batch: 646941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-188984-1	OUTFALL 001	Total Recoverable	Water	200.8	646655
MB 280-646655/1-A	Method Blank	Total Recoverable	Water	200.8	646655
LCS 280-646655/2-A	Lab Control Sample	Total Recoverable	Water	200.8	646655

Prep Batch: 646995

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-188984-1	OUTFALL 001	Potentially Dissolvec	Water	200.8	646859
MB 280-646859/1-B	Method Blank	Potentially Dissolvec	Water	200.8	646859
LCS 280-646859/2-C	Lab Control Sample	Potentially Dissolvec	Water	200.8	646859

Analysis Batch: 647281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-188984-1	OUTFALL 001	Potentially Dissolvec	Water	200.8	646995
MB 280-646859/1-B	Method Blank	Potentially Dissolvec	Water	200.8	646995
LCS 280-646859/2-C	Lab Control Sample	Potentially Dissolvec	Water	200.8	646995

Lab Chronicle

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

Job ID: 280-188984-1

Client Sample ID: OUTFALL 001

Date Collected: 03/20/24 12:30
Date Received: 03/20/24 15:45

Lab Sample ID: 280-188984-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Potentially Dissolvec	Filtration	Poten_Diss_Met			150 mL	150 mL	646859	03/22/24 15:36	CAF	EET DEN
Potentially Dissolvec	Prep	200.8			50 mL	50 mL	646995	03/25/24 15:53	AES	EET DEN
Potentially Dissolvec	Analysis	200.8		1			647281	03/26/24 19:30	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	646655	03/22/24 08:30	KLG	EET DEN
Total Recoverable	Analysis	200.8		1			646941	03/22/24 20:16	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: 280-188984-1

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	10-31-24
A2LA	ISO/IEC 17025	2907.01	10-31-25
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	11-30-25
Arizona	State	AZ0713	12-20-24
Arkansas DEQ	State	19-047-0	04-21-24
California	State	2513	01-08-25
Connecticut	State	PH-0686	09-30-24
Florida	NELAP	E87667-57	06-30-24
Georgia	State	4025-011	01-08-25
Illinois	NELAP	2000172019-1	04-30-24
Iowa	State	370	12-01-24
Kansas	NELAP	E-10166	04-30-24
Kentucky (WW)	State	KY98047	12-31-24
Louisiana	NELAP	30785	06-30-14 *
Louisiana (All)	NELAP	30785	06-30-24
Minnesota	NELAP	1788752	12-31-24
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 Dakota	State	R-034	01-08-24 *
Oklahoma	NELAP	8614	08-31-24
Oregon	NELAP	4025-020	01-08-25
Pennsylvania	NELAP	013	07-31-24
South Carolina	State	72002001	01-08-24 *
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-23-23	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	11-30-24
Wisconsin	State	999615430	08-31-24
Wyoming (UST)	A2LA	2907.01	10-31-25

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

Eurofins TestAmerica, Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Phone (303) 431-7171

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: BM	Lab PM: Bieniulis, Dylan T	Carrier Tracking No(s):	COC No:
Client Contact: Patrick Delaney	Phone:	E-Mail: Dylan.Bieniulis@et.eurofinsus.com	State of Origin:	Page:
Company: Grand Island Resources	PWSID:			Job #:

Address: 12567 West Cedar Road Suite 250	Due Date Requested:
City: Lakewood	TAT Requested (days):
State, Zip: CO, 80466	Compliance Project: Δ Yes Δ No
Phone: 315-414-6986	PO #: Advance Payment Required
Email: pdelaney@blackfoxmining.com	WO #:
Project Name: Nederland, CO	Project #: 28022821
Site: second half of the month event	SSOW#:

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	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:
			Preservation Code:				D	D		
OUTFALL 001	3/20/24	12:30	G	W			X	X		

*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)

280-188984 Chain of Custody

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☒ Archive For 1 Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[illegible]	3/20/24 12:57	GIR	Kiley McAllister	12:58 3/20/24	GIR
Kiley McAllister	3/20/24 1:24	GIR	JP Brewer	1:25pm 3/20/24	GIR
JP Brewer	3/20/24 15:45	GIR	[illegible]	3/20/24 1505	ERTL

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

5.6 JR 14 CF 0.1

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Grand Island Resources

Job Number: 280-188984-1

Login Number: 188984
List Number: 1
Creator: Roehsner, Karen P

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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 <6mm (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

Surface water not flowing during this quarter, therefore no samples taken.

APPENDIX D CHAIN OF CUSTODY (COC) FORMS

Eurofins TestAmerica, Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Phone (303) 431-7171

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: BM	Lab PM: Bieniulis, Dylan T	Carrier Tracking No(s):	COC No:
Client Contact: Brooke Molson Moran	Phone: 303-506-1618	E-Mail: Dylan.Bieniulis@et.eurofinsus.com	State of Origin:	Page:
Company: Grand Island Resources	PWSID:	Analysis Requested		Job #:
Address: 12567 West Cedar Road Suite 250	Due Date Requested:			
City: Lakewood	TAT Requested (days):			
State, Zip: CO, 80466	Compliance Project: Δ Yes Δ No			
Phone: 315-414-6986	PO #: Not required			
Email: bmolsonm@g.emporia.edu	WO #:			
Project Name: Nederland, CO	Project #: 28025589			
Site: Groundwater Sampling	SSOW#:			

Preservation Codes:
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, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	200.7/200.8/245.1 Dissolved Metals and Mercury (Field Filtered)	SM4500_SO4_E - Sulfate, SM4500_Cl_E - Chloride, 300.0 Fluoride, and 300.0 Nitrate/Nitrite	SM4500_CN_I - Free Cyanide	353.2 - Nitrate/Nitrite as N	2540C - TDS	900.0 - Gross Alpha and Gross Beta (Field Filtered) (Eurofins TestAmerica St. Louis)	901.1 - Beta/Photon Emitters + TICs (Field Filtered) (Eurofins TestAmerica St. Louis)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	N	B	S	N	D	D		300.0 Nitrate/Nitrite = 48 hour hold time
CROSS WELL	1/17/24	13:00	G	W			X	X	X	X	X	X	X		FIELD-
COMPLIANCE WELL	"	13:30	G	W			X	X	X	X	X	X	X		FILTERED ALL
COMPLIANCE 02	"	13:30	G	W			X	X	X	X	X	X	X		NITRIC-
COMPLIANCE 03	"	13:30	G	W			X	X	X	X	X	X	X		PRESERVED
CARIBOU WELL	"	11:30	G	W			X	X	X	X	X	X	X		BOTTLES
CROSS PORTAL	"	12:15	G	W			X	X	X	X	X	X	X		
CROSS PORTAL 02	"	12:15	G	W			X	X	X	X	X	X	X		
CARIBOU PORTAL	"	11:15	G	W			X	X	X	X	X	X	X		

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☒ Archive For 1 Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Brooke Moran	1/17/24 15:50	GIR	JP BREWER	1/17/24 3:52pm	GIR
[redacted]	[redacted]	GIR	[illegible]	1/18/24 1300	ESTOEN
JP BREWER	1-18-24 1:00pm	GIR			

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 in d-base (initial/date) n/a	Pg 1 of 1 Pgs
*StationID: 2022-01	*Date (mm/dd/yyyy): 1/17/24	*Group: n/a	*Agency: n/a
*Funding: n/a	ArrivalTime: 9:50 DepartureTime: 10:00	*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)	Long (ddd.ddddd)	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)

SITE ODOR:	(None), Sulfides, Sewage, Petroleum, Mixed, Other	WADEABILITY: Y / N / (Unk)	BEAUFORT SCALE (see attachment): 4	DISTANCE FROM BANK (m): n/a	STREAM WIDTH (m): n/a; WATER DEPTH (m): n/a
SKY CODE:	Clear, Partly Cloudy, (Overcast), Fog	WIND DIRECTION (from): W		HYDROMODIFICATION: (None), Bridge, Pipes, ConcreteChannel, GradeControl, Culvert, AerialZipline, Other	n/a LOCATION (to sample): US / DS / WI /
OTHERPRESENCE:	Vascular, Nonvascular, OilySheen, Foam, Trash, Other n/a			PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode_yyyy_mm_dd_uniquecode):	1: (RB / LB / BB / US / DS / ##) 2022-01-JAN24A
DOMINANTSUBSTRATE:	Bedrock, Concrete, Cobble, Gravel, Sand, Mud, Unk, Other n/a				
WATERCLARITY: n/a	Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	PRECIPITATION:		None, Fog, Drizzle, Rain, (Snow)	2: (RB / LB / BB / US / DS / ##) 2022-01_JAN24B
WATERODOR:	None, Sulfides, Sewage, Petroleum, Mixed, Other n/a	PRECIPITATION (last 24 hrs):		Unknown, (<1"), >1", None	
WATERCOLOR:	Colorless, Green, Yellow, Brown n/a				3: (RB / LB / BB / US / DS / ##) 2022-01_JAN24C
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)

	DepthCollec (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													
SUBSURF/MID/BOTTOM/REP				N/A									
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

	DepthCollec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs
Sub/Surface				N/A									
Sub/Surface													

COMMENTS:
NO SURFACE FLOW, SO NO SAMPLES COLLECTED.
SITE COVERED IN SNOW

Run:									Sample Processing Date:						
Sample ID #:															
	Site Code:														
	# Small Wells			N/A											
	# Large Wells														
	Empty Wells														
Yellow +	MPN														
	# Small Wells														
	# Large Wells														
Yellow + Fluorescence (+)	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 #				Normal Sample # / Duplicate Sample #			
		MPN	95% CI Lower	Upper		MPN	95% CI Lower	Upper
TOTAL COLIFORM	Normal				Normal			
	Duplicate				Duplicate			
	Mean		Pass	Needs Review	Mean		Pass	Needs Review
E. COLI	Normal				Normal			
	Duplicate				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:

NOTES:

Brooke Moran 1/17/24

SURFACE WATER SAMPLING DATA SHEET

SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - EventType=WQ		Entered in d-base (initial/date) n/a	Pg 1 of 1 Pgs
*StationID: 2022-02	*Date (mm/dd/yyyy): 1 / 17 / 24	*Group: n/a	*Agency: n/a
*Funding: n/a	ArrivalTime: 9:35 DepartureTime: 9:45	*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)	Long (ddd.ddddd)	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:	39.975873	-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):	3
DISTANCE FROM BANK (m):	n/a
STREAM WIDTH (m):	n/a
WATER DEPTH (m):	n/a
SKY CODE:	Clear, Partly Cloudy, (Overcast), Fog
WIND DIRECTION (from):	W
HYDROMODIFICATION:	None, Bridge, Pipes, ConcreteChannel, GradeControl, Culvert, AerialZipline, Other n/a LOCATION (to sample): US / DS / WI /
OTHERPRESENCE:	n/a Vascular, Nonvascular, OilySheen, Foam, Trash, Other
DOMINANTSUBSTRATE:	Bedrock, Concrete, Cobble, Gravel, Sand, Mud, Unk, Other n/a
PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode_yyyy_mm_dd_uniquecode):	1: (RB / LB / BB / US / DS / ##) 2022-02_JAN24A 2: (RB / LB / BB / US / DS / ##) 2022-02_JAN24B 3: (RB / LB / BB / US / DS / ##) 2022-02_JAN24C
WATERCLARITY:	n/a Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)
PRECIPITATION:	None, Fog, Drizzle, Rain, (Snow)
WATERODOR:	None, Sulfides, Sewage, Petroleum, Mixed, Other n/a
PRECIPITATION (last 24 hrs):	Unknown, <1", (>1"), None
WATERCOLOR:	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

Field Measurements (SampleType = FieldMeasure; Method = Field)

	DepthCollec (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													
SUBSURF/MID/BOTTOM/REP				N/A									
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 ____

	DepthCollec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs
Sub/Surface					N/A								
Sub/Surface													

COMMENTS: NO SURFACE FLOW, SO NO SAMPLES COLLECTED. SITE COVERED IN SNOW.

Run:		Sample Processing Date:
Sample ID #:		
Site Code:		
Yellow +	# Small Wells	N/A
	# 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				LAB DUPLICATES			
	Normal Sample # Duplicate Sample #	MPN	95% CI Lower	Upper	Normal Sample # Duplicate Sample #	MPN	95% CI Lower	Upper
TOTAL COLIFORM	Normal				Normal			
	Duplicate				Duplicate			
	Mean		Pass	Needs Review	Mean		Pass	Needs Review
E. COLI	Normal				Normal			
	Duplicate				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:

NOTES:

Brooke Moran 1/17/24

GROUND WATER SAMPLING DATA SHEET

IDENTIFICATION Project Number:

Sample Location CROSS WELL Date 1/17/24 Start Time 11:30 Stop time 13:15 Page 1 of 1

Sample Control Number n/a Samplers BM

WEATHER CONDITIONS

Ambient Air Temperature: 24° °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 -30 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 -30 Total Depth 205 Total Volume Purged 624 Saturated Borehole Volume (gal) 364 Max Pumping Rate n/a

INSTRUMENT CALIBRATION

pH Meter: Meter Number OAKTON01

Buffer 7 Measured Value 7.0 Temp. 14.6 °C

Buffer 10 Measured Value 10.0 Temp. 14.8 °C

Conductivity Meter: Meter Number CMI-2104-01479

Standard 0.447 mS/cm Measured Value 0.6 mS/cm Temp. 11 °C

Standard 0.447 mS/cm Measured Value 0.6 mS/cm Temp. 11 °C

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

Time	Volume (gallons)	pH	Cond. (µS/cm)	Temp. °C☒ °F☐	Turbidity Visual Est.☐ Measured☒	Comments
11:30	0	7.3	0.4	12.6°	7.1	
13:00	624	7.5	0.3	7.5°	4.0	SAMPLES COLLECTED WITH DISPOSABLE CUP.
						FIELD-FILTERED FOR METALS & RADIONUCLIDES.

FINAL SAMPLE PARAMETERS

Sample Date	Sample Time	Discharge cfs☐ gpm☒	pH	Cond. (µS/cm)	Temp. (°C)	Turbidity Visual Est.☐ Measured☒		
1/17/24	13:00	7.0	7.5	0.3	7.5°	4.0		

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 INFO 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 1/17/24

GROUND WATER SAMPLING DATA SHEET

IDENTIFICATION

Project Number:

Sample Location COMPLIANCE WELL Date 1/17/24 Start Time 12:40 Stop time 13:45 Page 1 of 1

Sample Control Number n/a Samplers BM

WEATHER CONDITIONS

Ambient Air Temperature: 25° °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 -40 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 -40 Total Depth 165 Total Volume Purged 554 Saturated Borehole Volume (gal) 323 Max Pumping Rate n/a

INSTRUMENT CALIBRATION

pH Meter: Meter Number OAKTON01

Buffer 7 Measured Value 7.0 Temp. 14.6°C

Buffer 10 Measured Value 10.0 Temp. 14.8 °C

Conductivity Meter: Meter Number CM1-2104-1479

Standard 0.447 mS/cm Measured Value 0.6 mS/cm Temp. 11 °C

Standard 0.447 mS/cm Measured Value 0.6 mS/cm Temp. 11 °C

Turbidity Meter: Newtn 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	7.0	0.4	4.6°	4.2	
13:30	554	7.1	0.4	5.3°	2.7	SAMPLES COLLECTED
						WITH DISPOSABLE CUP
						FIELD-FILTERED FOR
						METALS & RADIONUCLIDES.

FINAL SAMPLE PARAMETERS

Sample Date	Sample Time	Discharge cfs☐ gpm☒	pH	Cond. (µS/cm)	Temp. (°C)	Turbidity Visual Est.☐ Measured☒		
1/17/24	13:30	10.4	7.1	0.4	5.3°	2.7		

Duplicate Sample-02 (sample control number/time COMPLIANCE 02)

Field Blank-03 (sample control number/time COMPLIANCE03)

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 INFO AVAILABLE IN LAB REPORT.

Notes: SAMPLED AT WELL. *6 5/8" (-1-50 ft) & 4 1/2" (15-165 ft)

Sampler's Signature

Brooke Moran 1/17/24

GROUND WATER SAMPLING DATA SHEET

IDENTIFICATION Project Number:

Sample Location CARIBOU WELL Date 1/17/24 Start Time 10:40 Stop time 11:40 Page 1 of 1

Sample Control Number n/a Samplers BM

WEATHER CONDITIONS

Ambient Air Temperature: 26° °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 -27 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 -27 Total Depth 165 Total Volume Purged 483 Saturated Borehole Volume (gal) 114 Max Pumping Rate n/a

INSTRUMENT CALIBRATION

pH Meter: Meter Number OAKTON01

Buffer 7 Measured Value 7.0 Temp. 14.6°C

Buffer 10 Measured Value 10.0 Temp. 14.8°C

Conductivity Meter: Meter Number CM1-2104-01479

Standard 0.447 mS/cm Measured Value 0.6 mS/cm Temp. 11 °C

Standard 0.447 mS/cm Measured Value 0.6 mS/cm Temp. 11 °C

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

Time	Volume (gallons)	pH	Cond. (µS/cm)	Temp. °C☒ °F☐	Turbidity Visual Est.☐ Measured☒	Comments
10:40	0	6.1	0.2	8.6°	3.8	SAMPLES COLLECTED
11:30	483	6.8	0.4	4.2°	4.6	WITH DISPOSABLE CUP.
						FIELD-FILTERED FOR
						METALS & RADIONUCLIDES

FINAL SAMPLE PARAMETERS

Sample Date	Sample Time	Discharge cfs☐ gpm☒	pH	Cond. (µS/cm)	Temp. (°C)	Turbidity Visual Est.☐ Measured☒		
1/17/24	11:30	10.0	6.8	0.4	4.2°	4.6		

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)

QAQC INFO AVAILABLE IN LAB REPORT.

Notes: SAMPLED VIA PORT, *6 5/8" (-1-26 ft) & 4 1/2" (15-165 ft)

Sampler's Signature

Brooke Moran 1/17/24

GROUND WATER SAMPLING DATA SHEET

IDENTIFICATION Project Number:

Sample Location CROSS PORTAL Date 1/17/24 Start Time 12:00 Stop time 12:30 Page 1 of 1

Sample Control Number n/a Samplers BM

WEATHER CONDITIONS

Ambient Air Temperature: _____ °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____ 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

N/A

Well Casing ID_____ Well Casing OD_____ Protective Casing Stickup___ Well Casing Stickup____ Feet of Water

Well purged with: _____

FINAL WELL MEASUREMENTS

Static Water Level__ Total Depth___ Total Volume Purged__ Saturated Borehole Volume (gal)___ Max Pumping Rate

INSTRUMENT CALIBRATION

pH Meter: Meter Number OAKTON01

Buffer 7 Measured Value 7.0 Temp. 14.6 °C

Buffer 10 Measured Value 10.0 Temp. 14.8 °C

Conductivity Meter: Meter Number CMI-2104-01479

Standard 0.447 mS/cm Measured Value 0.6 mS/cm Temp. 11 °C

Standard 0.447 mS/cm Measured Value 0.6 mS/cm Temp. 11 °C

Turbidity Meter: Nephy 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
12:15	n/a	7.8	0.3	4.9°	25.8	
						SAMPLES COLLECTED
						WITH DISPOSABLE CUP.
						FIELD-FILTERED FOR
						METALS & RADIONUCLIDES.

FINAL SAMPLE PARAMETERS

Sample Date	Sample Time	Discharge cfs☐ gpm☐	pH	Cond. (µS/cm)	Temp. (°C)	Turbidity Visual Est.☐ Measured☒		
1/17/24	12:15	n/a	7.8	0.3	4.9°	25.8		

Duplicate Sample-02 (sample control number/time CROSS PORTAL-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)

QAQC INFO AVAILABLE IN LAB REPORT.

Notes:

Sampler's Signature Brooke Moran 1/17/24

GROUND WATER SAMPLING DATA SHEET

IDENTIFICATION Project Number:

Sample Location CARIBOU PORTAL Date 1/17/24 Start Time 10:30 Stop time 11:15 Page 1 of 1

Sample Control Number n/a Samplers BM

WEATHER CONDITIONS

Ambient Air Temperature: _____ °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____ Total Depth_____Top of Screen_____ Filter Pack Interval_____ Borehole Diameter(inches)

N/A

2-inch = 0.1632 gal/ft 4-inch = 0.6528 gal/ft 6-inch = 1.4688 gal/ft Casing Volume:_____ gallons

Well Casing ID_____ Well Casing OD_____ Protective Casing Stickup____ Well Casing Stickup____ Feet of Water

Well purged with: _____

FINAL WELL MEASUREMENTS

Static Water Level___ Total Depth___ Total Volume Purged___ Saturated Borehole Volume (gal)___ Max Pumping Rate

INSTRUMENT CALIBRATION

pH Meter: Meter Number OAKTON 01

Buffer 7 Measured Value 7.0 Temp. 14.6 °C

Buffer 10 Measured Value 10.0 Temp. 14.8 °C

Conductivity Meter: Meter Number CM1-2104-01479

Standard 0.447 mS/cm Measured Value 0.6 mS/cm Temp. 11 °C

Standard 0.447 mS/cm Measured Value 0.6 mS/cm Temp. 11 °C

Turbidity Meter: Neotry 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
11:15	n/a	6.5	0.5	0.9°	6.4	
						SAMPLES COLLECTED
						WITH DISPOSABLE CUPS.
						FIELD - FILTERED FOR
						METALS & RADIONUCLIDES

FINAL SAMPLE PARAMETERS

Sample Date	Sample Time	Discharge cfs☐ gpm☒	pH	Cond. (µS/cm)	Temp. (°C)	Turbidity Visual Est.☐ Measured☒		
1/17/24	11:15	n/a	6.5	0.5	0.9°	6.4		

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 INFO AVAILABLE IN LAB REPORT.

Notes:

Sampler's Signature Brooke Moran

APPENDIX F PHOTOGRAPHS

APPENDIX F.1 SAMPLE LOCATION 2022-01 PHOTOGRAPHS

APPENDIX F.1 SAMPLE LOCATION 2022-02 PHOTOGRAPHS