STATE OF COLORADO

Lennberg - DNR, Patrick <patrick.lennberg@state.co.us>

Q1 2025 Water Quality TR 10 and Copper Sampling Reports (Permit No. M-1977-410)

Rmittasch@nedmining.com <Rmittasch@nedmining.com> Thu, May 1, 2025 at 12:11 PM
To: "Lennberg - DNR, Patrick" <patrick.lennberg@state.co.us>

Dear Mr. Patrick Lennberg,

Attached are two reports for the Cross Gold Mine, prepared by Grand Island Resources in compliance with Technical Revision #10 (TR-10) under Permit No. M-1977-410, both dated April 30, 2025:

- Q1 2025 Water Quality Report: Details groundwater, mine effluent, and surface water monitoring results for Q1 2025, reflecting the TR-10 analyte list.
- Q1 2025 Copper Sampling Report: Analyzes copper exceedance at the Caribou Well.

Key findings:

- On March 13, 2025, Caribou Well sampling showed copper at 0.15 mg/L (initial) and 0.21 mg/L (duplicate), averaging 0.18 mg/L. The 0.21 mg/L exceedance (above 0.2 mg/L standard) prompted intensive sampling on April 11 and 17, 2025, indicating inadequate purging as the cause, not a persistent issue. Copper levels stabilized below 0.2 mg/L after sufficient purging.
- Recommendations: increase Caribou Well purge time to 10 hours (as a drinking water well, not suited for the '3 well volume' rule), and replace well equipment.

please contact me if there's anything else you further need.

Sincerely,

Kind Regards,

Richard Mittasch, Vice President

Nederland Mining Consultants, Inc.

Phone: 720-893-3749

Mobile: 516 582-0833

Email: Rmittasch@nedmining.com

4415 Caribou Rd, PO Box 3395, Nederland, CO 80466

Attachments:

- TR-10 FIRST QUARTER 2025 - WATER MONITORING REPORT DRMS.pdf
- Q1_2025_Copper_Sampling_Report_M-1977-410.pdf

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2 attachments

TR-10 FIRST QUARTER 2025 - WATER MONITORING REPORT DRMS.pdf
8852K

Q1_2025_Copper_Sampling_Report_M-1977-410.pdf
1827K

FIRST QUARTER 2025

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, 2025

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List of Appendices

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 March of 2025.

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 33, 34 and 35 depict surfaces for the months of January, February and March 2025, 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.

Resulting from TR-14 partial approval, the sample collected by GIR on March 13, 2025, serves as the sample for the First Quarter 2025 subject of this report. The results for groundwater are provided on Table 2.1.1.

On August 27, 2024, GIR submitted to the Division of Reclamation, Mining and Safety (Division/DRMS) a request for Technical Revision 15 (TR-15) to reduce the analyte list for surface water, mine effluent and groundwater samples collected on a quarterly basis at the Cross Gold Mine.

On September 10, 2024, DRMS issued to GIR a Preliminary Adequacy Review; Technical Revision (TR-15) – Request to Reduce the Surface Water, Mine Effluent and Groundwater Sampling Analyte List; indicating that the application for TR-15 may be deemed inadequate and denied unless the following item is addressed to the Division's satisfaction.

> 1. Please provide updated tables for Surface Water and Groundwater and Effluent Testing Parameters that reflect what the Operator would be analyzing samples for once the requested reduction of analytes is approved.

On September 11, 2024, GIR provided DRMS with the requested tables for Surface Water and Groundwater and Effluent Testing Parameters that reflect what the Operator would be analyzing samples for once the requested reduction of analytes is approved.

On September 12, 2024, the Division approved TR-15.

The testing of Surface Water, Groundwater and Effluent for the First Quarter of 2025 (March 13, 2025) reflects the approved TR-15 Analyte List.

On December 12, 2024, GIR submitted to DRMS the Designated Mining Operation Application.

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

Test results from water samples collected from the three monitoring wells are presented on Table 2.1.1 corresponding to the month of March 2025. 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. Please note that the value for copper in the Caribou Well duplicate, 0.21 mg/L, is highlighted because is it equal to the standard, when rounded.

Table 2.1.1 Groundwater Quality Test Results – Sample Date March 13, 2025

Sample Collected on:	March 13, 2025							
Parameter	Standard	Cross Well	Caribou Well	Caribou Well Duplicate	Compliance Well	Field Blank	Unit	Comments
Aluminum (Al)	**5**	ND	ND	ND	ND	0.041	mg/l	Dissolved
Antimony (Sb)	**0.006**	ND	ND	ND	ND	ND	mg/l	Dissolved
Arsenic (As)	**0.01**	ND	ND	ND	ND	ND	mg/l	Dissolved
Barium (Ba)	**2**	0.032	0.0063	0.0060	0.041	0.0020	mg/l	Dissolved
Beta and Photon Emitters	**4**	1.49	0.812	-0.0987	1.30	0.0253	pCi/l	Std is in mrem/year; Lab reports pCi/l
Boron (B)	**0.75**	ND	0.026	ND	ND	ND	mg/l	Dissolved
Cadmium (Cd)	**0.005**	ND	ND	ND	ND	ND	mg/l	Dissolved
Chloride (Cl)	**250**	3.8	ND	ND	3.6	ND	mg/l	Dissolved
Copper (Cu)	**0.2**	0.0035	0.15	0.21	ND	ND	mg/l	Dissolved
Gross Alpha Particle Activity	**15**	-0.251	-0.266	0.279	0.392	0.252	pCi/l	
Iron (Fe)	**0.3**	ND	ND	ND	ND	ND	mg/l	Dissolved
Lead (Pb)	**0.05**	ND	ND	ND	ND	ND	mg/l	Dissolved
Manganese (Mn)	**0.05**	ND	ND	ND	0.0070	ND	mg/l	Dissolved
Molybdenum (Mo)	**0.21**	0.00075	ND	ND	0.0046	ND	mg/l	Dissolved
Nitrate (NO3)	**10.0**	0.33	0.14	0.14	0.36	ND	mg/l as N	Dissolved
Nitrate-Nitrite (total)	**10.0**	0.39	0.12	0.12	0.46	ND	mg/l as N	Dissolved
pH (field)	**6.5 - 8.5**	6.9	6.8	6.8	7.2	n/a	pH units	
Sulfate (SO4)	**250**	8.3	1.8	1.8	11	ND	mg/l	Dissolved
TDS	**400**	86	33	33	90	10	mg/l	Total
Uranium (U)	**0.0168 -0.03**	ND	ND	ND	ND	ND	mg/l	Dissolved
Zinc (Zn)	**2**	0.51	ND	0.0054	0.097	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. The Cross Winze water levels are also included.

Tables 2.2.1 - January, 2.2.2 February, and 2.2.3 March, provide date and groundwater elevations. The groundwater elevations shown on the tables were used to develop the potentiometric water surfaces depicted on Figures 33, 34, and 35 for the month of January, February, and March 2025, respectively.

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Table 2.2.1 Wells and Winze Groundwater Elevation – January 2025

Groundwater Elevation - January		
WELL	COLLAR ELEV	1/13/2025
	Ft. AMSL	
Caribou	9744.25	9715.55
Compliance	9677.35	9637.58
Cross	9692.85	9661.03
Winze	9697.48	9543.45

Table 2.2.2 Wells and Winze Groundwater Elevation – February 2025

Groundwater Elevation - February		
WELL	COLLAR ELEV	2/13/2025
	Ft. AMSL	
Caribou	9744.25	9714.73
Compliance	9677.35	9637.25
Cross	9692.85	9658.62
Winze	9697.48	9539.65

Table 2.2.3 Wells and Winze Groundwater Elevation – March 2025

Groundwater Elevation - March		
WELL	COLLAR ELEV	3/13/2025
	Ft. AMSL	
Caribou	9744.25	9715.6
Compliance	9677.35	9636.85
Cross	9692.85	9657.37
Winze	9697.48	9546.55

Figure 33 Potentiometric Water Surface – January 2025

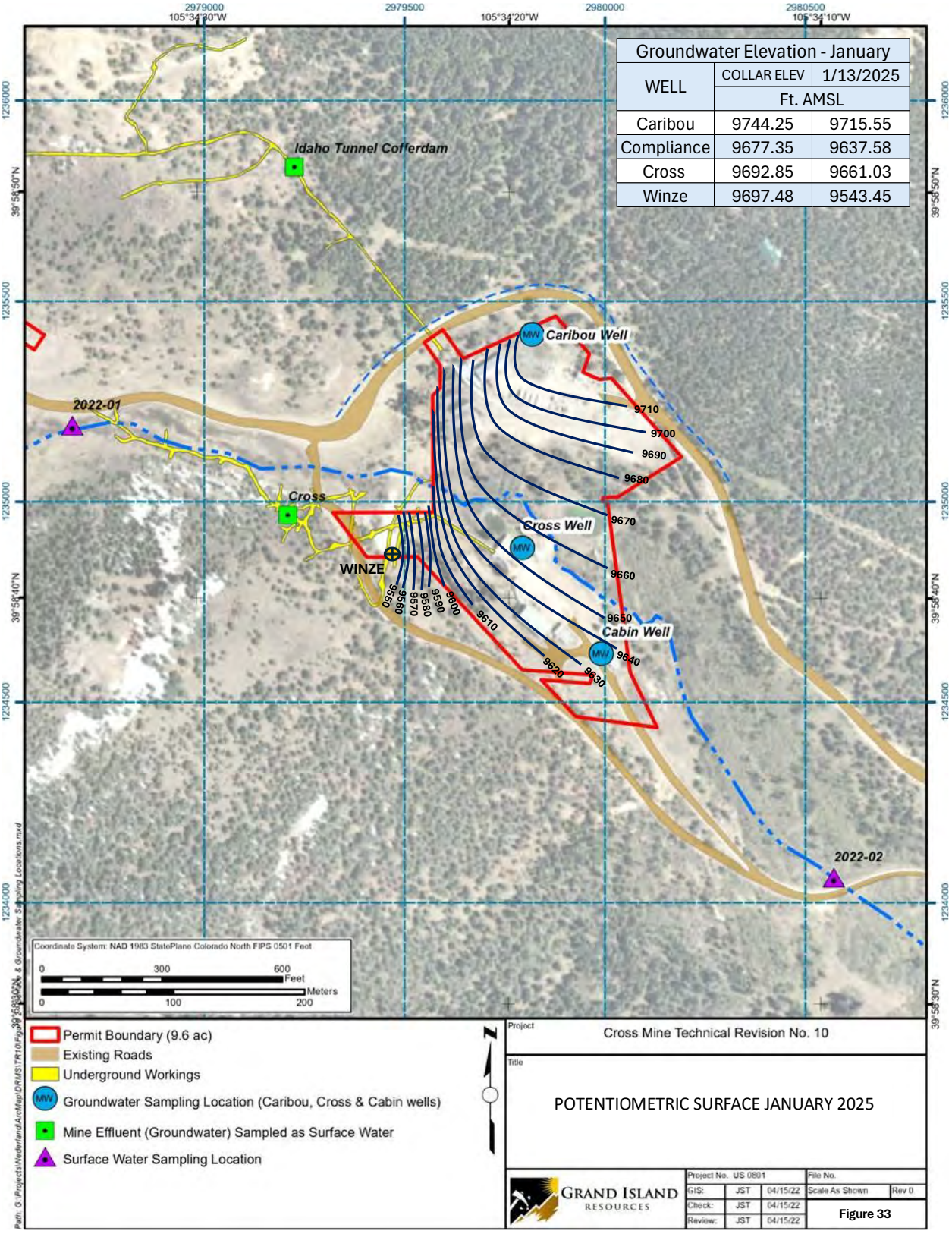


Figure 34 Potentiometric Water Surface – February 2025

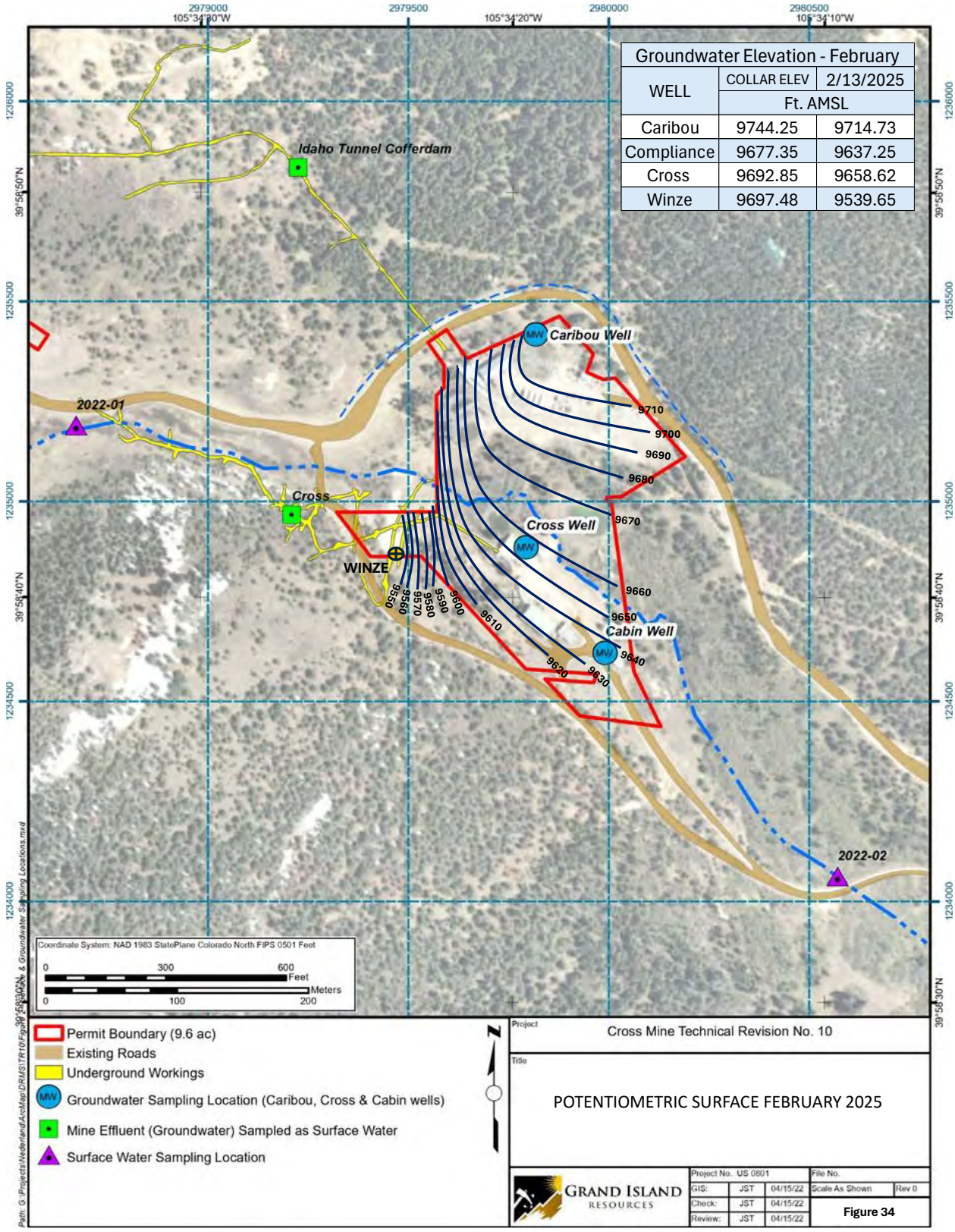
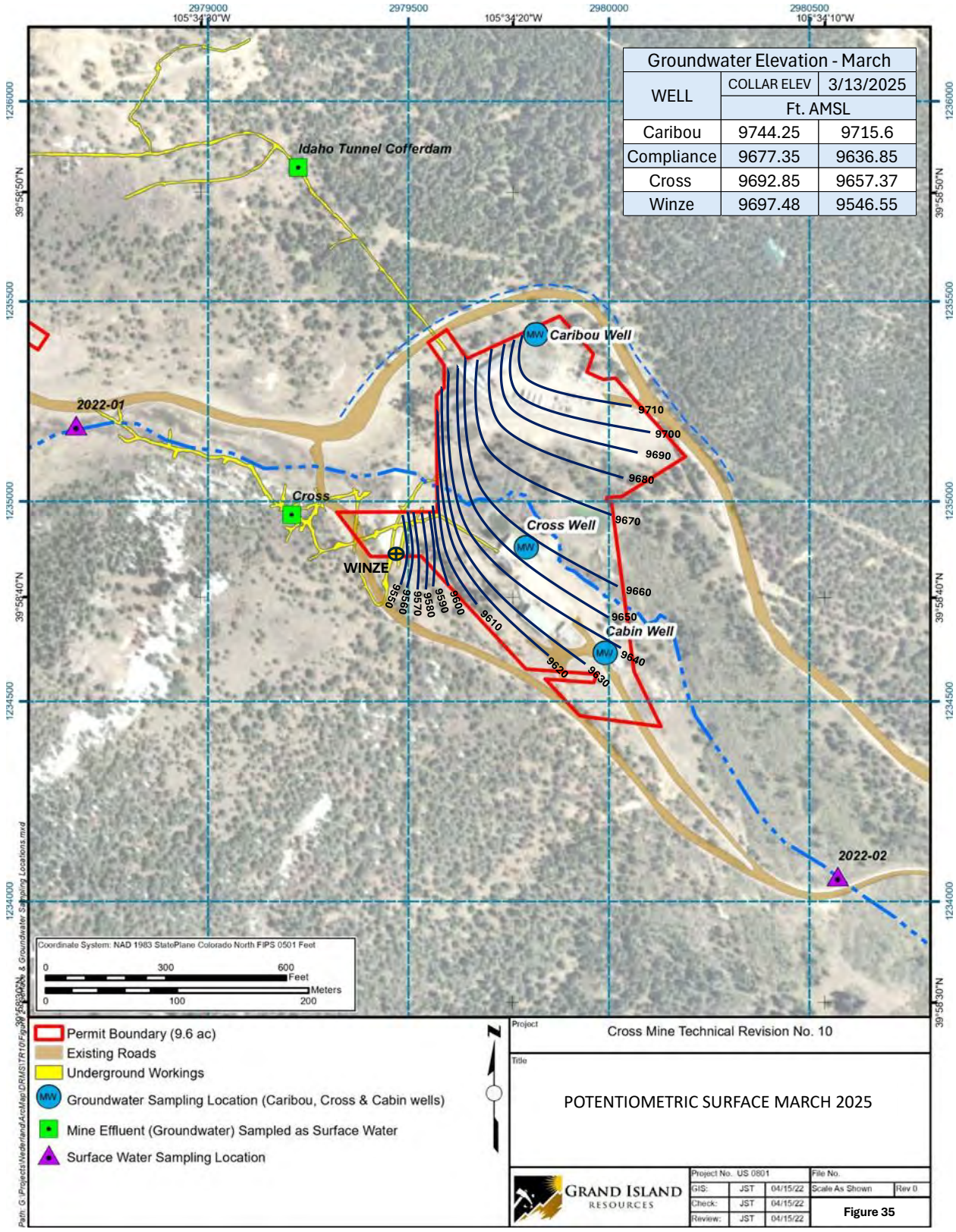


Figure 35 Potentiometric Water Surface – March 2025



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 March 2025. 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 March 13, 2025

Sample Collected on:	March 13, 2025					
Parameter	Standard	Cross Portal	Cross Portal Duplicate	Caribou Portal	Unit	Comments
Aluminum (Al)	**5**	ND	ND	ND	mg/l	Dissolved
Antimony (Sb)	**0.006**	ND	ND	0.00068	mg/l	Dissolved
Arsenic (As)	**0.01**	ND	ND	ND	mg/l	Dissolved
Barium (Ba)	**2**	0.084	0.084	0.055	mg/l	Dissolved
Beta and Photon Emitters	**4**	0.911	0.794	1.13	pCi/l	Std is in mrem/year; Lab reports pCi/l
Boron (B)	**0.75**	ND	ND	0.043	mg/l	Dissolved
Cadmium (Cd)	**0.005**	0.00079	0.00095	ND	mg/l	Dissolved
Chloride (Cl)	**250**	ND	ND	ND	mg/l	Dissolved
Copper (Cu)	**0.2**	0.0027	0.0021	ND	mg/l	Dissolved
Gross Alpha Particle Activity	**15**	1.24	1.17	4.62	pCi/l	
Iron (Fe)	**0.3**	ND	ND	ND	mg/l	Dissolved
Lead (Pb)	**0.05**	0.00052	0.00088	ND	mg/l	Dissolved
Manganese (Mn)	**0.05**	0.019	0.018	0.0016	mg/l	Dissolved
Molybdenum (Mo)	**0.21**	0.0074	0.0074	0.0072	mg/l	Dissolved
Nitrate (NO3)	**10.0**	ND	ND	0.14	mg/l as N	Dissolved
Nitrate-Nitrite (total)	**10.0**	ND	ND	0.11	mg/l as N	Dissolved
pH (field)	**6.5 - 8.5**	8.1	8.1	8.2	pH units	
Sulfate (SO4)	**250**	11	11	9.5	mg/l	Dissolved
TDS	**400**	120	120	130	mg/l	Total
Uranium (U)	**0.0168 -0.03**	0.00099	0.00097	0.0064	mg/l	Dissolved
Zinc (Zn)	**2**	0.16	0.17	0.0053	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

Surface water samples were not collected on March 13, 2015, from both surface water sampling stations because no surface water flows were observed during the sampling event.

4.2. Surface Water Flows

No Surface water flow measurements were taken during sampling event of March 13, 2025, because no surface water 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 at identifying 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 Caribou Well during the March sampling event. Duplicate and Matrix Spike tests were performed for select parameters which are incorporated in the QC section of the Laboratory Report. No Rinsate samples were collected because water samples were collected from permanently installed equipment at each well.

5.2. Mine Effluent

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

5.3. Surface Water

No Field Duplicates were collected from surface water stations because no flows were observed during the March 13, 2025 sampling event.

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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 months of January, February, and March 2025, respectively.

Table 6.1 DMR January 2025

DMR Copy of Record

Form Approved OMB No. 2040-0004 expires on 07/31/2026

EPA may make all the information submitted through this form (including all attachments) available to the public without further notice to you. Do not use this online form to submit personal information (e.g., non-business cell phone number or non-business email address), confidential business information (CBI), or if you intend to assert a CBI claim on any of the submitted information. Pursuant to 40 CFR 2.203(a), EPA is providing you with notice that all CBI claims must be asserted at the time of submission. EPA cannot accommodate a late CBI claim to cover previously submitted information because efforts to protect the information are not administratively practicable since it may already be disclosed to the public. Although we do not foresee a need for persons to assert a claim of CBI based on the types of information requested in this form, if persons wish to assert a CBI claim we direct submitters to contact the NPDES eReporting Help Desk for further guidance. Please note that EPA may contact you after you submit this report for more information.

This collection of information is approved by OMB under the Paperwork Reduction Act, 44 U.S.C. 3501 et seq. (OMB Control No. 2040-0004). Responses to this collection of information are mandatory in accordance with this permit and EPA NPDES regulations 40 CFR 122.41(l)(4)(i). An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. The public reporting and recordkeeping burden for this collection of information are estimated to average 2 hours per outfall. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates and any suggested methods for minimizing respondent burden to the Regulatory Support Division Director, U.S. Environmental Protection Agency (2821T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed form to this address.

Permit

Permit #:	CO0032751	Permittee:	Grand Island Resources LLC	Facility:	CROSS AND CARIBOU MINES
Major:	No	Permittee Address:	12567 W Cedar Dr Ste 110 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 01/01/25 to 01/31/25	DMR Due Date:	02/28/25	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								=	3.7	=	4.5	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						=	7.7			=	8.1	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								<	2.0			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								=	21.0	=	21.0	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															
																			02/30 - Twice Per	

Table 6.1 DMR January 2025 (continued)

01114	Lead, total recoverable	1 - Effluent Gross	0	--	Sample			<	1.0	<	1.0	28 - ug/L		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 Cr]	1 - Effluent Gross	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
					Value NODI										
01303	Zinc, potentially dissolved	1 - Effluent Gross	1	--	Sample			=	25.5	=	29.0	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			<	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					<	2.0	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			<	3.0			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			<	2.0	<	2.0	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				
	Chromium, trivalent total	1 - Effluent			Sample					<	3.0	28 - ug/L		01/30 - Monthly	GR - Grab
					Permit Req.						Req Mon DAILY MX	28 - ug/L		01/30 - Monthly	GR - Grab

Table 6.1 DMR January 2025 (continued)

04262	recoverable	Gross	0	--	Value NODI											0			
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	1	--	Sample					=	0.052365	=	0.0778	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														
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
CO0032751_Lab_2025_01_J201483-1_01-06-25.pdf	pdf	1475246.0
CO0032751_Lab_2025_01_J202333-1_01-28-25.pdf	pdf	1413011.0
CO0032751_DMRcov_2025_01.pdf	pdf	204233.0

Report Last Saved By

Grand Island Resources LLC

User: JOHNRINKO
Name: John Rinko
E-Mail: johnrinko@yahoo.com
Date/Time: 2025-02-26 16:10 (Time Zone: -07:00)

Report Last Signed By

User: JOHNRINKO
Name: John Rinko
E-Mail: johnrinko@yahoo.com
Date/Time: 2025-02-26 16:10 (Time Zone: -07:00)

Table 6.2 DMR February 2025

DMR Copy of Record

Form Approved OMB No. 2040-0004 expires on 07/31/2026

EPA may make all the information submitted through this form (including all attachments) available to the public without further notice to you. Do not use this online form to submit personal information (e.g., non-business cell phone number or non-business email address), confidential business information (CBI), or if you intend to assert a CBI claim on any of the submitted information. Pursuant to 40 CFR 2.203(a), EPA is providing you with notice that all CBI claims must be asserted at the time of submission. EPA cannot accommodate a late CBI claim to cover previously submitted information because efforts to protect the information are not administratively practicable since it may already be disclosed to the public. Although we do not foresee a need for persons to assert a claim of CBI based on the types of information requested in this form, if persons wish to assert a CBI claim we direct submitters to contact the NPDES eReporting Help Desk for further guidance. Please note that EPA may contact you after you submit this report for more information.

This collection of information is approved by OMB under the Paperwork Reduction Act, 44 U.S.C. 3501 et seq. (OMB Control No. 2040-0004). Responses to this collection of information are mandatory in accordance with this permit and EPA NPDES regulations 40 CFR 122.41(l)(4)(i). An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. The public reporting and recordkeeping burden for this collection of information are estimated to average 2 hours per outfall. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates and any suggested methods for minimizing respondent burden to the Regulatory Support Division Director, U.S. Environmental Protection Agency (2821T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed form to this address.

Permit

Permit #:	**CO0032751**	**Permittee:**	Grand Island Resources LLC	**Facility:**	CROSS AND CARIBOU MINES
Major:	No	**Permittee Address:**	12567 W Cedar Dr Ste 110 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 02/01/25 to 02/28/25**	**DMR Due Date:**	**03/28/25**	**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								=	5.0	=	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						=	7.7			=	8.0	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								<	2.0			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															
																			02/30 - Twice Per	

Table 6.2 DMR February 2025 (continued)

01114	Lead, total recoverable	1 - Effluent Gross	0	--	Sample			<	1.0	<	1.0	28 - ug/L		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 Cr]	1 - Effluent Gross	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
					Value NODI										
01303	Zinc, potentially dissolved	1 - Effluent Gross	2	--	Sample			=	27.5	=	28.0	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			<	2.0	<	2.0	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					<	2.0	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			<	3.0			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			<	2.0	<	2.0	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				
	Chromium, trivalent total	1 - Effluent			Sample					<	3.0	28 - ug/L		01/30 - Monthly	GR - Grab
					Permit Req.						Req Mon DAILY MX	28 - ug/L		01/30 - Monthly	GR - Grab

Table 6.2 DMR February 2025 (continued)

04262	recoverable	Gross	0	--	Value NODI											0		
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	2	--	Sample					=	0.049968	=	0.0705	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													
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
CO0032751_DMRcov_2025_02.pdf	pdf	204242.0
CO0032751_Lab_2025_02_J203668-1_02-28-25.pdf	pdf	1001118.0
CO0032751_Lab_2025_02_J203061-1_02-13-25.pdf	pdf	1288634.0

Report Last Saved By

Grand Island Resources LLC

User:	JOHNRINKO
Name:	John Rinko
E-Mail:	johnrinko@yahoo.com
Date/Time:	2025-03-28 20:08 (Time Zone: -06:00)

Report Last Signed By

User:	JOHNRINKO
Name:	John Rinko
E-Mail:	johnrinko@yahoo.com
Date/Time:	2025-03-28 20:08 (Time Zone: -06:00)

Table 6.3 DMR March 2025

DMR Copy of Record

Form Approved OMB No. 2040-0004 expires on 07/31/2026

EPA may make all the information submitted through this form (including all attachments) available to the public without further notice to you. Do not use this online form to submit personal information (e.g., non-business cell phone number or non-business email address), confidential business information (CBI), or if you intend to assert a CBI claim on any of the submitted information. Pursuant to 40 CFR 2.203(a), EPA is providing you with notice that all CBI claims must be asserted at the time of submission. EPA cannot accommodate a late CBI claim to cover previously submitted information because efforts to protect the information are not administratively practicable since it may already be disclosed to the public. Although we do not foresee a need for persons to assert a claim of CBI based on the types of information requested in this form, if persons wish to assert a CBI claim we direct submitters to contact the NPDES eReporting Help Desk for further guidance. Please note that EPA may contact you after you submit this report for more information.

This collection of information is approved by OMB under the Paperwork Reduction Act, 44 U.S.C. 3501 et seq. (OMB Control No. 2040-0004). Responses to this collection of information are mandatory in accordance with this permit and EPA NPDES regulations 40 CFR 122.41(l)(4)(i). An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. The public reporting and recordkeeping burden for this collection of information are estimated to average 2 hours per outfall. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates and any suggested methods for minimizing respondent burden to the Regulatory Support Division Director, U.S. Environmental Protection Agency (2821T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed form to this address.

Permit

Permit #:	CO0032751	**Permittee:**	Grand Island Resources LLC	**Facility:**	CROSS AND CARIBOU MINES
Major:	No	**Permittee Address:**	12567 W Cedar Dr Ste 110 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 03/01/25 to 03/31/25	**DMR Due Date:**	04/28/25	**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								=	5.4	=	6.4	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						=	7.7			=	8.1	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								<	2.0			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								=	20.5	=	29.0	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															
																			02/30 - Twice Per	

Table 6.3 DMR March 2025 (continued)

01114	Lead, total recoverable	1 - Effluent Gross	0	--	Sample			<	1.0	<	1.0	28 - ug/L		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			=	1.27	=	3.8	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Permit Req.			<=	150.0 30DA AVG	<=	300.0 DAILY MX	26 - ug/L	0	02/30 - Twice Per Month	GR - Grab
					Value NODI										
01220	Chromium, hexavalent dissolved [as Cr]	1 - Effluent Gross	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
					Value NODI										
01303	Zinc, potentially dissolved	1 - Effluent Gross	3	--	Sample			=	18.5	=	19.0	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Permit Req.			<=	176.0 30DA AVG	<=	194.0 DAILY MX	26 - ug/L	0	02/30 - Twice Per Month	GR - Grab
					Value NODI										
01304	Silver, potentially dissolved	1 - Effluent Gross	3	--	Sample					<	0.5	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Permit Req.			<=	0.11 30DA AVG	<=	3.0 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	3	--	Sample			<	2.0	<	2.0	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Permit Req.			<=	13.0 30DA AVG	<=	19.0 DAILY MX	28 - ug/L	0	02/30 - Twice Per Month	GR - Grab
					Value NODI										
01309	Arsenic, potentially dissolved	1 - Effluent Gross	0	--	Sample					<	2.0	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	3	--	Sample					<	1.0	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Permit Req.			<=	0.6 30DA AVG	<=	2.4 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			<	3.0			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	3	--	Sample			<	1.0	<	1.0	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Permit Req.			<=	3.6 30DA AVG	<=	90.0 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			<	2.0	<	2.0	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				
	Chromium, trivalent total	1 - Effluent			Sample					<	3.0	28 - ug/L		01/30 - Monthly	GR - Grab
					Permit Req.						Req Mon DAILY MX	28 - ug/L		01/30 - Monthly	GR - Grab

Table 6.3 DMR March 2025 (continued)

04262	recoverable	Gross	0	--	Value NODI												0			
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	3	--	Sample						=	0.054252	=	0.0824	03 - MGD		99/99 - Continuous	RC - Recorder (auto)		
					Permit Req.						<=	0.129 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															
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
CO0032751_Lab_2025_03_J205111-1_03-28-25.pdf	pdf	999688.0
CO0032751_Lab_2025_03_J204343-1_03-13-25.pdf	pdf	1085894.0
CO0032751_Lab_2025_03_J204183-1_03-11-25.pdf	pdf	1076862.0
CO0032751_DMRcov_2025_03.pdf	pdf	205146.0

Report Last Saved By

Grand Island Resources LLC

User:	JOHNRINKO
Name:	John Rinko
E-Mail:	johnrinko@yahoo.com
Date/Time:	2025-04-22 21:04 (Time Zone: -06:00)

Report Last Signed By

User:	JOHNRINKO
Name:	John Rinko
E-Mail:	johnrinko@yahoo.com
Date/Time:	2025-04-22 21:05 (Time Zone: -06:00)

APPENDICES

APPENDIX A GROUNDWATER AND EFFLUENT ANALYTICAL RESULTS

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

ANALYTICAL REPORT

PREPARED FOR

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

Generated 3/26/2025 1:22:16 PM

JOB DESCRIPTION

Nederland, CO - Groundwater

JOB NUMBER

280-204345-1

Eurofins Denver
4955 Yarrow Street
Arvada CO 80002

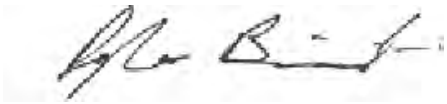
See page two for job notes and contact information.

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 - Groundwater

Job ID: 280-204345-1

Qualifiers

Metals

Qualifier	Qualifier Description
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
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.

Rad

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	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
280-204345-1

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 and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided 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 3/13/2025 3:43 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 4.7°C and 4.9°C.

Receipt Exceptions
Due to laboratory error related to fulfillment of the sampling kit provided to the client, the sample volume received for the requested 353.2 Nitrate/Nitrite analysis for the following samples was received as unpreserved sample volume. The client was notified on 3/13/2025 that the laboratory will proceed with the requested analysis by appropriately preserving an aliquot of unpreserved sample volume with sulfuric acid within 48 hours of the sample collection date/time: CARIBOU PORTAL (280-204345-1), CARIBOU WELL (280-204345-2), CARIBOU WELL 02 (280-204345-3), CROSS PORTAL (280-204345-4), CROSS PORTAL 02

Job ID: 280-204345-1 (Continued) Eurofins Denver

(280-204345-5), COMPLIANCE WELL (280-204345-6), COMPLIANCE 03 (280-204345-7) and CROSS WELL (280-204345-8).

Method 200.7 Rev 4.4 - Metals (ICP) - Dissolved
Samples CARIBOU PORTAL (280-204345-1), CARIBOU WELL (280-204345-2), CARIBOU WELL 02 (280-204345-3), CROSS PORTAL (280-204345-4), CROSS PORTAL 02 (280-204345-5), COMPLIANCE WELL (280-204345-6), COMPLIANCE 03 (280-204345-7) and CROSS WELL (280-204345-8) were analyzed for Metals (ICP) - Dissolved. The samples were prepared on 3/14/2025 and analyzed on 3/18/2025.

Method 200.8 - ICPMS Total Metals - Dissolved
Samples CARIBOU PORTAL (280-204345-1), CARIBOU WELL (280-204345-2), CARIBOU WELL 02 (280-204345-3), CROSS PORTAL (280-204345-4), CROSS PORTAL 02 (280-204345-5), COMPLIANCE WELL (280-204345-6), COMPLIANCE 03 (280-204345-7) and CROSS WELL (280-204345-8) were analyzed for ICPMS Total Metals - Dissolved. The samples were prepared on 3/14/2025 and analyzed on 3/17/2025.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 280-687687 and analytical batch 280-687958 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 SM 2540C - Solids, Total Dissolved (TDS)
Samples CARIBOU PORTAL (280-204345-1), CARIBOU WELL (280-204345-2), CARIBOU WELL 02 (280-204345-3), CROSS PORTAL (280-204345-4), CROSS PORTAL 02 (280-204345-5), COMPLIANCE WELL (280-204345-6), COMPLIANCE 03 (280-204345-7) and CROSS WELL (280-204345-8) were analyzed for Solids, Total Dissolved (TDS). The samples were analyzed on 3/18/2025.

Method 300.0 - Anions, Ion Chromatography
Samples CARIBOU PORTAL (280-204345-1), CARIBOU WELL (280-204345-2), CARIBOU WELL 02 (280-204345-3), CROSS PORTAL (280-204345-4), CROSS PORTAL 02 (280-204345-5), COMPLIANCE WELL (280-204345-6), COMPLIANCE 03 (280-204345-7) and CROSS WELL (280-204345-8) were analyzed for Anions, Ion Chromatography. The samples were analyzed on 3/14/2025.

Method 353.2 - Nitrogen, Nitrate-Nitrite
Samples CARIBOU PORTAL (280-204345-1), CARIBOU WELL (280-204345-2), CARIBOU WELL 02 (280-204345-3), CROSS PORTAL (280-204345-4), CROSS PORTAL 02 (280-204345-5), COMPLIANCE WELL (280-204345-6), COMPLIANCE 03 (280-204345-7) and CROSS WELL (280-204345-8) were analyzed for Nitrogen, Nitrate-Nitrite. The samples were analyzed on 3/14/2025.

Method SM 4500 Cl- E - Chloride, Total
Samples CARIBOU PORTAL (280-204345-1), CARIBOU WELL (280-204345-2), CARIBOU WELL 02 (280-204345-3), CROSS PORTAL (280-204345-4), CROSS PORTAL 02 (280-204345-5), COMPLIANCE WELL (280-204345-6), COMPLIANCE 03 (280-204345-7) and CROSS WELL (280-204345-8) were analyzed for Chloride, Total. The samples were analyzed on 3/14/2025.

Method SM 4500 SO4 E - Sulfate, Total
Samples CARIBOU PORTAL (280-204345-1), CARIBOU WELL (280-204345-2), CARIBOU WELL 02 (280-204345-3), CROSS PORTAL (280-204345-4), CROSS PORTAL 02 (280-204345-5), COMPLIANCE WELL (280-204345-6), COMPLIANCE 03 (280-204345-7) and CROSS WELL (280-204345-8) were analyzed for Sulfate, Total. The samples were analyzed on 3/19/2025.

The matrix spike (MS) recovery for analytical batch 280-688318 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference is suspected because the associated laboratory control sample & laboratory control sample duplicate (LCS/LCSD) recovery are within acceptance limits.

Method 901.1 - Cesium 137 & Other Gamma Emitters (GS) - Dissolved
Samples CARIBOU PORTAL (280-204345-1), CARIBOU WELL (280-204345-2), CARIBOU WELL 02 (280-204345-3), CROSS PORTAL (280-204345-4), CROSS PORTAL 02 (280-204345-5), COMPLIANCE WELL (280-204345-6), COMPLIANCE 03 (280-204345-7) and CROSS WELL (280-204345-8) were analyzed for Cesium 137 & Other Gamma Emitters (GS) - Dissolved. The samples were prepared and analyzed on 3/20/2025.

Gamma Batch 160-708699
The detection goal for cesium-137 was not met. This is caused by statistical fluctuations in the Compton background due to low level activity in the samples in conjunction with the software attempting to fit a peak into the noise of this baseline: CARIBOU WELL (280-204345-2), CROSS PORTAL (280-204345-4), COMPLIANCE 03 (280-204345-7) and CROSS WELL (280-204345-8)

Job ID: 280-204345-1 (Continued) Eurofins Denver

Gamma Batch 160-708699
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 as 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-208m	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

CARIBOU PORTAL (280-204345-1), CARIBOU WELL (280-204345-2), CARIBOU WELL 02 (280-204345-3), CROSS PORTAL (280-204345-4), CROSS PORTAL 02 (280-204345-5), COMPLIANCE WELL (280-204345-6), COMPLIANCE 03 (280-204345-7), CROSS WELL (280-204345-8), (LCS 160-708699/2-A), (MB 160-708699/1-A) and (280-204345-A-1-B DU)

Method 900.0 - Gross Alpha and Gross Beta Radioactivity - Dissolved
Samples CARIBOU PORTAL (280-204345-1), CARIBOU WELL (280-204345-2), CARIBOU WELL 02 (280-204345-3), CROSS PORTAL (280-204345-4), CROSS PORTAL 02 (280-204345-5), COMPLIANCE WELL (280-204345-6), COMPLIANCE 03 (280-204345-7) and CROSS WELL (280-204345-8) were analyzed for Gross Alpha and Gross Beta Radioactivity - Dissolved. The samples were prepared on 3/18/2025 and analyzed on 3/19/2025 and 3/20/2025.

Gross Alpha and Gross Beta batch 708337
The detection goal was not met for the following samples due to a reduction of the sample size attributed to high residual mass: (240-220200-C-29-A) and (240-220200-C-29-D DU). Analytical results are reported with the detection limit achieved.

Detection Summary

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

Job ID: 280-204345-1

Client Sample ID: CARIBOU PORTAL — Lab Sample ID: 280-204345-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.043	J	0.050	0.015	mg/L	1		200.7 Rev 4.4	Dissolved
Antimony	0.00068	J	0.0020	0.00050	mg/L	1		200.8	Dissolved
Barium	0.055		0.0020	0.00055	mg/L	1		200.8	Dissolved
Manganese	0.0016	J	0.0030	0.0015	mg/L	1		200.8	Dissolved
Molybdenum	0.0072		0.0020	0.00050	mg/L	1		200.8	Dissolved
Uranium	0.0064		0.0010	0.00025	mg/L	1		200.8	Dissolved
Zinc	0.0053	J	0.010	0.0050	mg/L	1		200.8	Dissolved
Nitrate as N	0.14	J	0.50	0.10	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	0.11	J	0.20	0.060	mg/L	1		353.2	Total/NA
Total Dissolved Solids (TDS)	130		10	6.0	mg/L	1		SM 2540C	Total/NA
Sulfate	9.5		3.0	1.0	mg/L	1		SM 4500 SO4 E	Total/NA

Client Sample ID: CARIBOU WELL — Lab Sample ID: 280-204345-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.026	J	0.050	0.015	mg/L	1		200.7 Rev 4.4	Dissolved
Barium	0.0063		0.0020	0.00055	mg/L	1		200.8	Dissolved
Copper	0.15		0.0020	0.0010	mg/L	1		200.8	Dissolved
Nitrate as N	0.14	J	0.50	0.10	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	0.12	J	0.20	0.060	mg/L	1		353.2	Total/NA
Total Dissolved Solids (TDS)	33		10	6.0	mg/L	1		SM 2540C	Total/NA
Sulfate	1.8	J F1	3.0	1.0	mg/L	1		SM 4500 SO4 E	Total/NA

Client Sample ID: CARIBOU WELL 02 — Lab Sample ID: 280-204345-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0060		0.0020	0.00055	mg/L	1		200.8	Dissolved
Copper	0.21		0.0020	0.0010	mg/L	1		200.8	Dissolved
Zinc	0.0054	J	0.010	0.0050	mg/L	1		200.8	Dissolved
Nitrate as N	0.14	J	0.50	0.10	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	0.12	J	0.20	0.060	mg/L	1		353.2	Total/NA
Total Dissolved Solids (TDS)	33		10	6.0	mg/L	1		SM 2540C	Total/NA
Sulfate	1.8	J	3.0	1.0	mg/L	1		SM 4500 SO4 E	Total/NA

Client Sample ID: CROSS PORTAL — Lab Sample ID: 280-204345-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.084		0.0020	0.00055	mg/L	1		200.8	Dissolved
Cadmium	0.00079	J	0.0010	0.00025	mg/L	1		200.8	Dissolved
Copper	0.0027		0.0020	0.0010	mg/L	1		200.8	Dissolved
Lead	0.00052	J	0.0010	0.00050	mg/L	1		200.8	Dissolved
Manganese	0.019		0.0030	0.0015	mg/L	1		200.8	Dissolved
Molybdenum	0.0074		0.0020	0.00050	mg/L	1		200.8	Dissolved
Uranium	0.00099	J	0.0010	0.00025	mg/L	1		200.8	Dissolved
Zinc	0.16		0.010	0.0050	mg/L	1		200.8	Dissolved
Total Dissolved Solids (TDS)	120		10	6.0	mg/L	1		SM 2540C	Total/NA
Sulfate	11		3.0	1.0	mg/L	1		SM 4500 SO4 E	Total/NA

Client Sample ID: CROSS PORTAL 02 — Lab Sample ID: 280-204345-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.084		0.0020	0.00055	mg/L	1		200.8	Dissolved
Cadmium	0.00095	J	0.0010	0.00025	mg/L	1		200.8	Dissolved

This Detection Summary does not include radiochemical test results.

Eurofins Denver

Client Sample ID: CROSS PORTAL 02 (Continued) — Lab Sample ID: 280-204345-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.0021		0.0020	0.0010	mg/L	1		200.8	Dissolved
Lead	0.00088	J	0.0010	0.00050	mg/L	1		200.8	Dissolved
Manganese	0.018		0.0030	0.0015	mg/L	1		200.8	Dissolved
Molybdenum	0.0074		0.0020	0.00050	mg/L	1		200.8	Dissolved
Uranium	0.00097	J	0.0010	0.00025	mg/L	1		200.8	Dissolved
Zinc	0.17		0.010	0.0050	mg/L	1		200.8	Dissolved
Total Dissolved Solids (TDS)	120		10	6.0	mg/L	1		SM 2540C	Total/NA
Sulfate	11		3.0	1.0	mg/L	1		SM 4500 SO4 E	Total/NA

Client Sample ID: COMPLIANCE WELL — Lab Sample ID: 280-204345-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.041		0.0020	0.00055	mg/L	1		200.8	Dissolved
Manganese	0.0070		0.0030	0.0015	mg/L	1		200.8	Dissolved
Molybdenum	0.0046		0.0020	0.00050	mg/L	1		200.8	Dissolved
Zinc	0.097		0.010	0.0050	mg/L	1		200.8	Dissolved
Nitrate as N	0.36	J	0.50	0.10	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	0.46		0.20	0.060	mg/L	1		353.2	Total/NA
Total Dissolved Solids (TDS)	90		10	6.0	mg/L	1		SM 2540C	Total/NA
Chloride	3.6		2.0	0.50	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	11		3.0	1.0	mg/L	1		SM 4500 SO4 E	Total/NA

Client Sample ID: COMPLIANCE 03 — Lab Sample ID: 280-204345-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.041	J	0.10	0.025	mg/L	1		200.7 Rev 4.4	Dissolved
Barium	0.0020		0.0020	0.00055	mg/L	1		200.8	Dissolved
Total Dissolved Solids (TDS)	10		10	6.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: CROSS WELL — Lab Sample ID: 280-204345-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.032		0.0020	0.00055	mg/L	1		200.8	Dissolved
Copper	0.0035		0.0020	0.0010	mg/L	1		200.8	Dissolved
Molybdenum	0.00075	J	0.0020	0.00050	mg/L	1		200.8	Dissolved
Zinc	0.51		0.010	0.0050	mg/L	1		200.8	Dissolved
Nitrate as N	0.33	J	0.50	0.10	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	0.39		0.20	0.060	mg/L	1		353.2	Total/NA
Total Dissolved Solids (TDS)	86		10	6.0	mg/L	1		SM 2540C	Total/NA
Chloride	3.8		2.0	0.50	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	8.3		3.0	1.0	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: 280-204345-1

Method	Method Description	Protocol	Laboratory
200.7 Rev 4.4	Metals (ICP)	EPA	EET DEN
200.8	ICPMS Total Metals	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 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
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: 280-204345-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-204345-1	CARIBOU PORTAL	Water	03/13/25 10:30	03/13/25 15:43
280-204345-2	CARIBOU WELL	Water	03/13/25 11:00	03/13/25 15:43
280-204345-3	CARIBOU WELL 02	Water	03/13/25 11:00	03/13/25 15:43
280-204345-4	CROSS PORTAL	Water	03/13/25 12:00	03/13/25 15:43
280-204345-5	CROSS PORTAL 02	Water	03/13/25 12:00	03/13/25 15:43
280-204345-6	COMPLIANCE WELL	Water	03/13/25 12:30	03/13/25 15:43
280-204345-7	COMPLIANCE 03	Water	03/13/25 12:30	03/13/25 15:43
280-204345-8	CROSS WELL	Water	03/13/25 13:00	03/13/25 15:43

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

Client Sample ID: CARIBOU PORTAL
Date Collected: 03/13/25 10:30
Date Received: 03/13/25 15:43

Lab Sample ID: 280-204345-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.10	0.025	mg/L		03/14/25 15:13	03/18/25 07:07	1
Boron	**0.043**	**J**	0.050	0.015	mg/L		03/14/25 15:13	03/18/25 07:07	1
Iron	ND		0.10	0.040	mg/L		03/14/25 15:13	03/18/25 07:07	1

Client Sample ID: CARIBOU WELL
Date Collected: 03/13/25 11:00
Date Received: 03/13/25 15:43

Lab Sample ID: 280-204345-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.10	0.025	mg/L		03/14/25 15:13	03/18/25 07:11	1
Boron	**0.026**	**J**	0.050	0.015	mg/L		03/14/25 15:13	03/18/25 07:11	1
Iron	ND		0.10	0.040	mg/L		03/14/25 15:13	03/18/25 07:11	1

Client Sample ID: CARIBOU WELL 02
Date Collected: 03/13/25 11:00
Date Received: 03/13/25 15:43

Lab Sample ID: 280-204345-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.10	0.025	mg/L		03/14/25 15:13	03/18/25 07:15	1
Boron	ND		0.050	0.015	mg/L		03/14/25 15:13	03/18/25 07:15	1
Iron	ND		0.10	0.040	mg/L		03/14/25 15:13	03/18/25 07:15	1

Client Sample ID: CROSS PORTAL
Date Collected: 03/13/25 12:00
Date Received: 03/13/25 15:43

Lab Sample ID: 280-204345-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.10	0.025	mg/L		03/14/25 15:13	03/18/25 07:31	1
Boron	ND		0.050	0.015	mg/L		03/14/25 15:13	03/18/25 07:31	1
Iron	ND		0.10	0.040	mg/L		03/14/25 15:13	03/18/25 07:31	1

Client Sample ID: CROSS PORTAL 02
Date Collected: 03/13/25 12:00
Date Received: 03/13/25 15:43

Lab Sample ID: 280-204345-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.10	0.025	mg/L		03/14/25 15:13	03/18/25 07:34	1
Boron	ND		0.050	0.015	mg/L		03/14/25 15:13	03/18/25 07:34	1
Iron	ND		0.10	0.040	mg/L		03/14/25 15:13	03/18/25 07:34	1

Client Sample ID: COMPLIANCE WELL
Date Collected: 03/13/25 12:30
Date Received: 03/13/25 15:43

Lab Sample ID: 280-204345-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.10	0.025	mg/L		03/14/25 15:13	03/18/25 07:38	1
Boron	ND		0.050	0.015	mg/L		03/14/25 15:13	03/18/25 07:38	1
Iron	ND		0.10	0.040	mg/L		03/14/25 15:13	03/18/25 07:38	1

Client Sample ID: COMPLIANCE 03
Date Collected: 03/13/25 12:30
Date Received: 03/13/25 15:43

Lab Sample ID: 280-204345-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.041**	**J**	0.10	0.025	mg/L		03/14/25 15:13	03/18/25 07:42	1
Boron	ND		0.050	0.015	mg/L		03/14/25 15:13	03/18/25 07:42	1
Iron	ND		0.10	0.040	mg/L		03/14/25 15:13	03/18/25 07:42	1

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

Client Sample ID: CROSS WELL
Date Collected: 03/13/25 13:00
Date Received: 03/13/25 15:43

Lab Sample ID: 280-204345-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.10	0.025	mg/L		03/14/25 15:13	03/18/25 07:46	1
Boron	ND		0.050	0.015	mg/L		03/14/25 15:13	03/18/25 07:46	1
Iron	ND		0.10	0.040	mg/L		03/14/25 15:13	03/18/25 07:46	1

Method: EPA 200.8 - ICPMS Total Metals - Dissolved

Client Sample ID: CARIBOU PORTAL
Date Collected: 03/13/25 10:30
Date Received: 03/13/25 15:43

Lab Sample ID: 280-204345-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.00068**	**J**	0.0020	0.00050	mg/L		03/14/25 15:13	03/17/25 11:05	1
Arsenic	ND		0.0020	0.00050	mg/L		03/14/25 15:13	03/17/25 12:32	1
Barium	**0.055**		0.0020	0.00055	mg/L		03/14/25 15:13	03/17/25 12:32	1
Cadmium	ND		0.0010	0.00025	mg/L		03/14/25 15:13	03/17/25 11:05	1
Copper	ND		0.0020	0.0010	mg/L		03/14/25 15:13	03/17/25 11:05	1
Lead	ND		0.0010	0.00050	mg/L		03/14/25 15:13	03/17/25 11:05	1
Manganese	**0.0016**	**J**	0.0030	0.0015	mg/L		03/14/25 15:13	03/17/25 12:32	1
Molybdenum	**0.0072**		0.0020	0.00050	mg/L		03/14/25 15:13	03/17/25 11:05	1
Uranium	**0.0064**		0.0010	0.00025	mg/L		03/14/25 15:13	03/17/25 11:05	1
Zinc	**0.0053**	**J**	0.010	0.0050	mg/L		03/14/25 15:13	03/17/25 11:05	1

Client Sample ID: CARIBOU WELL
Date Collected: 03/13/25 11:00
Date Received: 03/13/25 15:43

Lab Sample ID: 280-204345-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00050	mg/L		03/14/25 15:13	03/17/25 11:07	1
Arsenic	ND		0.0020	0.00050	mg/L		03/14/25 15:13	03/17/25 12:34	1
Barium	**0.0063**		0.0020	0.00055	mg/L		03/14/25 15:13	03/17/25 12:34	1
Cadmium	ND		0.0010	0.00025	mg/L		03/14/25 15:13	03/17/25 11:07	1
Copper	**0.15**		0.0020	0.0010	mg/L		03/14/25 15:13	03/17/25 11:07	1
Lead	ND		0.0010	0.00050	mg/L		03/14/25 15:13	03/17/25 11:07	1
Manganese	ND		0.0030	0.0015	mg/L		03/14/25 15:13	03/17/25 12:34	1
Molybdenum	ND		0.0020	0.00050	mg/L		03/14/25 15:13	03/17/25 11:07	1
Uranium	ND		0.0010	0.00025	mg/L		03/14/25 15:13	03/17/25 11:07	1
Zinc	ND		0.010	0.0050	mg/L		03/14/25 15:13	03/17/25 11:07	1

Client Sample ID: CARIBOU WELL 02
Date Collected: 03/13/25 11:00
Date Received: 03/13/25 15:43

Lab Sample ID: 280-204345-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00050	mg/L		03/14/25 15:13	03/17/25 11:09	1
Arsenic	ND		0.0020	0.00050	mg/L		03/14/25 15:13	03/17/25 12:36	1
Barium	**0.0060**		0.0020	0.00055	mg/L		03/14/25 15:13	03/17/25 12:36	1
Cadmium	ND		0.0010	0.00025	mg/L		03/14/25 15:13	03/17/25 11:09	1
Copper	**0.21**		0.0020	0.0010	mg/L		03/14/25 15:13	03/17/25 11:09	1
Lead	ND		0.0010	0.00050	mg/L		03/14/25 15:13	03/17/25 12:36	1
Manganese	ND		0.0030	0.0015	mg/L		03/14/25 15:13	03/17/25 12:36	1
Molybdenum	ND		0.0020	0.00050	mg/L		03/14/25 15:13	03/17/25 11:09	1
Uranium	ND		0.0010	0.00025	mg/L		03/14/25 15:13	03/17/25 11:09	1
Zinc	**0.0054**	**J**	0.010	0.0050	mg/L		03/14/25 15:13	03/17/25 11:09	1

Method: EPA 200.8 - ICPMS Total Metals - Dissolved

Client Sample ID: CROSS PORTAL
Date Collected: 03/13/25 12:00
Date Received: 03/13/25 15:43
Lab Sample ID: 280-204345-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00050	mg/L		03/14/25 15:13	03/17/25 11:12	1
Arsenic	ND		0.0020	0.00050	mg/L		03/14/25 15:13	03/17/25 12:39	1
Barium	**0.084**		0.0020	0.00055	mg/L		03/14/25 15:13	03/17/25 12:39	1
Cadmium	**0.00079**	**J**	0.0010	0.00025	mg/L		03/14/25 15:13	03/17/25 11:12	1
Copper	**0.0027**		0.0020	0.0010	mg/L		03/14/25 15:13	03/17/25 11:12	1
Lead	**0.00052**	**J**	0.0010	0.00050	mg/L		03/14/25 15:13	03/17/25 12:39	1
Manganese	**0.019**		0.0030	0.0015	mg/L		03/14/25 15:13	03/17/25 12:39	1
Molybdenum	**0.0074**		0.0020	0.00050	mg/L		03/14/25 15:13	03/17/25 11:12	1
Uranium	**0.00099**	**J**	0.0010	0.00025	mg/L		03/14/25 15:13	03/17/25 11:12	1
Zinc	**0.16**		0.010	0.0050	mg/L		03/14/25 15:13	03/17/25 11:12	1

Client Sample ID: CROSS PORTAL 02
Date Collected: 03/13/25 12:00
Date Received: 03/13/25 15:43
Lab Sample ID: 280-204345-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00050	mg/L		03/14/25 15:13	03/17/25 11:14	1
Arsenic	ND		0.0020	0.00050	mg/L		03/14/25 15:13	03/17/25 12:41	1
Barium	**0.084**		0.0020	0.00055	mg/L		03/14/25 15:13	03/17/25 12:41	1
Cadmium	**0.00095**	**J**	0.0010	0.00025	mg/L		03/14/25 15:13	03/17/25 11:14	1
Copper	**0.0021**		0.0020	0.0010	mg/L		03/14/25 15:13	03/17/25 11:14	1
Lead	**0.00088**	**J**	0.0010	0.00050	mg/L		03/14/25 15:13	03/17/25 12:41	1
Manganese	**0.018**		0.0030	0.0015	mg/L		03/14/25 15:13	03/17/25 12:41	1
Molybdenum	**0.0074**		0.0020	0.00050	mg/L		03/14/25 15:13	03/17/25 11:14	1
Uranium	**0.00097**	**J**	0.0010	0.00025	mg/L		03/14/25 15:13	03/17/25 11:14	1
Zinc	**0.17**		0.010	0.0050	mg/L		03/14/25 15:13	03/17/25 11:14	1

Client Sample ID: COMPLIANCE WELL
Date Collected: 03/13/25 12:30
Date Received: 03/13/25 15:43
Lab Sample ID: 280-204345-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00050	mg/L		03/14/25 15:13	03/17/25 11:17	1
Arsenic	ND		0.0020	0.00050	mg/L		03/14/25 15:13	03/17/25 12:43	1
Barium	**0.041**		0.0020	0.00055	mg/L		03/14/25 15:13	03/17/25 12:43	1
Cadmium	ND		0.0010	0.00025	mg/L		03/14/25 15:13	03/17/25 11:17	1
Copper	ND		0.0020	0.0010	mg/L		03/14/25 15:13	03/17/25 11:17	1
Lead	ND		0.0010	0.00050	mg/L		03/14/25 15:13	03/17/25 11:17	1
Manganese	**0.0070**		0.0030	0.0015	mg/L		03/14/25 15:13	03/17/25 12:43	1
Molybdenum	**0.0046**		0.0020	0.00050	mg/L		03/14/25 15:13	03/17/25 11:17	1
Uranium	ND		0.0010	0.00025	mg/L		03/14/25 15:13	03/17/25 11:17	1
Zinc	**0.097**		0.010	0.0050	mg/L		03/14/25 15:13	03/17/25 11:17	1

Client Sample ID: COMPLIANCE 03
Date Collected: 03/13/25 12:30
Date Received: 03/13/25 15:43
Lab Sample ID: 280-204345-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00050	mg/L		03/14/25 15:13	03/17/25 11:19	1
Arsenic	ND		0.0020	0.00050	mg/L		03/14/25 15:13	03/17/25 12:46	1
Barium	**0.0020**		0.0020	0.00055	mg/L		03/14/25 15:13	03/17/25 12:46	1
Cadmium	ND		0.0010	0.00025	mg/L		03/14/25 15:13	03/17/25 11:19	1
Copper	ND		0.0020	0.0010	mg/L		03/14/25 15:13	03/17/25 11:19	1

Method: EPA 200.8 - ICPMS Total Metals - Dissolved (Continued)

Client Sample ID: COMPLIANCE 03
Date Collected: 03/13/25 12:30
Date Received: 03/13/25 15:43

Lab Sample ID: 280-204345-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0010	0.00050	mg/L		03/14/25 15:13	03/17/25 11:19	1
Manganese	ND		0.0030	0.0015	mg/L		03/14/25 15:13	03/17/25 12:46	1
Molybdenum	ND		0.0020	0.00050	mg/L		03/14/25 15:13	03/17/25 11:19	1
Uranium	ND		0.0010	0.00025	mg/L		03/14/25 15:13	03/17/25 11:19	1
Zinc	ND		0.010	0.0050	mg/L		03/14/25 15:13	03/17/25 11:19	1

Client Sample ID: CROSS WELL
Date Collected: 03/13/25 13:00
Date Received: 03/13/25 15:43

Lab Sample ID: 280-204345-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00050	mg/L		03/14/25 15:13	03/17/25 11:21	1
Arsenic	ND		0.0020	0.00050	mg/L		03/14/25 15:13	03/17/25 12:48	1
Barium	**0.032**		0.0020	0.00055	mg/L		03/14/25 15:13	03/17/25 12:48	1
Cadmium	ND		0.0010	0.00025	mg/L		03/14/25 15:13	03/17/25 11:21	1
Copper	**0.0035**		0.0020	0.0010	mg/L		03/14/25 15:13	03/17/25 11:21	1
Lead	ND		0.0010	0.00050	mg/L		03/14/25 15:13	03/17/25 11:21	1
Manganese	ND		0.0030	0.0015	mg/L		03/14/25 15:13	03/17/25 12:48	1
Molybdenum	**0.00075**	**J**	0.0020	0.00050	mg/L		03/14/25 15:13	03/17/25 11:21	1
Uranium	ND		0.0010	0.00025	mg/L		03/14/25 15:13	03/17/25 11:21	1
Zinc	**0.51**		0.010	0.0050	mg/L		03/14/25 15:13	03/17/25 11:21	1

General Chemistry

Client Sample ID: CARIBOU PORTAL
Date Collected: 03/13/25 10:30
Date Received: 03/13/25 15:43

Lab Sample ID: 280-204345-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N (EPA 300.0)	**0.14**	**J**	0.50	0.10	mg/L			03/14/25 05:13	1
Nitrate Nitrite as N (EPA 353.2)	**0.11**	**J**	0.20	0.060	mg/L			03/14/25 10:54	1
Total Dissolved Solids (TDS) (SM 2540C)	**130**		10	6.0	mg/L			03/18/25 09:05	1
Chloride (SM 4500 Cl- E)	ND		2.0	0.50	mg/L			03/14/25 15:39	1
Sulfate (SM 4500 SO4 E)	**9.5**		3.0	1.0	mg/L			03/19/25 11:35	1

Client Sample ID: CARIBOU WELL
Date Collected: 03/13/25 11:00
Date Received: 03/13/25 15:43

Lab Sample ID: 280-204345-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N (EPA 300.0)	**0.14**	**J**	0.50	0.10	mg/L			03/14/25 05:24	1
Nitrate Nitrite as N (EPA 353.2)	**0.12**	**J**	0.20	0.060	mg/L			03/14/25 10:58	1
Total Dissolved Solids (TDS) (SM 2540C)	**33**		10	6.0	mg/L			03/18/25 09:05	1
Chloride (SM 4500 Cl- E)	ND		2.0	0.50	mg/L			03/14/25 15:40	1
Sulfate (SM 4500 SO4 E)	**1.8**	**J F1**	3.0	1.0	mg/L			03/19/25 11:55	1

Client Sample ID: CARIBOU WELL 02
Date Collected: 03/13/25 11:00
Date Received: 03/13/25 15:43

Lab Sample ID: 280-204345-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N (EPA 300.0)	**0.14**	**J**	0.50	0.10	mg/L			03/14/25 05:35	1
Nitrate Nitrite as N (EPA 353.2)	**0.12**	**J**	0.20	0.060	mg/L			03/14/25 10:59	1

General Chemistry (Continued)

Client Sample ID: CARIBOU WELL 02
Date Collected: 03/13/25 11:00
Date Received: 03/13/25 15:43

Lab Sample ID: 280-204345-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS) (SM 2540C)	**33**		10	6.0	mg/L			03/18/25 09:05	1
Chloride (SM 4500 Cl- E)	ND		2.0	0.50	mg/L			03/14/25 15:40	1
Sulfate (SM 4500 SO4 E)	**1.8**	**J**	3.0	1.0	mg/L			03/19/25 11:56	1

Client Sample ID: CROSS PORTAL
Date Collected: 03/13/25 12:00
Date Received: 03/13/25 15:43

Lab Sample ID: 280-204345-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N (EPA 300.0)	ND		0.50	0.10	mg/L			03/14/25 05:47	1
Nitrate Nitrite as N (EPA 353.2)	ND		0.20	0.060	mg/L			03/14/25 11:01	1
Total Dissolved Solids (TDS) (SM 2540C)	**120**		10	6.0	mg/L			03/18/25 09:05	1
Chloride (SM 4500 Cl- E)	ND		2.0	0.50	mg/L			03/14/25 15:40	1
Sulfate (SM 4500 SO4 E)	**11**		3.0	1.0	mg/L			03/19/25 11:56	1

Client Sample ID: CROSS PORTAL 02
Date Collected: 03/13/25 12:00
Date Received: 03/13/25 15:43

Lab Sample ID: 280-204345-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N (EPA 300.0)	ND		0.50	0.10	mg/L			03/14/25 05:58	1
Nitrate Nitrite as N (EPA 353.2)	ND		0.20	0.060	mg/L			03/14/25 11:02	1
Total Dissolved Solids (TDS) (SM 2540C)	**120**		10	6.0	mg/L			03/18/25 09:05	1
Chloride (SM 4500 Cl- E)	ND		2.0	0.50	mg/L			03/14/25 15:40	1
Sulfate (SM 4500 SO4 E)	**11**		3.0	1.0	mg/L			03/19/25 11:56	1

Client Sample ID: COMPLIANCE WELL
Date Collected: 03/13/25 12:30
Date Received: 03/13/25 15:43

Lab Sample ID: 280-204345-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N (EPA 300.0)	**0.36**	**J**	0.50	0.10	mg/L			03/14/25 06:09	1
Nitrate Nitrite as N (EPA 353.2)	**0.46**		0.20	0.060	mg/L			03/14/25 11:03	1
Total Dissolved Solids (TDS) (SM 2540C)	**90**		10	6.0	mg/L			03/18/25 09:05	1
Chloride (SM 4500 Cl- E)	**3.6**		2.0	0.50	mg/L			03/14/25 15:41	1
Sulfate (SM 4500 SO4 E)	**11**		3.0	1.0	mg/L			03/19/25 11:57	1

Client Sample ID: COMPLIANCE 03
Date Collected: 03/13/25 12:30
Date Received: 03/13/25 15:43

Lab Sample ID: 280-204345-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N (EPA 300.0)	ND		0.50	0.10	mg/L			03/14/25 06:20	1
Nitrate Nitrite as N (EPA 353.2)	ND		0.20	0.060	mg/L			03/14/25 11:04	1
Total Dissolved Solids (TDS) (SM 2540C)	**10**		10	6.0	mg/L			03/18/25 09:05	1
Chloride (SM 4500 Cl- E)	ND		2.0	0.50	mg/L			03/14/25 15:39	1
Sulfate (SM 4500 SO4 E)	ND		3.0	1.0	mg/L			03/19/25 11:57	1

General Chemistry

Client Sample ID: CROSS WELL
Date Collected: 03/13/25 13:00
Date Received: 03/13/25 15:43

Lab Sample ID: 280-204345-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N (EPA 300.0)	**0.33**	**J**	0.50	0.10	mg/L			03/14/25 06:32	1
Nitrate Nitrite as N (EPA 353.2)	**0.39**		0.20	0.060	mg/L			03/14/25 11:06	1
Total Dissolved Solids (TDS) (SM 2540C)	**86**		10	6.0	mg/L			03/18/25 09:05	1
Chloride (SM 4500 Cl- E)	**3.8**		2.0	0.50	mg/L			03/14/25 15:41	1
Sulfate (SM 4500 SO4 E)	**8.3**		3.0	1.0	mg/L			03/19/25 11:57	1

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

Client Sample ID: CARIBOU PORTAL
Date Collected: 03/13/25 10:30
Date Received: 03/13/25 15:43

Lab Sample ID: 280-204345-1
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	**4.62**		1.68	1.76	3.00	1.74	pCi/L	03/18/25 08:02	03/19/25 20:14	1
Gross Beta	1.13	U	0.801	0.809	4.00	1.19	pCi/L	03/18/25 08:02	03/19/25 20:14	1

Client Sample ID: CARIBOU WELL
Date Collected: 03/13/25 11:00
Date Received: 03/13/25 15:43

Lab Sample ID: 280-204345-2
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	-0.266	U	0.483	0.484	3.00	1.06	pCi/L	03/18/25 08:02	03/19/25 20:14	1
Gross Beta	0.812	U	0.666	0.671	4.00	1.06	pCi/L	03/18/25 08:02	03/19/25 20:14	1

Client Sample ID: CARIBOU WELL 02
Date Collected: 03/13/25 11:00
Date Received: 03/13/25 15:43

Lab Sample ID: 280-204345-3
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	0.279	U	0.371	0.372	3.00	0.618	pCi/L	03/18/25 08:02	03/19/25 20:15	1
Gross Beta	-0.0987	U	0.603	0.603	4.00	1.08	pCi/L	03/18/25 08:02	03/19/25 20:15	1

Client Sample ID: CROSS PORTAL
Date Collected: 03/13/25 12:00
Date Received: 03/13/25 15:43

Lab Sample ID: 280-204345-4
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	1.24	U	1.04	1.05	3.00	1.58	pCi/L	03/18/25 08:02	03/20/25 18:34	1
Gross Beta	**0.911**		0.587	0.594	4.00	0.868	pCi/L	03/18/25 08:02	03/20/25 18:34	1

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

Client Sample ID: CROSS PORTAL 02
Date Collected: 03/13/25 12:00
Date Received: 03/13/25 15:43

Lab Sample ID: 280-204345-5
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	1.17	U	0.975	0.984	3.00	1.47	pCi/L	03/18/25 08:02	03/20/25 18:34	1
Gross Beta	0.794	U	0.558	0.563	4.00	0.834	pCi/L	03/18/25 08:02	03/20/25 18:34	1

Client Sample ID: COMPLIANCE WELL
Date Collected: 03/13/25 12:30
Date Received: 03/13/25 15:43

Lab Sample ID: 280-204345-6
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	0.392	U	0.740	0.742	3.00	1.30	pCi/L	03/18/25 08:02	03/20/25 18:34	1
Gross Beta	**1.30**		0.631	0.644	4.00	0.916	pCi/L	03/18/25 08:02	03/20/25 18:34	1

Client Sample ID: COMPLIANCE 03
Date Collected: 03/13/25 12:30
Date Received: 03/13/25 15:43

Lab Sample ID: 280-204345-7
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	0.252	U	0.542	0.543	3.00	0.963	pCi/L	03/18/25 08:02	03/20/25 18:34	1
Gross Beta	0.0253	U	0.524	0.524	4.00	0.925	pCi/L	03/18/25 08:02	03/20/25 18:34	1

Client Sample ID: CROSS WELL
Date Collected: 03/13/25 13:00
Date Received: 03/13/25 15:43

Lab Sample ID: 280-204345-8
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	-0.251	U	0.584	0.585	3.00	1.26	pCi/L	03/18/25 08:02	03/20/25 18:27	1
Gross Beta	**1.49**		0.611	0.629	4.00	0.847	pCi/L	03/18/25 08:02	03/20/25 18:27	1

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

Client Sample ID: CARIBOU PORTAL
Date Collected: 03/13/25 10:30
Date Received: 03/13/25 15:43

Lab Sample ID: 280-204345-1
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Cesium-137	2.10	U	8.14	8.15	20.0	14.4	pCi/L	03/20/25 13:30	03/20/25 17:57	1

Other Detected Radionuclides	*Result*	*Qualifier*	*Count Uncert. (2σ+/-)*	*Total Uncert. (2σ+/-)*	*RL*	*MDC*	*Unit*	*Prepared*	*Analyzed*	*Dil Fac*
Bi-214	*66.3*		*25.5*	*26.3*		*28.9*	*pCi/L*	*03/20/25 13:30*	*03/20/25 17:57*	*1*

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

Client Sample ID: CARIBOU WELL
Date Collected: 03/13/25 11:00
Date Received: 03/13/25 15:43

Lab Sample ID: 280-204345-2
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Cesium-137	-0.775	U G	7.36	7.36	20.0	21.4	pCi/L	03/20/25 13:30	03/20/25 17:56	1

Other Detected Radionuclides	*Result*	*Qualifier*	*Count Uncert. (2σ+/-)*	*Total Uncert. (2σ+/-)*	*RL*	*MDC*	*Unit*	*Prepared*	*Analyzed*	*Dil Fac*
Bi-214	*80.6*		*24.5*	*25.7*		*25.8*	*pCi/L*	*03/20/25 13:30*	*03/20/25 17:56*	*1*
Pb-214	*101*		*19.3*	*21.7*		*20.2*	*pCi/L*	*03/20/25 13:30*	*03/20/25 17:56*	*1*

Client Sample ID: CARIBOU WELL 02
Date Collected: 03/13/25 11:00
Date Received: 03/13/25 15:43

Lab Sample ID: 280-204345-3
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Cesium-137	-4.21	U	11.2	11.2	20.0	19.2	pCi/L	03/20/25 13:30	03/20/25 17:57	1

Other Detected Radionuclides	*Result*	*Qualifier*	*Count Uncert. (2σ+/-)*	*Total Uncert. (2σ+/-)*	*RL*	*MDC*	*Unit*	*Prepared*	*Analyzed*	*Dil Fac*
Bi-214	*117*		*27.9*	*30.1*		*25.7*	*pCi/L*	*03/20/25 13:30*	*03/20/25 17:57*	*1*
Pb-214	*119*		*24.5*	*27.2*		*24.9*	*pCi/L*	*03/20/25 13:30*	*03/20/25 17:57*	*1*

Client Sample ID: CROSS PORTAL
Date Collected: 03/13/25 12:00
Date Received: 03/13/25 15:43

Lab Sample ID: 280-204345-4
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Cesium-137	-3.78	U G	15.7	15.7	20.0	27.1	pCi/L	03/20/25 13:30	03/20/25 17:58	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*	*03/20/25 13:30*	*03/20/25 17:58*	*1*

Client Sample ID: CROSS PORTAL 02
Date Collected: 03/13/25 12:00
Date Received: 03/13/25 15:43

Lab Sample ID: 280-204345-5
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Cesium-137	2.74	U	6.58	6.59	20.0	11.7	pCi/L	03/20/25 13:30	03/20/25 19:13	1

Other Detected Radionuclides	*Result*	*Qualifier*	*Count Uncert. (2σ+/-)*	*Total Uncert. (2σ+/-)*	*RL*	*MDC*	*Unit*	*Prepared*	*Analyzed*	*Dil Fac*
Bi-214	*45.7*		*21.1*	*21.6*		*22.0*	*pCi/L*	*03/20/25 13:30*	*03/20/25 19:13*	*1*

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

Client Sample ID: COMPLIANCE WELL
Date Collected: 03/13/25 12:30
Date Received: 03/13/25 15:43

Lab Sample ID: 280-204345-6
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Cesium-137	3.03	U	11.4	11.4	20.0	19.8	pCi/L	03/20/25 13:30	03/20/25 19:13	1

Other Detected Radionuclides	*Result*	*Qualifier*	*Count Uncert. (2σ+/-)*	*Total Uncert. (2σ+/-)*	*RL*	*MDC*	*Unit*	*Prepared*	*Analyzed*	*Dil Fac*
Bi-214	*275*		*41.8*	*49.9*		*31.8*	*pCi/L*	*03/20/25 13:30*	*03/20/25 19:13*	*1*
Pb-214	*299*		*35.0*	*45.7*		*29.7*	*pCi/L*	*03/20/25 13:30*	*03/20/25 19:13*	*1*

Client Sample ID: COMPLIANCE 03
Date Collected: 03/13/25 12:30
Date Received: 03/13/25 15:43

Lab Sample ID: 280-204345-7
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Cesium-137	-8.28	U G	7.10	7.15	20.0	22.3	pCi/L	03/20/25 13:30	03/20/25 19:12	1

Other Detected Radionuclides	*Result*	*Qualifier*	*Count Uncert. (2σ+/-)*	*Total Uncert. (2σ+/-)*	*RL*	*MDC*	*Unit*	*Prepared*	*Analyzed*	*Dil Fac*
Bi-214	*50.4*		*21.7*	*22.2*		*23.3*	*pCi/L*	*03/20/25 13:30*	*03/20/25 19:12*	*1*

Client Sample ID: CROSS WELL
Date Collected: 03/13/25 13:00
Date Received: 03/13/25 15:43

Lab Sample ID: 280-204345-8
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Cesium-137	-2.25	U G	12.5	12.5	20.0	21.8	pCi/L	03/20/25 13:30	03/20/25 19:12	1

Other Detected Radionuclides	*Result*	*Qualifier*	*Count Uncert. (2σ+/-)*	*Total Uncert. (2σ+/-)*	*RL*	*MDC*	*Unit*	*Prepared*	*Analyzed*	*Dil Fac*
Bi-214	*192*		*33.0*	*38.0*		*24.3*	*pCi/L*	*03/20/25 13:30*	*03/20/25 19:12*	*1*
Pb-214	*183*		*30.4*	*35.3*		*29.6*	*pCi/L*	*03/20/25 13:30*	*03/20/25 19:12*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 280-687687/1-A
Matrix: Water
Analysis Batch: 688118

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 687687

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.10	0.025	mg/L		03/14/25 15:13	03/18/25 05:48	1
Boron	ND		0.050	0.015	mg/L		03/14/25 15:13	03/18/25 05:48	1
Iron	ND		0.10	0.040	mg/L		03/14/25 15:13	03/18/25 05:48	1

Lab Sample ID: LCS 280-687687/2-A
Matrix: Water
Analysis Batch: 688118

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 687687

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	10.0	9.95		mg/L		99	85 - 115
Boron	2.00	1.96		mg/L		98	85 - 115
Iron	10.0	9.75		mg/L		97	85 - 115

Lab Sample ID: 280-204331-D-1-B MS
Matrix: Water
Analysis Batch: 688118

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 687687

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	ND		10.0	9.90		mg/L		99	75 - 125
Boron	ND		2.00	1.96		mg/L		98	75 - 125
Iron	0.13		10.0	9.72		mg/L		96	75 - 125

Lab Sample ID: 280-204331-D-1-C MSD
Matrix: Water
Analysis Batch: 688118

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 687687

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	ND		10.0	9.95		mg/L		100	75 - 125	1	20
Boron	ND		2.00	1.97		mg/L		99	75 - 125	1	20
Iron	0.13		10.0	9.79		mg/L		97	75 - 125	1	20

Method: 200.8 - ICPMS Total Metals

Lab Sample ID: MB 280-687687/1-A
Matrix: Water
Analysis Batch: 687958

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 687687

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00050	mg/L		03/14/25 15:13	03/17/25 10:13	1
Arsenic	ND		0.0020	0.00050	mg/L		03/14/25 15:13	03/17/25 10:13	1
Barium	ND		0.0020	0.00055	mg/L		03/14/25 15:13	03/17/25 10:13	1
Cadmium	ND		0.0010	0.00025	mg/L		03/14/25 15:13	03/17/25 10:13	1
Copper	ND		0.0020	0.0010	mg/L		03/14/25 15:13	03/17/25 10:13	1
Lead	ND		0.0010	0.00050	mg/L		03/14/25 15:13	03/17/25 10:13	1
Manganese	ND		0.0030	0.0015	mg/L		03/14/25 15:13	03/17/25 10:13	1
Molybdenum	ND		0.0020	0.00050	mg/L		03/14/25 15:13	03/17/25 10:13	1
Uranium	ND		0.0010	0.00025	mg/L		03/14/25 15:13	03/17/25 10:13	1
Zinc	ND		0.010	0.0050	mg/L		03/14/25 15:13	03/17/25 10:13	1

Method: 200.8 - ICPMS Total Metals (Continued)

Lab Sample ID: LCS 280-687687/24-A
Matrix: Water
Analysis Batch: 687958

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 687687

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.0400	0.0398		mg/L		100	85 - 115
Arsenic	0.0400	0.0376		mg/L		94	89 - 111
Barium	0.0400	0.0388		mg/L		97	89 - 115
Cadmium	0.0400	0.0403		mg/L		101	89 - 111
Copper	0.0400	0.0380		mg/L		95	90 - 115
Lead	0.0400	0.0402		mg/L		100	88 - 115
Manganese	0.0400	0.0386		mg/L		97	87 - 115
Molybdenum	0.0400	0.0393		mg/L		98	89 - 112
Uranium	0.0400	0.0403		mg/L		101	85 - 115
Zinc	0.0400	0.0375		mg/L		94	88 - 115

Lab Sample ID: 280-204331-D-1-E MS
Matrix: Water
Analysis Batch: 687958

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 687687

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.00061	J	0.0400	0.0411		mg/L		101	85 - 115
Arsenic	0.00088	J	0.0400	0.0386		mg/L		94	79 - 120
Barium	0.053	F1	0.0400	0.0878	F1	mg/L		87	89 - 115
Cadmium	ND		0.0400	0.0420		mg/L		105	89 - 111
Copper	ND		0.0400	0.0381		mg/L		95	90 - 115
Lead	ND		0.0400	0.0399		mg/L		100	88 - 115
Manganese	0.014	F1	0.0400	0.0531		mg/L		97	87 - 115
Molybdenum	0.0026		0.0400	0.0432		mg/L		101	89 - 112
Uranium	0.031		0.0400	0.0712		mg/L		101	85 - 115
Zinc	0.081	F1	0.0400	0.113	F1	mg/L		81	88 - 115

Lab Sample ID: 280-204331-D-1-F MSD
Matrix: Water
Analysis Batch: 687958

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 687687

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	0.00061	J	0.0400	0.0386		mg/L		95	85 - 115	6	20
Arsenic	0.00088	J	0.0400	0.0354		mg/L		86	79 - 120	9	20
Barium	0.053	F1	0.0400	0.0831	F1	mg/L		75	89 - 115	5	20
Cadmium	ND		0.0400	0.0385		mg/L		96	89 - 111	9	20
Copper	ND		0.0400	0.0361		mg/L		90	90 - 115	5	20
Lead	ND		0.0400	0.0380		mg/L		95	88 - 115	5	20
Manganese	0.014	F1	0.0400	0.0486	F1	mg/L		86	87 - 115	9	20
Molybdenum	0.0026		0.0400	0.0402		mg/L		94	89 - 112	7	20
Uranium	0.031		0.0400	0.0672		mg/L		91	85 - 115	6	20
Zinc	0.081	F1	0.0400	0.106	F1	mg/L		61	88 - 115	7	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 280-687602/75
Matrix: Water
Analysis Batch: 687602

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	0.10	mg/L			03/14/25 02:24	1

Lab Sample ID: LCS 280-687602/73
Matrix: Water
Analysis Batch: 687602

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	4.64		mg/L		93	90 - 110		

Lab Sample ID: LCSD 280-687602/74
Matrix: Water
Analysis Batch: 687602

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	4.65		mg/L		93	90 - 110	0	10

Lab Sample ID: MRL 280-687602/3
Matrix: Water
Analysis Batch: 687602

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	0.491	J	mg/L		98	50 - 150		

Lab Sample ID: 280-204345-8 MS
Matrix: Water
Analysis Batch: 687602

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate as N	0.33	J	5.00	4.80		mg/L		90	80 - 120		

Lab Sample ID: 280-204345-8 MSD
Matrix: Water
Analysis Batch: 687602

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	0.33	J	5.00	4.81		mg/L		90	80 - 120	0	20

Lab Sample ID: 280-204345-8 DU
Matrix: Water
Analysis Batch: 687602

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

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate as N	0.33	J	0.322	J	mg/L		2	15

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 280-687775/20
Matrix: Water
Analysis Batch: 687775

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		0.20	0.060	mg/L			03/14/25 10:53	1

Lab Sample ID: LCS 280-687775/18
Matrix: Water
Analysis Batch: 687775

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			1.00	1.01		mg/L		101	90 - 110		

Lab Sample ID: LCSD 280-687775/19
Matrix: Water
Analysis Batch: 687775

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 Nitrite as N			1.00	0.996		mg/L		100	90 - 110	1	10

Lab Sample ID: 280-204345-1 MS
Matrix: Water
Analysis Batch: 687775

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		
Nitrate Nitrite as N	0.11	J	2.00	2.26		mg/L		108	90 - 110		

Lab Sample ID: 280-204345-1 MSD
Matrix: Water
Analysis Batch: 687775

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
Nitrate Nitrite as N	0.11	J	2.00	2.27		mg/L		108	90 - 110	0	10

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

Lab Sample ID: MB 280-688073/1
Matrix: Water
Analysis Batch: 688073

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	6.0	mg/L			03/18/25 09:05	1

Lab Sample ID: LCS 280-688073/2
Matrix: Water
Analysis Batch: 688073

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	496		mg/L		99	88 - 114		

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

Lab Sample ID: 280-204227-G-7 DU
Matrix: Water
Analysis Batch: 688073

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)	11000		10100		mg/L		9	10

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 280-687836/15
Matrix: Water
Analysis Batch: 687836

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	0.50	mg/L			03/14/25 15:03	1

Lab Sample ID: LCS 280-687836/13
Matrix: Water
Analysis Batch: 687836

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	19.7		mg/L		98	90 - 110

Lab Sample ID: LCSD 280-687836/14
Matrix: Water
Analysis Batch: 687836

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	20.0	19.6		mg/L		98	90 - 110	0	10

Lab Sample ID: 280-204345-7 MS
Matrix: Water
Analysis Batch: 687836

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
Chloride	ND		20.0	20.0		mg/L		100	90 - 110

Lab Sample ID: 280-204345-7 MSD
Matrix: Water
Analysis Batch: 687836

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
Chloride	ND		20.0	19.8		mg/L		99	90 - 110	1	10

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 280-688318/14
Matrix: Water
Analysis Batch: 688318

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		3.0	1.0	mg/L			03/19/25 11:35	1

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

Lab Sample ID: LCS 280-688318/12
Matrix: Water
Analysis Batch: 688318

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	25.0	26.7		mg/L		107	90 - 110

Lab Sample ID: LCSD 280-688318/13
Matrix: Water
Analysis Batch: 688318

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	26.8		mg/L		107	90 - 110	0	10

Lab Sample ID: 280-204345-1 MS
Matrix: Water
Analysis Batch: 688318

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
Sulfate	9.5		25.0	35.4		mg/L		104	90 - 110

Lab Sample ID: 280-204345-1 MSD
Matrix: Water
Analysis Batch: 688318

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
Sulfate	9.5		25.0	34.6		mg/L		101	90 - 110	2	10

Lab Sample ID: 280-204345-2 MS
Matrix: Water
Analysis Batch: 688318

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	1.8	J F1	25.0	29.5	F1	mg/L		111	90 - 110

Lab Sample ID: 280-204345-2 MSD
Matrix: Water
Analysis Batch: 688318

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	1.8	J F1	25.0	29.3		mg/L		110	90 - 110	1	10

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Lab Sample ID: MB 160-708337/1-A
Matrix: Water
Analysis Batch: 708497

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 708337

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	0.2742	U	0.568	0.568	3.00	0.997	pCi/L	03/18/25 08:02	03/19/25 18:14	1
Gross Beta	-0.1187	U	0.509	0.509	4.00	0.921	pCi/L	03/18/25 08:02	03/19/25 18:14	1

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

Lab Sample ID: LCS 160-708337/2-A
Matrix: Water
Analysis Batch: 708497

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 708337

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Gross Alpha			49.5	52.25		7.50	3.00	1.87	pCi/L	106	75 - 125		

Lab Sample ID: LCSB 160-708337/3-A
Matrix: Water
Analysis Batch: 708497

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 708337

Analyte			Spike Added	LCSB Result	LCSB Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Gross Beta			70.1	67.70		7.30	4.00	0.976	pCi/L	97	75 - 125		

Lab Sample ID: 240-220200-C-29-B MS
Matrix: Water
Analysis Batch: 708497

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 708337

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Gross Alpha	4.09	U G	103	97.20		15.3	3.00	5.40	pCi/L	90	60 - 140		

Lab Sample ID: 240-220200-C-29-C MSBT
Matrix: Water
Analysis Batch: 708685

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 708337

Analyte	Sample Result	Sample Qual	Spike Added	MSBT Result	MSBT Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Gross Beta	6.68		146	145.9		15.7	4.00	2.02	pCi/L	95	60 - 140		

Lab Sample ID: 240-220200-C-29-D DU
Matrix: Water
Analysis Batch: 708685

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 708337

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Gross Alpha	4.09	U G		1.275	U G	3.50	3.00	6.25	pCi/L			0.36	1
Gross Beta	6.68			6.198		1.73	4.00	1.95	pCi/L			0.13	1

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

Lab Sample ID: MB 160-708699/1-A
Matrix: Water
Analysis Batch: 708639

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 708699

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Cesium-137	-3.285	U	11.1	11.1	20.0	19.8	pCi/L	03/20/25 13:30	03/20/25 17:58	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*	*03/20/25 13:30*	*03/20/25 17:58*	*1*

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

Lab Sample ID: LCS 160-708699/2-A
Matrix: Water
Analysis Batch: 708644

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 708699

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Americium-241			135000	145900		15900		1060	pCi/L	108	75 - 125		
Cesium-137			39000	44780		4450	20.0	112	pCi/L	115	75 - 125		
Cobalt-60			13700	15010		1470		55.4	pCi/L	109	75 - 125		

Lab Sample ID: 280-204345-1 DU
Matrix: Water
Analysis Batch: 708639

Client Sample ID: CARIBOU PORTAL
Prep Type: Dissolved
Prep Batch: 708699

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Cesium-137	2.10	U		-4.229	U	9.96	20.0	18.2	pCi/L			0.35	1
Other Detected Radionuclides	***Sample Result***	***Sample Qual***		***DU Result***	***DU Qual***	***Total Uncert. (2σ+/-)***	***RL***	***MDC***	***Unit***			***RER***	***RER Limit***
Other Detected Radionuclide	*None*			*None*					*pCi/L*				

Metals

Prep Batch: 687687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-204345-1	CARIBOU PORTAL	Dissolved	Water	200.8	
280-204345-2	CARIBOU WELL	Dissolved	Water	200.8	
280-204345-3	CARIBOU WELL 02	Dissolved	Water	200.8	
280-204345-4	CROSS PORTAL	Dissolved	Water	200.8	
280-204345-5	CROSS PORTAL 02	Dissolved	Water	200.8	
280-204345-6	COMPLIANCE WELL	Dissolved	Water	200.8	
280-204345-7	COMPLIANCE 03	Dissolved	Water	200.8	
280-204345-8	CROSS WELL	Dissolved	Water	200.8	
MB 280-687687/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-687687/24-A	Lab Control Sample	Total Recoverable	Water	200.8	
LCS 280-687687/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
280-204331-D-1-B MS	Matrix Spike	Total Recoverable	Water	200.8	
280-204331-D-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	200.8	
280-204331-D-1-E MS	Matrix Spike	Total Recoverable	Water	200.8	
280-204331-D-1-F MSD	Matrix Spike Duplicate	Total Recoverable	Water	200.8	

Analysis Batch: 687958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-204345-1	CARIBOU PORTAL	Dissolved	Water	200.8	687687
280-204345-2	CARIBOU WELL	Dissolved	Water	200.8	687687
280-204345-3	CARIBOU WELL 02	Dissolved	Water	200.8	687687
280-204345-4	CROSS PORTAL	Dissolved	Water	200.8	687687
280-204345-5	CROSS PORTAL 02	Dissolved	Water	200.8	687687
280-204345-6	COMPLIANCE WELL	Dissolved	Water	200.8	687687
280-204345-7	COMPLIANCE 03	Dissolved	Water	200.8	687687
280-204345-8	CROSS WELL	Dissolved	Water	200.8	687687
MB 280-687687/1-A	Method Blank	Total Recoverable	Water	200.8	687687
LCS 280-687687/24-A	Lab Control Sample	Total Recoverable	Water	200.8	687687
280-204331-D-1-E MS	Matrix Spike	Total Recoverable	Water	200.8	687687
280-204331-D-1-F MSD	Matrix Spike Duplicate	Total Recoverable	Water	200.8	687687

Analysis Batch: 687995

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-204345-1	CARIBOU PORTAL	Dissolved	Water	200.8	687687
280-204345-2	CARIBOU WELL	Dissolved	Water	200.8	687687
280-204345-3	CARIBOU WELL 02	Dissolved	Water	200.8	687687
280-204345-4	CROSS PORTAL	Dissolved	Water	200.8	687687
280-204345-5	CROSS PORTAL 02	Dissolved	Water	200.8	687687
280-204345-6	COMPLIANCE WELL	Dissolved	Water	200.8	687687
280-204345-7	COMPLIANCE 03	Dissolved	Water	200.8	687687
280-204345-8	CROSS WELL	Dissolved	Water	200.8	687687

Analysis Batch: 688118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-204345-1	CARIBOU PORTAL	Dissolved	Water	200.7 Rev 4.4	687687
280-204345-2	CARIBOU WELL	Dissolved	Water	200.7 Rev 4.4	687687
280-204345-3	CARIBOU WELL 02	Dissolved	Water	200.7 Rev 4.4	687687
280-204345-4	CROSS PORTAL	Dissolved	Water	200.7 Rev 4.4	687687
280-204345-5	CROSS PORTAL 02	Dissolved	Water	200.7 Rev 4.4	687687
280-204345-6	COMPLIANCE WELL	Dissolved	Water	200.7 Rev 4.4	687687
280-204345-7	COMPLIANCE 03	Dissolved	Water	200.7 Rev 4.4	687687

Metals (Continued)

Analysis Batch: 688118 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-204345-8	CROSS WELL	Dissolved	Water	200.7 Rev 4.4	687687
MB 280-687687/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	687687
LCS 280-687687/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	687687
280-204331-D-1-B MS	Matrix Spike	Total Recoverable	Water	200.7 Rev 4.4	687687
280-204331-D-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	200.7 Rev 4.4	687687

General Chemistry

Analysis Batch: 687602

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-204345-1	CARIBOU PORTAL	Total/NA	Water	300.0	
280-204345-2	CARIBOU WELL	Total/NA	Water	300.0	
280-204345-3	CARIBOU WELL 02	Total/NA	Water	300.0	
280-204345-4	CROSS PORTAL	Total/NA	Water	300.0	
280-204345-5	CROSS PORTAL 02	Total/NA	Water	300.0	
280-204345-6	COMPLIANCE WELL	Total/NA	Water	300.0	
280-204345-7	COMPLIANCE 03	Total/NA	Water	300.0	
280-204345-8	CROSS WELL	Total/NA	Water	300.0	
MB 280-687602/75	Method Blank	Total/NA	Water	300.0	
LCS 280-687602/73	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-687602/74	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-687602/3	Lab Control Sample	Total/NA	Water	300.0	
280-204345-8 MS	CROSS WELL	Total/NA	Water	300.0	
280-204345-8 MSD	CROSS WELL	Total/NA	Water	300.0	
280-204345-8 DU	CROSS WELL	Total/NA	Water	300.0	

Analysis Batch: 687775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-204345-1	CARIBOU PORTAL	Total/NA	Water	353.2	
280-204345-2	CARIBOU WELL	Total/NA	Water	353.2	
280-204345-3	CARIBOU WELL 02	Total/NA	Water	353.2	
280-204345-4	CROSS PORTAL	Total/NA	Water	353.2	
280-204345-5	CROSS PORTAL 02	Total/NA	Water	353.2	
280-204345-6	COMPLIANCE WELL	Total/NA	Water	353.2	
280-204345-7	COMPLIANCE 03	Total/NA	Water	353.2	
280-204345-8	CROSS WELL	Total/NA	Water	353.2	
MB 280-687775/20	Method Blank	Total/NA	Water	353.2	
LCS 280-687775/18	Lab Control Sample	Total/NA	Water	353.2	
LCSD 280-687775/19	Lab Control Sample Dup	Total/NA	Water	353.2	
280-204345-1 MS	CARIBOU PORTAL	Total/NA	Water	353.2	
280-204345-1 MSD	CARIBOU PORTAL	Total/NA	Water	353.2	

Analysis Batch: 687836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-204345-1	CARIBOU PORTAL	Total/NA	Water	SM 4500 Cl- E	
280-204345-2	CARIBOU WELL	Total/NA	Water	SM 4500 Cl- E	
280-204345-3	CARIBOU WELL 02	Total/NA	Water	SM 4500 Cl- E	
280-204345-4	CROSS PORTAL	Total/NA	Water	SM 4500 Cl- E	
280-204345-5	CROSS PORTAL 02	Total/NA	Water	SM 4500 Cl- E	
280-204345-6	COMPLIANCE WELL	Total/NA	Water	SM 4500 Cl- E	
280-204345-7	COMPLIANCE 03	Total/NA	Water	SM 4500 Cl- E	

General Chemistry (Continued)

Analysis Batch: 687836 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-204345-8	CROSS WELL	Total/NA	Water	SM 4500 Cl- E	
MB 280-687836/15	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 280-687836/13	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
LCSD 280-687836/14	Lab Control Sample Dup	Total/NA	Water	SM 4500 Cl- E	
280-204345-7 MS	COMPLIANCE 03	Total/NA	Water	SM 4500 Cl- E	
280-204345-7 MSD	COMPLIANCE 03	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 688073

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-204345-1	CARIBOU PORTAL	Total/NA	Water	SM 2540C	
280-204345-2	CARIBOU WELL	Total/NA	Water	SM 2540C	
280-204345-3	CARIBOU WELL 02	Total/NA	Water	SM 2540C	
280-204345-4	CROSS PORTAL	Total/NA	Water	SM 2540C	
280-204345-5	CROSS PORTAL 02	Total/NA	Water	SM 2540C	
280-204345-6	COMPLIANCE WELL	Total/NA	Water	SM 2540C	
280-204345-7	COMPLIANCE 03	Total/NA	Water	SM 2540C	
280-204345-8	CROSS WELL	Total/NA	Water	SM 2540C	
MB 280-688073/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-688073/2	Lab Control Sample	Total/NA	Water	SM 2540C	
280-204227-G-7 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 688318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-204345-1	CARIBOU PORTAL	Total/NA	Water	SM 4500 SO4 E	
280-204345-2	CARIBOU WELL	Total/NA	Water	SM 4500 SO4 E	
280-204345-3	CARIBOU WELL 02	Total/NA	Water	SM 4500 SO4 E	
280-204345-4	CROSS PORTAL	Total/NA	Water	SM 4500 SO4 E	
280-204345-5	CROSS PORTAL 02	Total/NA	Water	SM 4500 SO4 E	
280-204345-6	COMPLIANCE WELL	Total/NA	Water	SM 4500 SO4 E	
280-204345-7	COMPLIANCE 03	Total/NA	Water	SM 4500 SO4 E	
280-204345-8	CROSS WELL	Total/NA	Water	SM 4500 SO4 E	
MB 280-688318/14	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 280-688318/12	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
LCSD 280-688318/13	Lab Control Sample Dup	Total/NA	Water	SM 4500 SO4 E	
280-204345-1 MS	CARIBOU PORTAL	Total/NA	Water	SM 4500 SO4 E	
280-204345-1 MSD	CARIBOU PORTAL	Total/NA	Water	SM 4500 SO4 E	
280-204345-2 MS	CARIBOU WELL	Total/NA	Water	SM 4500 SO4 E	
280-204345-2 MSD	CARIBOU WELL	Total/NA	Water	SM 4500 SO4 E	

Rad

Prep Batch: 708337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-204345-1	CARIBOU PORTAL	Dissolved	Water	Evaporation	
280-204345-2	CARIBOU WELL	Dissolved	Water	Evaporation	
280-204345-3	CARIBOU WELL 02	Dissolved	Water	Evaporation	
280-204345-4	CROSS PORTAL	Dissolved	Water	Evaporation	
280-204345-5	CROSS PORTAL 02	Dissolved	Water	Evaporation	
280-204345-6	COMPLIANCE WELL	Dissolved	Water	Evaporation	
280-204345-7	COMPLIANCE 03	Dissolved	Water	Evaporation	
280-204345-8	CROSS WELL	Dissolved	Water	Evaporation	

Rad (Continued)

Prep Batch: 708337 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 160-708337/1-A	Method Blank	Total/NA	Water	Evaporation	
LCS 160-708337/2-A	Lab Control Sample	Total/NA	Water	Evaporation	
LCSB 160-708337/3-A	Lab Control Sample	Total/NA	Water	Evaporation	
240-220200-C-29-B MS	Matrix Spike	Total/NA	Water	Evaporation	
240-220200-C-29-C MSBT	Matrix Spike	Total/NA	Water	Evaporation	
240-220200-C-29-D DU	Duplicate	Total/NA	Water	Evaporation	

Prep Batch: 708699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-204345-1	CARIBOU PORTAL	Dissolved	Water	Fill_Geo-0	
280-204345-2	CARIBOU WELL	Dissolved	Water	Fill_Geo-0	
280-204345-3	CARIBOU WELL 02	Dissolved	Water	Fill_Geo-0	
280-204345-4	CROSS PORTAL	Dissolved	Water	Fill_Geo-0	
280-204345-5	CROSS PORTAL 02	Dissolved	Water	Fill_Geo-0	
280-204345-6	COMPLIANCE WELL	Dissolved	Water	Fill_Geo-0	
280-204345-7	COMPLIANCE 03	Dissolved	Water	Fill_Geo-0	
280-204345-8	CROSS WELL	Dissolved	Water	Fill_Geo-0	
MB 160-708699/1-A	Method Blank	Total/NA	Water	Fill_Geo-0	
LCS 160-708699/2-A	Lab Control Sample	Total/NA	Water	Fill_Geo-0	
280-204345-1 DU	CARIBOU PORTAL	Dissolved	Water	Fill_Geo-0	

Lab Chronicle

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

Job ID: 280-204345-1

Client Sample ID: CARIBOU PORTAL

Lab Sample ID: 280-204345-1
Matrix: Water
Date Collected: 03/13/25 10:30
Date Received: 03/13/25 15:43

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	687687	03/14/25 15:13	AMH	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			688118	03/18/25 07:07	ADL	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	687687	03/14/25 15:13	AMH	EET DEN
Dissolved	Analysis	200.8		1			687958	03/17/25 11:05	LMT	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	687687	03/14/25 15:13	AMH	EET DEN
Dissolved	Analysis	200.8		1			687995	03/17/25 12:32	LMT	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	687602	03/14/25 05:13	IRC	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	687775	03/14/25 10:54	BCR	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	688073	03/18/25 09:05	BRD	EET DEN
Total/NA	Analysis	SM 4500 Cl- E		1	2 mL	2 mL	687836	03/14/25 15:39	AKF	EET DEN
Total/NA	Analysis	SM 4500 SO4 E		1	2 mL	2 mL	688318	03/19/25 11:35	AKF	EET DEN
Dissolved	Prep	Evaporation			200.02 mL	1.0 g	708337	03/18/25 08:02	MEH	EET SL
Dissolved	Analysis	900.0		1			708515	03/19/25 20:14	FLC	EET SL
Dissolved	Prep	Fill_Geo-0			1000 mL	1.0 g	708699	03/20/25 13:30	SAC	EET SL
Dissolved	Analysis	901.1		1			708645	03/20/25 17:57	MLS	EET SL

Client Sample ID: CARIBOU WELL

Lab Sample ID: 280-204345-2
Matrix: Water
Date Collected: 03/13/25 11:00
Date Received: 03/13/25 15:43

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	687687	03/14/25 15:13	AMH	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			688118	03/18/25 07:11	ADL	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	687687	03/14/25 15:13	AMH	EET DEN
Dissolved	Analysis	200.8		1			687958	03/17/25 11:07	LMT	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	687687	03/14/25 15:13	AMH	EET DEN
Dissolved	Analysis	200.8		1			687995	03/17/25 12:34	LMT	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	687602	03/14/25 05:24	IRC	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	687775	03/14/25 10:58	BCR	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	688073	03/18/25 09:05	BRD	EET DEN
Total/NA	Analysis	SM 4500 Cl- E		1	2 mL	2 mL	687836	03/14/25 15:40	AKF	EET DEN
Total/NA	Analysis	SM 4500 SO4 E		1	2 mL	2 mL	688318	03/19/25 11:55	AKF	EET DEN
Dissolved	Prep	Evaporation			200.03 mL	1.0 g	708337	03/18/25 08:02	MEH	EET SL
Dissolved	Analysis	900.0		1			708515	03/19/25 20:14	FLC	EET SL
Dissolved	Prep	Fill_Geo-0			1000 mL	1.0 g	708699	03/20/25 13:30	SAC	EET SL
Dissolved	Analysis	901.1		1			708642	03/20/25 17:56	MLS	EET SL

Client Sample ID: CARIBOU WELL 02

Lab Sample ID: 280-204345-3
Matrix: Water
Date Collected: 03/13/25 11:00
Date Received: 03/13/25 15:43

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	687687	03/14/25 15:13	AMH	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			688118	03/18/25 07:15	ADL	EET DEN

Lab Chronicle

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

Job ID: 280-204345-1

Client Sample ID: CARIBOU WELL 02

Lab Sample ID: 280-204345-3
Matrix: Water
Date Collected: 03/13/25 11:00
Date Received: 03/13/25 15:43

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	687687	03/14/25 15:13	AMH	EET DEN
Dissolved	Analysis	200.8		1			687958	03/17/25 11:09	LMT	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	687687	03/14/25 15:13	AMH	EET DEN
Dissolved	Analysis	200.8		1			687995	03/17/25 12:36	LMT	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	687602	03/14/25 05:35	IRC	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	687775	03/14/25 10:59	BCR	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	688073	03/18/25 09:05	BRD	EET DEN
Total/NA	Analysis	SM 4500 Cl- E		1	2 mL	2 mL	687836	03/14/25 15:40	AKF	EET DEN
Total/NA	Analysis	SM 4500 SO4 E		1	2 mL	2 mL	688318	03/19/25 11:56	AKF	EET DEN
Dissolved	Prep	Evaporation			200.03 mL	1.0 g	708337	03/18/25 08:02	MEH	EET SL
Dissolved	Analysis	900.0		1	1.0 mL	1.0 mL	708515	03/19/25 20:15	FLC	EET SL
Dissolved	Prep	Fill_Geo-0			1000 mL	1.0 g	708699	03/20/25 13:30	SAC	EET SL
Dissolved	Analysis	901.1		1			708640	03/20/25 17:57	MLS	EET SL

Client Sample ID: CROSS PORTAL

Lab Sample ID: 280-204345-4
Matrix: Water
Date Collected: 03/13/25 12:00
Date Received: 03/13/25 15:43

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	687687	03/14/25 15:13	AMH	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			688118	03/18/25 07:31	ADL	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	687687	03/14/25 15:13	AMH	EET DEN
Dissolved	Analysis	200.8		1			687958	03/17/25 11:12	LMT	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	687687	03/14/25 15:13	AMH	EET DEN
Dissolved	Analysis	200.8		1			687995	03/17/25 12:39	LMT	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	687602	03/14/25 05:47	IRC	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	687775	03/14/25 11:01	BCR	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	688073	03/18/25 09:05	BRD	EET DEN
Total/NA	Analysis	SM 4500 Cl- E		1	2 mL	2 mL	687836	03/14/25 15:40	AKF	EET DEN
Total/NA	Analysis	SM 4500 SO4 E		1	2 mL	2 mL	688318	03/19/25 11:56	AKF	EET DEN
Dissolved	Prep	Evaporation			200.03 mL	1.0 g	708337	03/18/25 08:02	MEH	EET SL
Dissolved	Analysis	900.0		1	1.0 mL	1.0 mL	708685	03/20/25 18:34	FLC	EET SL
Dissolved	Prep	Fill_Geo-0			1000 mL	1.0 g	708699	03/20/25 13:30	SAC	EET SL
Dissolved	Analysis	901.1		1			708643	03/20/25 17:58	MLS	EET SL

Client Sample ID: CROSS PORTAL 02

Lab Sample ID: 280-204345-5
Matrix: Water
Date Collected: 03/13/25 12:00
Date Received: 03/13/25 15:43

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	687687	03/14/25 15:13	AMH	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			688118	03/18/25 07:34	ADL	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	687687	03/14/25 15:13	AMH	EET DEN
Dissolved	Analysis	200.8		1			687958	03/17/25 11:14	LMT	EET DEN

Lab Chronicle

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

Job ID: 280-204345-1

Client Sample ID: CROSS PORTAL 02

Lab Sample ID: 280-204345-5

Date Collected: 03/13/25 12:00
Matrix: Water
Date Received: 03/13/25 15:43

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	687687	03/14/25 15:13	AMH	EET DEN
Dissolved	Analysis	200.8		1			687995	03/17/25 12:41	LMT	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	687602	03/14/25 05:58	IRC	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	687775	03/14/25 11:02	BCR	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	688073	03/18/25 09:05	BRD	EET DEN
Total/NA	Analysis	SM 4500 Cl- E		1	2 mL	2 mL	687836	03/14/25 15:40	AKF	EET DEN
Total/NA	Analysis	SM 4500 SO4 E		1	2 mL	2 mL	688318	03/19/25 11:56	AKF	EET DEN
Dissolved	Prep	Evaporation			200.03 mL	1.0 g	708337	03/18/25 08:02	MEH	EET SL
Dissolved	Analysis	900.0		1	1.0 mL	1.0 mL	708685	03/20/25 18:34	FLC	EET SL
Dissolved	Prep	Fill_Geo-0			1000 mL	1.0 g	708699	03/20/25 13:30	SAC	EET SL
Dissolved	Analysis	901.1		1			708644	03/20/25 19:13	MLS	EET SL

Client Sample ID: COMPLIANCE WELL

Lab Sample ID: 280-204345-6

Date Collected: 03/13/25 12:30
Matrix: Water
Date Received: 03/13/25 15:43

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	687687	03/14/25 15:13	AMH	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			688118	03/18/25 07:38	ADL	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	687687	03/14/25 15:13	AMH	EET DEN
Dissolved	Analysis	200.8		1			687958	03/17/25 11:17	LMT	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	687687	03/14/25 15:13	AMH	EET DEN
Dissolved	Analysis	200.8		1			687995	03/17/25 12:43	LMT	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	687602	03/14/25 06:09	IRC	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	687775	03/14/25 11:03	BCR	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	688073	03/18/25 09:05	BRD	EET DEN
Total/NA	Analysis	SM 4500 Cl- E		1	2 mL	2 mL	687836	03/14/25 15:41	AKF	EET DEN
Total/NA	Analysis	SM 4500 SO4 E		1	2 mL	2 mL	688318	03/19/25 11:57	AKF	EET DEN
Dissolved	Prep	Evaporation			200.02 mL	1.0 g	708337	03/18/25 08:02	MEH	EET SL
Dissolved	Analysis	900.0		1	1.0 mL	1.0 mL	708685	03/20/25 18:34	FLC	EET SL
Dissolved	Prep	Fill_Geo-0			1000 mL	1.0 g	708699	03/20/25 13:30	SAC	EET SL
Dissolved	Analysis	901.1		1			708645	03/20/25 19:13	MLS	EET SL

Client Sample ID: COMPLIANCE 03

Lab Sample ID: 280-204345-7

Date Collected: 03/13/25 12:30
Matrix: Water
Date Received: 03/13/25 15:43

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	687687	03/14/25 15:13	AMH	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			688118	03/18/25 07:42	ADL	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	687687	03/14/25 15:13	AMH	EET DEN
Dissolved	Analysis	200.8		1			687958	03/17/25 11:19	LMT	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	687687	03/14/25 15:13	AMH	EET DEN
Dissolved	Analysis	200.8		1			687995	03/17/25 12:46	LMT	EET DEN

Lab Chronicle

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

Job ID: 280-204345-1

Client Sample ID: COMPLIANCE 03

Lab Sample ID: 280-204345-7

Date Collected: 03/13/25 12:30
Matrix: Water
Date Received: 03/13/25 15:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	10 mL	10 mL	687602	03/14/25 06:20	IRC	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	687775	03/14/25 11:04	BCR	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	688073	03/18/25 09:05	BRD	EET DEN
Total/NA	Analysis	SM 4500 Cl- E		1	2 mL	2 mL	687836	03/14/25 15:39	AKF	EET DEN
Total/NA	Analysis	SM 4500 SO4 E		1	2 mL	2 mL	688318	03/19/25 11:57	AKF	EET DEN
Dissolved	Prep	Evaporation			200.02 mL	1.0 g	708337	03/18/25 08:02	MEH	EET SL
Dissolved	Analysis	900.0		1	1.0 mL	1.0 mL	708685	03/20/25 18:34	FLC	EET SL
Dissolved	Prep	Fill_Geo-0			1000 mL	1.0 g	708699	03/20/25 13:30	SAC	EET SL
Dissolved	Analysis	901.1		1			708642	03/20/25 19:12	MLS	EET SL

Client Sample ID: CROSS WELL

Lab Sample ID: 280-204345-8

Date Collected: 03/13/25 13:00
Matrix: Water
Date Received: 03/13/25 15:43

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	687687	03/14/25 15:13	AMH	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			688118	03/18/25 07:46	ADL	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	687687	03/14/25 15:13	AMH	EET DEN
Dissolved	Analysis	200.8		1			687958	03/17/25 11:21	LMT	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	687687	03/14/25 15:13	AMH	EET DEN
Dissolved	Analysis	200.8		1			687995	03/17/25 12:48	LMT	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	687602	03/14/25 06:32	IRC	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	687775	03/14/25 11:06	BCR	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	688073	03/18/25 09:05	BRD	EET DEN
Total/NA	Analysis	SM 4500 Cl- E		1	2 mL	2 mL	687836	03/14/25 15:41	AKF	EET DEN
Total/NA	Analysis	SM 4500 SO4 E		1	2 mL	2 mL	688318	03/19/25 11:57	AKF	EET DEN
Dissolved	Prep	Evaporation			200.02 mL	1.0 g	708337	03/18/25 08:02	MEH	EET SL
Dissolved	Analysis	900.0		1	1.0 mL	1.0 mL	708582	03/20/25 18:27	FLC	EET SL
Dissolved	Prep	Fill_Geo-0			1000 mL	1.0 g	708699	03/20/25 13:30	SAC	EET SL
Dissolved	Analysis	901.1		1			708640	03/20/25 19:12	MLS	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: 280-204345-1
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	10-31-26
A2LA	ISO/IEC 17025	2907.01	10-31-26
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	11-30-25
Arizona	State	AZ0713	12-20-25
Arkansas DEQ	State	19-047-0	04-21-25
California	State	2513	01-08-26
Colorado	Petroleum Storage Tank Program	2907.01 (A2LA)	10-31-26
Colorado	State	CO00026	06-30-25
Connecticut	State	PH-0686	09-30-26
Florida	NELAP	E87667	06-30-25
Georgia	State	4025	01-08-26
Illinois	NELAP	200017	05-31-25
Iowa	State	370	12-01-26
Kansas	NELAP	E-10166	04-30-25
Kentucky (WW)	State	KY98047	12-31-25
Louisiana	NELAP	30785	06-30-14 *
Louisiana (All)	NELAP	30785	06-30-25
Minnesota	NELAP	1788752	12-31-25
Nevada	State	CO00026	07-31-25
New Hampshire	NELAP	2053	04-28-25
New Jersey	NELAP	230001	06-30-25
New York	NELAP	59923	04-01-25
North Dakota	State	R-034	01-08-25 *
Oklahoma	NELAP	8614	08-31-25
Oregon	NELAP	4025	01-08-26
Pennsylvania	NELAP	013	07-31-25
South Carolina	State	72002001	01-18-25 *
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183	09-30-25
US Fish & Wildlife	US Federal Programs	058448	07-31-25
USDA	US Federal Programs	P330-20-00065	12-19-25
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO00026	07-31-25
Virginia	NELAP	460232	06-14-25
Washington	State	C583	08-03-25
West Virginia DEP	State	354	11-30-25
Wisconsin	State	999615430	08-31-25
Wyoming (UST)	A2LA	2907.01	10-31-26

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	04-08-25
Arizona	State	AZ0813	12-08-25
California	Los Angeles County Sanitation Districts	10259	06-30-22 *

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

Accreditation/Certification Summary

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

Job ID: 280-204345-1

Laboratory: Eurofins St. Louis (Continued)

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

Authority	Program	Identification Number	Expiration Date
California	State	2886	06-30-25
Connecticut	State	PH-0241	03-31-25
Florida	NELAP	E87689	06-30-25
HI - RadChem Recognition	State	n/a	06-30-25
Illinois	NELAP	200023	11-30-25
Iowa	State	373	12-01-26
Kansas	NELAP	E-10236	10-31-25
Kentucky (DW)	State	KY90125	12-31-25
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-25
Louisiana (All)	NELAP	106151	06-30-25
Louisiana (DW)	State	LA011	12-31-25
Maryland	State	310	09-30-25
Massachusetts	State	M-MO054	06-30-25
MI - RadChem Recognition	State	9005	06-30-25
Missouri	State	780	06-30-25
Nevada	State	MO00054	07-31-25
New Jersey	NELAP	MO002	06-30-25
New Mexico	State	MO00054	06-30-25
New York	NELAP	11616	03-31-25
North Carolina (DW)	State	29700	07-31-25
North Dakota	State	R-207	06-30-25
Oklahoma	NELAP	9997	08-31-25
Oregon	NELAP	4157	09-01-25
Pennsylvania	NELAP	68-00540	02-28-26
South Carolina	State	85002	06-30-25
Texas	NELAP	T104704193	07-31-25
US Fish & Wildlife	US Federal Programs	058448	07-31-25
USDA	US Federal Programs	525-23-138-94730	05-18-26
Utah	NELAP	MO00054	07-31-25
Virginia	NELAP	460230	06-14-25
Washington	State	C592	08-30-25
West Virginia DEP	State	381	10-31-25

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:			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#:			

Analysis Requested

280-204345 Chain of Custody

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 - Dissolved Metals (Grounwater Permit List) (Field Filtered)	SM4500_SO4_E - Sulfate, SM4500_Cl_E - Chloride, and 300.0 Nitrate	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:		X	X	D	N	S	N	D	D	X	
CARIBOU PORTAL	3/13/25	10:30	G	W			X	X	X	X	X	X		300.0 Nitrate = 48 hour hold time
CARIBOU WELL	"	11:00	G	W			X	X	X	X	X	X		* Groundwater Dissolved Metals Permit List = 200.7 (Al, B, Fe) and 200.8 (Sb, As, Ba, Cd, Cu, Pb, Mn, Mo, U, Zn)
CARIBOU WELL 02	"	11:00	G	W			X	X	X	X	X	X		
CROSS PORTAL	"	12:00	G	W			X	X	X	X	X	X		FIELD-FILTERED
CROSS PORTAL 02	"	12:00	G	W			X	X	X	X	X	X		FOR METALS &
COMPLIANCE WELL	"	12:30	G	W			X	X	X	X	X	X		RADIONUCLIDES
COMPLIANCE 03	"	12:30	G	W			X	X	X	X	X	X		
CROSS WELL	"	13:00	G	W			X	X	X	X	X	X		

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	B Molson	3/13/25 13:46	GIR	Karen Lopez	03/13/25 13:46	GIR
2	Karen Lopez	03/13/25 15:43	GIR		3/13/25 1543	EETDEN
3						

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

Cooler Temperature(s) °C and Other Remarks: 4.4°4.6°C CF0.3 IRNA6A

Ver: 01/16/2019

3/26/2025

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:			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#:			

Analysis Requested

280-204345 Chain of Custody

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 - Dissolved Metals (Grounwater Permit List) (Field Filtered)	SM4500_SO4_E - Sulfate, SM4500_Cl_E - Chloride, and 300.0 Nitrate	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	S	N	D	D											
CARIBOU PORTAL	3/13/25	10:30	G	W			X	X	X	X	X	X											300.0 Nitrate = 48 hour hold time
CARIBOU WELL	"	11:00	G	W			X	X	X	X	X	X											* Groundwater Dissolved Metals Permit List = 200.7 (Al, B, Fe) and 200.8 (Sb, As, Ba, Cd, Cu, Pb, Mn, Mo, U, Zn)
CARIBOU WELL 02	"	11:00	G	W			X	X	X	X	X	X											
CROSS PORTAL	"	12:00	G	W			X	X	X	X	X	X											FIELD-FILTERED
CROSS PORTAL 02	"	12:00	G	W			X	X	X	X	X	X											FOR METALS &
COMPLIANCE WELL	"	12:30	G	W			X	X	X	X	X	X											RADIONUCLIDES
COMPLIANCE 03	"	12:30	G	W			X	X	X	X	X	X											
CROSS WELL	"	13:00	G	W			X	X	X	X	X	X											

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	B Molson	3/13/25 13:46	GIR	Karen Lopez	03/13/25 13:46	GIR
2	Karen Lopez	03/13/25 15:43	GIR		3/13/25 1543	EETDEN
3						

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

Cooler Temperature(s) °C and Other Remarks: 4.4°, 4.6° cF0.3 IRNA6A

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: N/A	Lab PM: Bieniulis, Dylan T	Carrier Tracking No(s): N/A	COC No: 280-737387.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Dylan.Bieniulis@et.eurofinsus.com	State of Origin: Colorado	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): N/A		Job #: 280-204345-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 4/10/2025	Analysis Requested		Preservation Codes: -
City: Earth City	TAT Requested (days): N/A			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: Nederland, CO - Groundwater	Project #: 28025589			Other: N/A
Site: N/A	SSOW#: N/A			

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:							
CARIBOU PORTAL (280-204345-1)	3/13/25	10:30 Mountain	G	Water			X	X	2	
CARIBOU WELL (280-204345-2)	3/13/25	11:00 Mountain	G	Water			X	X	2	
CARIBOU WELL 02 (280-204345-3)	3/13/25	11:00 Mountain	G	Water			X	X	2	
CROSS PORTAL (280-204345-4)	3/13/25	12:00 Mountain	G	Water			X	X	2	
CROSS PORTAL 02 (280-204345-5)	3/13/25	12:00 Mountain	G	Water			X	X	2	
COMPLIANCE WELL (280-204345-6)	3/13/25	12:30 Mountain	G	Water			X	X	2	
COMPLIANCE 03 (280-204345-7)	3/13/25	12:30 Mountain	G	Water			X	X	2	
CROSS WELL (280-204345-8)	3/13/25	13:00 Mountain	G	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: Mario Novaez	Date/Time: 03/14/2025	Company: EED	Received by: Cheyenne Forrest	Date/Time: 0810 MAR 17 2025	Company
Relinquished by:	Date/Time:	Company	Received by: Cheyenne Forrest	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: 10/10/2024

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: N/A	Lab PM: Bieniulis, Dylan T	Carrier Tracking No(s): N/A	COC No: 280-737387.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Dylan.Bieniulis@et.eurofinsus.com	State of Origin: Colorado	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): N/A		Job #: 280-204345-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 4/10/2025	Analysis Requested		Preservation Codes: -
City: Earth City	TAT Requested (days): N/A			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: Nederland, CO - Groundwater	Project #: 28025589			Other: N/A
Site: N/A	SSOW#: N/A			

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:							
CARIBOU PORTAL (280-204345-1)	3/13/25	10:30 Mountain	G	Water			X	X	2	
CARIBOU WELL (280-204345-2)	3/13/25	11:00 Mountain	G	Water			X	X	2	
CARIBOU WELL 02 (280-204345-3)	3/13/25	11:00 Mountain	G	Water			X	X	2	
CROSS PORTAL (280-204345-4)	3/13/25	12:00 Mountain	G	Water			X	X	2	
CROSS PORTAL 02 (280-204345-5)	3/13/25	12:00 Mountain	G	Water			X	X	2	
COMPLIANCE WELL (280-204345-6)	3/13/25	12:30 Mountain	G	Water			X	X	2	
COMPLIANCE 03 (280-204345-7)	3/13/25	12:30 Mountain	G	Water			X	X	2	
CROSS WELL (280-204345-8)	3/13/25	13:00 Mountain	G	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
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *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: Mark NuvAvez	Date/Time: 03/14/2025	Company: EED	Received by: Cheyenne Forrest	Date/Time: 0810 MAR 17 2025	Company
Relinquished by:	Date/Time:	Company	Received by: Cheyenne Forrest	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: 10/10/2024

Login Sample Receipt Checklist

Client: Grand Island Resources

Job Number: 280-204345-1

Login Number: 204345
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.	N/A	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	False	See job narrative for details
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: 280-204345-1

Login Number: 204345
List Number: 2
Creator: Forrest, Cheyenne L

List Source: Eurofins St. Louis
List Creation: 03/17/25 12:25 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?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	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-001 ANALYTICAL RESULTS

eurofins | Environment Testing

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

ANALYTICAL REPORT

PREPARED FOR

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

Generated 1/16/2025 3:16:17 PM

JOB DESCRIPTION

Nederland, CO

JOB NUMBER

280-201483-1

Eurofins Denver
4955 Yarrow Street
Arvada CO 80002

See page two for job notes and contact information.

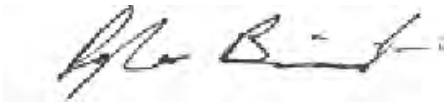
myEOL

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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1/16/2025 3:16:17 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: 280-201483-1

Qualifiers

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
280-201483-1

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 and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided 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 1/6/2025 3:15 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 1.0°C.

Method 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable
Sample OUTFALL-001 (280-201483-1) was analyzed for Metals (ICP) - Total Recoverable. The sample was prepared on 1/7/2025 and analyzed on 1/8/2025.

Method 200.8 - Metals (ICP/MS) - Potentially Dissolved
Sample OUTFALL-001 (280-201483-1) was analyzed for Metals (ICP/MS) - Potentially Dissolved. The sample was prepared on 1/8/2025 and analyzed on 1/10/2025.

Method 200.8 - Metals (ICP/MS) - Total Recoverable
Sample OUTFALL-001 (280-201483-1) was analyzed for Metals (ICP/MS) - Total Recoverable. The sample was prepared on 1/7/2025 and analyzed on 1/8/2025.

Method 245.1 - Mercury (CVAA)
Sample OUTFALL-001 (280-201483-1) was analyzed for Mercury (CVAA). The sample was prepared and analyzed on 1/8/2025.

Method SM 2510B - Conductivity, Specific Conductance
Sample OUTFALL-001 (280-201483-1) was analyzed for Conductivity, Specific Conductance. The sample was analyzed on 1/7/2025.

Method SM 2540D - Solids, Total Suspended (TSS)
Sample OUTFALL-001 (280-201483-1) was analyzed for Solids, Total Suspended (TSS). The sample was prepared on 1/7/2025 and analyzed on 1/7/2025 and 1/8/2025.

Method SM 3500 CR B - Chromium, Hexavalent - Dissolved
Sample OUTFALL-001 (280-201483-1) was analyzed for Chromium, Hexavalent - Dissolved. The sample was analyzed on 1/6/2025.

Method SM3500 CR B - Chromium, Trivalent - Potentially Dissolved

Job ID: 280-201483-1 (Continued) Eurofins Denver

Sample OUTFALL-001 (280-201483-1) was analyzed for Chromium, Trivalent - Potentially Dissolved. The sample was prepared on 1/7/2025 and analyzed on 1/8/2025 and 1/16/2025.

Method SM3500 CR B - Chromium, Trivalent - Total Recoverable
Sample OUTFALL-001 (280-201483-1) was analyzed for Chromium, Trivalent - Total Recoverable. The sample was analyzed on 1/16/2025.

The laboratory's standard operation procedure for hexavalent chromium analysis by standard method (SM) 3500 CR B requires filtration of all aqueous samples to remove particulate interferences as the method does not have a mechanism or chemistry to digest any solids. As such all hexavalent chromium analyses by SM 3500 CR B are considered to produce a dissolved hexavalent chromium result as the method setup only is able to determine hexavalent chromium that is dissolved into the aqueous sample matrix. The trivalent chromium result reported here in a calculation from the total recoverable chromium result from method 200.8 and the dissolved hexavalent chromium result from SM 3500 CR B.

Method SM 4500 H+ B - pH
Sample OUTFALL-001 (280-201483-1) was analyzed for pH. The sample was analyzed on 1/9/2025.

Method SM 4500 S2 D - Sulfide, Total
Sample OUTFALL-001 (280-201483-1) was analyzed for Sulfide, Total. The sample was analyzed on 1/9/2025.

Method SM4500 S2 H - Unionized Hydrogen Sulfide
Sample OUTFALL-001 (280-201483-1) was analyzed for Unionized Hydrogen Sulfide. The sample was analyzed on 1/9/2025.

Detection Summary

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

Job ID: 280-201483-1

Client Sample ID: OUTFALL-001 — Lab Sample ID: 280-201483-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	21		10	5.0	ug/L	1		200.8	Total Recoverable
Zinc	22		10	5.0	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	8.0	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Temperature	20.4	HF	1.0	1.0	Degrees C	1		SM 4500 H+ B	Total/NA
Field pH	8.0		1.0	1.0	SU	1		SM4500 S2 H	Total/NA
Field Temperature	20		1.0	1.0	Celsius	1		SM4500 S2 H	Total/NA
Specific Conductance	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: 280-201483-1

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: 280-201483-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-201483-1	OUTFALL-001	Water	01/06/25 13:30	01/06/25 15:15

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

Client Sample ID: OUTFALL-001
Date Collected: 01/06/25 13:30
Date Received: 01/06/25 15:15

Lab Sample ID: 280-201483-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		100	40	ug/L		01/07/25 10:11	01/08/25 22:28	1

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

Client Sample ID: OUTFALL-001
Date Collected: 01/06/25 13:30
Date Received: 01/06/25 15:15

Lab Sample ID: 280-201483-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.0	0.50	ug/L		01/07/25 10:11	01/08/25 11:36	1
Cadmium	ND		1.0	0.25	ug/L		01/07/25 10:11	01/08/25 11:36	1
Chromium	ND		3.0	1.0	ug/L		01/07/25 10:11	01/08/25 11:36	1
Copper	ND		2.0	1.0	ug/L		01/07/25 10:11	01/08/25 11:36	1
Lead	ND		1.0	0.50	ug/L		01/07/25 10:11	01/08/25 11:36	1
Zinc	**21**		10	5.0	ug/L		01/07/25 10:11	01/08/25 11:36	1

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

Client Sample ID: OUTFALL-001
Date Collected: 01/06/25 13:30
Date Received: 01/06/25 15:15

Lab Sample ID: 280-201483-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.0	0.50	ug/L		01/08/25 14:38	01/10/25 12:13	1
Cadmium	ND		1.0	0.25	ug/L		01/08/25 14:38	01/10/25 12:13	1
Chromium	ND		3.0	1.0	ug/L		01/08/25 14:38	01/10/25 12:13	1
Copper	ND		2.0	1.0	ug/L		01/08/25 14:38	01/10/25 12:13	1
Lead	ND		1.0	0.50	ug/L		01/08/25 14:38	01/10/25 12:13	1
Manganese	ND		3.0	1.5	ug/L		01/08/25 14:38	01/10/25 12:13	1
Nickel	ND		3.0	1.0	ug/L		01/08/25 14:38	01/10/25 12:13	1
Selenium	ND		2.0	0.50	ug/L		01/08/25 14:38	01/10/25 12:13	1
Silver	ND		0.50	0.25	ug/L		01/08/25 14:38	01/10/25 12:13	1
Zinc	**22**		10	5.0	ug/L		01/08/25 14:38	01/10/25 12:13	1

Method: EPA 245.1 - Mercury (CVAA)

Client Sample ID: OUTFALL-001
Date Collected: 01/06/25 13:30
Date Received: 01/06/25 15:15

Lab Sample ID: 280-201483-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		01/08/25 08:36	01/08/25 12:53	1

General Chemistry

Client Sample ID: OUTFALL-001
Date Collected: 01/06/25 13:30
Date Received: 01/06/25 15:15

Lab Sample ID: 280-201483-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (SM 2510B)	**250**		2.0	2.0	umhos/cm			01/07/25 14:50	1
Total Suspended Solids (SM 2540D)	ND		4.0	1.5	mg/L			01/07/25 09:35	1
pH adj. to 25 deg C (SM 4500 H+ B	**8.0**	**HF**	0.1	0.1	SU			01/09/25 13:06	1
Temperature (SM 4500 H+ B)	**20.4**	**HF**	1.0	1.0	Degrees C			01/09/25 13:06	1
Sulfide (SM 4500 S2 D)	ND		0.050	0.035	mg/L			01/09/25 15:07	1

General Chemistry (Continued)

Client Sample ID: OUTFALL-001
Date Collected: 01/06/25 13:30
Date Received: 01/06/25 15:15

Lab Sample ID: 280-201483-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Un-ionized Hydrogen Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			01/09/25 18:40	1
Field pH (SM4500 S2 H)	**8.0**		1.0	1.0	SU			01/09/25 18:40	1
Field Temperature (SM4500 S2 H)	**20**		1.0	1.0	Celsius			01/09/25 18:40	1
Specific Conductance (SM4500 S2 H)	**250**		2.0	2.0	umhos/cm			01/09/25 18:40	1
Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			01/09/25 18:40	1

General Chemistry - Total Recoverable

Client Sample ID: OUTFALL-001
Date Collected: 01/06/25 13:30
Date Received: 01/06/25 15:15

Lab Sample ID: 280-201483-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, trivalent (SM3500 CR B)	ND		3.0	3.0	ug/L			01/16/25 14:03	1

General Chemistry - Dissolved

Client Sample ID: OUTFALL-001
Date Collected: 01/06/25 13:30
Date Received: 01/06/25 15:15

Lab Sample ID: 280-201483-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent (SM 3500 CR B)	ND		20	5.0	ug/L			01/06/25 16:09	1

General Chemistry - Potentially Dissolved

Client Sample ID: OUTFALL-001
Date Collected: 01/06/25 13:30
Date Received: 01/06/25 15:15

Lab Sample ID: 280-201483-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, trivalent (dissolved) (SM3500 CR B)	ND		3.0	3.0	ug/L			01/16/25 14:03	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 280-680587/1-A
Matrix: Water
Analysis Batch: 680882

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 680587

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		100	40	ug/L		01/07/25 10:11	01/08/25 21:40	1

Lab Sample ID: LCS 280-680587/2-A
Matrix: Water
Analysis Batch: 680882

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 680587

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	10000	10800		ug/L		108	85 - 115

Lab Sample ID: 280-201483-1 MS
Matrix: Water
Analysis Batch: 680882

Client Sample ID: OUTFALL-001
Prep Type: Total Recoverable
Prep Batch: 680587

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	ND		10000	10700		ug/L		107	75 - 125

Lab Sample ID: 280-201483-1 MSD
Matrix: Water
Analysis Batch: 680882

Client Sample ID: OUTFALL-001
Prep Type: Total Recoverable
Prep Batch: 680587

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron	ND		10000	10800		ug/L		108	75 - 125	1	20

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 280-680587/1-A
Matrix: Water
Analysis Batch: 680788

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 680587

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.0	0.50	ug/L		01/07/25 10:11	01/08/25 11:27	1
Cadmium	ND		1.0	0.25	ug/L		01/07/25 10:11	01/08/25 11:27	1
Chromium	ND		3.0	1.0	ug/L		01/07/25 10:11	01/08/25 11:27	1
Copper	ND		2.0	1.0	ug/L		01/07/25 10:11	01/08/25 11:27	1
Lead	ND		1.0	0.50	ug/L		01/07/25 10:11	01/08/25 11:27	1
Zinc	ND		10	5.0	ug/L		01/07/25 10:11	01/08/25 11:27	1

Lab Sample ID: LCS 280-680587/14-A
Matrix: Water
Analysis Batch: 680788

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 680587

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	40.0	38.3		ug/L		96	89 - 111
Cadmium	40.0	39.4		ug/L		99	89 - 111
Chromium	40.0	38.9		ug/L		97	86 - 115
Copper	40.0	38.9		ug/L		97	90 - 115
Lead	40.0	39.8		ug/L		99	88 - 115
Zinc	40.0	38.7		ug/L		97	88 - 115

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

Lab Sample ID: 280-201483-1 MS
Matrix: Water
Analysis Batch: 680788

Client Sample ID: OUTFALL-001
Prep Type: Total Recoverable
Prep Batch: 680587

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	ND		40.0	39.3		ug/L		98	79 - 120
Cadmium	ND		40.0	40.6		ug/L		101	89 - 111
Chromium	ND		40.0	38.9		ug/L		97	86 - 115
Copper	ND		40.0	40.0		ug/L		100	90 - 115
Lead	ND		40.0	41.2		ug/L		103	88 - 115
Zinc	21		40.0	58.2		ug/L		92	88 - 115

Lab Sample ID: 280-201483-1 MSD
Matrix: Water
Analysis Batch: 680788

Client Sample ID: OUTFALL-001
Prep Type: Total Recoverable
Prep Batch: 680587

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	ND		40.0	39.0		ug/L		98	79 - 120	1	20
Cadmium	ND		40.0	39.1		ug/L		98	89 - 111	4	20
Chromium	ND		40.0	39.2		ug/L		98	86 - 115	1	20
Copper	ND		40.0	38.9		ug/L		97	90 - 115	3	20
Lead	ND		40.0	40.3		ug/L		101	88 - 115	2	20
Zinc	21		40.0	60.7		ug/L		98	88 - 115	4	20

Lab Sample ID: MB 280-680316/1-B
Matrix: Water
Analysis Batch: 681035

Client Sample ID: Method Blank
Prep Type: Potentially Dissolved
Prep Batch: 680602

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.0	0.50	ug/L		01/08/25 14:38	01/10/25 11:38	1
Cadmium	ND		1.0	0.25	ug/L		01/08/25 14:38	01/10/25 11:38	1
Chromium	ND		3.0	1.0	ug/L		01/08/25 14:38	01/10/25 11:38	1
Copper	ND		2.0	1.0	ug/L		01/08/25 14:38	01/10/25 11:38	1
Lead	ND		1.0	0.50	ug/L		01/08/25 14:38	01/10/25 11:38	1
Manganese	ND		3.0	1.5	ug/L		01/08/25 14:38	01/10/25 11:38	1
Nickel	ND		3.0	1.0	ug/L		01/08/25 14:38	01/10/25 11:38	1
Selenium	ND		2.0	0.50	ug/L		01/08/25 14:38	01/10/25 11:38	1
Silver	ND		0.50	0.25	ug/L		01/08/25 14:38	01/10/25 11:38	1
Zinc	ND		10	5.0	ug/L		01/08/25 14:38	01/10/25 11:38	1

Lab Sample ID: LCS 280-680315/2-C
Matrix: Water
Analysis Batch: 681035

Client Sample ID: Lab Control Sample
Prep Type: Potentially Dissolved
Prep Batch: 680602

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	40.0	40.3		ug/L		101	89 - 111
Cadmium	40.0	41.2		ug/L		103	89 - 111
Chromium	40.0	39.4		ug/L		98	86 - 115
Copper	40.0	39.4		ug/L		98	90 - 115
Lead	40.0	38.8		ug/L		97	88 - 115
Manganese	40.0	39.0		ug/L		97	87 - 115
Nickel	40.0	39.5		ug/L		99	86 - 115
Selenium	40.0	40.9		ug/L		102	85 - 114
Silver	40.0	37.8		ug/L		95	90 - 114

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

Lab Sample ID: LCS 280-680315/2-C
Matrix: Water
Analysis Batch: 681035

Client Sample ID: Lab Control Sample
Prep Type: Potentially Dissolved
Prep Batch: 680602

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	40.0	40.5		ug/L		101	88 - 115

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 280-680655/1-A
Matrix: Water
Analysis Batch: 680839

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 680655

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		01/08/25 08:36	01/08/25 12:22	1

Lab Sample ID: LCS 280-680655/2-A
Matrix: Water
Analysis Batch: 680839

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 680655

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	4.89		ug/L		98	85 - 115

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: MB 280-680683/4
Matrix: Water
Analysis Batch: 680683

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			01/07/25 14:50	1

Lab Sample ID: LCS 280-680683/3
Matrix: Water
Analysis Batch: 680683

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	1420		umhos/cm		100	90 - 110

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

Lab Sample ID: MB 280-680635/1
Matrix: Water
Analysis Batch: 680635

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	1.5	mg/L			01/07/25 09:35	1

Lab Sample ID: LCS 280-680635/2
Matrix: Water
Analysis Batch: 680635

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	504	466		mg/L		93	79 - 114

Method: SM 3500 CR B - Chromium, Hexavalent

Lab Sample ID: MB 280-680579/3-A
Matrix: Water
Analysis Batch: 680585

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		20	5.0	ug/L			01/06/25 16:09	1

Lab Sample ID: LCS 280-680579/1-A
Matrix: Water
Analysis Batch: 680585

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chromium, hexavalent			100	115		ug/L		115	85 - 115		

Lab Sample ID: LCSD 280-680579/2-A
Matrix: Water
Analysis Batch: 680585

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			100	103		ug/L		103	85 - 115	11	20

Lab Sample ID: 280-201483-1 MS
Matrix: Water
Analysis Batch: 680585

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		100	106		ug/L		106	85 - 115		

Lab Sample ID: 280-201483-1 MSD
Matrix: Water
Analysis Batch: 680585

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		100	104		ug/L		104	85 - 115	2	20

Lab Sample ID: 280-201483-1 DU
Matrix: Water
Analysis Batch: 680585

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		ug/L				NC	20

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 280-680927/4
Matrix: Water
Analysis Batch: 680927

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
pH adj. to 25 deg C			7.00	7.0		SU		100	99 - 101		

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

Job ID: 280-201483-1

Method: SM 4500 S2 D - Sulfide, Total

Lab Sample ID: MB 280-680938/11
Matrix: Water
Analysis Batch: 680938

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	0.035	mg/L			01/09/25 15:03	1

Lab Sample ID: LCS 280-680938/9
Matrix: Water
Analysis Batch: 680938

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	0.499		mg/L		99	81 - 122		

Lab Sample ID: LCSD 280-680938/10
Matrix: Water
Analysis Batch: 680938

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	0.515		mg/L		103	81 - 122	3	10

QC Association Summary

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

Job ID: 280-201483-1

Metals

Filtration Batch: 680315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 280-680315/2-C	Lab Control Sample	Potentially Dissolvec	Water	Poten_Diss_Met	

Filtration Batch: 680316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-680316/1-B	Method Blank	Potentially Dissolvec	Water	Filtration	

Filtration Batch: 680582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-201483-1	OUTFALL-001	Potentially Dissolvec	Water	Poten_Diss_Met	

Prep Batch: 680587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-201483-1	OUTFALL-001	Total Recoverable	Water	200.7	
280-201483-1	OUTFALL-001	Total Recoverable	Water	200.8	
MB 280-680587/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 280-680587/14-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCS 280-680587/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
280-201483-1 MS	OUTFALL-001	Total Recoverable	Water	200.7	
280-201483-1 MS	OUTFALL-001	Total Recoverable	Water	200.8	
280-201483-1 MSD	OUTFALL-001	Total Recoverable	Water	200.7	
280-201483-1 MSD	OUTFALL-001	Total Recoverable	Water	200.8	

Prep Batch: 680602

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-201483-1	OUTFALL-001	Potentially Dissolvec	Water	200.8	680582
MB 280-680316/1-B	Method Blank	Potentially Dissolvec	Water	200.8	680316
LCS 280-680315/2-C	Lab Control Sample	Potentially Dissolvec	Water	200.8	680315

Prep Batch: 680655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-201483-1	OUTFALL-001	Total/NA	Water	245.1	
MB 280-680655/1-A	Method Blank	Total/NA	Water	245.1	
LCS 280-680655/2-A	Lab Control Sample	Total/NA	Water	245.1	

Analysis Batch: 680788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-201483-1	OUTFALL-001	Total Recoverable	Water	200.8	680587
MB 280-680587/1-A	Method Blank	Total Recoverable	Water	200.8	680587
LCS 280-680587/14-A	Lab Control Sample	Total Recoverable	Water	200.8	680587
280-201483-1 MS	OUTFALL-001	Total Recoverable	Water	200.8	680587
280-201483-1 MSD	OUTFALL-001	Total Recoverable	Water	200.8	680587

Analysis Batch: 680839

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-201483-1	OUTFALL-001	Total/NA	Water	245.1	680655
MB 280-680655/1-A	Method Blank	Total/NA	Water	245.1	680655
LCS 280-680655/2-A	Lab Control Sample	Total/NA	Water	245.1	680655

Analysis Batch: 680882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-201483-1	OUTFALL-001	Total Recoverable	Water	200.7 Rev 4.4	680587

Metals (Continued)

Analysis Batch: 680882 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-680587/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	680587
LCS 280-680587/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	680587
280-201483-1 MS	OUTFALL-001	Total Recoverable	Water	200.7 Rev 4.4	680587
280-201483-1 MSD	OUTFALL-001	Total Recoverable	Water	200.7 Rev 4.4	680587

Analysis Batch: 681035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-201483-1	OUTFALL-001	Potentially Dissolvec	Water	200.8	680602
MB 280-680316/1-B	Method Blank	Potentially Dissolvec	Water	200.8	680602
LCS 280-680315/2-C	Lab Control Sample	Potentially Dissolvec	Water	200.8	680602

General Chemistry

Filtration Batch: 680579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-201483-1	OUTFALL-001	Dissolved	Water	FILTRATION	
MB 280-680579/3-A	Method Blank	Dissolved	Water	FILTRATION	
LCS 280-680579/1-A	Lab Control Sample	Dissolved	Water	FILTRATION	
LCSD 280-680579/2-A	Lab Control Sample Dup	Dissolved	Water	FILTRATION	
280-201483-1 MS	OUTFALL-001	Dissolved	Water	FILTRATION	
280-201483-1 MSD	OUTFALL-001	Dissolved	Water	FILTRATION	
280-201483-1 DU	OUTFALL-001	Dissolved	Water	FILTRATION	

Analysis Batch: 680585

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-201483-1	OUTFALL-001	Dissolved	Water	SM 3500 CR B	680579
MB 280-680579/3-A	Method Blank	Dissolved	Water	SM 3500 CR B	680579
LCS 280-680579/1-A	Lab Control Sample	Dissolved	Water	SM 3500 CR B	680579
LCSD 280-680579/2-A	Lab Control Sample Dup	Dissolved	Water	SM 3500 CR B	680579
280-201483-1 MS	OUTFALL-001	Dissolved	Water	SM 3500 CR B	680579
280-201483-1 MSD	OUTFALL-001	Dissolved	Water	SM 3500 CR B	680579
280-201483-1 DU	OUTFALL-001	Dissolved	Water	SM 3500 CR B	680579

Analysis Batch: 680635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-201483-1	OUTFALL-001	Total/NA	Water	SM 2540D	
MB 280-680635/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 280-680635/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 680683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-201483-1	OUTFALL-001	Total/NA	Water	SM 2510B	
MB 280-680683/4	Method Blank	Total/NA	Water	SM 2510B	
LCS 280-680683/3	Lab Control Sample	Total/NA	Water	SM 2510B	

Analysis Batch: 680927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-201483-1	OUTFALL-001	Total/NA	Water	SM 4500 H+ B	
LCS 280-680927/4	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

QC Association Summary

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

Job ID: 280-201483-1

General Chemistry

Analysis Batch: 680938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-201483-1	OUTFALL-001	Total/NA	Water	SM 4500 S2 D	
MB 280-680938/11	Method Blank	Total/NA	Water	SM 4500 S2 D	
LCS 280-680938/9	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
LCSD 280-680938/10	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 D	

Analysis Batch: 680963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-201483-1	OUTFALL-001	Total/NA	Water	SM4500 S2 H	

Analysis Batch: 681655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-201483-1	OUTFALL-001	Potentially Dissolvec	Water	SM3500 CR B	
280-201483-1	OUTFALL-001	Total Recoverable	Water	SM3500 CR B	

Lab Chronicle

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

Job ID: 280-201483-1

Client Sample ID: OUTFALL-001

Date Collected: 01/06/25 13:30
Date Received: 01/06/25 15:15

Lab Sample ID: 280-201483-1

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	200.7			50 mL	50 mL	680587	01/07/25 10:11	SMK	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			680882	01/08/25 22:28	NKC	EET DEN
Potentially Dissolvec	Filtration	Poten_Diss_Met			100 mL	100 mL	680582	01/06/25 15:57	AMH	EET DEN
Potentially Dissolvec	Prep	200.8			50 mL	50 mL	680602	01/08/25 14:38	SMK	EET DEN
Potentially Dissolvec	Analysis	200.8		1			681035	01/10/25 12:13	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	680587	01/07/25 10:11	SMK	EET DEN
Total Recoverable	Analysis	200.8		1			680788	01/08/25 11:36	LMT	EET DEN
Total/NA	Prep	245.1			30 mL	50 mL	680655	01/08/25 08:36	AES	EET DEN
Total/NA	Analysis	245.1		1			680839	01/08/25 12:53	AES	EET DEN
Total/NA	Analysis	SM 2510B		1			680683	01/07/25 14:50	EL	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	680635	01/07/25 09:35	BRD	EET DEN
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	680579	01/06/25 15:33	ABW	EET DEN
Dissolved	Analysis	SM 3500 CR B		1	2 mL	2 mL	680585	01/06/25 16:09	ABW	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			680927	01/09/25 13:06	EL	EET DEN
Total/NA	Analysis	SM 4500 S2 D		1	2 mL	2 mL	680938	01/09/25 15:07	ABW	EET DEN
Potentially Dissolvec	Analysis	SM3500 CR B		1			681655	01/16/25 14:03	RMS	EET DEN
Total Recoverable	Analysis	SM3500 CR B		1			681655	01/16/25 14:03	RMS	EET DEN
Total/NA	Analysis	SM4500 S2 H		1			680963	01/09/25 18:40	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: 280-201483-1

Laboratory: Eurofins Denver

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	4025	01-08-26

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
SM 4500 H+ B		Water	Temperature
SM3500 CR B		Water	Chromium, trivalent
SM3500 CR B		Water	Chromium, trivalent (dissolved)
SM4500 S2 H		Water	Field pH
SM4500 S2 H		Water	Field Temperature
SM4500 S2 H		Water	Specific Conductance
SM4500 S2 H		Water	Sulfide
SM4500 S2 H		Water	Un-ionized Hydrogen Sulfide

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

Chain of Custody Record

eurofins

Client Information	Sampler: Karen Lopez	Lab PM: Bieniulis, Dylan T	Carrier Tracking No(s):	COC No
Client Contact: John Rinko	Phone: 7206497722	E-Mail: Dylan.Bieniulis@et.eurofinsus.com	State of Origin:	Page:
Company: Grand Island Resources	PWSID:	Analysis Requested		Job #:

Address: 12567 West Cedar Drive Suite 110	Due Date Requested:		
City: Lakewood	TAT Requested (days):		
State, Zip: CO, 80228	Compliance Project: Δ Yes Δ No		
Phone: (303) 601-9230	PO #:		
Email: johnrinko@yahoo.com	WO #:		
Project Name: Nederland, CO	Project #: 28022821		
Site: First half of the month event	SSOW#:		

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		
OUTFALL-001	01/06/25	13:30	G	W	N	N	X	X	X	X	X	X	6	*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
														pH = 7.9
														Observed visible sheen or floating oil?
														Yes / No (circle one)
														* If oil sheen observed in discharge, sampling for Oil&Grease required.

280-201483 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
	Relinquished by	Date/Time	Company	Received by	Date/Time: 1-6-25 1515	Company: EETDEN
	Relinquished by: Karen Lopez	Date/Time: 01/06/25 3:15pm	Company: GIR	Received by:	Date/Time:	Company

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

Cooler Temperature(s) °C and Other Remarks: 0.8°C PABUCF 0.2

Ver: 01/16/2019

1/16/2025

Login Sample Receipt Checklist

Client: Grand Island Resources

Job Number: 280-201483-1

Login Number: 201483
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.	True	
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	

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

ANALYTICAL REPORT

PREPARED FOR

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

Generated 2/7/2025 6:34:16 AM

JOB DESCRIPTION

Nederland, CO

JOB NUMBER

280-202333-1

Eurofins Denver
4955 Yarrow Street
Arvada CO 80002

See page two for job notes and contact information.

myEOL

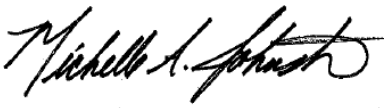
Eurofins Denver

Job Notes

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

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

Authorization



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Authorized for release by
Michelle Johnston, Project Manager II
Michelle.Johnston@et.eurofinsus.com
Designee for
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: 280-202333-1

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 ID: 280-202333-1 — Eurofins Denver

Job Narrative
280-202333-1

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 and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided 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 1/28/2025 4:20 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 2.8°C.

Method 200.8 - Metals (ICP/MS) - Potentially Dissolved
Sample OUTFALL-001 (280-202333-1) was analyzed for Metals (ICP/MS) - Potentially Dissolved. The sample was prepared on 1/31/2025 and 2/5/2025 and analyzed on 2/3/2025 and 2/6/2025.

Method 200.8 - Metals (ICP/MS) - Total Recoverable
Sample OUTFALL-001 (280-202333-1) was analyzed for Metals (ICP/MS) - Total Recoverable. The sample was prepared on 1/31/2025 and analyzed on 2/3/2025.

Detection Summary

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

Job ID: 280-202333-1

Client Sample ID: OUTFALL-001

Lab Sample ID: 280-202333-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	29		10	5.0	ug/L	1		200.8	Potentially Dissolved

This Detection Summary does not include radiochemical test results.

Eurofins Denver

Method Summary

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

Job ID: 280-202333-1

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: 280-202333-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-202333-1	OUTFALL-001	Water	01/28/25 13:30	01/28/25 16:20

Client Sample Results

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

Job ID: 280-202333-1

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

Client Sample ID: OUTFALL-001
Date Collected: 01/28/25 13:30
Date Received: 01/28/25 16:20

Lab Sample ID: 280-202333-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		2.0	1.0	ug/L		01/31/25 14:46	02/03/25 16:45	1
Lead	ND		1.0	0.50	ug/L		01/31/25 14:46	02/03/25 16:45	1

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

Client Sample ID: OUTFALL-001
Date Collected: 01/28/25 13:30
Date Received: 01/28/25 16:20

Lab Sample ID: 280-202333-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		1.0	0.25	ug/L		01/31/25 18:31	02/03/25 18:03	1
Copper	ND		2.0	1.0	ug/L		01/31/25 18:31	02/03/25 18:03	1
Lead	ND		1.0	0.50	ug/L		01/31/25 18:31	02/03/25 18:03	1
Silver	ND		0.50	0.25	ug/L		01/31/25 18:31	02/03/25 18:03	1
Zinc	**29**		10	5.0	ug/L		02/05/25 14:31	02/06/25 09:59	1

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 280-683010/1-A
Matrix: Water
Analysis Batch: 683518

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 683010

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		2.0	1.0	ug/L		01/31/25 14:46	02/03/25 16:41	1
Lead	ND		1.0	0.50	ug/L		01/31/25 14:46	02/03/25 16:41	1

Lab Sample ID: LCS 280-683010/2-A
Matrix: Water
Analysis Batch: 683518

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 683010

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Copper	40.0	36.7		ug/L		92	90 - 115
Lead	40.0	37.6		ug/L		94	88 - 115

Lab Sample ID: 280-202333-1 MS
Matrix: Water
Analysis Batch: 683518

Client Sample ID: OUTFALL-001
Prep Type: Total Recoverable
Prep Batch: 683010

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Copper	ND		40.0	37.0		ug/L		92	90 - 115
Lead	ND		40.0	37.5		ug/L		94	88 - 115

Lab Sample ID: 280-202333-1 MSD
Matrix: Water
Analysis Batch: 683518

Client Sample ID: OUTFALL-001
Prep Type: Total Recoverable
Prep Batch: 683010

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Copper	ND		40.0	37.1		ug/L		93	90 - 115	0	20
Lead	ND		40.0	38.5		ug/L		96	88 - 115	3	20

Lab Sample ID: MB 280-683054/1-B
Matrix: Water
Analysis Batch: 683519

Client Sample ID: Method Blank
Prep Type: Potentially Dissolved
Prep Batch: 683330

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		1.0	0.25	ug/L		01/31/25 18:31	02/03/25 17:52	1
Copper	ND		2.0	1.0	ug/L		01/31/25 18:31	02/03/25 17:52	1
Lead	ND		1.0	0.50	ug/L		01/31/25 18:31	02/03/25 17:52	1
Silver	ND		0.50	0.25	ug/L		01/31/25 18:31	02/03/25 17:52	1

Lab Sample ID: LCS 280-683054/12-B
Matrix: Water
Analysis Batch: 683519

Client Sample ID: Lab Control Sample
Prep Type: Potentially Dissolved
Prep Batch: 683330

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cadmium	40.0	40.4		ug/L		101	89 - 111
Copper	40.0	37.3		ug/L		93	90 - 115
Lead	40.0	39.1		ug/L		98	88 - 115
Silver	40.0	37.7		ug/L		94	90 - 114

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

Job ID: 280-202333-1

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

Lab Sample ID: MB 280-683613/1-B
Matrix: Water
Analysis Batch: 683875

Client Sample ID: Method Blank
Prep Type: Potentially Dissolved
Prep Batch: 683636

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		10	5.0	ug/L		02/05/25 14:31	02/06/25 09:48	1

Lab Sample ID: LCS 280-683613/20-B
Matrix: Water
Analysis Batch: 683875

Client Sample ID: Lab Control Sample
Prep Type: Potentially Dissolved
Prep Batch: 683636

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Zinc			40.0	39.4		ug/L		98	88 - 115		

QC Association Summary

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

Job ID: 280-202333-1

Metals

Prep Batch: 683010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-202333-1	OUTFALL-001	Total Recoverable	Water	200.8	
MB 280-683010/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-683010/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
280-202333-1 MS	OUTFALL-001	Total Recoverable	Water	200.8	
280-202333-1 MSD	OUTFALL-001	Total Recoverable	Water	200.8	

Filtration Batch: 683054

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-683054/1-B	Method Blank	Potentially Dissolvec	Water	Filtration	
LCS 280-683054/12-B	Lab Control Sample	Potentially Dissolvec	Water	Filtration	

Filtration Batch: 683223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-202333-1	OUTFALL-001	Potentially Dissolvec	Water	Poten_Diss_Met	

Prep Batch: 683330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-202333-1	OUTFALL-001	Potentially Dissolvec	Water	200.8	683223
MB 280-683054/1-B	Method Blank	Potentially Dissolvec	Water	200.8	683054
LCS 280-683054/12-B	Lab Control Sample	Potentially Dissolvec	Water	200.8	683054

Analysis Batch: 683518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-202333-1	OUTFALL-001	Total Recoverable	Water	200.8	683010
MB 280-683010/1-A	Method Blank	Total Recoverable	Water	200.8	683010
LCS 280-683010/2-A	Lab Control Sample	Total Recoverable	Water	200.8	683010
280-202333-1 MS	OUTFALL-001	Total Recoverable	Water	200.8	683010
280-202333-1 MSD	OUTFALL-001	Total Recoverable	Water	200.8	683010

Analysis Batch: 683519

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-202333-1	OUTFALL-001	Potentially Dissolvec	Water	200.8	683330
MB 280-683054/1-B	Method Blank	Potentially Dissolvec	Water	200.8	683330
LCS 280-683054/12-B	Lab Control Sample	Potentially Dissolvec	Water	200.8	683330

Filtration Batch: 683613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-683613/1-B	Method Blank	Potentially Dissolvec	Water	Filtration	
LCS 280-683613/20-B	Lab Control Sample	Potentially Dissolvec	Water	Filtration	

Filtration Batch: 683615

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-202333-1	OUTFALL-001	Potentially Dissolvec	Water	Poten_Diss_Met	

Prep Batch: 683636

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-202333-1	OUTFALL-001	Potentially Dissolvec	Water	200.8	683615
MB 280-683613/1-B	Method Blank	Potentially Dissolvec	Water	200.8	683613
LCS 280-683613/20-B	Lab Control Sample	Potentially Dissolvec	Water	200.8	683613

QC Association Summary

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

Job ID: 280-202333-1

Metals

Analysis Batch: 683875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-202333-1	OUTFALL-001	Potentially Dissolvec	Water	200.8	683636
MB 280-683613/1-B	Method Blank	Potentially Dissolvec	Water	200.8	683636
LCS 280-683613/20-B	Lab Control Sample	Potentially Dissolvec	Water	200.8	683636

Lab Chronicle

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

Job ID: 280-202333-1

Client Sample ID: OUTFALL-001

Date Collected: 01/28/25 13:30
Date Received: 01/28/25 16:20

Lab Sample ID: 280-202333-1

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	683615	01/29/25 21:45	AES	EET DEN
Potentially Dissolvec	Prep	200.8			50 mL	50 mL	683636	02/05/25 14:31	SLH	EET DEN
Potentially Dissolvec	Analysis	200.8		1			683875	02/06/25 09:59	LMT	EET DEN
Potentially Dissolvec	Filtration	Poten_Diss_Met			100 mL	100 mL	683223	01/30/25 20:22	AMH	EET DEN
Potentially Dissolvec	Prep	200.8			50 mL	50 mL	683330	01/31/25 18:31	AMH	EET DEN
Potentially Dissolvec	Analysis	200.8		1			683519	02/03/25 18:03	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	683010	01/31/25 14:46	AMH	EET DEN
Total Recoverable	Analysis	200.8		1			683518	02/03/25 16:45	LMT	EET DEN

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 280-202333-1

Laboratory: Eurofins Denver

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	4025	01-08-26

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: Karen Loper	Lab PM: Bieniulis, Dylan T	Carrier Tracking No(s):	COC No:
Client Contact: John Rinko	Phone: 720 641 7122	E-Mail: Dylan.Bieniulis@et.eurofinsus.com	State of Origin:	Page:
Company: Grand Island Resources	PWSID:	Analysis Requested		Job #:
Address: 12567 West Cedar Drive Suite 110	Due Date Requested:			Preservation Codes:
City: Lakewood	TAT Requested (days):			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:
State, Zip: CO, 80228	Compliance Project: ☒ Yes ☐ No			
Phone: (303) 601-8230	PO #:			
Email: johnrinko@yahoo.com	WO #:			
Project Name: Nederland, CO	Project #: 28022821			
Site: second half of the month event	SSOW#:			

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		
OUTFALL-001	01/28/2025	13.30	G	W	N	N	X	X	2	[1]Second half of the month potentially dissolved metals permit list = 200.8 (Cd, Cu, Pb, Ag, Zn)
										[2]Second half of the month total recoverable metals permit list = 200.8 (Cu, Pb)
										Temp = 6°C
										pH = 7.9
										Observed Oil Sheen? Yes / No (circle)
										[3] If oil sheen observed in discharge, sampling for Oil&Grease required.

280-202333 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
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: Company
Relinquished by: Karen Loper	Date/Time: 01/28/25 16:20	Company GIR	Received by:	Date/Time: 1/28/25 16:20 Company FGT OFN

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

Cooler Temperature(s) °C and Other Remarks: 2.6 IR Gun CF+0.2

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Grand Island Resources

Job Number: 280-202333-1

Login Number: 202333
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.	True	
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	

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

ANALYTICAL REPORT

PREPARED FOR

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

Generated 2/25/2025 2:27:18 PM

JOB DESCRIPTION

Nederland, CO

JOB NUMBER

280-203061-1

Eurofins Denver
4955 Yarrow Street
Arvada CO 80002

See page two for job notes and contact information.

myEOL

Job Notes

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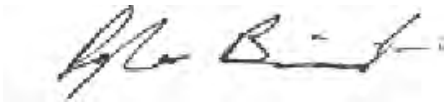
The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed 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: 280-203061-1

Qualifiers

General Chemistry

Qualifier	Qualifier Description
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	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
280-203061-1

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 and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided 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 2/13/2025 4:32 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 4.4°C.

Receipt Exceptions
One of the two low level mercury kits was received in improper packaging. Only one unlabeled bubble bag was used for the one with improper packaging: OUTFALL-001 (280-203061-1).

Method 1631E - Mercury, Low Level (CVAFS)
Sample OUTFALL-001 (280-203061-1) was analyzed for Mercury, Low Level (CVAFS). The sample was prepared on 2/20/2025 and analyzed on 2/25/2025.

Method 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable
Sample OUTFALL-001 (280-203061-1) was analyzed for Metals (ICP) - Total Recoverable. The sample was prepared and analyzed on 2/18/2025.

Method 200.8 - Metals (ICP/MS) - Potentially Dissolved
Sample OUTFALL-001 (280-203061-1) was analyzed for Metals (ICP/MS) - Potentially Dissolved. The sample was prepared on 2/17/2025 and analyzed on 2/18/2025.

Method 200.8 - Metals (ICP/MS) - Total Recoverable
Sample OUTFALL-001 (280-203061-1) was analyzed for Metals (ICP/MS) - Total Recoverable. The sample was prepared and analyzed on 2/18/2025.

Method 245.1 - Mercury (CVAA)
Sample OUTFALL-001 (280-203061-1) was analyzed for Mercury (CVAA). The sample was prepared and analyzed on 2/18/2025.

Method SM 2510B - Conductivity, Specific Conductance
Sample OUTFALL-001 (280-203061-1) was analyzed for Conductivity, Specific Conductance. The sample was analyzed on 2/17/2025.

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

Job ID: 280-203061-1 (Continued) Eurofins Denver

Sample OUTFALL-001 (280-203061-1) was analyzed for Solids, Total Suspended (TSS). The sample was analyzed on 2/18/2025.

Method SM 3500 CR B - Chromium, Hexavalent
Sample OUTFALL-001 (280-203061-1) was analyzed for Chromium, Hexavalent. The sample was analyzed on 2/13/2025.

The method blank for analytical batch 280-684724 contained Chromium, hexavalent above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL) in the method blank; therefore, re-analysis of samples was not performed.

Method SM 3500 CR B - Chromium, Hexavalent - Dissolved
Sample OUTFALL-001 (280-203061-1) was analyzed for Chromium, Hexavalent - Dissolved. The sample was analyzed on 2/13/2025.

Method SM3500 CR B - Chromium, Trivalent - Potentially Dissolved
Sample OUTFALL-001 (280-203061-1) was analyzed for Chromium, Trivalent - Potentially Dissolved. The sample was analyzed on 2/21/2025.

Method SM3500 CR B - Chromium, Trivalent - Total Recoverable
Sample OUTFALL-001 (280-203061-1) was analyzed for Chromium, Trivalent - Total Recoverable. The sample was analyzed on 2/21/2025.

Method SM 4500 H+ B - pH
Sample OUTFALL-001 (280-203061-1) was analyzed for pH. The sample was analyzed on 2/14/2025.

Method SM 4500 S2 D - Sulfide, Total
Sample OUTFALL-001 (280-203061-1) was analyzed for Sulfide, Total. The sample was analyzed on 2/17/2025.

Method SM4500 S2 H - Unionized Hydrogen Sulfide
Sample OUTFALL-001 (280-203061-1) was analyzed for Unionized Hydrogen Sulfide. The sample was analyzed on 2/16/2025.

Detection Summary

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

Job ID: 280-203061-1

Client Sample ID: OUTFALL-001 — Lab Sample ID: 280-203061-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	1.9		0.50	0.20	ng/L	1		1631E	Total/NA
Zinc	24		10	5.0	ug/L	1		200.8	Total Recoverable
Zinc	28		10	5.0	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	8.0	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Temperature	20.7	HF	1.0	1.0	Degrees C	1		SM 4500 H+ B	Total/NA
Field pH	8.0		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: 280-203061-1

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: 280-203061-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-203061-1	OUTFALL-001	Water	02/13/25 12:15	02/13/25 16:32

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

Client Sample ID: OUTFALL-001
Date Collected: 02/13/25 12:15
Date Received: 02/13/25 16:32

Lab Sample ID: 280-203061-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**1.9**		0.50	0.20	ng/L		02/20/25 15:45	02/25/25 11:52	1

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

Client Sample ID: OUTFALL-001
Date Collected: 02/13/25 12:15
Date Received: 02/13/25 16:32

Lab Sample ID: 280-203061-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		100	40	ug/L		02/18/25 08:45	02/18/25 18:30	1

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

Client Sample ID: OUTFALL-001
Date Collected: 02/13/25 12:15
Date Received: 02/13/25 16:32

Lab Sample ID: 280-203061-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.0	0.50	ug/L		02/18/25 08:45	02/18/25 18:29	1
Cadmium	ND		1.0	0.25	ug/L		02/18/25 08:45	02/18/25 18:29	1
Chromium	ND		3.0	1.0	ug/L		02/18/25 08:45	02/18/25 18:29	1
Copper	ND		2.0	1.0	ug/L		02/18/25 08:45	02/18/25 18:29	1
Lead	ND		1.0	0.50	ug/L		02/18/25 08:45	02/18/25 18:29	1
Zinc	**24**		10	5.0	ug/L		02/18/25 08:45	02/18/25 18:29	1

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

Client Sample ID: OUTFALL-001
Date Collected: 02/13/25 12:15
Date Received: 02/13/25 16:32

Lab Sample ID: 280-203061-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.0	0.50	ug/L		02/17/25 19:53	02/18/25 13:22	1
Cadmium	ND		1.0	0.25	ug/L		02/17/25 19:53	02/18/25 13:22	1
Chromium	ND		3.0	1.0	ug/L		02/17/25 19:53	02/18/25 13:22	1
Copper	ND		2.0	1.0	ug/L		02/17/25 19:53	02/18/25 13:22	1
Lead	ND		1.0	0.50	ug/L		02/17/25 19:53	02/18/25 13:22	1
Manganese	ND		3.0	1.5	ug/L		02/17/25 19:53	02/18/25 13:22	1
Nickel	ND		3.0	1.0	ug/L		02/17/25 19:53	02/18/25 13:22	1
Selenium	ND		2.0	0.50	ug/L		02/17/25 19:53	02/18/25 13:22	1
Silver	ND		0.50	0.25	ug/L		02/17/25 19:53	02/18/25 13:22	1
Zinc	**28**		10	5.0	ug/L		02/17/25 19:53	02/18/25 13:22	1

Method: EPA 245.1 - Mercury (CVAA)

Client Sample ID: OUTFALL-001
Date Collected: 02/13/25 12:15
Date Received: 02/13/25 16:32

Lab Sample ID: 280-203061-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		02/18/25 17:05	02/18/25 23:55	1

General Chemistry

Client Sample ID: OUTFALL-001
Date Collected: 02/13/25 12:15
Date Received: 02/13/25 16:32

Lab Sample ID: 280-203061-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (SM 2510B)	**250**		2.0	2.0	umhos/cm			02/17/25 14:28	1
Total Suspended Solids (SM 2540D)	ND		4.0	1.5	mg/L			02/18/25 11:18	1
Chromium, hexavalent (SM 3500 CR B)	ND		20	5.0	ug/L			02/13/25 18:32	1
pH adj. to 25 deg C (SM 4500 H+ B	**8.0**	**HF**	0.1	0.1	SU			02/14/25 14:54	1
Temperature (SM 4500 H+ B)	**20.7**	**HF**	1.0	1.0	Degrees C			02/14/25 14:54	1
Sulfide (SM 4500 S2 D)	ND		0.050	0.035	mg/L			02/17/25 12:07	1
Un-ionized Hydrogen Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			02/16/25 20:13	1
Field pH (SM4500 S2 H)	**8.0**		1.0	1.0	SU			02/16/25 20:13	1
Field Temperature (SM4500 S2 H)	**21**		1.0	1.0	Celsius			02/16/25 20:13	1
Specific Conductance (SM4500 S2 H)	**250**		2.0	2.0	umhos/cm			02/16/25 20:13	1
Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			02/16/25 20:13	1

General Chemistry - Total Recoverable

Client Sample ID: OUTFALL-001
Date Collected: 02/13/25 12:15
Date Received: 02/13/25 16:32

Lab Sample ID: 280-203061-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, trivalent (SM3500 CR B)	ND		3.0	3.0	ug/L			02/21/25 15:48	1

General Chemistry - Dissolved

Client Sample ID: OUTFALL-001
Date Collected: 02/13/25 12:15
Date Received: 02/13/25 16:32

Lab Sample ID: 280-203061-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent (SM 3500 CR B)	ND		20	5.0	ug/L			02/13/25 18:16	1

General Chemistry - Potentially Dissolved

Client Sample ID: OUTFALL-001
Date Collected: 02/13/25 12:15
Date Received: 02/13/25 16:32

Lab Sample ID: 280-203061-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, trivalent (dissolved) (SM3500 CR B)	ND		3.0	3.0	ug/L			02/21/25 15:48	1

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

Lab Sample ID: MB 400-700457/3-A
Matrix: Water
Analysis Batch: 700534

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 700457

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.50	0.20	ng/L		02/21/25 12:00	02/25/25 09:33	1

Lab Sample ID: LCS 400-700457/4-A
Matrix: Water
Analysis Batch: 700534

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 700457

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	4.41		ng/L		88	79 - 121

Lab Sample ID: LCSD 400-700457/5-A
Matrix: Water
Analysis Batch: 700534

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 700457

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	5.00	4.31		ng/L		86	79 - 121	2	20

Lab Sample ID: 280-203061-1 MS
Matrix: Water
Analysis Batch: 700534

Client Sample ID: OUTFALL-001
Prep Type: Total/NA
Prep Batch: 700457

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	1.9		5.00	6.38		ng/L		89	71 - 125

Lab Sample ID: 280-203061-1 MSD
Matrix: Water
Analysis Batch: 700534

Client Sample ID: OUTFALL-001
Prep Type: Total/NA
Prep Batch: 700457

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	1.9		5.00	6.35		ng/L		88	71 - 125	0	24

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 280-685024/1-A
Matrix: Water
Analysis Batch: 685200

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 685024

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		100	40	ug/L		02/18/25 08:45	02/18/25 18:23	1

Lab Sample ID: LCS 280-685024/2-A
Matrix: Water
Analysis Batch: 685200

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 685024

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	10000	9930		ug/L		99	85 - 115

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 280-685024/1-A
Matrix: Water
Analysis Batch: 685192

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 685024

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.0	0.50	ug/L		02/18/25 08:45	02/18/25 18:22	1
Cadmium	ND		1.0	0.25	ug/L		02/18/25 08:45	02/18/25 18:22	1
Chromium	ND		3.0	1.0	ug/L		02/18/25 08:45	02/18/25 18:22	1
Copper	ND		2.0	1.0	ug/L		02/18/25 08:45	02/18/25 18:22	1
Lead	ND		1.0	0.50	ug/L		02/18/25 08:45	02/18/25 18:22	1
Zinc	ND		10	5.0	ug/L		02/18/25 08:45	02/18/25 18:22	1

Lab Sample ID: LCS 280-685024/24-A
Matrix: Water
Analysis Batch: 685192

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 685024

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	40.0	40.1		ug/L		100	89 - 111
Cadmium	40.0	41.0		ug/L		102	89 - 111
Chromium	40.0	38.1		ug/L		95	86 - 115
Copper	40.0	38.3		ug/L		96	90 - 115
Lead	40.0	37.7		ug/L		94	88 - 115
Zinc	40.0	40.1		ug/L		100	88 - 115

Lab Sample ID: MB 280-684875/1-B
Matrix: Water
Analysis Batch: 685193

Client Sample ID: Method Blank
Prep Type: Potentially Dissolved
Prep Batch: 684946

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.0	0.50	ug/L		02/17/25 19:53	02/18/25 13:05	1
Cadmium	ND		1.0	0.25	ug/L		02/17/25 19:53	02/18/25 13:05	1
Chromium	ND		3.0	1.0	ug/L		02/17/25 19:53	02/18/25 13:05	1
Copper	ND		2.0	1.0	ug/L		02/17/25 19:53	02/18/25 13:05	1
Lead	ND		1.0	0.50	ug/L		02/17/25 19:53	02/18/25 13:05	1
Manganese	ND		3.0	1.5	ug/L		02/17/25 19:53	02/18/25 13:05	1
Nickel	ND		3.0	1.0	ug/L		02/17/25 19:53	02/18/25 13:05	1
Selenium	ND		2.0	0.50	ug/L		02/17/25 19:53	02/18/25 13:05	1
Silver	ND		0.50	0.25	ug/L		02/17/25 19:53	02/18/25 13:05	1
Zinc	ND		10	5.0	ug/L		02/17/25 19:53	02/18/25 13:05	1

Lab Sample ID: LCS 280-684875/2-B
Matrix: Water
Analysis Batch: 685193

Client Sample ID: Lab Control Sample
Prep Type: Potentially Dissolved
Prep Batch: 684946

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	40.0	41.2		ug/L		103	89 - 111
Cadmium	40.0	41.8		ug/L		105	89 - 111
Chromium	40.0	40.2		ug/L		101	86 - 115
Copper	40.0	40.3		ug/L		101	90 - 115
Lead	40.0	40.0		ug/L		100	88 - 115
Manganese	40.0	39.8		ug/L		99	87 - 115
Nickel	40.0	40.5		ug/L		101	86 - 115
Selenium	40.0	41.7		ug/L		104	85 - 114
Silver	40.0	40.2		ug/L		101	90 - 114

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

Lab Sample ID: LCS 280-684875/2-B
Matrix: Water
Analysis Batch: 685193

Client Sample ID: Lab Control Sample
Prep Type: Potentially Dissolved
Prep Batch: 684946

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	40.0	41.6		ug/L		104	88 - 115

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 280-685154/1-A
Matrix: Water
Analysis Batch: 685300

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685154

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		02/18/25 17:05	02/18/25 23:12	1

Lab Sample ID: LCS 280-685154/2-A
Matrix: Water
Analysis Batch: 685300

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685154

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	4.42		ug/L		88	85 - 115

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: MB 280-685004/4
Matrix: Water
Analysis Batch: 685004

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			02/17/25 14:28	1

Lab Sample ID: LCS 280-685004/3
Matrix: Water
Analysis Batch: 685004

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	1440		umhos/cm		102	90 - 110

Lab Sample ID: 280-203061-1 DU
Matrix: Water
Analysis Batch: 685004

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

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Specific Conductance	250		244		umhos/cm		0.6	10

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

Lab Sample ID: MB 280-685101/1
Matrix: Water
Analysis Batch: 685101

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	1.5	mg/L			02/18/25 11:18	1

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

Lab Sample ID: LCS 280-685101/2
Matrix: Water
Analysis Batch: 685101

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Suspended Solids			504	500		mg/L		99	79 - 114		

Method: SM 3500 CR B - Chromium, Hexavalent

Lab Sample ID: MB 280-684724/19
Matrix: Water
Analysis Batch: 684724

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	9.27	J	20	5.0	ug/L			02/13/25 18:31	1

Lab Sample ID: LCS 280-684724/17
Matrix: Water
Analysis Batch: 684724

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chromium, hexavalent			100	102		ug/L		102	85 - 115		

Lab Sample ID: LCSD 280-684724/18
Matrix: Water
Analysis Batch: 684724

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			100	109		ug/L		109	85 - 115	7	20

Lab Sample ID: 280-203061-1 MS
Matrix: Water
Analysis Batch: 684724

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		100	104		ug/L		104	85 - 115		

Lab Sample ID: 280-203061-1 MSD
Matrix: Water
Analysis Batch: 684724

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		100	103		ug/L		103	85 - 115	1	20

Lab Sample ID: 280-203061-1 DU
Matrix: Water
Analysis Batch: 684724

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		20.6		ug/L				NC	20

Method: SM 3500 CR B - Chromium, Hexavalent (Continued)

Lab Sample ID: MB 280-684719/3-A
Matrix: Water
Analysis Batch: 684724

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		20	5.0	ug/L			02/13/25 18:16	1

Lab Sample ID: LCS 280-684719/1-A
Matrix: Water
Analysis Batch: 684724

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chromium, hexavalent			100	101		ug/L		101	85 - 115		

Lab Sample ID: LCSD 280-684719/2-A
Matrix: Water
Analysis Batch: 684724

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			100	102		ug/L		102	85 - 115	0	20

Lab Sample ID: 280-203061-1 MS
Matrix: Water
Analysis Batch: 684724

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		100	104		ug/L		104	85 - 115		

Lab Sample ID: 280-203061-1 MSD
Matrix: Water
Analysis Batch: 684724

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		100	104		ug/L		104	85 - 115	0	20

Lab Sample ID: 280-203061-1 DU
Matrix: Water
Analysis Batch: 684724

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		ug/L				NC	20

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 280-684857/4
Matrix: Water
Analysis Batch: 684857

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
pH adj. to 25 deg C			7.00	7.0		SU		100	99 - 101		

Method: SM 4500 S2 D - Sulfide, Total

Lab Sample ID: MB 280-684997/11
Matrix: Water
Analysis Batch: 684997

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	0.035	mg/L			02/17/25 12:04	1

Lab Sample ID: LCS 280-684997/9
Matrix: Water
Analysis Batch: 684997

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	0.544		mg/L		109	81 - 122		

Lab Sample ID: LCSD 280-684997/10
Matrix: Water
Analysis Batch: 684997

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	0.548		mg/L		110	81 - 122	1	10

Metals

Filtration Batch: 684731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-203061-1	OUTFALL-001	Potentially Dissolvec	Water	Poten_Diss_Met	

Filtration Batch: 684875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-684875/1-B	Method Blank	Potentially Dissolvec	Water	Filtration	
LCS 280-684875/2-B	Lab Control Sample	Potentially Dissolvec	Water	Filtration	

Prep Batch: 684946

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-203061-1	OUTFALL-001	Potentially Dissolvec	Water	200.8	684731
MB 280-684875/1-B	Method Blank	Potentially Dissolvec	Water	200.8	684875
LCS 280-684875/2-B	Lab Control Sample	Potentially Dissolvec	Water	200.8	684875

Prep Batch: 685024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-203061-1	OUTFALL-001	Total Recoverable	Water	200.8	
MB 280-685024/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-685024/24-A	Lab Control Sample	Total Recoverable	Water	200.8	
LCS 280-685024/2-A	Lab Control Sample	Total Recoverable	Water	200.8	

Prep Batch: 685154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-203061-1	OUTFALL-001	Total/NA	Water	245.1	
MB 280-685154/1-A	Method Blank	Total/NA	Water	245.1	
LCS 280-685154/2-A	Lab Control Sample	Total/NA	Water	245.1	

Analysis Batch: 685192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-203061-1	OUTFALL-001	Total Recoverable	Water	200.8	685024
MB 280-685024/1-A	Method Blank	Total Recoverable	Water	200.8	685024
LCS 280-685024/24-A	Lab Control Sample	Total Recoverable	Water	200.8	685024

Analysis Batch: 685193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-203061-1	OUTFALL-001	Potentially Dissolvec	Water	200.8	684946
MB 280-684875/1-B	Method Blank	Potentially Dissolvec	Water	200.8	684946
LCS 280-684875/2-B	Lab Control Sample	Potentially Dissolvec	Water	200.8	684946

Analysis Batch: 685200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-203061-1	OUTFALL-001	Total Recoverable	Water	200.7 Rev 4.4	685024
MB 280-685024/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	685024
LCS 280-685024/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	685024

Analysis Batch: 685300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-203061-1	OUTFALL-001	Total/NA	Water	245.1	685154
MB 280-685154/1-A	Method Blank	Total/NA	Water	245.1	685154
LCS 280-685154/2-A	Lab Control Sample	Total/NA	Water	245.1	685154

QC Association Summary

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

Job ID: 280-203061-1

Metals

Prep Batch: 700457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-203061-1	OUTFALL-001	Total/NA	Water	1631E	
MB 400-700457/3-A	Method Blank	Total/NA	Water	1631E	
LCS 400-700457/4-A	Lab Control Sample	Total/NA	Water	1631E	
LCSD 400-700457/5-A	Lab Control Sample Dup	Total/NA	Water	1631E	
280-203061-1 MS	OUTFALL-001	Total/NA	Water	1631E	
280-203061-1 MSD	OUTFALL-001	Total/NA	Water	1631E	

Analysis Batch: 700534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-203061-1	OUTFALL-001	Total/NA	Water	1631E	700457
MB 400-700457/3-A	Method Blank	Total/NA	Water	1631E	700457
LCS 400-700457/4-A	Lab Control Sample	Total/NA	Water	1631E	700457
LCSD 400-700457/5-A	Lab Control Sample Dup	Total/NA	Water	1631E	700457
280-203061-1 MS	OUTFALL-001	Total/NA	Water	1631E	700457
280-203061-1 MSD	OUTFALL-001	Total/NA	Water	1631E	700457

General Chemistry

Filtration Batch: 684719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-203061-1	OUTFALL-001	Dissolved	Water	FILTRATION	
MB 280-684719/3-A	Method Blank	Dissolved	Water	FILTRATION	
LCS 280-684719/1-A	Lab Control Sample	Dissolved	Water	FILTRATION	
LCSD 280-684719/2-A	Lab Control Sample Dup	Dissolved	Water	FILTRATION	
280-203061-1 MS	OUTFALL-001	Dissolved	Water	FILTRATION	
280-203061-1 MSD	OUTFALL-001	Dissolved	Water	FILTRATION	
280-203061-1 DU	OUTFALL-001	Dissolved	Water	FILTRATION	

Analysis Batch: 684724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-203061-1	OUTFALL-001	Dissolved	Water	SM 3500 CR B	684719
280-203061-1	OUTFALL-001	Total/NA	Water	SM 3500 CR B	
MB 280-684719/3-A	Method Blank	Dissolved	Water	SM 3500 CR B	684719
MB 280-684724/19	Method Blank	Total/NA	Water	SM 3500 CR B	
LCS 280-684719/1-A	Lab Control Sample	Dissolved	Water	SM 3500 CR B	684719
LCS 280-684724/17	Lab Control Sample	Total/NA	Water	SM 3500 CR B	
LCSD 280-684719/2-A	Lab Control Sample Dup	Dissolved	Water	SM 3500 CR B	684719
LCSD 280-684724/18	Lab Control Sample Dup	Total/NA	Water	SM 3500 CR B	
280-203061-1 MS	OUTFALL-001	Dissolved	Water	SM 3500 CR B	684719
280-203061-1 MS	OUTFALL-001	Total/NA	Water	SM 3500 CR B	
280-203061-1 MSD	OUTFALL-001	Dissolved	Water	SM 3500 CR B	684719
280-203061-1 MSD	OUTFALL-001	Total/NA	Water	SM 3500 CR B	
280-203061-1 DU	OUTFALL-001	Dissolved	Water	SM 3500 CR B	684719
280-203061-1 DU	OUTFALL-001	Total/NA	Water	SM 3500 CR B	

Analysis Batch: 684857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-203061-1	OUTFALL-001	Total/NA	Water	SM 4500 H+ B	
LCS 280-684857/4	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

QC Association Summary

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

Job ID: 280-203061-1

General Chemistry

Analysis Batch: 684904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-203061-1	OUTFALL-001	Total/NA	Water	SM4500 S2 H	

Analysis Batch: 684997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-203061-1	OUTFALL-001	Total/NA	Water	SM 4500 S2 D	
MB 280-684997/11	Method Blank	Total/NA	Water	SM 4500 S2 D	
LCS 280-684997/9	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
LCSD 280-684997/10	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 D	

Analysis Batch: 685004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-203061-1	OUTFALL-001	Total/NA	Water	SM 2510B	
MB 280-685004/4	Method Blank	Total/NA	Water	SM 2510B	
LCS 280-685004/3	Lab Control Sample	Total/NA	Water	SM 2510B	
280-203061-1 DU	OUTFALL-001	Total/NA	Water	SM 2510B	

Analysis Batch: 685101

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-203061-1	OUTFALL-001	Total/NA	Water	SM 2540D	
MB 280-685101/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 280-685101/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 685583

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-203061-1	OUTFALL-001	Potentially Dissolvec	Water	SM3500 CR B	
280-203061-1	OUTFALL-001	Total Recoverable	Water	SM3500 CR B	

Lab Chronicle

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

Job ID: 280-203061-1

Client Sample ID: OUTFALL-001

Date Collected: 02/13/25 12:15
Date Received: 02/13/25 16:32

Lab Sample ID: 280-203061-1

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	700457	02/20/25 15:45	VLC	EET PEN
							Completed:	02/21/25 08:45 [1]		
Total/NA	Analysis	1631E		1			700534	02/25/25 11:52	VLC	EET PEN
Total Recoverable	Prep	200.8			50 mL	50 mL	685024	02/18/25 08:45	AMH	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			685200	02/18/25 18:30	ADL	EET DEN
Potentially Dissolvec	Filtration	Poten_Diss_Met			200 mL	200 mL	684731	02/13/25 19:22	SMK	EET DEN
Potentially Dissolvec	Prep	200.8			50 mL	50 mL	684946	02/17/25 19:53	RMS	EET DEN
Potentially Dissolvec	Analysis	200.8		1			685193	02/18/25 13:22	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	685024	02/18/25 08:45	AMH	EET DEN
Total Recoverable	Analysis	200.8		1			685192	02/18/25 18:29	LMT	EET DEN
Total/NA	Prep	245.1			30 mL	50 mL	685154	02/18/25 17:05	CAF	EET DEN
Total/NA	Analysis	245.1		1			685300	02/18/25 23:55	AES	EET DEN
Total/NA	Analysis	SM 2510B		1			685004	02/17/25 14:28	EL	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	685101	02/18/25 11:18	BRD	EET DEN
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	684719	02/13/25 17:54	ABW	EET DEN
Dissolved	Analysis	SM 3500 CR B		1	2 mL	2 mL	684724	02/13/25 18:16	ABW	EET DEN
Total/NA	Analysis	SM 3500 CR B		1	2 mL	2 mL	684724	02/13/25 18:32	ABW	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			684857	02/14/25 14:54	EL	EET DEN
Total/NA	Analysis	SM 4500 S2 D		1	2 mL	2 mL	684997	02/17/25 12:07	ABW	EET DEN
Potentially Dissolvec	Analysis	SM3500 CR B		1			685583	02/21/25 15:48	RMS	EET DEN
Total Recoverable	Analysis	SM3500 CR B		1			685583	02/21/25 15:48	RMS	EET DEN
Total/NA	Analysis	SM4500 S2 H		1			684904	02/16/25 20:13	C1A	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: 280-203061-1

Laboratory: Eurofins Denver

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	4025	01-08-26

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
SM 4500 H+ B		Water	Temperature
SM3500 CR B		Water	Chromium, trivalent
SM3500 CR B		Water	Chromium, trivalent (dissolved)
SM4500 S2 H		Water	Field pH
SM4500 S2 H		Water	Field Temperature
SM4500 S2 H		Water	Specific Conductance
SM4500 S2 H		Water	Sulfide
SM4500 S2 H		Water	Un-ionized Hydrogen Sulfide

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	06-30-25
ANAB	ISO/IEC 17025	L2471	02-22-26
Arkansas DEQ	State	88-00689	08-01-25
California	State	2510	06-30-25
Florida	NELAP	E81010	06-30-25
Georgia	State	E81010(FL)	06-30-25
Illinois	NELAP	200041	10-09-25
Kansas	NELAP	E-10253	10-31-25
Kentucky (UST)	State	53	06-30-25
Louisiana (All)	NELAP	30976	06-30-25
Louisiana (DW)	State	LA017	12-31-25
North Carolina (WW/SW)	State	314	12-31-25
Oklahoma	NELAP	9810	08-31-25
Pennsylvania	NELAP	68-00467	01-31-26
South Carolina	State	96026	06-30-25
Tennessee	State	TN02907	06-30-25
Texas	NELAP	T104704286	09-30-25
US Fish & Wildlife	US Federal Programs	A22340	06-30-25
USDA	US Federal Programs	FLGNV23001	01-08-26
USDA	US Federal Programs	P330-21-00056	01-09-26
Virginia	NELAP	460166	06-14-25
West Virginia DEP	State	136	03-31-25

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: Lauren Lopez	Lab PM: Bieniulis, Dylan T	Carrier Tracking No(s):	COC No:
Client Contact: John Rinko	Phone: 720 649 7722	E-Mail: Dylan.Bieniulis@et.eurofinsus.com	State of Origin:	Page:
Company: Grand Island Resources	PWSID:			Job #:

Address: 12567 West Cedar Drive Suite 110	Due Date Requested:
City: Lakewood	TAT Requested (days):
State, Zip: CO, 80228	Compliance Project: Δ Yes Δ No
Phone: (303) 601-9230	PO #:
Email: johnrinko@yahoo.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 Cr6+, 3500_CR_B - Diss. Cr6+ (LAB FILTER), TR Cr 3+ (calc), & PD Cr 3+ (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	CB	N	D	D		
OUTFALL-001	02/13/25	12:15	G	W	N	N	X	X	X	X	X	X	8	*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)
														Lab - log both 3500 CR B Hexavalent Chromium method chains
														Temp= 3°C
														pH= 7.9
														Observed visible sheen or floating oil?
														Yes (No) (circle one)
														*If oil sheen observed in discharge, sampling for O&G and grease required.

280-203061 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
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by: Lauren Lopez	Date/Time: 02/13/2025 4:32	Company GIR	Received by:	Date/Time: 2-13-25 1632	Company EGI-DEN

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

Cooler Temperature(s) °C and Other Remarks: 4.1°C NA/ACF0.3

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: N/A	Lab PM: Bieniulis, Dylan T	Carrier Tracking No(s): N/A	COC No: 280-734479.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Dylan.Bieniulis@et.eurofinsus.com	State of Origin: Colorado	Page: Page 1 of 1
Company: Eurofins Environment Testing Southeast L		Accreditations Required (See note): NELAP - Oregon		Job #: 280-203061-1
Address: 3355 McLemore Drive, ,	Due Date Requested: 2/26/2025			Preservation Codes: -
City: Pensacola	TAT Requested (days): N/A			
State, Zip: FL, 32514				
Phone: 850-474-1001(Tel) 850-478-2671(Fax)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: Nederland, CO	Project #: 28022821			
Site: N/A	SSOW#: N/A			Other: N/A

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-001 (280-203061-1)	2/13/25	12:15 Mountain	G	Water			X	3	

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
Natalie Cameron	2-14-25 14:41	eurofins			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: BP	Date/Time: 2/15/25 906	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.0°C IR4

Ver: 10/10/2024

2/25/2025

...using this tag.

eurofins | Environment Testing TestAmerica

Part # 159469-434 MTW EXP 09/25

ORIGIN ID:WHHA (303) 736-0100
BOTTLE PREP
EUROFINS TESTAMERICA DENVER
4955 YARROW ST

ARVADA, CO 80002
UNITED STATES US

CLOSED - 500

TO SHIPPING/RECEIVING
EUROFINS ENVIRONMENT TESTING SOUTHE
3355 MCLEMORE DRIVE

PENSACOLA FL 32514
(850) 474-1001 REF: 8280-148125
PO: YES DEPT: BOTTLE PREP

589C4/26DE/FE2D

FedEx Express E

J243024070401uv

TRK# 0201 4230 6424 5975

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO PNSA

32514
FL-US BFM

Login Sample Receipt Checklist

Client: Grand Island Resources

Job Number: 280-203061-1

Login Number: 203061
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.	N/A	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	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: 280-203061-1

Login Number: 203061
List Number: 2
Creator: Pardonner, Brett

List Source: Eurofins Pensacola
List Creation: 02/15/25 01:12 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.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	0.0°C IR8
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 3/7/2025 10:41:00 AM

JOB DESCRIPTION

Nederland, CO

JOB NUMBER

280-203668-1

Eurofins Denver
4955 Yarrow Street
Arvada CO 80002

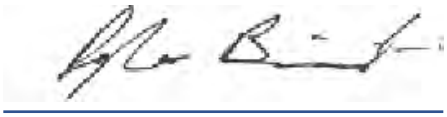
See page two for job notes and contact information.

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
3/7/2025 10:41:00 AM

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: 280-203668-1

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 ID: 280-203668-1 — Eurofins Denver

Job Narrative
280-203668-1

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 and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided 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 2/28/2025 2:38 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 4.2°C.

Receipt Exceptions
The sample collection time was not recorded on the sample containers received. Logged per the COC: OUTFALL 001 (280-203668-1).

Method 200.8 - Metals (ICP/MS) - Potentially Dissolved
Sample OUTFALL 001 (280-203668-1) was analyzed for Metals (ICP/MS) - Potentially Dissolved. The sample was prepared on 3/5/2025 and analyzed on 3/5/2025 and 3/6/2025.

Method 200.8 - Metals (ICP/MS) - Total Recoverable
Sample OUTFALL 001 (280-203668-1) was analyzed for Metals (ICP/MS) - Total Recoverable. The sample was prepared and analyzed on 3/3/2025.

Detection Summary

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

Job ID: 280-203668-1

Client Sample ID: OUTFALL 001

Lab Sample ID: 280-203668-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	27		10	5.0	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: 280-203668-1

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: 280-203668-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-203668-1	OUTFALL 001	Water	02/28/25 11:00	02/28/25 14:38

Client Sample Results

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

Job ID: 280-203668-1

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

Client Sample ID: OUTFALL 001
Date Collected: 02/28/25 11:00
Date Received: 02/28/25 14:38

Lab Sample ID: 280-203668-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		2.0	1.0	ug/L		03/03/25 08:51	03/03/25 21:39	1
Lead	ND		1.0	0.50	ug/L		03/03/25 08:51	03/03/25 21:39	1

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

Client Sample ID: OUTFALL 001
Date Collected: 02/28/25 11:00
Date Received: 02/28/25 14:38

Lab Sample ID: 280-203668-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		1.0	0.25	ug/L		03/05/25 08:41	03/05/25 16:22	1
Copper	ND		2.0	1.0	ug/L		03/05/25 08:41	03/05/25 16:22	1
Lead	ND		1.0	0.50	ug/L		03/05/25 08:41	03/05/25 16:22	1
Silver	ND		0.50	0.25	ug/L		03/05/25 08:41	03/05/25 16:22	1
Zinc	**27**		10	5.0	ug/L		03/05/25 08:41	03/06/25 10:40	1

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 280-686305/1-A
Matrix: Water
Analysis Batch: 686482

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 686305

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		2.0	1.0	ug/L		03/03/25 08:51	03/03/25 21:06	1
Lead	ND		1.0	0.50	ug/L		03/03/25 08:51	03/03/25 21:06	1

Lab Sample ID: LCS 280-686305/2-A
Matrix: Water
Analysis Batch: 686482

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 686305

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Copper	40.0	36.3		ug/L		91	90 - 115
Lead	40.0	40.0		ug/L		100	88 - 115

Lab Sample ID: LCSD 280-686305/3-A
Matrix: Water
Analysis Batch: 686482

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 686305

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Copper	40.0	36.5		ug/L		91	90 - 115	1	20
Lead	40.0	40.7		ug/L		102	88 - 115	2	20

Lab Sample ID: MB 280-686447/1-B
Matrix: Water
Analysis Batch: 686785

Client Sample ID: Method Blank
Prep Type: Potentially Dissolved
Prep Batch: 686523

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		1.0	0.25	ug/L		03/05/25 08:41	03/05/25 15:45	1
Copper	ND		2.0	1.0	ug/L		03/05/25 08:41	03/05/25 15:45	1
Lead	ND		1.0	0.50	ug/L		03/05/25 08:41	03/05/25 15:45	1
Silver	ND		0.50	0.25	ug/L		03/05/25 08:41	03/05/25 15:45	1
Zinc	ND		10	5.0	ug/L		03/05/25 08:41	03/05/25 15:45	1

Lab Sample ID: LCS 280-686447/10-B
Matrix: Water
Analysis Batch: 686785

Client Sample ID: Lab Control Sample
Prep Type: Potentially Dissolved
Prep Batch: 686523

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cadmium	40.0	41.6		ug/L		104	89 - 111
Copper	40.0	41.2		ug/L		103	90 - 115
Lead	40.0	40.5		ug/L		101	88 - 115
Silver	40.0	39.8		ug/L		99	90 - 114
Zinc	40.0	43.9		ug/L		110	88 - 115

Metals

Filtration Batch: 686301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-203668-1	OUTFALL 001	Potentially Dissolvec	Water	Poten_Diss_Met	

Prep Batch: 686305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-203668-1	OUTFALL 001	Total Recoverable	Water	200.8	
MB 280-686305/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-686305/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
LCSD 280-686305/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	

Filtration Batch: 686447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-686447/1-B	Method Blank	Potentially Dissolvec	Water	Filtration	
LCS 280-686447/10-B	Lab Control Sample	Potentially Dissolvec	Water	Filtration	

Analysis Batch: 686482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-203668-1	OUTFALL 001	Total Recoverable	Water	200.8	686305
MB 280-686305/1-A	Method Blank	Total Recoverable	Water	200.8	686305
LCS 280-686305/2-A	Lab Control Sample	Total Recoverable	Water	200.8	686305
LCSD 280-686305/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	686305

Prep Batch: 686523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-203668-1	OUTFALL 001	Potentially Dissolvec	Water	200.8	686301
MB 280-686447/1-B	Method Blank	Potentially Dissolvec	Water	200.8	686447
LCS 280-686447/10-B	Lab Control Sample	Potentially Dissolvec	Water	200.8	686447

Analysis Batch: 686785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-203668-1	OUTFALL 001	Potentially Dissolvec	Water	200.8	686523
MB 280-686447/1-B	Method Blank	Potentially Dissolvec	Water	200.8	686523
LCS 280-686447/10-B	Lab Control Sample	Potentially Dissolvec	Water	200.8	686523

Analysis Batch: 686835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-203668-1	OUTFALL 001	Potentially Dissolvec	Water	200.8	686523

Lab Chronicle

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

Job ID: 280-203668-1

Client Sample ID: OUTFALL 001

Date Collected: 02/28/25 11:00
Date Received: 02/28/25 14:38

Lab Sample ID: 280-203668-1

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			50 mL	50 mL	686301	02/28/25 15:24	SLH	EET DEN
Potentially Dissolvec	Prep	200.8			50 mL	50 mL	686523	03/05/25 08:41	SLH	EET DEN
Potentially Dissolvec	Analysis	200.8		1			686785	03/05/25 16:22	LMT	EET DEN
Potentially Dissolvec	Filtration	Poten_Diss_Met			50 mL	50 mL	686301	02/28/25 15:24	SLH	EET DEN
Potentially Dissolvec	Prep	200.8			50 mL	50 mL	686523	03/05/25 08:41	SLH	EET DEN
Potentially Dissolvec	Analysis	200.8		1			686835	03/06/25 10:40	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	686305	03/03/25 08:51	SMK	EET DEN
Total Recoverable	Analysis	200.8		1			686482	03/03/25 21:39	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: 280-203668-1

Laboratory: Eurofins Denver

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	4025	01-08-26

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: John Rinko	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 Drive Suite 110	Due Date Requested:	Analysis Requested
City: Lakewood	TAT Requested (days):	
State, Zip: CO, 80228	Compliance Project: Δ Yes Δ No	
Phone: (303) 601-9230	PO #:	
Email: johnrinko@yahoo.com	WO #:	
Project Name: Nederland, CO	Project #: 28022821	
Site: second half of the month event	SSOW#:	

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	2/28/25	11:00	G	W	N		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 = 5°C
										PH = 7.8
										NO VISIBLE SHEEN OR FLOATING OIL

280-203668 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
[signature]	2/28/25 17:53	GIR	[signature]	2/28/25 12:55	GIR
Relinquished by: [signature]	Date/Time: 2/28/25 14:38	Company GIR	Received by: [signature]	Date/Time: 2/28/25 1438	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: 3.9°C NAC/ACFO 3

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Grand Island Resources

Job Number: 280-203668-1

Login Number: 203668
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.	N/A	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	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 3/25/2025 4:01:34 PM

JOB DESCRIPTION

Nederland, CO

JOB NUMBER

280-204343-1

Eurofins Denver
4955 Yarrow Street
Arvada CO 80002

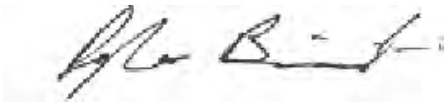
See page two for job notes and contact information.

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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3/25/2025 4:01:34 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: 280-204343-1

Qualifiers

General Chemistry

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.
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
280-204343-1

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 and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided 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 3/13/2025 3:43 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 2.4°C.

Method 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable
Sample OUTFALL-001 (280-204343-1) was analyzed for Metals (ICP) - Total Recoverable. The sample was prepared on 3/14/2025 and analyzed on 3/18/2025.

Method 200.8 - Metals (ICP/MS) - Potentially Dissolved
Sample OUTFALL-001 (280-204343-1) was analyzed for Metals (ICP/MS) - Potentially Dissolved. The sample was prepared and analyzed on 3/17/2025.

Method 200.8 - Metals (ICP/MS) - Total Recoverable
Sample OUTFALL-001 (280-204343-1) was analyzed for Metals (ICP/MS) - Total Recoverable. The sample was prepared on 3/14/2025 and analyzed on 3/17/2025.

Method 245.1 - Mercury (CVAA)
Sample OUTFALL-001 (280-204343-1) was analyzed for Mercury (CVAA). The sample was prepared on 3/21/2025 and analyzed on 3/17/2025 and 3/21/2025.

Method SM 2510B - Conductivity, Specific Conductance
Sample OUTFALL-001 (280-204343-1) was analyzed for Conductivity, Specific Conductance. The sample was analyzed on 3/24/2025.

Method SM 2540D - Solids, Total Suspended (TSS)
Sample OUTFALL-001 (280-204343-1) was analyzed for Solids, Total Suspended (TSS). The sample was analyzed on 3/19/2025.

Method SM 3500 CR B - Chromium, Hexavalent
Sample OUTFALL-001 (280-204343-1) was analyzed for Chromium, Hexavalent. The sample was analyzed on 3/13/2025.

The following samples in batch 687688 are associated with high failing quality control (QC) samples: OUTFALL-001 (280-204343-1), (CCB 280-687688/16), (CCB1 280-687688/21), (CCB1 280-687688/22), (CCB2 280-687688/31), (CCV 280-687688/15), (CCV1 280-687688/19), (CCV1 280-687688/20), (CCV2 280-687688/30), (ICB 280-687688/7), (ICV 280-687688/6), (LCS 280-687683/1-A), (LCS 280-687688/23), (LCSD 280-687683/2-A), (LCSD 280-687688/24), (MB

280-687683/3-A), (MB 280-687688/25), (280-204343-E-1 DU), (280-204343-E-1 MS) and (280-204343-E-1 MSD). The initial calibration verification (ICV) and continuing calibration verification (CCV) failed above the upper control limit. All associated samples are a non-detect, therefore, data is being qualified and reported.

Method SM 3500 CR B - Chromium, Hexavalent - Dissolved
Sample OUTFALL-001 (280-204343-1) was analyzed for Chromium, Hexavalent - Dissolved. The sample was analyzed on 3/13/2025.

The following samples in batch 687688 are associated with high failing quality control (QC) samples: OUTFALL-001 (280-204343-1), (CCB 280-687688/16), (CCB1 280-687688/21), (CCB1 280-687688/22), (CCB2 280-687688/31), (CCV 280-687688/15), (CCV1 280-687688/19), (CCV1 280-687688/20), (CCV2 280-687688/30), (ICB 280-687688/7), (ICV 280-687688/6), (LCS 280-687683/1-A), (LCS 280-687688/23), (LCSD 280-687683/2-A), (LCSD 280-687688/24), (MB 280-687683/3-A), (MB 280-687688/25), (280-204343-E-1 DU), (280-204343-E-1 MS) and (280-204343-E-1 MSD). The initial calibration verification (ICV) and continuing calibration verification (CCV) failed above the upper control limit. All associated samples are a non-detect, therefore, data is being qualified and reported.

Method SM3500 CR B - Chromium, Trivalent - Potentially Dissolved
Sample OUTFALL-001 (280-204343-1) was analyzed for Chromium, Trivalent - Potentially Dissolved. The sample was analyzed on 3/17/2025 and 3/25/2025.

Method SM3500 CR B - Chromium, Trivalent - Total Recoverable
Sample OUTFALL-001 (280-204343-1) was analyzed for Chromium, Trivalent - Total Recoverable. The sample was analyzed on 3/25/2025.

Method SM 4500 H+ B - pH
Sample OUTFALL-001 (280-204343-1) was analyzed for pH. The sample was analyzed on 3/21/2025.

Method SM 4500 S2 D - Sulfide, Total
Sample OUTFALL-001 (280-204343-1) was analyzed for Sulfide, Total. The sample was analyzed on 3/17/2025.

Method SM4500 S2 H - Unionized Hydrogen Sulfide
Sample OUTFALL-001 (280-204343-1) was analyzed for Unionized Hydrogen Sulfide. The sample was analyzed on 3/19/2025.

Detection Summary

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

Job ID: 280-204343-1

Client Sample ID: OUTFALL-001 — Lab Sample ID: 280-204343-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	12		10	5.0	ug/L	1		200.8	Total Recoverable
Zinc	19		10	5.0	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	8.0	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Temperature	22.1	HF	1.0	1.0	Degrees C	1		SM 4500 H+ B	Total/NA
Field pH	8.0		1.0	1.0	SU	1		SM4500 S2 H	Total/NA
Field Temperature	22		1.0	1.0	Celsius	1		SM4500 S2 H	Total/NA
Specific Conductance	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: 280-204343-1

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: 280-204343-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-204343-1	OUTFALL-001	Water	03/13/25 11:30	03/13/25 15:43

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

Client Sample ID: OUTFALL-001
Date Collected: 03/13/25 11:30
Date Received: 03/13/25 15:43

Lab Sample ID: 280-204343-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		100	40	ug/L		03/14/25 15:13	03/18/25 06:15	1

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

Client Sample ID: OUTFALL-001
Date Collected: 03/13/25 11:30
Date Received: 03/13/25 15:43

Lab Sample ID: 280-204343-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.0	0.50	ug/L		03/14/25 15:13	03/17/25 10:32	1
Cadmium	ND		1.0	0.25	ug/L		03/14/25 15:13	03/17/25 10:32	1
Chromium	ND		3.0	1.0	ug/L		03/14/25 15:13	03/17/25 10:32	1
Copper	ND		2.0	1.0	ug/L		03/14/25 15:13	03/17/25 10:32	1
Lead	ND		1.0	0.50	ug/L		03/14/25 15:13	03/17/25 10:32	1
Zinc	**12**		10	5.0	ug/L		03/14/25 15:13	03/17/25 10:32	1

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

Client Sample ID: OUTFALL-001
Date Collected: 03/13/25 11:30
Date Received: 03/13/25 15:43

Lab Sample ID: 280-204343-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.0	0.50	ug/L		03/17/25 08:51	03/17/25 18:05	1
Cadmium	ND		1.0	0.25	ug/L		03/17/25 08:51	03/17/25 18:05	1
Chromium	ND		3.0	1.0	ug/L		03/17/25 08:51	03/17/25 18:05	1
Copper	ND		2.0	1.0	ug/L		03/17/25 08:51	03/17/25 18:05	1
Lead	ND		1.0	0.50	ug/L		03/17/25 08:51	03/17/25 18:05	1
Manganese	ND		3.0	1.5	ug/L		03/17/25 08:51	03/17/25 18:05	1
Nickel	ND		3.0	1.0	ug/L		03/17/25 08:51	03/17/25 18:05	1
Selenium	ND		2.0	0.50	ug/L		03/17/25 08:51	03/17/25 18:05	1
Silver	ND		0.50	0.25	ug/L		03/17/25 08:51	03/17/25 18:05	1
Zinc	**19**		10	5.0	ug/L		03/17/25 08:51	03/17/25 18:05	1

Method: EPA 245.1 - Mercury (CVAA)

Client Sample ID: OUTFALL-001
Date Collected: 03/13/25 11:30
Date Received: 03/13/25 15:43

Lab Sample ID: 280-204343-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		03/21/25 10:57	03/21/25 17:04	1

General Chemistry

Client Sample ID: OUTFALL-001
Date Collected: 03/13/25 11:30
Date Received: 03/13/25 15:43

Lab Sample ID: 280-204343-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (SM 2510B)	**240**		2.0	2.0	umhos/cm			03/24/25 14:41	1
Total Suspended Solids (SM 2540D)	ND		4.0	1.5	mg/L			03/19/25 10:26	1
Chromium, hexavalent (SM 3500 CR B)	ND	^1+ ^+	20	5.0	ug/L			03/13/25 16:55	1
pH adj. to 25 deg C (SM 4500 H+ B	**8.0**	**HF**	0.1	0.1	SU			03/21/25 15:57	1
Temperature (SM 4500 H+ B)	**22.1**	**HF**	1.0	1.0	Degrees C			03/21/25 15:57	1

General Chemistry (Continued)

Client Sample ID: OUTFALL-001
Date Collected: 03/13/25 11:30
Date Received: 03/13/25 15:43

Lab Sample ID: 280-204343-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 D)	ND		0.050	0.035	mg/L			03/17/25 12:48	1
Un-ionized Hydrogen Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			03/19/25 01:55	1
Field pH (SM4500 S2 H)	**8.0**		1.0	1.0	SU			03/19/25 01:55	1
Field Temperature (SM4500 S2 H)	**22**		1.0	1.0	Celsius			03/19/25 01:55	1
Specific Conductance (SM4500 S2 H)	**240**		2.0	2.0	umhos/cm			03/19/25 01:55	1
Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			03/19/25 01:55	1

General Chemistry - Total Recoverable

Client Sample ID: OUTFALL-001
Date Collected: 03/13/25 11:30
Date Received: 03/13/25 15:43

Lab Sample ID: 280-204343-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, trivalent (SM3500 CR B)	ND		3.0	3.0	ug/L			03/25/25 13:46	1

General Chemistry - Dissolved

Client Sample ID: OUTFALL-001
Date Collected: 03/13/25 11:30
Date Received: 03/13/25 15:43

Lab Sample ID: 280-204343-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent (SM 3500 CR B)	ND	^1+ ^+	20	5.0	ug/L			03/13/25 16:51	1

General Chemistry - Potentially Dissolved

Client Sample ID: OUTFALL-001
Date Collected: 03/13/25 11:30
Date Received: 03/13/25 15:43

Lab Sample ID: 280-204343-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, trivalent (dissolved) (SM3500 CR B)	ND		3.0	3.0	ug/L			03/25/25 13:46	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 280-687687/1-A
Matrix: Water
Analysis Batch: 688118

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 687687

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		100	40	ug/L		03/14/25 15:13	03/18/25 05:48	1

Lab Sample ID: LCS 280-687687/2-A
Matrix: Water
Analysis Batch: 688118

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 687687

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	10000	9750		ug/L		97	85 - 115

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 280-687687/1-A
Matrix: Water
Analysis Batch: 687958

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 687687

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.0	0.50	ug/L		03/14/25 15:13	03/17/25 10:13	1
Cadmium	ND		1.0	0.25	ug/L		03/14/25 15:13	03/17/25 10:13	1
Chromium	ND		3.0	1.0	ug/L		03/14/25 15:13	03/17/25 10:13	1
Copper	ND		2.0	1.0	ug/L		03/14/25 15:13	03/17/25 10:13	1
Lead	ND		1.0	0.50	ug/L		03/14/25 15:13	03/17/25 10:13	1
Zinc	ND		10	5.0	ug/L		03/14/25 15:13	03/17/25 10:13	1

Lab Sample ID: LCS 280-687687/24-A
Matrix: Water
Analysis Batch: 687958

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 687687

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	40.0	37.6		ug/L		94	89 - 111
Cadmium	40.0	40.3		ug/L		101	89 - 111
Chromium	40.0	37.9		ug/L		95	86 - 115
Copper	40.0	38.0		ug/L		95	90 - 115
Lead	40.0	40.2		ug/L		100	88 - 115
Zinc	40.0	37.5		ug/L		94	88 - 115

Lab Sample ID: MB 280-687853/1-B
Matrix: Water
Analysis Batch: 688056

Client Sample ID: Method Blank
Prep Type: Potentially Dissolved
Prep Batch: 687854

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.0	0.50	ug/L		03/17/25 08:51	03/17/25 17:39	1
Cadmium	ND		1.0	0.25	ug/L		03/17/25 08:51	03/17/25 17:39	1
Chromium	ND		3.0	1.0	ug/L		03/17/25 08:51	03/17/25 17:39	1
Copper	ND		2.0	1.0	ug/L		03/17/25 08:51	03/17/25 17:39	1
Lead	ND		1.0	0.50	ug/L		03/17/25 08:51	03/17/25 17:39	1
Manganese	ND		3.0	1.5	ug/L		03/17/25 08:51	03/17/25 17:39	1
Nickel	ND		3.0	1.0	ug/L		03/17/25 08:51	03/17/25 17:39	1
Silver	ND		0.50	0.25	ug/L		03/17/25 08:51	03/17/25 17:39	1
Zinc	ND		10	5.0	ug/L		03/17/25 08:51	03/17/25 17:39	1

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

Lab Sample ID: MB 280-687853/1-B
Matrix: Water
Analysis Batch: 688108

Client Sample ID: Method Blank
Prep Type: Potentially Dissolved
Prep Batch: 687854

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		2.0	0.50	ug/L		03/17/25 08:51	03/18/25 10:08	1

Lab Sample ID: LCS 280-687853/2-B
Matrix: Water
Analysis Batch: 688056

Client Sample ID: Lab Control Sample
Prep Type: Potentially Dissolved
Prep Batch: 687854

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	40.0	39.1		ug/L		98	89 - 111
Cadmium	40.0	42.1		ug/L		105	89 - 111
Chromium	40.0	38.2		ug/L		96	86 - 115
Copper	40.0	39.0		ug/L		97	90 - 115
Lead	40.0	38.5		ug/L		96	88 - 115
Manganese	40.0	41.7		ug/L		104	87 - 115
Nickel	40.0	39.5		ug/L		99	86 - 115
Selenium	40.0	41.4		ug/L		104	85 - 114
Silver	40.0	39.8		ug/L		99	90 - 114
Zinc	40.0	38.6		ug/L		96	88 - 115

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 280-688582/1-A
Matrix: Water
Analysis Batch: 688723

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 688582

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		03/21/25 10:57	03/21/25 15:31	1

Lab Sample ID: LCS 280-688582/2-A
Matrix: Water
Analysis Batch: 688723

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 688582

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	5.00		ug/L		100	85 - 115

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: MB 280-688851/4
Matrix: Water
Analysis Batch: 688851

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			03/24/25 14:41	1

Lab Sample ID: LCS 280-688851/3
Matrix: Water
Analysis Batch: 688851

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	1420		umhos/cm		101	90 - 110

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

Lab Sample ID: MB 280-688276/1
Matrix: Water
Analysis Batch: 688276

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	1.5	mg/L			03/19/25 10:26	1

Lab Sample ID: LCS 280-688276/2
Matrix: Water
Analysis Batch: 688276

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			501	498		mg/L		99	79 - 114		

Method: SM 3500 CR B - Chromium, Hexavalent

Lab Sample ID: MB 280-687688/25
Matrix: Water
Analysis Batch: 687688

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	^1+ ^+	20	5.0	ug/L			03/13/25 16:54	1

Lab Sample ID: LCS 280-687688/23
Matrix: Water
Analysis Batch: 687688

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chromium, hexavalent			100	104	^1+ ^+	ug/L		104	85 - 115		

Lab Sample ID: LCSD 280-687688/24
Matrix: Water
Analysis Batch: 687688

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			100	101	^1+ ^+	ug/L		101	85 - 115	4	20

Lab Sample ID: 280-204343-1 MS
Matrix: Water
Analysis Batch: 687688

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	^1+ ^+	100	104	^1+ ^+	ug/L		104	85 - 115		

Lab Sample ID: 280-204343-1 MSD
Matrix: Water
Analysis Batch: 687688

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	^1+ ^+	100	102	^1+ ^+	ug/L		102	85 - 115	2	20

Method: SM 3500 CR B - Chromium, Hexavalent (Continued)

Lab Sample ID: 280-204343-1 DU
Matrix: Water
Analysis Batch: 687688

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	^1+ ^+	ND	^1+ ^+	ug/L		NC	20

Lab Sample ID: MB 280-687683/3-A
Matrix: Water
Analysis Batch: 687688

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND	^1+ ^+	20	5.0	ug/L			03/13/25 16:31	1

Lab Sample ID: LCS 280-687683/1-A
Matrix: Water
Analysis Batch: 687688

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium, hexavalent	100	100	^1+ ^+	ug/L		100	85 - 115

Lab Sample ID: LCSD 280-687683/2-A
Matrix: Water
Analysis Batch: 687688

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	100	99.8	^1+ ^+	ug/L		100	85 - 115	0	20

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 280-688713/4
Matrix: Water
Analysis Batch: 688713

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH adj. to 25 deg C	7.00	7.0		SU		100	99 - 101

Method: SM 4500 S2 D - Sulfide, Total

Lab Sample ID: MB 280-687994/11
Matrix: Water
Analysis Batch: 687994

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	0.035	mg/L			03/17/25 12:47	1

Lab Sample ID: LCS 280-687994/9
Matrix: Water
Analysis Batch: 687994

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	0.486		mg/L		97	81 - 122

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

Lab Sample ID: LCSD 280-687994/10
Matrix: Water
Analysis Batch: 687994

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	0.532		mg/L		106	81 - 122	9	10

Lab Sample ID: 280-204343-1 MS
Matrix: Water
Analysis Batch: 687994

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide	ND		0.500	0.572		mg/L		114	81 - 122		

Lab Sample ID: 280-204343-1 MSD
Matrix: Water
Analysis Batch: 687994

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	ND		0.500	0.612		mg/L		122	81 - 122	7	10

Metals

Prep Batch: 687687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-204343-1	OUTFALL-001	Total Recoverable	Water	200.8	
MB 280-687687/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-687687/24-A	Lab Control Sample	Total Recoverable	Water	200.8	
LCS 280-687687/2-A	Lab Control Sample	Total Recoverable	Water	200.8	

Filtration Batch: 687853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-204343-1	OUTFALL-001	Potentially Dissolvec	Water	Poten_Diss_Met	
MB 280-687853/1-B	Method Blank	Potentially Dissolvec	Water	Poten_Diss_Met	
LCS 280-687853/2-B	Lab Control Sample	Potentially Dissolvec	Water	Poten_Diss_Met	

Prep Batch: 687854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-204343-1	OUTFALL-001	Potentially Dissolvec	Water	200.8	687853
MB 280-687853/1-B	Method Blank	Potentially Dissolvec	Water	200.8	687853
LCS 280-687853/2-B	Lab Control Sample	Potentially Dissolvec	Water	200.8	687853

Analysis Batch: 687958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-204343-1	OUTFALL-001	Total Recoverable	Water	200.8	687687
MB 280-687687/1-A	Method Blank	Total Recoverable	Water	200.8	687687
LCS 280-687687/24-A	Lab Control Sample	Total Recoverable	Water	200.8	687687

Analysis Batch: 688056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-204343-1	OUTFALL-001	Potentially Dissolvec	Water	200.8	687854
MB 280-687853/1-B	Method Blank	Potentially Dissolvec	Water	200.8	687854
LCS 280-687853/2-B	Lab Control Sample	Potentially Dissolvec	Water	200.8	687854

Analysis Batch: 688108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-687853/1-B	Method Blank	Potentially Dissolvec	Water	200.8	687854

Analysis Batch: 688118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-204343-1	OUTFALL-001	Total Recoverable	Water	200.7 Rev 4.4	687687
MB 280-687687/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	687687
LCS 280-687687/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	687687

Prep Batch: 688582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-204343-1	OUTFALL-001	Total/NA	Water	245.1	
MB 280-688582/1-A	Method Blank	Total/NA	Water	245.1	
LCS 280-688582/2-A	Lab Control Sample	Total/NA	Water	245.1	

Analysis Batch: 688723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-204343-1	OUTFALL-001	Total/NA	Water	245.1	688582
MB 280-688582/1-A	Method Blank	Total/NA	Water	245.1	688582
LCS 280-688582/2-A	Lab Control Sample	Total/NA	Water	245.1	688582

General Chemistry

Filtration Batch: 687683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-204343-1	OUTFALL-001	Dissolved	Water	FILTRATION	
MB 280-687683/3-A	Method Blank	Dissolved	Water	FILTRATION	
LCS 280-687683/1-A	Lab Control Sample	Dissolved	Water	FILTRATION	
LCSD 280-687683/2-A	Lab Control Sample Dup	Dissolved	Water	FILTRATION	

Analysis Batch: 687688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-204343-1	OUTFALL-001	Dissolved	Water	SM 3500 CR B	687683
280-204343-1	OUTFALL-001	Total/NA	Water	SM 3500 CR B	
MB 280-687683/3-A	Method Blank	Dissolved	Water	SM 3500 CR B	687683
MB 280-687688/25	Method Blank	Total/NA	Water	SM 3500 CR B	
LCS 280-687683/1-A	Lab Control Sample	Dissolved	Water	SM 3500 CR B	687683
LCS 280-687688/23	Lab Control Sample	Total/NA	Water	SM 3500 CR B	
LCSD 280-687683/2-A	Lab Control Sample Dup	Dissolved	Water	SM 3500 CR B	687683
LCSD 280-687688/24	Lab Control Sample Dup	Total/NA	Water	SM 3500 CR B	
280-204343-1 MS	OUTFALL-001	Total/NA	Water	SM 3500 CR B	
280-204343-1 MSD	OUTFALL-001	Total/NA	Water	SM 3500 CR B	
280-204343-1 DU	OUTFALL-001	Total/NA	Water	SM 3500 CR B	

Analysis Batch: 687994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-204343-1	OUTFALL-001	Total/NA	Water	SM 4500 S2 D	
MB 280-687994/11	Method Blank	Total/NA	Water	SM 4500 S2 D	
LCS 280-687994/9	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
LCSD 280-687994/10	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 D	
280-204343-1 MS	OUTFALL-001	Total/NA	Water	SM 4500 S2 D	
280-204343-1 MSD	OUTFALL-001	Total/NA	Water	SM 4500 S2 D	

Analysis Batch: 688223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-204343-1	OUTFALL-001	Total/NA	Water	SM4500 S2 H	

Analysis Batch: 688276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-204343-1	OUTFALL-001	Total/NA	Water	SM 2540D	
MB 280-688276/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 280-688276/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 688713

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-204343-1	OUTFALL-001	Total/NA	Water	SM 4500 H+ B	
LCS 280-688713/4	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 688851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-204343-1	OUTFALL-001	Total/NA	Water	SM 2510B	
MB 280-688851/4	Method Blank	Total/NA	Water	SM 2510B	
LCS 280-688851/3	Lab Control Sample	Total/NA	Water	SM 2510B	

QC Association Summary

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

Job ID: 280-204343-1

General Chemistry

Analysis Batch: 689001

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-204343-1	OUTFALL-001	Potentially Dissolvec	Water	SM3500 CR B	
280-204343-1	OUTFALL-001	Total Recoverable	Water	SM3500 CR B	

Lab Chronicle

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

Job ID: 280-204343-1

Client Sample ID: OUTFALL-001

Date Collected: 03/13/25 11:30
Date Received: 03/13/25 15:43

Lab Sample ID: 280-204343-1

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	687687	03/14/25 15:13	AMH	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			688118	03/18/25 06:15	ADL	EET DEN
Potentially Dissolvec	Filtration	Poten_Diss_Met			50 mL	50 mL	687853	03/14/25 21:13	CAF	EET DEN
Potentially Dissolvec	Prep	200.8			50 mL	50 mL	687854	03/17/25 08:51	CAF	EET DEN
Potentially Dissolvec	Analysis	200.8		1			688056	03/17/25 18:05	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	687687	03/14/25 15:13	AMH	EET DEN
Total Recoverable	Analysis	200.8		1			687958	03/17/25 10:32	LMT	EET DEN
Total/NA	Prep	245.1			30 mL	50 mL	688582	03/21/25 10:57	AES	EET DEN
Total/NA	Analysis	245.1		1			688723	03/21/25 17:04	AES	EET DEN
Total/NA	Analysis	SM 2510B		1			688851	03/24/25 14:41	EL	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	688276	03/19/25 10:26	BRD	EET DEN
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	687683	03/13/25 16:25	AKF	EET DEN
Dissolved	Analysis	SM 3500 CR B		1	2 mL	2 mL	687688	03/13/25 16:51	ABW	EET DEN
Total/NA	Analysis	SM 3500 CR B		1	2 mL	2 mL	687688	03/13/25 16:55	ABW	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			688713	03/21/25 15:57	EL	EET DEN
Total/NA	Analysis	SM 4500 S2 D		1	2 mL	2 mL	687994	03/17/25 12:48	AKF	EET DEN
Potentially Dissolvec	Analysis	SM3500 CR B		1			689001	03/25/25 13:46	RMS	EET DEN
Total Recoverable	Analysis	SM3500 CR B		1			689001	03/25/25 13:46	RMS	EET DEN
Total/NA	Analysis	SM4500 S2 H		1			688223	03/19/25 01:55	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: 280-204343-1

Laboratory: Eurofins Denver

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	4025	01-08-26

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
SM 4500 H+ B		Water	Temperature
SM3500 CR B		Water	Chromium, trivalent
SM3500 CR B		Water	Chromium, trivalent (dissolved)
SM4500 S2 H		Water	Field pH
SM4500 S2 H		Water	Field Temperature
SM4500 S2 H		Water	Specific Conductance
SM4500 S2 H		Water	Sulfide
SM4500 S2 H		Water	Un-ionized Hydrogen Sulfide

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: Karen Lopez	Lab PM: Bieniulis, Dylan T	Carrier Tracking No(s):	COC No:
Client Contact: John Rinko	Phone: 720 649-7722	E-Mail: Dylan.Bieniulis@et.eurofinsus.com	State of Origin:	Page:
Company: Grand Island Resources	PWSID:			Job #:
Address: 12567 West Cedar Drive Suite 110	Due Date Requested:			
City: Lakewood	TAT Requested (days):			
State, Zip: CO, 80228	Compliance Project: Δ Yes Δ No			
Phone: (303) 601-9230	PO #:			
Email: johnrinko@yahoo.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 Cr6+, 3500_CR_B - Diss. Cr6+ (LAB FILTER), TR Cr 3+ (calc), & PD Cr 3+ (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	CB		D	D									
OUTFALL-001	03/13/2025	11:30 AM	G	W	N	N	X	X	X		X	X									5	*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)
																						Lab - log both 3500 CR B Hexavalent Chromium method chains
																						Temp = 5°C
																						pH = 7.9
																						Observed visible sheen or floating oil? Yes / (No) (Circle one)
																						*If oil sheen observed in discharge, sampling for Oil&Grease is required.

280-204343 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
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by: Karen Lopez	Date/Time: 03/13/25 15:43	Company GIR	Received by:	Date/Time: 3/13/25 1543	Company EETDEN

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

Cooler Temperature(s) °C and Other Remarks: 2.1 c cf 0.3 IR NASA

Ver: 01/16/2019

3/25/2025

Login Sample Receipt Checklist

Client: Grand Island Resources

Job Number: 280-204343-1

Login Number: 204343
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.	N/A	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 4/7/2025 10:12:00 AM

JOB DESCRIPTION

Nederland, CO

JOB NUMBER

280-205111-1

Eurofins Denver
4955 Yarrow Street
Arvada CO 80002

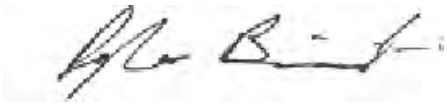
See page two for job notes and contact information.

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: 280-205111-1

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
280-205111-1

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 and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided 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 3/28/2025 3:09 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 2.4°C.

Method 200.8 - Metals (ICP/MS) - Potentially Dissolved
Sample OUTFALL-001 (280-205111-1) was analyzed for Metals (ICP/MS) - Potentially Dissolved. The sample was prepared on 4/3/2025 and analyzed on 4/4/2025.

Method 200.8 - Metals (ICP/MS) - Total Recoverable
Sample OUTFALL-001 (280-205111-1) was analyzed for Metals (ICP/MS) - Total Recoverable. The sample was prepared on 4/1/2025 and analyzed on 4/2/2025.

Detection Summary

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

Job ID: 280-205111-1

Client Sample ID: OUTFALL-001

Lab Sample ID: 280-205111-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	18		10	5.0	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: 280-205111-1

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: 280-205111-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-205111-1	OUTFALL-001	Water	03/28/25 13:00	03/28/25 15:09

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

Job ID: 280-205111-1

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

Client Sample ID: OUTFALL-001
Date Collected: 03/28/25 13:00
Date Received: 03/28/25 15:09

Lab Sample ID: 280-205111-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		2.0	1.0	ug/L		04/01/25 17:27	04/02/25 19:01	1
Lead	ND		1.0	0.50	ug/L		04/01/25 17:27	04/02/25 19:01	1

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

Client Sample ID: OUTFALL-001
Date Collected: 03/28/25 13:00
Date Received: 03/28/25 15:09

Lab Sample ID: 280-205111-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		1.0	0.25	ug/L		04/03/25 08:42	04/04/25 09:51	1
Copper	ND		2.0	1.0	ug/L		04/03/25 08:42	04/04/25 09:51	1
Lead	ND		1.0	0.50	ug/L		04/03/25 08:42	04/04/25 09:51	1
Silver	ND		0.50	0.25	ug/L		04/03/25 08:42	04/04/25 09:51	1
Zinc	**18**		10	5.0	ug/L		04/03/25 08:42	04/04/25 09:51	1

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 280-689751/1-A
Matrix: Water
Analysis Batch: 690159

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 689751

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		2.0	1.0	ug/L		04/01/25 17:27	04/02/25 18:56	1
Lead	ND		1.0	0.50	ug/L		04/01/25 17:27	04/02/25 18:56	1

Lab Sample ID: LCS 280-689751/2-A
Matrix: Water
Analysis Batch: 690159

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 689751

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Copper	40.0	41.0		ug/L		103	90 - 115
Lead	40.0	40.3		ug/L		101	88 - 115

Lab Sample ID: MB 280-689787/1-B
Matrix: Water
Analysis Batch: 690346

Client Sample ID: Method Blank
Prep Type: Potentially Dissolved
Prep Batch: 689791

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		1.0	0.25	ug/L		04/03/25 08:42	04/04/25 09:44	1
Copper	ND		2.0	1.0	ug/L		04/03/25 08:42	04/04/25 09:44	1
Lead	ND		1.0	0.50	ug/L		04/03/25 08:42	04/04/25 09:44	1
Silver	ND		0.50	0.25	ug/L		04/03/25 08:42	04/04/25 09:44	1
Zinc	ND		10	5.0	ug/L		04/03/25 08:42	04/04/25 09:44	1

Lab Sample ID: LCS 280-689787/2-B
Matrix: Water
Analysis Batch: 690346

Client Sample ID: Lab Control Sample
Prep Type: Potentially Dissolved
Prep Batch: 689791

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cadmium	40.0	41.0		ug/L		102	89 - 111
Copper	40.0	41.3		ug/L		103	90 - 115
Lead	40.0	40.8		ug/L		102	88 - 115
Silver	40.0	37.8		ug/L		94	90 - 114
Zinc	40.0	38.7		ug/L		97	88 - 115

QC Association Summary

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

Job ID: 280-205111-1

Metals

Prep Batch: 689751

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-205111-1	OUTFALL-001	Total Recoverable	Water	200.8	
MB 280-689751/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-689751/2-A	Lab Control Sample	Total Recoverable	Water	200.8	

Filtration Batch: 689782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-205111-1	OUTFALL-001	Potentially Dissolvec	Water	Poten_Diss_Met	

Filtration Batch: 689787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-689787/1-B	Method Blank	Potentially Dissolvec	Water	Filtration	
LCS 280-689787/2-B	Lab Control Sample	Potentially Dissolvec	Water	Filtration	

Prep Batch: 689791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-205111-1	OUTFALL-001	Potentially Dissolvec	Water	200.8	689782
MB 280-689787/1-B	Method Blank	Potentially Dissolvec	Water	200.8	689787
LCS 280-689787/2-B	Lab Control Sample	Potentially Dissolvec	Water	200.8	689787

Analysis Batch: 690159

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-205111-1	OUTFALL-001	Total Recoverable	Water	200.8	689751
MB 280-689751/1-A	Method Blank	Total Recoverable	Water	200.8	689751
LCS 280-689751/2-A	Lab Control Sample	Total Recoverable	Water	200.8	689751

Analysis Batch: 690346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-205111-1	OUTFALL-001	Potentially Dissolvec	Water	200.8	689791
MB 280-689787/1-B	Method Blank	Potentially Dissolvec	Water	200.8	689791
LCS 280-689787/2-B	Lab Control Sample	Potentially Dissolvec	Water	200.8	689791

Lab Chronicle

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

Job ID: 280-205111-1

Client Sample ID: OUTFALL-001

Date Collected: 03/28/25 13:00
Date Received: 03/28/25 15:09

Lab Sample ID: 280-205111-1

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	689782	03/31/25 18:14	SMK	EET DEN
Potentially Dissolvec	Prep	200.8			50 mL	50 mL	689791	04/03/25 08:42	SMK	EET DEN
Potentially Dissolvec	Analysis	200.8		1			690346	04/04/25 09:51	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	689751	04/01/25 17:27	SMK	EET DEN
Total Recoverable	Analysis	200.8		1			690159	04/02/25 19:01	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: 280-205111-1

Laboratory: Eurofins Denver

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	4025	01-08-26

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: Karen Lopez	Lab PM: Bieniulis, Dylan T	Carrier Tracking No(s):	COC No:
Client Contact: John Rinko	Phone: 720 6497722	E-Mail: Dylan.Bieniulis@et.eurofinsus.com	State of Origin:	Page:
Company: Grand Island Resources	PWSID:	Analysis Requested		Job #:
Address: 12567 West Cedar Drive Suite 110	Due Date Requested:			Preservation Codes:
City: Lakewood	TAT Requested (days):			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:
State, Zip: CO, 80228	Compliance Project: Δ Yes Δ No			
Phone: (303) 601-9230	PO #:			
Email: johnrinko@yahoo.com	WO #:			
Project Name: Nederland, CO	Project #: 28022821			
Site: second half of the month event	SSOW#:			

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	03/28/25	13:00	G	W	N	N	X	X	2	*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 = 7°C
										PH = 8
										Observed Oil sheen? Yes (No) (circle)
										*If oil sheen observed in discharge, sampling for Oil & Grease required.

280-205111 Chain of Custody

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ 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
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by: Karen Lopez	Date/Time: 03/28/25 15:10	Company GIR	Received by:	Date/Time: 3/28/25 1509	Company EETDEN

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.1 CF-U.J IR Wand

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Grand Island Resources

Job Number: 280-205111-1

Login Number: 205111
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:			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#:			

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)	200.7/200.8 - Dissolved Metals (Grounwater Permit List) (Field Filtered)	SM4500_SO4_E - Sulfate, SM4500_Cl_E - Chloride, and 300.0 Nitrate	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)	280-204345 Chain of Custody	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	N	S	N	D	D			
CARIBOU PORTAL	3/13/25	10:30	G	W			X	X	X	X	X	X			300.0 Nitrate = 48 hour hold time
CARIBOU WELL	"	11:00	G	W			X	X	X	X	X	X			* Groundwater Dissolved Metals Permit List = 200.7 (Al, B, Fe) and 200.8 (Sb, As, Ba, Cd, Cu, Pb, Mn, Mo, U, Zn)
CARIBOU WELL 02	"	11:00	G	W			X	X	X	X	X	X			
CROSS PORTAL	"	12:00	G	W			X	X	X	X	X	X			FIELD-FILTERED
CROSS PORTAL 02	"	12:00	G	W			X	X	X	X	X	X			FOR METALS &
COMPLIANCE WELL	"	12:30	G	W			X	X	X	X	X	X			RADIONUCLIDES
COMPLIANCE 03	"	12:30	G	W			X	X	X	X	X	X			
CROSS WELL	"	13:00	G	W			X	X	X	X	X	X			

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	B Moran	3/13/25 13:46	GIR	Karen Lopez	03/13/25 13:46	GIR
2	Karen Lopez	03/13/25 15:43	GIR		3/13/25 1543	EEATEN
3						

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

Cooler Temperature(s) °C and Other Remarks: 4.4°4.6°C cF0.3 IRNA6A

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): 3 / 13 / 25	*Group: n/a	*Agency: n/a
*Funding: n/a	ArrivalTime: 5:30 DepartureTime: 5:45	*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:	39.97904	-105.57585	STARTING BANK (facing downstream): LB / RB / NA
Datum: NAD83 Accuracy (ft / m): .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): 1	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): NE		HYDROMODIFICATION: None, Bridge, Pipes, ConcreteChannel, GradeControl, Culvert, AerialZipline, Other; LOCATION (to sample): US / DS / WI — n/a
OTHERPRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, Other none			PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode_yyyy_mm_dd_uniquecode): 1: (RB / LB / BB / US / DS / ##) 2022-01_A
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_B
WATERODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs): Unknown, <1", >1", None		
WATERCOLOR: Colorless, Green, Yellow, Brown n/a			3: (RB / LB / BB / US / DS / ##) 2022-01_C
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													
SUBSURF/MID/ BOTTOM/REP													
Instrument:													
Calib. Date:													

N/A

Samples Taken (# of containers filled) - Method=Water_Grab

Field Dup YES / NO: (SampleType = Grab / Integrated; LABEL_ID = FieldQA; create collection record upon data entry

SAMPLE TYPE: Grab / Integrated — COLLECTION EQUIPMENT: Indiv bottle (by hand, by pole, by bucket); Teflon tubing; Kemmer; Pole & Beaker; Other

	DepthCollec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs
Sub/Surface													
Sub/Surface													

COMMENTS:
NO SURFACE WATER FLOW, THEREFORE NO SAMPLES COLLECTED.

Run:		Sample Processing Date:
Sample ID #:		
Site Code:		
	# Small Wells	
	# Large Wells	
	Empty Wells	
Yellow +	MPN	
	# Small Wells	
	# Large Wells	
	False Positives	
Yellow + Fluorescence (+)	MPN	
Temp/Time	Start; 4Hr. Check; 14 Hr. Check; 18 Hr. Check; 22 Hr. Check, if needed	

N/A

	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 3/13/25

SURFACE WATER SAMPLING DATA SHEET

SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - EventType=WQ | Entered in d-base (initial/date) | Pg 1 of 1 Pgs

*StationID: 2022-02	*Date (mm/dd/yyyy): 3/13/25	*Group: n/a	*Agency: n/a
*Funding: n/a	ArrivalTime: 15:10 DepartureTime: 15:25	*SampleTime (1st sample): n/a	*Protocol: n/a
*Personnel: BM	*Purpose (circle all that apply): WaterChem WaterTox FieldObs FieldMeasure	*PurposeFailure: n/a	
*Location: Bank Thalweg Midchannel OpenWater	*GPS/DGPS	Lat (dd.ddddd)	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): 1	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):	HYDROMODIFICATION: None, Bridge, Pipes, ConcreteChannel, GradeControl, Culvert, AerialZipline, Other; LOCATION (to sample): US / DS / WI N/A
OTHERPRESENCE:	Vascular, Nonvascular, OilySheen, Foam, Trash, Other none		PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode_yyyy_mm_dd_uniquecode): 1: (RB / LB / BB / US / DS / ##) 2022-02-A
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 / ##) 2022-02-B
WATERODOR:	None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs): Unknown, <1", >1", None	
WATERCOLOR:	Colorless, Green, Yellow, Brown n/a		3: (RB / LB / BB / US / DS / ##) 2022-02-C
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													
SUBSURF/MID/BOTTOM/REP													
Instrument:													
Calib. Date:													

N/A

Samples Taken (# of containers filled) - Method=Water_Grab | Field Dup YES / NO: (SampleType = Grab / Integrated; LABEL_ID = FieldQA; create collection record upon data entry

SAMPLE TYPE: Grab / Integrated | COLLECTION EQUIPMENT: Indiv bottle (by hand, by pole, by bucket); Teflon tubing; Kemmer; Pole & Beaker; Other ___

	DepthCollec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs
Sub/Surface													
Sub/Surface													

COMMENTS:
NO SURFACE WATER FLOW, THEREFORE NO SAMPLES COLLECTED.

Run:										Sample Processing Date:				
Sample ID #:														
	Site Code:													
	# Small Wells													
	# 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		

N/A

	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 3/13/25

GROUND WATER SAMPLING DATA SHEET

IDENTIFICATION Project Number:

Sample Location CROSS WELL Date 3/13/25 Start Time 11:30 Stop time 13:10 Page 1 of 1

Sample Control Number n/a Samplers BM, KL

WEATHER CONDITIONS

Ambient Air Temperature: 38.7 °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 36 Total Depth 205 Top of Screen 15 Filter Pack Interval n/a Borehole Diameter(inches) 9" (0-40ft) 5 7/8 (40-205ft)

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 36 Total Depth 205 Total Volume Purged 624 Saturated Borehole Volume (gal) 143 Max Pumping Rate n/a

INSTRUMENT CALIBRATION

pH Meter: Meter Number OAKTON01 **Conductivity Meter:** Meter Number CMI-2104-01479

Buffer 7 Measured Value 7.1 Temp. 7.8 °C Standard 0.447 mS/cm Measured Value 0.5 mS/cm Temp. 8 °C

Buffer 4 Measured Value 4.1 Temp. 8.0 °C Standard 0.447 mS/cm Measured Value 0.5 mS/cm Temp. 8 °C

Turbidity Meter: Neatry 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	7.2	0.3	7.7	7.4	SAMPLES COLLECTED
13:00	624	6.9	0.3	5.7°	6.1	WITH DISPOSABLE
						SAMPLING 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☒		
3/13/25	13:00	7.0	6.9	0.3	5.7°	6.1		

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 Nolan 3/13/25

GROUND WATER SAMPLING DATA SHEET

IDENTIFICATION

Sample Location COMPLIANCE WELL Date 3/13/25 Start Time 11:35 Stop time 12:40 Page 1 of 1 Project Number:
Sample Control Number n/a Samplers BM, KL

WEATHER CONDITIONS

Ambient Air Temperature: 37.2 °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 41 Total Depth 165 Top of Screen 65 Filter Pack Interval n/a Borehole Diameter(inches) 9" (0-50 ft) 6" (50-165ft)
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 41 Total Depth 165 Total Volume Purged 554 Saturated Borehole Volume (gal) 111 Max Pumping Rate n/a

INSTRUMENT CALIBRATION

pH Meter: Meter Number OAKTON01
Buffer 7 Measured Value 7.1 Temp. 7.8 °C
Buffer 4 Measured Value 4.1 Temp. 8.0 °C
Conductivity Meter: Meter Number CM1-2104-01479
Standard 0.447 mS/cm Measured Value 0.5 mS/cm Temp. 8 °C
Standard 0.447 mS/cm Measured Value 0.5 mS/cm Temp. 8 °C
Turbidity Meter: Not in 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
11:35	0	7.9	0.4	5.1°	3.8	SAMPLES COLLECTED
12:30	554	7.2	0.3	5.7°	6.5	WITH DISPOSABLE
						SAMPLING 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☒		
3/13/25	12:30	10.4	7.2	0.3	5.7°	6.5		

Duplicate Sample-02 (sample control number/time n/a)
Field Blank-03 (sample control number/time COMPLIANCE 03)
Rinsate Sample-04 (sample control number/time n/a)
Matrix Spike-MS (sample control number/time n/a)
_____ (sample control number/time n/a)

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 3/13/25

GROUND WATER SAMPLING DATA SHEET

IDENTIFICATION

Sample Location CARIBOU WELL Date 3/13/25 Start Time 10:10 Stop time 11:10 Project Number: Page 1 of 1

Sample Control Number n/a Samplers BM, FL

WEATHER CONDITIONS

Ambient Air Temperature: 34.7 °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 29 Total Depth 165 Top of Screen 25 Filter Pack Interval n/a Borehole Diameter(inches) 9" (0-26 ft) 6" (26-165ft)

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 29 Total Depth 165 Total Volume Purged 484 Saturated Borehole Volume (gal) 91 Max Pumping Rate n/a

INSTRUMENT CALIBRATION

pH Meter: Meter Number OAKTON01

Buffer 7 Measured Value 7.1 Temp. 7.8 °C

Buffer 4 Measured Value 4.1 Temp. 8.0 °C

Conductivity Meter: Meter Number CMI-2104-01479

Standard 0.447 mS/cm Measured Value 0.5 mS/cm Temp. 8 °C

Standard 0.447 mS/cm Measured Value 0.5 mS/cm Temp. 8 °C

Turbidity Meter: No Hach 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
10:10	0	6.5	0.3	4.5	6.3	SAMPLES COLLECTED
11:00	484	6.8	0.2	5.9°	4.3	WITH DISPOSABLE
						SAMPLING 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☒		
3/13/25	11:00	10.0	6.8	0.2	5.9°	4.3		

Duplicate Sample-02 (sample control number/time CARIBOU WELL 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: SAMPLED VIA PORT. * 6 5/8" (-1-26 ft) & 4 1/2" (15-165 ft)

Sampler's Signature

Brooke Nolan 3/13/25

GROUND WATER SAMPLING DATA SHEET

IDENTIFICATION Project Number:

Sample Location CROSS PORTAL Date 3/13/25 Start Time 11:50 Stop time 12:20 Page 1 of 1

Sample Control Number n/a Samplers BM, KL

~~**WEATHER CONDITIONS**~~

~~**Ambient Air Temperature:** _____ °C☐ °F☐ Not Measured ☐ **Wind:** Heavy☐ Moderate☐ Light☐~~

~~**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 OAKTON01

Buffer 7 Measured Value 7.1 Temp. 7.8 °C

Buffer 4 Measured Value 4.1 Temp. 8.0 °C

Conductivity Meter: Meter Number CM1-2104-01479

Standard 0.447 mS/cm Measured Value 0.5 mS/cm Temp. 8 °C

Standard 0.447 mS/cm Measured Value 0.5 mS/cm Temp. 8 °C

Turbidity Meter: Neutra 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
12:00	n/a	8.1	0.4	4.8	40.6	SAMPLES COLLECTED
						WITH DISPOSABLE
						SAMPLING 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☒		
3/13/25	12:00	n/a	8.1	0.4	4.8°	40.6		

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 3/13/25

GROUND WATER SAMPLING DATA SHEET

IDENTIFICATION Project Number:

Sample Location CARIBOU PORTAL Date 3/13/25 Start Time 10:20 Stop time 10:50 Page 1 of 1

Sample Control Number _____ Samplers BM, KL

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

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 7.1 Temp. 7.8 °C

Buffer 4 Measured Value 4.1 Temp. 8.0 °C

Conductivity Meter: Meter Number CM1-2104-01479

Standard 0.447 mS/cm Measured Value 0.5 mS/cm Temp. 8 °C

Standard 0.447 mS/cm Measured Value 0.5 mS/cm Temp. 8 °C

Turbidity Meter: Hydro 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
10:30	n/a	8.2	0.4	1.7°	48.6	SAMPLES COLLECTED WITH DISPOSABLE SAMPLING 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☒		
3/13/25	10:30	n/a	8.2	0.4	1.7°	48.6		

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:

Sampler's Signature Brooke Moran 3/13/25

APPENDIX F PHOTOGRAPHS

APPENDIX F.1 SAMPLE LOCATION 2022-01 PHOTOGRAPHS

APPENDIX F.2 SAMPLE LOCATION 2022-02 PHOTOGRAPHS

GRAND ISLAND RESOURCES

4415 Caribou Rd,
Nederland CO, 80466

Division of Reclamation, Mining & Safety
c/o Mr. Patrick Lennberg
1001 E 62nd Ave,
Room 215
Denver, CO 80216

April 30, 2025

Report on Q1 2025 Copper Sampling Data – Cross Gold Mine, Permit No. M-1977-410
April 30, 2025

From:
Grand Island Resources (The Operator)

Executive Summary

This report presents the findings from the first quarter (Q1) 2025 groundwater and surface water testing at the Cross Gold Mine, conducted in compliance with Technical Revision #10 (TR-10) under Permit No. M-1977-410. For the Q1 2025 sampling on March 13, 2025, the Caribou Well detected copper at 0.15 mg/L in the initial sample and 0.21 mg/L in the duplicate sample, resulting in an average concentration of 0.18 mg/L. An initial exceedance of Total Dissolved Copper (0.21 mg/L) above the Water Quality Control Commission's (WQCC) Interim Narrative Standard of 0.2 mg/L in the duplicate sample prompted two intensive copper sampling series: a 24-hour series with measurements every 12 hours on April 11, 2025, and a 12-hour series with measurements every 3 hours on April 17, 2025. It should be noted that this response was a conservative approach, as the intensive sampling was initiated based on the 0.21 mg/L duplicate sample from March 13, 2025, rather than a significantly higher copper detection of 3.4 mg/L at the Caribou Well on December 4, 2024, which may have initially triggered heightened monitoring. The results indicate that elevated copper levels are likely due to inadequate purging of stagnant groundwater, exacerbated by reduced site activity and a dry winter, rather than a persistent water quality issue. After sufficient purging, copper concentrations stabilized below the 0.2 mg/L limit, consistent with historical data. Based on these findings, we recommend increasing purge time and changing well equipment.

1. INTRODUCTION

On April 28, 2022, the Division of Reclamation, Mining and Safety (DRMS) approved Technical Revision #10 (TR-10), requiring Grand Island Resources to modify its water management and treatment program and implement a comprehensive surface water and groundwater monitoring program in response to Violation No. MV-2021-017. This program ensures compliance with the WQCC's Interim Narrative Standard for copper (0.2 mg/L).

In Q1 2025, routine sampling at the Caribou Well detected a Total Dissolved Copper concentration of 0.21 mg/L, in duplicate sample exceeding the 0.2 mg/L limit, the average concentration for the Caribou Well is 0.18 mg/L. To investigate, we conducted two intensive sampling series:

- Series 1: 24-hour sampling on April 11, 2025, with measurements at 0, 12, and 24 hours.

- Series 2: 12-hour sampling on April 17, 2025, with measurements at 0, 3, 6, 9, and 12 hours.

This report details the methodology, results, analysis, historical context, and recommendations based on these tests.

2. METHODOLOGY

2.1 Sampling Series

Two sampling series were conducted at the Caribou Well:

- Series 1 (April 11, 2025): Samples were collected over 24 hours at 0, 12, and 24 hours to assess long-term copper concentration trends.
- Series 2 (April 17, 2025): Samples were collected over 12 hours at 0, 3, 6, 9, and 12 hours for a higher-resolution analysis.

Samples were analyzed for Total Dissolved Copper (µg/L) by Eurofins, CO, using standard laboratory procedures.

2.2 Purging Protocol

The Caribou Well was purged in Past sampling for historical purging (e.g., 3 well volumes) has proven insufficient during periods of low site activity and groundwater levels, necessitating extended purging to obtain representative samples.

3. RESULTS

3.1 Series 1: 24-Hour Sampling (April 11, 2025)

The 24-hour series showed a significant reduction in copper concentration after initial purging:
Table 1: Series 1 – 24-Hour Sampling Results

4415 Caribou Rd,
Nederland CO, 80466

Time (hr.)	Result (µg/L)
0	2700
12	150.00
24	190.00

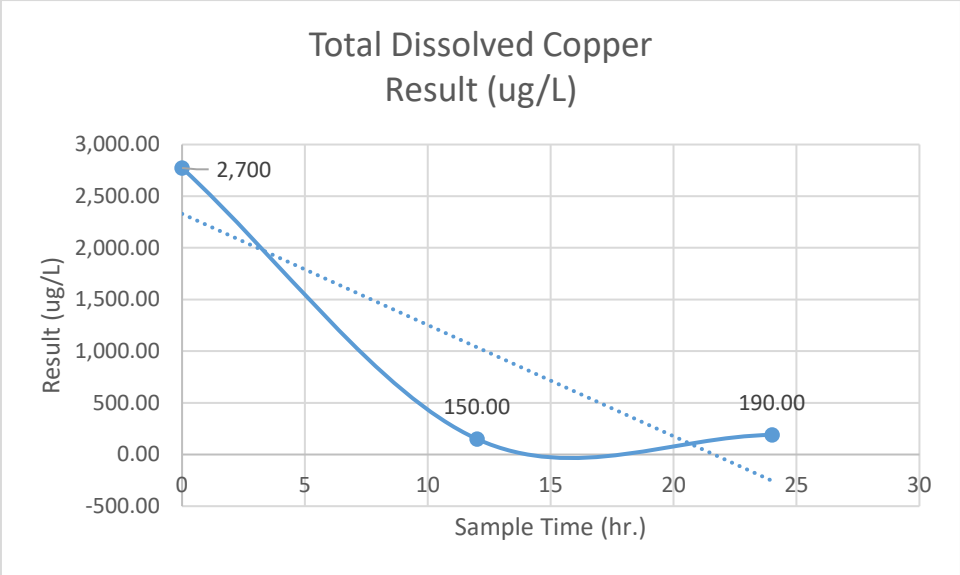

Figure 1: Total Dissolved Copper Over 24 Hours (April 11, 2025)
Figure 1 Caption: Copper concentration decreased from 2700 µg/L to 150.00 µg/L after 12 hours, stabilizing at 190.00 µg/L by 24 hours.

3.2 Series 2: 12-Hour Sampling (April 17, 2025)

The 12-hour series provided detailed insights into copper concentration dynamics:
Table 2: Series 2 – 12-Hour Sampling Results

Time (hr.)	Result (µg/L)
0	680.00
3	230.00
6	340.00
9	270.00
12	61.00

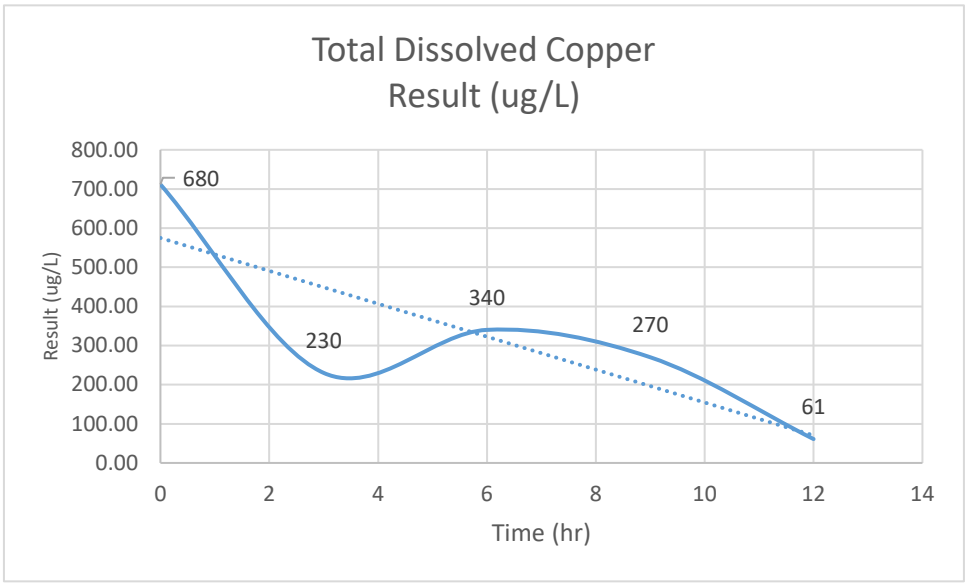

Figure 2: Total Dissolved Copper Over 12 Hours (April 17, 2025)
Figure 2 Caption: Copper concentration decreased from 680 µg/L to 61.00 µg/L over 12 hours, with fluctuations between 3 and 9 hours.

4. ANALYSIS

4.1 Trends and Observations

Both series demonstrated a sharp initial decline in copper concentration, followed by stabilization below the 200 µg/L (0.2 mg/L) limit:

- Series 1: Copper levels dropped 94.4% from 2700 µg/L to 150.00 µg/L within 12 hours, with a slight increase to 190.00 µg/L at 24 hours, suggesting stabilization.
- Series 2: Copper levels decreased 91.0% from 680 µg/L to 61.00 µg/L over 12 hours, with intermediate fluctuations averaging 280 µg/L between 3 and 9 hours.

These trends indicate that elevated initial readings result from stagnant groundwater rather than a systemic issue. Post-purging concentrations consistently met compliance standards.

4.2 Potential Causes of Elevated Copper

Several factors likely contributed to the initial exceedance:

- Reduced Site Activity: With minimal staff and equipment operation, water usage from the Caribou Well has decreased, leading to prolonged stagnation and copper accumulation.
- Copper Piping: Corrosion in the building's copper pipes, evidenced by reported leaks, may have elevated initial copper levels in stagnant water.
- Low Groundwater Levels: A dry winter reduced groundwater flow, potentially increasing copper concentration in unpurged samples.

4.3 Historical Context

Historical data supports the episodic nature of elevated copper levels during low-activity periods:

- March 13, 2025: Copper concentration was 0.15 mg/L (150 µg/L) duplicate was 0.21 mg/L (210 µg/L), with Avg below the limit at 0.18 mg/L (180 µg/L).

  March 21, 2023: A spike of 1.23 mg/L (1230 µg/L) occurred during similar conditions of low activity and groundwater levels.
- December 4, 2024: Purging of 484 gallons (3 well volumes) yielded 3.4 mg/L, indicating insufficient purging for representative sampling under current conditions.

5. RECOMMENDATIONS

Based on a comprehensive analysis of the Q1 2025 copper sampling data and historical trends, we propose the following adjustments to optimize the groundwater monitoring program:

5.1 Sampling

- The Operator has collected seven consecutive quarters of groundwater monitoring data, all demonstrating consistent compliance with the Water Quality Control Commission's (WQCC) Interim Narrative Standard for copper (0.2 mg/L). This extended period of stable water quality indicates that the site's groundwater conditions are well-characterized and do not exhibit significant short-term variability.

5.2 Adjustment to Sampling Points

- Current: Seven sampling points, including three groundwater wells (Cross, Caribou, and Compliance), two mine effluent points (Cross and Caribou Portals), and two surface water stations (upstream and downstream of the mine site).
- Proposed: new equipment needs to be installed on the wells so that sampling can be taken at the well head as well as inspection of the well ensuring its PVC piping all the way to the motor from the wellhead,
- Rationale: To ensure sample integrity, new equipment will be installed for direct sampling at the well head, avoiding contamination from the building's plumbing system, which may include copper piping. Historical data showing elevated copper levels, likely from stagnant water during low-activity periods, supports this change. Additionally, an inspection will confirm that the Caribou Well uses PVC piping from the wellhead to the pump as PVC's inert properties prevent contaminant leaching, further guaranteeing accurate results.

5.3 Recommendation for Increased Purge Time

- Current Practice: Purging three well volumes prior to sampling (typically completed in approximately one hour).
- Proposed: Increase purge time to 10 hours prior to quarterly groundwater sampling.
- Rationale: Historical and recent sampling data reveal that extended purging is essential to obtain water samples that accurately represent the aquifer's true quality, rather than stagnant water trapped within the well. The Q1 2025 sampling series, combined with past exceedances, highlights the need for this change to ensure consistent and reliable results.

Detailed Explanation

- Influence of Stagnant Water: When wells, such as the Caribou Well, are not regularly pumped or experience low recharge rates (e.g., during dry seasons or periods of reduced site activity), water stagnates within the well casing and adjacent aquifer material. This stagnant water can accumulate elevated concentrations of copper due to interactions with surrounding rock strata or, potentially, corrosion of copper-containing infrastructure (e.g., piping). Initial samples drawn without sufficient purging reflect this unrepresentative water rather than the broader aquifer conditions. For instance, historical exceedances—such as the 1.23 mg/L copper

spike in March 2023 and the 3.4 mg/L reading in December 2024—coincided with inadequate purging and low site activity, reinforcing this pattern.

- Evidence from Extended Purging: The Q1 2025 sampling series provides clear evidence of the effectiveness of longer purge times:
    - 24-Hour Sampling Series (April 11, 2025): Initial copper concentrations were elevated (e.g., 2700 µg/L), but after 12 hours of purging, levels dropped to 150 for 94.4%,—well below the 0.2 mg/L compliance limit—and remained stable thereafter. This indicates that extended purging successfully flushed out stagnant water, allowing fresh aquifer water to enter the well.
    - 12-Hour Sampling Series (April 17, 2025): Similarly, copper levels decreased by 91.0% from 680 µg/L to 61.00 µg/L after 12 hours, again falling below the compliance threshold. These results confirm that purging for a prolonged period is necessary to achieve a representative sample.
    - Contrast with Current Practice: The December 2024 sampling, which followed the current practice of purging three well volumes (484 gallons) over one hour, yielded a copper concentration of 3.4 mg/L— above the limit. This suggests that one hour of purging is insufficient to remove stagnant water, especially under low-flow or low-recharge conditions.
- Why 10 Hours? A 10-hour purge time strikes a practical balance between ensuring representativeness and operational feasibility. The Q1 2025 data shows that copper levels stabilize significantly within 12 hours, with the majority of the reduction occurring earlier. A 10-hour duration provides a conservative yet efficient window to flush the well and draw in fresh groundwater, accounting for variability in recharge rates or seasonal conditions. For example, at a typical flow rate of 8 gallons per minute (gpm)—which avoids excessive drawdown—this equates to approximately 4,800 gallons purged, far exceeding the three well volumes (approximately 484 gallons) currently used. Additionally, since the Caribou well is a domestic water well rather than a standard groundwater monitoring well, purge times should not follow the traditional '3 well volume' rule typically applied to groundwater monitoring wells, as this may not suffice to ensure water quality, further justifying the need for a more extended purge time.

Benefits of the 10-Hour Purge Time

- Consistent and Representative Data: By purging for 10 hours, the sampled water will reflect the true composition of the aquifer, free from the influence of stagnant water. This ensures that quarterly results are a reliable indicator of groundwater quality, enhancing confidence in compliance assessments.
- Reduction in False Exceedances: Extended purging eliminates artifacts that lead to artificially high copper readings, such as those observed in March 2023 and

December 2024. This reduces the risk of unnecessary regulatory scrutiny or corrective actions triggered by unrepresentative data.

- Improved Long-Term Monitoring: With quarterly sampling, each data point carries greater weight in tracking trends. A 10-hour purge ensures that these infrequent samples are of the highest quality, providing a robust basis for decision-making.
- Alignment with Best Practices: This recommendation aligns with industry standards for groundwater sampling in wells with low recharge rates or during periods of low water levels (e.g., dry seasons). Extended purging is widely recognized as a critical step to obtain accurate samples under such conditions.

Implementation Considerations

- Purging Protocol: Prior to each quarterly sampling event, the Caribou Well should be purged continuously for 10 hours at a controlled flow rate (e.g., 8 gpm, based on historical data) to prevent drawdown and ensure steady removal of stagnant water.
- Stabilization Monitoring: During purging, field parameters such as pH, temperature, and turbidity should be measured periodically (e.g., every 2–3 hours) to confirm stabilization, providing additional assurance that the sample represents aquifer conditions.
- Equipment and Logistics: The Operator should ensure that pumping equipment is capable of sustained operation over 10 hours and that staff are scheduled to oversee the process, potentially conducting purging the day before sampling to integrate seamlessly with quarterly workflows.

By adopting these adjustments—quarterly sampling, a focus on the Caribou Well, and a 10-hour purge time—the monitoring program will deliver more consistent and representative data, ensuring compliance with regulatory standards while optimizing operational efficiency.

6. CONCLUSION

The Q1 2025 copper sampling data from the Caribou Well confirms that elevated copper levels stem from inadequate purging during periods of low site activity and low groundwater levels. Extended purging in both the 24-hour and 12-hour series reduced copper concentrations below the 0.2 mg/L limit, aligning with historical trends. We request DRMS approval for the proposed adjustments to purge time and replacement of well equipment while ensuring compliance.

GRAND ISLAND
RESOURCES

4415 Caribou Rd,
Nederland CO, 80466

Respectfully Submitted,

Richard Mittasch, Vice President
Grand Island Resources, LLC.
Phone: 720-893-3749
Mobile: 516 582-0833
Email: Rmittasch@nedmining.com
4415 Caribou Rd, PO Box 3395, Nederland, CO 80466

Attachments:

- Laboratory Data (Eurofins)
    - J205801-1 UDS Level 2 Report Final Report.pdf
    - J206340-1 UDS Level 2 Report Final Report.pdf

eurofins | Environment Testing

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

ANALYTICAL REPORT

PREPARED FOR

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

Generated 4/15/2025 11:03:31 AM

JOB DESCRIPTION

Nederland, CO - Groundwater

JOB NUMBER

280-205801-1

Eurofins Denver
4955 Yarrow Street
Arvada CO 80002

See page two for job notes and contact information.

myEOL

Job Notes

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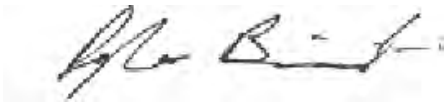
Authorization



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4/15/2025 11:03:31 AM

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 - Groundwater

Job ID: 280-205801-1

Qualifiers

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

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 ID: 280-205801-1 Eurofins Denver

Job Narrative
280-205801-1

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 and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided 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.

Receipt
The samples were received on 4/11/2025 9:27 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.6°C.

Method 200.8 - Metals (ICP/MS) - Dissolved
Samples CW-01 (280-205801-1), CW-02 (280-205801-2) and CW-03 (280-205801-3) were analyzed for Metals (ICP/MS) - Dissolved. The samples were prepared on 4/11/2025 and analyzed on 4/14/2025.

Detection Summary

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

Job ID: 280-205801-1

Client Sample ID: CW-01 — Lab Sample ID: 280-205801-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	2700		2.0	1.0	ug/L	1		200.8	Dissolved

Client Sample ID: CW-02 — Lab Sample ID: 280-205801-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	150		2.0	1.0	ug/L	1		200.8	Dissolved

Client Sample ID: CW-03 — Lab Sample ID: 280-205801-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	190		2.0	1.0	ug/L	1		200.8	Dissolved

This Detection Summary does not include radiochemical test results.

Method Summary

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

Job ID: 280-205801-1

Method	Method Description	Protocol	Laboratory
200.8	Metals (ICP/MS)	EPA	EET DEN
200.8	Preparation, Total Recoverable 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 - Groundwater

Job ID: 280-205801-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-205801-1	CW-01	Water	04/09/25 08:06	04/11/25 09:27
280-205801-2	CW-02	Water	04/10/25 09:09	04/11/25 09:27
280-205801-3	CW-03	Water	04/11/25 08:00	04/11/25 09:27

Client Sample Results

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

Job ID: 280-205801-1

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

Client Sample ID: CW-01
Date Collected: 04/09/25 08:06
Date Received: 04/11/25 09:27

Lab Sample ID: 280-205801-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2700		2.0	1.0	ug/L		04/11/25 13:04	04/14/25 15:43	1

Client Sample ID: CW-02
Date Collected: 04/10/25 09:09
Date Received: 04/11/25 09:27

Lab Sample ID: 280-205801-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	150		2.0	1.0	ug/L		04/11/25 13:04	04/14/25 15:55	1

Client Sample ID: CW-03
Date Collected: 04/11/25 08:00
Date Received: 04/11/25 09:27

Lab Sample ID: 280-205801-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	190		2.0	1.0	ug/L		04/11/25 13:04	04/14/25 15:58	1

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 280-691305/1-A
Matrix: Water
Analysis Batch: 691609

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 691305

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		2.0	1.0	ug/L		04/11/25 13:04	04/14/25 15:38	1

Lab Sample ID: LCS 280-691305/2-A
Matrix: Water
Analysis Batch: 691609

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 691305

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Copper			40.0	40.6		ug/L		102	90 - 115		

Lab Sample ID: 280-205801-1 MS
Matrix: Water
Analysis Batch: 691609

Client Sample ID: CW-01
Prep Type: Dissolved
Prep Batch: 691305

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Copper	2700		40.0	2770	4	ug/L		209	90 - 115		

Lab Sample ID: 280-205801-1 MSD
Matrix: Water
Analysis Batch: 691609

Client Sample ID: CW-01
Prep Type: Dissolved
Prep Batch: 691305

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Copper	2700		40.0	2850	4	ug/L		397	90 - 115	3	20

QC Association Summary

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

Job ID: 280-205801-1

Metals

Prep Batch: 691305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-205801-1	CW-01	Dissolved	Water	200.8	
280-205801-2	CW-02	Dissolved	Water	200.8	
280-205801-3	CW-03	Dissolved	Water	200.8	
MB 280-691305/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-691305/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
280-205801-1 MS	CW-01	Dissolved	Water	200.8	
280-205801-1 MSD	CW-01	Dissolved	Water	200.8	

Analysis Batch: 691609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-205801-1	CW-01	Dissolved	Water	200.8	691305
280-205801-2	CW-02	Dissolved	Water	200.8	691305
280-205801-3	CW-03	Dissolved	Water	200.8	691305
MB 280-691305/1-A	Method Blank	Total Recoverable	Water	200.8	691305
LCS 280-691305/2-A	Lab Control Sample	Total Recoverable	Water	200.8	691305
280-205801-1 MS	CW-01	Dissolved	Water	200.8	691305
280-205801-1 MSD	CW-01	Dissolved	Water	200.8	691305

Lab Chronicle

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

Job ID: 280-205801-1

Client Sample ID: CW-01

Lab Sample ID: 280-205801-1

Date Collected: 04/09/25 08:06

Matrix: Water

Date Received: 04/11/25 09:27

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	691305	04/11/25 13:04	SLH	EET DEN
Dissolved	Analysis	200.8		1			691609	04/14/25 15:43	LMT	EET DEN

Client Sample ID: CW-02

Lab Sample ID: 280-205801-2

Date Collected: 04/10/25 09:09

Matrix: Water

Date Received: 04/11/25 09:27

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	691305	04/11/25 13:04	SLH	EET DEN
Dissolved	Analysis	200.8		1			691609	04/14/25 15:55	LMT	EET DEN

Client Sample ID: CW-03

Lab Sample ID: 280-205801-3

Date Collected: 04/11/25 08:00

Matrix: Water

Date Received: 04/11/25 09:27

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	691305	04/11/25 13:04	SLH	EET DEN
Dissolved	Analysis	200.8		1			691609	04/14/25 15:58	LMT	EET DEN

Laboratory References:

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

Accreditation/Certification Summary

Client: Grand Island Resources
Job ID: 280-205801-1
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	10-31-26
A2LA	ISO/IEC 17025	2907.01	10-31-26
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	11-30-25
Arizona	State	AZ0713	12-20-25
Arkansas DEQ	State	88-00687	04-02-26
California	State	2513	01-08-26
Colorado	Petroleum Storage Tank Program	2907.01 (A2LA)	10-31-26
Colorado	State	CO00026	06-30-25
Connecticut	State	PH-0686	09-30-26
Florida	NELAP	E87667	06-30-25
Georgia	State	4025	01-08-26
Illinois	NELAP	200017	05-31-25
Iowa	State	370	12-01-26
Kansas	NELAP	E-10166	04-30-25
Kentucky (WW)	State	KY98047	12-31-25
Louisiana	NELAP	30785	06-30-14 *
Louisiana (All)	NELAP	30785	06-30-25
Minnesota	NELAP	1788752	12-31-25
Nevada	State	CO00026	07-31-25
New Hampshire	NELAP	2053	04-28-25
New Jersey	NELAP	230001	06-30-25
New York	NELAP	11964	04-01-26
North Dakota	State	R-034	01-08-25 *
Oklahoma	NELAP	8614	08-31-25
Oregon	NELAP	4025	01-08-26
Pennsylvania	NELAP	013	07-31-25
South Carolina	State	72002001	01-18-25 *
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183	09-30-25
US Fish & Wildlife	US Federal Programs	058448	07-31-25
USDA	US Federal Programs	P330-20-00065	12-19-25
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO00026	07-31-25
Virginia	NELAP	460232	06-14-25
Washington	State	C583	08-03-25
West Virginia DEP	State	354	11-30-25
Wisconsin	State	999615430	08-31-25
Wyoming (UST)	A2LA	2907.01	10-31-26

* 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

Client Information	Sampler: P BREWER	Lab PM: Bieniulis, Dylan T	Carrier Tracking No(s):	COC No:
Client Contact: Brooke Molson Moran	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 #: Not required			
Email: bmolsonm@g.emporia.edu	WO #:			
Project Name: Nederland, CO	Project #: 28025589			
Site: Groundwater Sampling	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 - Dissolved Metals - Copper Only (Field Filtered)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D		
CW-01	4-9-25	8:06am	G	W			X	1	
CW-02	4-10-25	9:09am	G	W			X	1	
CW-03	4-11-25	8:10am	G	W			X	1	

280-205801 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 ___ 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
[signature]	04/09/25 4:39pm	GIR	P Brewer	4-9-25 8:30pm	ETR
			[signature]	4/11/25 9:27	EET DEN

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 5.3° CNAGA (FO) 3

Login Sample Receipt Checklist

Client: Grand Island Resources

Job Number: 280-205801-1

Login Number: 205801
List Number: 1
Creator: Bieniulis, Dylan T

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 4/24/2025 1:41:22 PM

JOB DESCRIPTION

Nederland, CO - Groundwater

JOB NUMBER

280-206340-1

Eurofins Denver
4955 Yarrow Street
Arvada CO 80002

See page two for job notes and contact information.

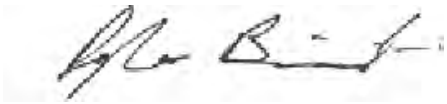
myEOL

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 - Groundwater

Job ID: 280-206340-1

Qualifiers

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

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 ID: 280-206340-1 — Eurofins Denver

Job Narrative
280-206340-1

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 and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided 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.

Receipt
The samples were received on 4/18/2025 9:07 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.1°C.

Method 200.8 - Metals (ICP/MS) - Dissolved
Samples CW-2-01 (280-206340-1), CW-2-02 (280-206340-2), CW-2-03 (280-206340-3), CW-2-04 (280-206340-4) and CW-2-05 (280-206340-5) were analyzed for Metals (ICP/MS) - Dissolved. The samples were prepared on 4/21/2025 and analyzed on 4/23/2025 and 4/24/2025.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 280-692560 and analytical batch 280-692976 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.

Detection Summary

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

Job ID: 280-206340-1

Client Sample ID: CW-2-01 — Lab Sample ID: 280-206340-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	680		2.0	1.0	ug/L	1		200.8	Dissolved

Client Sample ID: CW-2-02 — Lab Sample ID: 280-206340-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	230		2.0	1.0	ug/L	1		200.8	Dissolved

Client Sample ID: CW-2-03 — Lab Sample ID: 280-206340-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	340		2.0	1.0	ug/L	1		200.8	Dissolved

Client Sample ID: CW-2-04 — Lab Sample ID: 280-206340-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	270		2.0	1.0	ug/L	1		200.8	Dissolved

Client Sample ID: CW-2-05 — Lab Sample ID: 280-206340-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	61		2.0	1.0	ug/L	1		200.8	Dissolved

This Detection Summary does not include radiochemical test results.

Method Summary

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

Job ID: 280-206340-1

Method	Method Description	Protocol	Laboratory
200.8	Metals (ICP/MS)	EPA	EET DEN
200.8	Preparation, Total Recoverable 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 - Groundwater

Job ID: 280-206340-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-206340-1	CW-2-01	Water	04/17/25 06:00	04/18/25 09:07
280-206340-2	CW-2-02	Water	04/17/25 09:00	04/18/25 09:07
280-206340-3	CW-2-03	Water	04/17/25 12:00	04/18/25 09:07
280-206340-4	CW-2-04	Water	04/17/25 15:00	04/18/25 09:07
280-206340-5	CW-2-05	Water	04/17/25 18:00	04/18/25 09:07

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

Job ID: 280-206340-1

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

Client Sample ID: CW-2-01
Date Collected: 04/17/25 06:00
Date Received: 04/18/25 09:07

Lab Sample ID: 280-206340-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	680		2.0	1.0	ug/L		04/21/25 15:25	04/23/25 04:32	1

Client Sample ID: CW-2-02
Date Collected: 04/17/25 09:00
Date Received: 04/18/25 09:07

Lab Sample ID: 280-206340-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	230		2.0	1.0	ug/L		04/21/25 15:25	04/23/25 04:50	1

Client Sample ID: CW-2-03
Date Collected: 04/17/25 12:00
Date Received: 04/18/25 09:07

Lab Sample ID: 280-206340-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	340		2.0	1.0	ug/L		04/21/25 15:25	04/23/25 05:01	1

Client Sample ID: CW-2-04
Date Collected: 04/17/25 15:00
Date Received: 04/18/25 09:07

Lab Sample ID: 280-206340-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	270		2.0	1.0	ug/L		04/21/25 15:25	04/23/25 05:04	1

Client Sample ID: CW-2-05
Date Collected: 04/17/25 18:00
Date Received: 04/18/25 09:07

Lab Sample ID: 280-206340-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	61		2.0	1.0	ug/L		04/21/25 15:25	04/23/25 05:08	1

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 280-692560/1-A
Matrix: Water
Analysis Batch: 692976

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 692560

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		2.0	1.0	ug/L		04/21/25 15:25	04/23/25 04:11	1

Lab Sample ID: LCS 280-692560/2-A
Matrix: Water
Analysis Batch: 692976

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 692560

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Copper			40.0	39.9		ug/L		100	90 - 115		

Lab Sample ID: 280-206340-1 MS
Matrix: Water
Analysis Batch: 692976

Client Sample ID: CW-2-01
Prep Type: Dissolved
Prep Batch: 692560

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Copper	680		40.0	722	4	ug/L		104	90 - 115		

Lab Sample ID: 280-206340-1 MSD
Matrix: Water
Analysis Batch: 692976

Client Sample ID: CW-2-01
Prep Type: Dissolved
Prep Batch: 692560

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Copper	680		40.0	733	4	ug/L		131	90 - 115	2	20

QC Association Summary

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

Job ID: 280-206340-1

Metals

Prep Batch: 692560

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-206340-1	CW-2-01	Dissolved	Water	200.8	
280-206340-2	CW-2-02	Dissolved	Water	200.8	
280-206340-3	CW-2-03	Dissolved	Water	200.8	
280-206340-4	CW-2-04	Dissolved	Water	200.8	
280-206340-5	CW-2-05	Dissolved	Water	200.8	
MB 280-692560/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-692560/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
280-206340-1 MS	CW-2-01	Dissolved	Water	200.8	
280-206340-1 MSD	CW-2-01	Dissolved	Water	200.8	

Analysis Batch: 692976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-206340-1	CW-2-01	Dissolved	Water	200.8	692560
280-206340-2	CW-2-02	Dissolved	Water	200.8	692560
280-206340-3	CW-2-03	Dissolved	Water	200.8	692560
280-206340-4	CW-2-04	Dissolved	Water	200.8	692560
280-206340-5	CW-2-05	Dissolved	Water	200.8	692560
MB 280-692560/1-A	Method Blank	Total Recoverable	Water	200.8	692560
LCS 280-692560/2-A	Lab Control Sample	Total Recoverable	Water	200.8	692560
280-206340-1 MS	CW-2-01	Dissolved	Water	200.8	692560
280-206340-1 MSD	CW-2-01	Dissolved	Water	200.8	692560

Lab Chronicle

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

Job ID: 280-206340-1

Client Sample ID: CW-2-01
Date Collected: 04/17/25 06:00
Date Received: 04/18/25 09:07

Lab Sample ID: 280-206340-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	200.8			50 mL	50 mL	692560	04/21/25 15:25	SLH	EET DEN
Dissolved	Analysis	200.8		1			692976	04/23/25 04:32	LMT	EET DEN

Client Sample ID: CW-2-02
Date Collected: 04/17/25 09:00
Date Received: 04/18/25 09:07

Lab Sample ID: 280-206340-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	200.8			50 mL	50 mL	692560	04/21/25 15:25	SLH	EET DEN
Dissolved	Analysis	200.8		1			692976	04/23/25 04:50	LMT	EET DEN

Client Sample ID: CW-2-03
Date Collected: 04/17/25 12:00
Date Received: 04/18/25 09:07

Lab Sample ID: 280-206340-3
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	692560	04/21/25 15:25	SLH	EET DEN
Dissolved	Analysis	200.8		1			692976	04/23/25 05:01	LMT	EET DEN

Client Sample ID: CW-2-04
Date Collected: 04/17/25 15:00
Date Received: 04/18/25 09:07

Lab Sample ID: 280-206340-4
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	692560	04/21/25 15:25	SLH	EET DEN
Dissolved	Analysis	200.8		1			692976	04/23/25 05:04	LMT	EET DEN

Client Sample ID: CW-2-05
Date Collected: 04/17/25 18:00
Date Received: 04/18/25 09:07

Lab Sample ID: 280-206340-5
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	692560	04/21/25 15:25	SLH	EET DEN
Dissolved	Analysis	200.8		1			692976	04/23/25 05:08	LMT	EET DEN

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

Accreditation/Certification Summary

Client: Grand Island Resources
Job ID: 280-206340-1
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	10-31-26
A2LA	ISO/IEC 17025	2907.01	10-31-26
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	11-30-25
Arizona	State	AZ0713	12-20-25
Arkansas DEQ	State	88-00687	04-02-26
California	State	2513	01-08-26
Colorado	Petroleum Storage Tank Program	2907.01 (A2LA)	10-31-26
Colorado	State	CO00026	06-30-25
Connecticut	State	PH-0686	09-30-26
Florida	NELAP	E87667	06-30-25
Georgia	State	4025	01-08-26
Illinois	NELAP	200017	05-31-25
Iowa	State	370	12-01-26
Kansas	NELAP	E-10166	04-30-25
Kentucky (WW)	State	KY98047	12-31-25
Louisiana	NELAP	30785	06-30-14 *
Louisiana (All)	NELAP	30785	06-30-25
Minnesota	NELAP	1788752	12-31-25
Nevada	State	CO00026	07-31-25
New Hampshire	NELAP	2053	04-28-25
New Jersey	NELAP	230001	06-30-25
New York	NELAP	11964	04-01-26
North Dakota	State	R-034	01-08-25 *
Oklahoma	NELAP	8614	08-31-25
Oregon	NELAP	4025	01-08-26
Pennsylvania	NELAP	68-00664	07-31-25
South Carolina	State	72002001	01-18-25 *
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183	09-30-25
US Fish & Wildlife	US Federal Programs	058448	07-31-25
USDA	US Federal Programs	P330-20-00065	12-19-25
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO00026	07-31-25
Virginia	NELAP	460232	06-14-25
Washington	State	C583	08-03-25
West Virginia DEP	State	354	11-30-25
Wisconsin	State	999615430	08-31-25
Wyoming (UST)	A2LA	2907.01	10-31-26

* 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

Client Information	Sampler: JP Brewer	Lab PM: Bieniulis, Dylan T	Carrier Tracking No(s):	COC No:
Client Contact: Brooke Molson Moran	Phone: 303-304-1183	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:			**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)
City: Lakewood	TAT Requested (days):			
State, Zip: CO, 80466	Compliance Project: Δ Yes Δ No			
Phone: 315-414-6986	PO #: Not required			Other:
Email: bmolsonm@g.emporia.edu	WO #:			
Project Name: Nederland, CO	Project #: 28025589			
Site: Groundwater Sampling	SSOW#:			

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 - Dissolved Metals - Copper Only (Field Filtered)	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	D	X	
CW-2-01	4-17-25	6am	G	W			X		
CW-2-02	4-17-25	9am	G	W			X		
CW-2-03	4-17-25	12pm	G	W			X		
CW-2-04	4-17-25	3pm	G	W			X		
CW-2-05	4-17-25	6pm	G	W			X		

280-206340 Chain of Custody

Possible Hazard Identification
Non-Hazard (circled) 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 ____ 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	4-17-25 6:30pm	GIR			
2		4-18-25 7:15	GIR		04-18-25 0907	SEL
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: T:2.8 CF:0.3 IR:NAGA

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Grand Island Resources

Job Number: 280-206340-1

Login Number: 206340
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	