

THIRD QUARTER 2024

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

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

Prepared by Grand Island Resources
OCTOBER 30, 2024



Table of Contents

1.	Background	3
2.	Ground Water Monitoring.	6
2.1.	Water Quality Analytical Results	6
2.2.	Groundwater Levels and Potentiometric Water Surface	8
3.	Mine Effluent Monitoring	12
4.	Surface Water Monitoring	. 14
4.1.	Water Quality Analytical Results	. 14
4.2.	Surface Water Flows.	. 14
5.	Quality Management (Quality Control & Quality Assurance)	17
5.1.	Groundwater	17
5.2.	Mine Effluent	17
5.3.	Surface Water	17
6.	NPDES permit CO-0032751 Outfall 001	18

List of Appendices

APPENDIX A GROUNDWATER AND EFFLUENT ANALYTICAL RESULTS
APPENDIX A.1 SEPTEMBER 2024 GROUNDWATER AND EFFLUENT ANALYTICAL
RESULTS

APPENDIX B OUTFALL-001 ANALYTICAL RESULTS

APPENDIX B.1 JULY 2024 OUTFALL-001 ANALYTICAL RESULTS

APPENDIX B.2 AUGUST 2024 OUTFALL-001 ANALYTICAL RESULTS

APPENDIX B.3 SEPTEMBER 2024 OUTFALL-001 ANALYTICAL RESULTS

APPENDIX C SURFACE WATER ANALYTICAL RESULTS

APPENDIX C.1 SEPTEMBER 2024 SURFACE WATER ANALYTICAL RESULTS

APPENDIX D CHAIN OF CUSTODY (COC) FORMS

APPENDIX E FIELD SHEETS

APPENDIX F SURFACE WATER STATION PHOTOGRAPHS



1. Background

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

The terms of TR-10 approved by the Division were thereby incorporated into Permit No. M-1977-410. All other conditions and requirements of Permit No. M-1977-410 remain in full force and effect. Grand Island Resources (The Operator) will need to provide five consecutive quarters of groundwater monitoring data that include all sampling parameters and standards required by *WQCC's "Interim Narrative Standard"*. At the time of issuance or this Quarterly Report, the Operator has collected and has analyzed, via third party laboratory, site waters from 7 monitoring locations, from May 2022 through January of 2024.

Water effluent from the mines is currently managed via the Treatment System into Coon Track Creek under CDPHE Water Quality Control Division (WQCD) National Pollutant Discharge Elimination System NPDES permit CO-0032751. Compliance samples from the Water Treatment System OUTFALL-001 are collected and tested twice per month; the results are submitted to CDPHE.

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

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

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



methods, expected disturbance, and impacts prevention mechanisms prior to commencement of the activities. Upon receiving written approval by DRMS, GIR will implement the actions.

The quarterly reports must include:

- 1.1. Analytical results for the 7 sampling locations described in Technical Revision #10 (TR10 Figure 6),
- 1.2. Monthly Potentiometric Surface (water table) maps constructed from water table measurements taken during the sampling events. Figures 27, 28 and 29 depict surfaces for the months of July, August and September 2024, respectively,
- 1.3. Water Quality analytical results summary tables highlighting exceedances of select parameters from Regulation 41, Tables 1-4 water quality standards,
- 1.4. Laboratory data packages,
- 1.5. Chain of Custody sheets,
- 1.6. Field sheets for the sampling event(s).

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

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

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

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

Adjustment to Sampling Frequency

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

Adjustment to Sampling Points

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

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

Resulting from TR-14 partial approval, the sample collected by GIR on September 23, 2024, serves as the sample for the Third Quarter 2024 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 Third Quarter of 2024 (September 23, 2024) reflects the approved TR-15 Analyte List.



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 September 2024. The results are presented as required and in accordance with the revised Analytical Parameters approved by DRMS as described in the preceding paragraph, the test results are compared with the most stringent concentrations (Standard) based on DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT Water Quality Control Commission REGULATION NO. 41 -THE BASIC STANDARDS FOR GROUNDWATER 5 CCR 1002-41. Water Quality Analytical Results from the Laboratories are provided in the appendices of this report.



Table 2.1.1 Groundwater Quality Test Results – Sample Date September 23, 2024

Parameter	Standard	Cross Wel	Caribou Wen	Compliance Wen	Compliance Well Duplicate	Field Blank	Unit	Comments
Aluminum (Al)	5	ND	0.023	0.019	ND	0.036	mg/l	Dissolved
Antimony (Sb)	0.006	0.00055	ND	ND	ND	ND	mg/l	Dissolved
Arsenic (As)	0.01	ND	ND	ND	ND	ND	mg/l	Dissolved
Barium (Ba)	2	0.031	0.0097	0.042	0.043	0.0015	mg/l	Dissolved
Beta and Photon Emitters	4	0.609	0.329	1.19	1.7	0.725	pCi/l	Std is in mrem/year; Lab reports pCi/l
Boron (B)	0.75	0.006	0.0025	0.0049	0.0035	0.0015	mg/l	Dissolved
Cadmium (Cd)	0.005	ND	ND	ND	ND	ND	mg/l	Dissolved
Chloride (Cl)	250	4.2	ND	3.1	3.1	ND	mg/l	Dissolved
Copper (Cu)	0.2	0.0037	0.099	ND	ND	ND	mg/l	Dissolved
Gross Alpha Particle Activity	15	1.39	0.327	0.779	0.259	0.115	pCi/l	
Iron (Fe)	0.3	0.048	0.013	ND	0.0093	ND	mg/l	Dissolved
Lead (Pb)	0.05	ND	ND	ND	ND	ND	mg/l	Dissolved
Manganese (Mn)	0.05	0.007	0.0031	0.0066	0.0075	ND	mg/l	Dissolved
Molybdenum (Mo)	0.21	0.00082	ND	0.0047	0.0048	ND	mg/l	Dissolved
Nitrate (NO3)	10.0	0.33	0.15	0.35	0.35	ND	mg/l as N	Dissolved
Nitrate-Nitrite (total)	10.0	0.36	0.096	0.38	0.38	ND	mg/l as N	Dissolved
pH (field)	6.5 - 8.5	7.3	7.0	6.9	6.9		pH units	
Sulfate (SO4)	250	9.9	3	9.4	9.4	ND	mg/l	Dissolved
TDS	400	99	37	91	88	36	mg/l	Total
Uranium (U)	0.0168 -0.03	0.000066	ND	0.00015	0.00014	ND	mg/l	Dissolved
Zinc (Zn)	2	1.5	0.0092	0.089	0.086	ND	mg/l	Dissolved
The highlighted cells Indicate Te	est Results Higher	r than the Refere	nce Values from	Reg. 5 CCR 1002-41				

The highlighted cells Indicate Test Results Higher than the Reference Values from Reg. 5 CCR 1002-4:

"ND" Indicates Not Detected



2.2. Groundwater Levels and Potentiometric Water Surface

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

Tables 2.2.1 - July, 2.2.2 August, and 2.2.3 September, provide date and groundwater elevations. The groundwater elevations shown on the tables were used to develop the potentiometric water surfaces depicted on Figures 27, 28, and 29 for the month of July, August and September 2024, respectively.

Please note that no data was logged for the Cabin Well for the months of July and August due to automated transducer failure, that condition has been corrected.

Table 2.2.1 Wells and Winze Groundwater Elevation – July 23, 2024

Groundwa	ter Elevation -	July
WELL	COLLAR ELEV.	7/23/2024
VVELL	Ft. A	MSL
Caribou	9,744.25	9,705.52
Cabin (Compliance)	9,677.35	NO DATA
Cross	9,692.85	9,642.64
Winze	9,697.48	9,654.10

Table 2.2.2 Wells and Winze Groundwater Elevation – August 23, 2024

Groundwate	er Elevation - A	ugust
WELL	COLLAR ELEV.	8/23/2024
VVELL	Ft. A	MSL
Caribou	9,744.25	9,707.06
Cabin (Compliance)	9,677.35	NO DATA
Cross	9,692.85	9,645.70
Winze	9,697.48	9,643.60

Table 2.2.3 Wells and Winze Groundwater Elevation – September 23, 2024

Groundwater	Elevation - Sep	tember
WELL	COLLAR ELEV.	9/23/2024
VVELL	Ft. A	MSL
Caribou	9,744.25	9,709.07
Cabin (Compliance)	9,677.35	9,634.68
Cross	9,692.85	9,646.79
Winze	9,697.48	9,652.50



Figure 27 Potentiometric Water Surface – July 2024

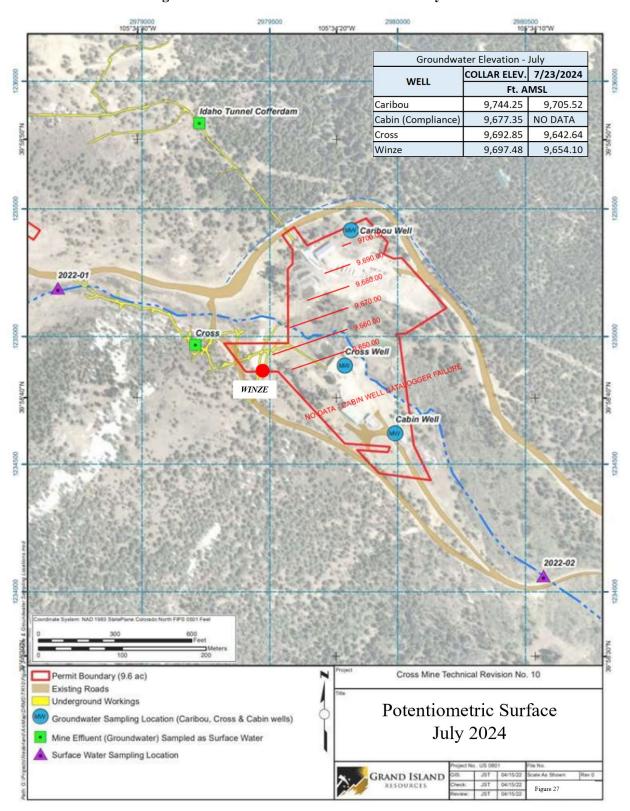




Figure 28 Potentiometric Water Surface – August 2024

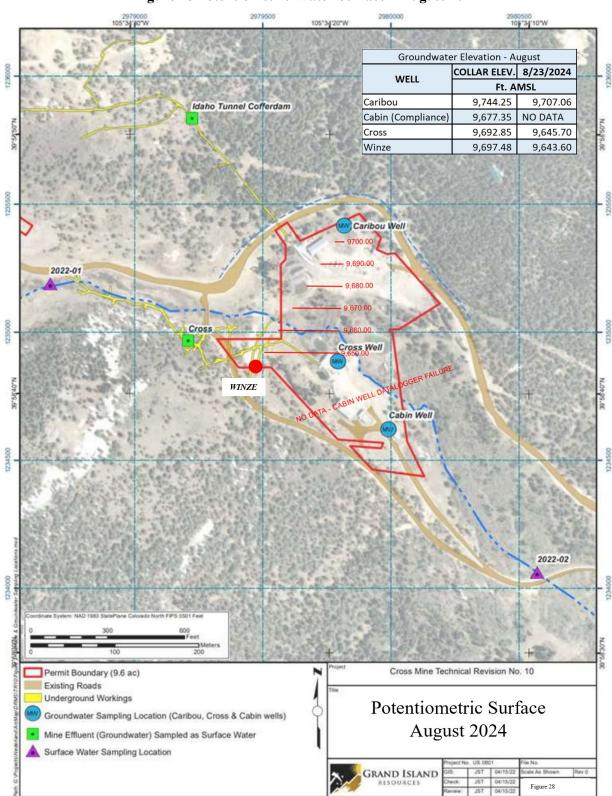
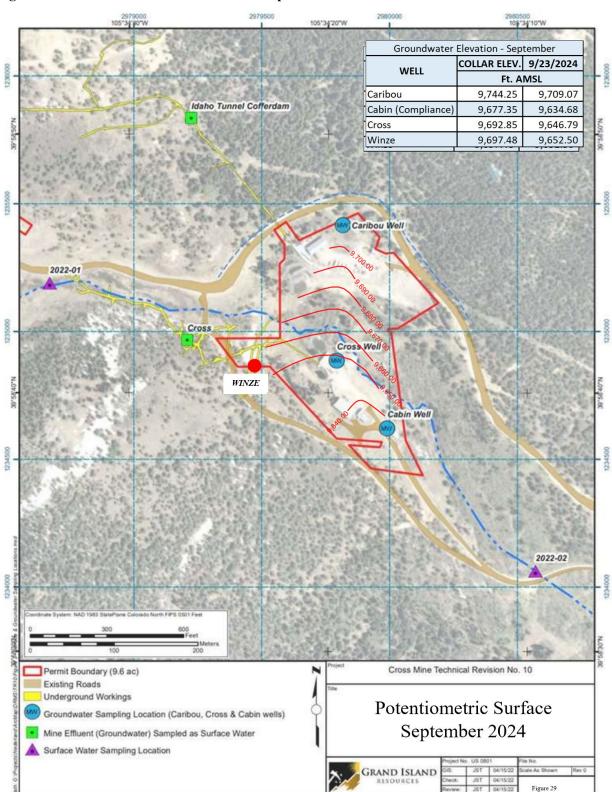




Figure 29 Potentiometric Water Surface – September 2024





3. Mine Effluent Monitoring

Two mine effluent monitoring locations corresponding to points of interest within the GIR site were selected by DRMS as part of the program. One station is in the Cross Mine and one station is in the Idaho Tunnel/Caribou Mine, namely Cross Portal and Caribou Portal, respectively. Water Quality Analytical Results are summarized on Table 3.1. for the month of September 2024. The complete Water Quality Analytical Results from the Laboratories are provided in Appendix A.

Mine effluent reports to the Water Treatment Plant and discharges via the NPDES permit CO-0032751 Outfall 001 (see section 6 for DMR Copy of Record).



Table 3.1 Effluent Quality Test Results – Sample Date September 23, 2024

Parameter	Standard	Cross Port	Cross Portal Duplicate	Caribou Port	Unit	Comments
Aluminum (Al)	5	ND	ND	ND	mg/l	Dissolved
Antimony (Sb)	0.006	0.00042	0.00053	0.00089	mg/l	Dissolved
Arsenic (As)	0.01	ND	ND	ND	mg/l	Dissolved
Barium (Ba)	2	0.072	0.073	0.063	mg/l	Dissolved
Beta and Photon Emitters	4	1.41	1.68	1.75	pCi/l	Std is in mrem/year; Lab reports pCi/l
Boron (B)	0.75	0.0041	0.0041	0.0037	mg/l	Dissolved
Cadmium (Cd)	0.005	0.0013	0.0012	ND	mg/l	Dissolved
Chloride (Cl)	250	ND	ND	ND	mg/l	Dissolved
Copper (Cu)	0.2	0.0018	0.0018	ND	mg/l	Dissolved
Gross Alpha Particle Activity	15	2.43	1.01	7.72	pCi/l	
Iron (Fe)	0.3	0.011	ND	0.012	mg/l	Dissolved
Lead (Pb)	0.05	0.00072	0.00072	ND	mg/l	Dissolved
Manganese (Mn)	0.05	0.0099	0.0093	0.0038	mg/l	Dissolved
Molybdenum (Mo)	0.21	0.0069	0.0066	0.0068	mg/l	Dissolved
Nitrate (NO3)	10.0	0.13	0.13	0.19	mg/l as N	Dissolved
Nitrate-Nitrite (total)	10.0	0.09	0.083	0.11	mg/l as N	Dissolved
pH (field)	6.5 - 8.5	7.9	7.9	8.3	pH units	
Sulfate (SO4)	250	11	11	12	mg/l	Dissolved
TDS	400	120	120	140	mg/l	Total
Uranium (U)	0.0168 -0.03	0.00077	0.00077	0.0062	mg/l	Dissolved
Zinc (Zn)	2	0.23	0.22	0.0083	mg/l	Dissolved
The highlighted cells Indicate Te	est Results Highe	r than the Refere	ence Values from	Reg. 5 CCR 1002	-41	

[&]quot;ND" Indicates Not Detected

M-1977-410 3rd Quarter 2024 Report October 30, 2024



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 collected on September 23, 2014, from surface water sampling station 2022-02 exclusively because no surface water flows were observed at station 2022-01. Table 4.1.1 provides Analytical Results for the 3rd Quarter 2024.

4.2. Surface Water Flows

Surface water flow measurements were taken during the 3rd Quarter of 2024 for surface water station 2022-02 at the time of the sampling event. Table 4.2.1 present the estimated corresponding flows.



Table 4.1.1 Surface Water Analytical Results – September 2024

Parameter	Sta 2202-01	Sta 2202-02	Sta. 2022-02 Duplicate	Units
Cadmium Total Recoverable		0.33	ND	ug/L
Copper Potentially Dissolved	the	ND	ND	ug/L
Copper Total Recoverable	Bu	0.81	ND	ug/L
Field pH	iri	8.1	8.1	ug/L
Field Temperature	observed during the	7.2	7.2	Degrees C
Iron Total Recoverable	Š	67	69	ug/L
Lead Potentially Dissolved	<u> </u>	0.36	0.46	ug/L
Lead Total Recoverable	flows were ob ampling event	0.66	0.64	ug/L
Manganese Potentially Dissolved	were	2.3	3.6	ug/L
Mercury	, w	ND	ND	ug/L
Nickel Potentially Dissolved	Water flows samplin	ND	ND	ug/L
pH adj. to 25 deg C	. flc	8.1	8.1	SU
Silver Potentially Dissolved] s	ND	ND	ug/L
Specific Conductance	_ ×	230	230	umhos/cm
Specific Conductance Total	S e	230	230	umhos/cm
Temperature	Surface	19.6	20.9	Degrees C
Total Suspended Solids	Su	1.6	ND	mg/L
Zinc Total Recoverable	o S	15	17	ug/L
Zinc Potentially Dissolved	_	23	19	ug/L



Table 4.2.1 Surface Water Flow Estimates – September 2024

Station	Velocity fps	Depth ft	Width ft	Flow gpm
2022-01	dry bed	1	1	1
2022-02	0.45	0.38	1.67	126.5

M-1977-410 3rd Quarter 2024 Report October 30, 2024



5. Quality Management (Quality Control & Quality Assurance)

Grand Island Resources (GIR) is committed to meeting expectations pertaining to the TR10 water quality data collection including proper water sample collection and testing via a Quality Management Program which is founded on Quality Assurance aimed to prevent errors. The program incorporates, among others, Standard Operating Procedures, Sample Collection Protocols, Chains of Custody, and the selection of State Credited Testing Laboratories which have internal Quality Control and Quality Assurance Methods and Standards. Quality Control aimed to identify errors is implemented via testing of one or more of the following Field or Laboratory: Duplicate Samples, Field Blanks and Matrix Spikes.

On Monday March 13, 2023, GIR consulted with Mr. Patrick Lennberg of DRMS (via telephone) a specific deficiency noted by DRMS on their letter of March 2, 2023, requesting additional information of the GIR 1st Quarter 2022 Report; the conclusion of the review and phone conversation is that the SOP approved under TR10 states field duplicate samples will be collected side-by-side with the primary sample. The Operator shall collect one field duplicate sample for each media sampled (groundwater, effluent, and surface water), for a total of 3 duplicate samples to be collected per sampling event as committed to in TR10. GIR initiated the collection of the Field Duplicate for each media sampled on the March 2023 sampling event and will continue to do so for all sampling events going forward.

5.1. Groundwater

Trip Blank Samples were collected at the Cabin Well (Compliance) and Field Duplicate samples were collected from the Cabin Well (Compliance) during the September 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 September 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

Field Duplicates were collected from Station 2022-02.

M-1977-410 3rd Quarter 2024 Report October 30, 2024



6. NPDES permit CO-0032751 Outfall 001

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

Tables 6.1, 6.2 and 6.3 present the DMR Copies of Record filed by the Operator with CDPHE for the month of June, July and August 2024, respectively. Copies of Record for September 2024 will be included in the Fourth Quarter 2024 Report.



Table 6.1 DMR June 2024

Form Approved OMB No. 2040-0004 expires on 07/31/2026 **DMR Copy of Record** 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(I)(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 CO0032751 Grand Island Resources LLC CROSS AND CARIBOU MINES Facility: Permit #: Permittee: Permittee Address: 12567 W Cedar Dr Ste 110 Facility Location: CROSS AND CARIBOU MINES No Major: Lakewood, CO 80228 BOULDER COUNTY, CO 80466 Permitted Feature: Discharge: External Outfall Treated Mine Water to Coon Track Creek Report Dates & Status Status: NetDMR Validated **Monitoring Period:** From 06/01/24 to 06/30/24 DMR Due Date: 07/28/24 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: Frequency of Sample Type Analysis Parameter Quantity or Loading Quality or Concentration Qualifier Value Qualifier Value 2 Qualifier Value 1 Qualifier Value 2 Value 3 Units Name Qualifier RC - Recorder (auto) 7.0 7.7 99/99 - Continuous Permit Req. Req Mon DAILY MX 00010 Temperature, water deg. centigrade Req Mon MX WK AV Value NODI 02/30 - Twice Per Month Sample 7.3 8.1 12 - SU GR - GRAB 1 - Effluent 02/30 - Twice Per 9.0 MAXIMUM 12 - SU 0 00400 pH Gross Req. Value NODI 4.0 01/30 - Monthly GR - GRAB Permit Req. 1 - Effluent 30.0 30DA AVG 45.0 DAILY MX 19 - mg/L ₀ 01/30 - Monthly GR - GRAB 00530 Solids, total suspended Gross Value NODI 5.0 28 - ug/L 01/30 - Monthly GR - GRAB Permit Req. 1 - Effluent Req Mon 30DA AVG 28 - ug/L 0 01/30 - Monthly GR - GRAB 00978 Arsenic, total recoverable Gross Value NODI 42.0 28 - ug/L 01/30 - Monthly GR - GRAB 1 - Effluent Reg Mon 30DA AVG 01/30 - Monthly GR - GRAB 00980 Iron, total recoverable Req. Gross Value NODI 15.0 15.0 28 - ug/L 01/30 - Monthly GR - GRAB 1500.0 DAILY MX GR - GRAB 1 - Effluent 750.0 30DA AVG 01/30 - Monthly 01094 Zinc, total recoverable Gross GR - GRAB 28 - ug/L 01/30 - Monthly Permit Req. 28 - ug/L 0 1 - Effluent 50.0 30DA AVG 300.0 DAILY MX 01/30 - Monthly GR - GRAB 01113 Cadmium, total recoverable 0 Value NODI



Table 6.1 DMR June 2024 (continued)

		1 - Effluent			Sample	-	1.5	=	1.7	28 - ug/L	Month	GR - GRAB
)1114	Lead, total recoverable	Gross	0		Permit Req.	<=	300.0 30DA AVG	<=	600.0 DAILY MX	28 - ug/L 0	02/30 - Twice Per Month	GR - GRAB
					Value NODI							
			_			_	1.8	=	2.2	28	02/30 - Twice Per	GR - GRAB
		4 Effluent			Sample		1.8	=		28 - ug/L	Month	GR - GRAB
1119	Copper, total recoverable	1 - Effluent Gross	0		Permit Req.	<=	150.0 30DA AVG	<=	300.0 DAILY MX	28 - ug/L 0	02/30 - Twice Per Month	GR - GRAB
					Value NODI							
					Sample	<	20.0	<	20.0	28 - ug/L	01/30 - Monthly	GR - GRAB
1220	Chromium, hexavalent dissolved [as		0		Permit Req.		Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L 0	01/30 - Monthly	GR - GRAB
1220	Cr]	Gross	0		Value					- 0		
			_		NODI						02/30 - Twice Per	
					Sample	-	32.5	=	35.0	28 - ug/L	Month	GR - GRAB
1303	Zinc, potentially dissolved	1 - Effluent Gross	6		Permit Req.	<=	262.0 30DA AVG	<=	301.0 DAILY MX	28 - ug/L 0	02/30 - Twice Per Month	GR - GRAB
		0.000			Value							
					NODI				0.5	20	02/30 - Twice Per	00.0040
					Sample			<	0.5	28 - ug/L	Month	GR - GRAB
1304	Silver, potentially dissolved	1 - Effluent Gross	6		Permit Req.	<=	0.17 30DA AVG	<=	4.7 DAILY MX	28 - ug/L 0	02/30 - Twice Per Month	GR - GRAB
		Gloss			Value NODI		B - Below Detection Limit/No Detection					
					Sample	=	1.64	-	2.3	28 - ug/L	02/30 - Twice Per	GR - GRAB
4200	Conner notorfielly dieselved	1 - Effluent	6		Permit	<=	13.0 30DA AVG	<=	20.0 DAILY MX	28 - ug/L 0	Month 02/30 - Twice Per	GR - GRAB
1300	Copper, potentially dissolved	Gross	0		Req. Value		15.0 30DA AVG	~=	20.0 DAILY WA	20 - ug/L 0	Month	GR - GRAD
					NODI							
					Sample			<	5.0	28 - ug/L	01/30 - Monthly	GR - GRAB
1309	Arsenic, potentially dissolved	1 - Effluent Gross	0		Permit Req.				Req Mon DAILY MX	28 - ug/L 0	01/30 - Monthly	GR - GRAB
		Cross			Value NODI							
					Sample			<	1.0	28 - ug/L	02/30 - Twice Per	GR - GRAB
		4 550			Permit						Month 02/30 - Twice Per	-
1313	Cadmium, potentially dissolvd	1 - Effluent Gross	6		Req.	<=	0.89 30DA AVG	<=	3.7 DAILY MX	28 - ug/L 0	Month	GR - GRAB
					Value NODI		B - Below Detection Limit/No Detection					
					Sample	<	20.0			28 - ug/L	01/30 - Monthly	GR - GRAB
4244	Chromium, trivalent, potentially	1 - Effluent	0		Permit		Req Mon 30DA AVG			28 - ug/L 0	01/30 - Monthly	GR - GRAB
1314	dissolvd	Gross	U	_	Req. Value					- 0		
			_		NODI							
					Sample	=	1.55	=	2.0	28 - ug/L	02/30 - Twice Per Month	GR - GRAB
1318	Lead, potentially dissolvd	1 - Effluent Gross	6		Permit Req.	<=	5.4 30DA AVG	<=	140.0 DAILY MX	28 - ug/L 0	02/30 - Twice Per Month	GR - GRAB
		0.000			Value							
					NODI Sample	=	0.58	=	0.58	28 - ug/L	01/30 - Monthly	GR - GRAB
40/5		1 - Effluent			Permit		Req Mon 30DA AVG		Reg Mon DAILY MX	28 - ug/L 0		GR - GRAB
1319	Manganese, potentially dissolvd	Gross	0		Req. Value		,			0		
					NODI							
					Sample Permit	<	3.0	<	3.0	28 - ug/L	01/30 - Monthly	GR - GRAB
1322	Nickel, potentially dissolvd	1 - Effluent Gross	0		Req.		Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L 0	01/30 - Monthly	GR - GRAB
					Value NODI							
					Sample	<	5.0	<	5.0	28 - ug/L	01/30 - Monthly	GR - GRAB
1323	Selenium, potentially dissolvd	1 - Effluent	0		Permit Req.		Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L 0	01/30 - Monthly	GR - GRAB
_		Gross			Value							
					NODI Sample							
		4 5501			Permit			<=	10.0 INST MAX	19 - mg/L	77/77 - Contingent	GR - GRAB
3582	Oil and grease	1 - Effluent Gross	0		Req.						3-111	-
					Value NODI				9 - Conditional Monitoring - Not Required This Period			
			_		Cample			-	20.0	20//	04/20 14	GR - GRAB
					Sample			<	20.0	28 - ug/L	01/30 - Monthly	OK - OKAD



Table 6.1 DMR June 2024 (continued)

	Gross	0	-	Value NODI									0		
				Sample				-	0.278199	=	0.346041		03 - MGD	99/99 - Continuous	RC - Re (auto)
50050 Flow, in conduit or thru trea	ment 1 - Effluent Gross	6		Permit Req.				<=	0.458 30DA AVG		Req Mon DAILY MX		03 - MGD 0	99/99 - Continuous	DO D-
plant	Gioss			Value									MOD		(auto)
				NODI Sample				<	1.0				19 - mg/L	01/30 - Monthly	GR - GR
51202 Sulfide-hydrogen sulfide	1 - Effluent	0		Permit Req.					Reg Mon 30DA AVG				19 - mg/L ₀		GR - GR
[undissociated]	Gross	U		Value									- 0		
				NODI Sample				<	0.2	<	0.2		28 - ug/L	01/30 - Monthly	GR - GR
71900 Mercury, total [as Hg]	1 - Effluent	0	_	Permit Req.				<=	1.0 30DA AVG	<=	2.0 DAILY MX		28 - ug/L 0		GR - GR
7 1900 Mercury, total [as rig]	Gross	U	-	Value NODI									°		
				Sample		0.0	AB - abst=0;prst=1							02/30 - Twice Per	VI - VISU
04066 Oil and greens visual	1 - Effluent		_	Permit		Req Mon INST	abst=0;prst=1 AB -						0	Month 02/30 - Twice Per	VI - VISU
84066 Oil and grease visual	Gross	U	-	Req. Value		MAX	abst=0;prst=1						0	Month	VI - VISC
If a parameter row does not contain Edit Check Errors No errors.	any values for the Sam	ple nor E	Effluent Tra	ading, then none o	f the following	g fields will be su	bmitted for that row: Ui	nits, Number of E	cursions, Frequency of Analy	sis, and Sam	ole Type.				
Edit Check Errors	any values for the Sam	ple nor E	Effluent Tra	ading, then none o	f the following	j fields will be su	bmitted for that row: Ui	nits, Number of E	cursions, Frequency of Analy	sis, and Sam	ole Type.				
Edit Check Errors No errors. Comments	any values for the Sam	ple nor E	Effluent Tra	ading, then none o	f the following	g fields will be su	bmitted for that row: Ui	nits, Number of E	cursions, Frequency of Analy	sis, and Sam	ole Type.				
Edit Check Errors No errors.	any values for the Sam	ple nor E	Effluent Tra	ading, then none o			bmitted for that row: Ui	nits, Number of E	cursions, Frequency of Analy	sis, and Sam	ole Type.	Total		Cia.	
Edit Check Errors No errors. Comments Attachments	any values for the Sam	ple nor E	Effluent Tra	ading, then none o) fields will be su	bmitted for that row: Ui	nits, Number of E	cursions, Frequency of Analy	sis, and Sam		Туре	202444.0	Size	
Edit Check Errors No errors. Comments Attachments C00032751_DMRcov_2024_06.pdf		ple nor E	Effluent Tra	ading, then none o			bmitted for that row: Ui	its, Number of E	cursions, Frequency of Analy	sis, and Sam	pdf	Туре	202111.0	Size	
Edit Check Errors No errors. Comments Attachments CO0032751_DMRcov_2024_06.pdf CO0032751_Lab_2024_06_J192702-1	_06-12-24.pdf	ple nor E	Effluent Tra	ading, then none o			bmitted for that row: Ui	tis, Number of E:	cursions, Frequency of Analy	sis, and Sam		Туре	202111.0 1097033.0 1016312.0	Size	
Edit Check Errors No errors. Comments Attachments C00032751_DMRcov_2024_06.pdf	_06-12-24.pdf	ple nor E	Effluent Tra	ading, then none o			bmitted for that row: Ui	nits, Number of E:	cursions, Frequency of Analy	sis, and Sam	pdf pdf	Туре	1097033.0	Size	
Edit Check Errors No errors. Comments Attachments CO0032751_DMRcov_2024_06.pdf CO0032751_Lab_2024_06_J192702-1 CO0032751_Lab_2024_06_J193445-1	_06-12-24.pdf	ple nor E	Effluent Tra	ading, then none o			bmitted for that row: Ui	nits, Number of E:	cursions, Frequency of Analy	sis, and Sam	pdf pdf	Туре	1097033.0	Size	
Edit Check Errors No errors. Comments Attachments C00032751_DMRcov_2024_06.pdf C00032751_Lab_2024_06_J192702-1 C00032751_Lab_2024_06_J193445-1 Report Last Saved By	_06-12-24.pdf		JOHNRINI				bmitted for that row: Ui	nits, Number of E:	requency of Analy	sis, and Sam	pdf pdf	Туре	1097033.0	Size	
Edit Check Errors No errors. Comments Attachments C00032751_DMRcov_2024_06.pdf C00032751_Lab_2024_06_J192702-1 C00032751_Lab_2024_06_J193445-1 Report Last Saved By Grand Island Resources LLC	_06-12-24.pdf			ко			bmitted for that row: Ui	nits, Number of E	ccursions, Frequency of Analy	sis, and Sam	pdf pdf	Туре	1097033.0	Size	
Edit Check Errors No errors. Comments Attachments C00032751_DMRcov_2024_06_pdf C00032751_Lab_2024_06_J192702-f C00032751_Lab_2024_06_J193445-1 Report Last Saved By Grand Island Resources LLC User:	_06-12-24.pdf		JOHNRINI John Rir	ко			bmitted for that row: Ui	nits, Number of E	cursions, Frequency of Analy	sis, and Sam	pdf pdf	Туре	1097033.0	Size	
Edit Check Errors No errors. Comments Attachments C00032751_DMRcov_2024_06.pdf C00032751_Lab_2024_06_J192702-f C00032751_Lab_2024_06_J193445-1 Report Last Saved By Grand Island Resources LLC User: Name:	_06-12-24.pdf		JOHNRINI John Rir johnrinko⊚	KO nko			bmitted for that row: Ui	nits, Number of E	cursions, Frequency of Analy	sis, and Sam	pdf pdf	Туре	1097033.0	Size	
Edit Check Errors No errors. Comments Attachments CO0032751_DMRcov_2024_06.pdf CO0032751_Lab_2024_06_J192702-1 CO0032751_Lab_2024_06_J193445-1 Report Last Saved By Grand Island Resources LLC User: Name: E-Mail:	_06-12-24.pdf		JOHNRINI John Rir johnrinko⊚	KO kko ⊋yahoo.com			bmitted for that row: Ui	nits, Number of E:	cursions, Frequency of Analy	sis, and Sam	pdf pdf	Туре	1097033.0	Size	
Edit Check Errors No errors. Comments Attachments C00032751_DMRcov_2024_06.pdf C00032751_Lab_2024_06_J192702- C00032751_Lab_2024_06_J193445-1 Report Last Saved By Grand Island Resources LLC User: Name: E-Mail: Date/Time:	_06-12-24.pdf		JOHNRINI John Rir johnrinko⊚	KO Iko ②yahoo.com 8 21:17 (Time Z			bmitted for that row: Ui	nits, Number of E	cursions, Frequency of Analy	sis, and Sam	pdf pdf	Туре	1097033.0	Size	
Edit Check Errors No errors. Comments Attachments C00032751_DMRcov_2024_06.pdf C00032751_Lab_2024_06_J192702-(C00032751_Lab_2024_06_J193445-1 Report Last Saved By Grand Island Resources LLC User: Name: E-Mail: Date/Time: Report Last Signed By	_06-12-24.pdf		JOHNRINI John Rir johnrinko@ 2024-07-2	KO Iko <u>D</u> yahoo.com 8 21:17 (Time Z			bmitted for that row: Ui	nits, Number of E	ccursions, Frequency of Analy	sis, and Sam	pdf pdf	Туре	1097033.0	Size	
Edit Check Errors No errors. Comments Attachments CC00032751_DMRcov_2024_06.pdf CC00032751_Lab_2024_06_J192702-CC00032751_Lab_2024_06_J193445-1 Report Last Saved By Grand Island Resources LLC User: Name: E-Mail: Date/Time: Report Last Signed By User:	_06-12-24.pdf		JOHNRINI John Rir johnrinko@ 2024-07-2 JOHNRINI John Rir	KO Iko <u>D</u> yahoo.com 8 21:17 (Time Z			bmitted for that row: Ui	nits, Number of E	cursions, Frequency of Analy	sis, and Sam	pdf pdf	Туре	1097033.0	Size	



Table 6.2 DMR July 2024

Form Approved OMB No. 2040-0004 expires on 07/31/2026 **DMR Copy of Record** 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 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 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(I)(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 CO0032751 Grand Island Resources LLC CROSS AND CARIBOU MINES Permit #: Facility: Permittee: Permittee Address: 12567 W Cedar Dr Ste 110 Facility Location: CROSS AND CARIBOU MINES Major: Lakewood, CO 80228 BOULDER COUNTY, CO 80466 Permitted Feature: Discharge: External Outfall Treated Mine Water to Coon Track Creek Report Dates & Status From 07/01/24 to 07/31/24 DMR Due Date: 08/28/24 NetDMR Validated Monitoring Period: Status: 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: Telephone: Last Name: No Data Indicator (NODI) Form NODI: Frequency of Analysis Monitoring Season Param. Location # NODI Quantity or Loading Units Ex. RC - Recorder 04 - deg 7.5 7.9 99/99 - Continuous 1 - Effluent RC - Recorder 00010 Temperature, water deg. centigrade Rea Mon MX WK AV Rea Mon DAILY MX 99/99 - Continuous 02/30 - Twice Per Month 7.5 7.8 12 - SU GR - GRAB Permit Req. 1 - Effluent 6.5 MINIMUM 02/30 - Twice Per 12 - SU 0 GR - GRAB 00400 pH 9.0 MAXIMUM GR - GRAB 19 - mg/L 01/30 - Monthly Permit Req. 1 - Effluent 19 - mg/L ₀ 30.0 30DA AVG 45.0 DAILY MX 01/30 - Monthly GR - GRAB 00530 Solids, total suspended Value NODI GR - GRAB Permit Req. 1 - Effluent Req Mon 30DA AVG 28 - ug/L 0 01/30 - Monthly 00978 Arsenic, total recoverable Value NODI 100.0 01/30 - Monthly GR - GRAB Permit Req. 1 - Effluent Req Mon 30DA AVG 01/30 - Monthly GR - GRAB 00980 Iron, total recoverable Gross Value NODI GR - GRAB 30.0 28 - ug/L 01/30 - Monthly Permit Req. 1 - Effluent 750.0 30DA AVG 1500.0 DAILY MX 01/30 - Monthly GR - GRAB 01094 Zinc, total recoverable Gross GR - GRAB 28 - ug/L 01/30 - Monthly 1 - Effluent 28 - ug/L 0 GR - GRAB 50.0 30DA AVG 300.0 DAILY MX 01/30 - Monthly 01113 Cadmium, total recoverable Gross Value



Table 6.2 DMR July 2024 (continued)

		1 - Effluent			Sample	=	0.94	=	1.0	28 - ug/L	Month	GR - GRAB
1114	Lead, total recoverable	Gross	0		Permit Req.	<=	300.0 30DA AVG	<=	600.0 DAILY MX	28 - ug/L 0	02/30 - Twice Per Month	GR - GRAB
					Value NODI							
					Sample	_	0.49	_	0.97	28 - ug/L	02/30 - Twice Per	GR - GRAB
	0	1 - Effluent			Permit						Month 02/30 - Twice Per	
1119	Copper, total recoverable	Gross	0	-	Req. Value	<=	150.0 30DA AVG	<=	300.0 DAILY MX	28 - ug/L 0	Month	GR - GRAB
					NODI Sample	<	20.0	<	20.0	28 - ug/L	01/30 - Monthly	GR - GRAB
	Chromium, hexavalent dissolved [as	1 - Effluent			Permit	ì	Reg Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L 0		GR - GRAB
1220	Cr]	Gross	0		Req. Value		Tod Woll Sub A A V		rod mon pries mor	20 - 49/2 0	o noo - Monany	OK- OIVID
					NODI Sample	=	31.0	=	37.0	28 - ug/L	02/30 - Twice Per Month	GR - GRAB
1303	Zinc, potentially dissolved	1 - Effluent Gross	7		Permit Req.	<=	221.0 30DA AVG	<=	253.0 DAILY MX	28 - ug/L 0	02/30 - Twice Per Month	GR - GRAB
		01000			Value NODI							
					Sample			<	1.0	28 - ug/L	02/30 - Twice Per Month	GR - GRAB
1304	Silver, potentially dissolved	1 - Effluent	7	_	Permit Req.	<=	0.14 30DA AVG	<=	3.9 DAILY MX	28 - ug/L 0		GR - GRAB
	, -	Gross			Value NODI		B - Below Detection Limit/No Detection					
					Sample	=	0.89	=	0.99	28 - ug/L	02/30 - Twice Per Month	GR - GRAB
1306	Copper, potentially dissolved	1 - Effluent	7		Permit	<=	16.0 30DA AVG	<=	25.0 DAILY MX	28 - ug/L 0	02/30 - Twice Per Month	GR - GRAB
		Gross			Req. Value						Month	
					NODI Sample			<	5.0	28 - ug/L	01/30 - Monthly	GR - GRAB
		1 - Effluent			Permit				Req Mon DAILY MX	28 - ug/L 0		GR - GRAB
1309	Arsenic, potentially dissolved	Gross	0	-	Req. Value				req mon Brief mor	20 - 09/2 0	0 1/30 - Worlding	OIC - OICED
			_		NODI			_			02/30 - Twice Per	
					Sample			<	1.0	28 - ug/L	Month	GR - GRAB
1313	Cadmium, potentially dissolvd	1 - Effluent Gross	7		Permit Req.	<=	0.75 30DA AVG	<=	3.1 DAILY MX	28 - ug/L 0	02/30 - Twice Per Month	GR - GRAB
					Value NODI		B - Below Detection Limit/No Detection					
					Sample	<	20.0			28 - ug/L	01/30 - Monthly	GR - GRAB
1314	Chromium, trivalent, potentially dissolvd	1 - Effluent Gross	0		Permit Req.		Req Mon 30DA AVG			28 - ug/L 0	01/30 - Monthly	GR - GRAB
					Value NODI							
					Sample	=	0.87	=	0.94	28 - ug/L	02/30 - Twice Per Month	GR - GRAB
1318	Lead, potentially dissolvd	1 - Effluent Gross	7		Permit Req.	<=	4.6 30DA AVG	<=	118.0 DAILY MX	28 - ug/L 0	02/30 - Twice Per Month	GR - GRAB
					Value NODI							
					Sample Permit	=	4.0	=	4.0	28 - ug/L	01/30 - Monthly	GR - GRAB
1319	Manganese, potentially dissolvd	1 - Effluent Gross	0		Req.		Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L 0	01/30 - Monthly	GR - GRAB
					NODI		2.0		20	29//	04/20 Manthh	OD ODAR
		1 - Effluent			Sample Permit	<	3.0 Reg Mon 30DA AVG	<	3.0 Reg Mon DAILY MX	28 - ug/L 28 - ug/L	01/30 - Monthly 01/30 - Monthly	GR - GRAB
1322	Nickel, potentially dissolvd	Gross	0		Req. Value		rod mon orbit it is		roq mon British mot	0	o noo - monany	OIC OIGE
					NODI Sample	<	5.0	<	5.0	28 - ug/L	01/30 - Monthly	GR - GRAB
4055		1 - Effluent			Permit		Req Mon 30DA AVG	,	Req Mon DAILY MX		01/30 - Monthly	GR - GRAB
1323	Selenium, potentially dissolvd	Gross	0		Req. Value NODI		,			3-2 0		
					Sample							
3582	Oil and grease	1 - Effluent	0		Permit Req.			<=	10.0 INST MAX	19 - mg/L	77/77 - Contingent	GR - GRAB
	-	Gross			Value NODI				9 - Conditional Monitoring - Not Required This Period			
					Sample			<	20.0	28 - ug/L	01/30 - Monthly	GR - GRAB
	Chromium, trivalent total	1 - Effluent			Permit Req.				Req Mon DAILY MX	28 - ug/L	01/30 - Monthly	GR - GRAB



Table 6.2 DMR July 2024 (continued)

0 1202	recoverable	Gross	0		Value NODI											0		
					Sample					=	0.156233	=	0.316318		03 - MGD		99/99 - Continuous	RC - Rec (auto)
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	7		Permit Req. Value					<=	0.265 30DA AVG		Req Mon DAILY MX		03 - MGD	0	99/99 - Continuous	RC - Rec (auto)
					NODI													
	0.154-1-4	4 500			Sample Permit					<	1.0				19 - mg		01/30 - Monthly	GR - GR
51202	Sulfide-hydrogen sulfide [undissociated]	1 - Effluent Gross	0	-	Req. Value						Req Mon 30DA AVG				19 - mg	^{/L} 0	01/30 - Monthly	GR - GR
				_	NODI Sample					<	0.2	<	0.2		28 - ug/	L	01/30 - Monthly	GR - GR
71900	Mercury, total [as Hg]	1 - Effluent Gross	0		Permit Req.					<=	1.0 30DA AVG	<=	2.0 DAILY MX		28 - ug/		01/30 - Monthly	GR - GR
		GIUSS			Value NODI													
					Sample	-	0.0	AB - abst=0;prst=1									02/30 - Twice Per Month	VI - VISU
84066	Oil and grease visual	1 - Effluent	0		Permit		Reg Mon INST	AB -								0	02/30 - Twice Per	VI - VISU
04000	On and grouse visual	Gross			Req. Value		MAX	abst=0;prst=1								-	Month	
	heck Errors ors.	ues for the Samp	ole nor E	ffluent Tra	ding, then none	of the follow	ing fields will be su	ubmitted for that	row: Units, Nur	nber of Exc	ursions, Frequency of Analysis	s, and Samp	e Type.					
Edit Cl No erro Commo	heck Errors ors. ents	ues for the Samp	ole nor E	ffluent Tra	ding, then none	of the follow	ing fields will be su	ibmitted for that	row: Units, Nur	nber of Exc	ursions, Frequency of Analysis	, and Samp	e Type.					
Edit Cl	heck Errors ors. ents	ues for the Samp	ole nor E	ffluent Tra	ding, then none	of the follow	ing fields will be su	ubmitted for that	row: Units, Nur	nber of Exc	ursions, Frequency of Analysis	s, and Samp	е Туре.	Туре			Size	
Edit Ch No erro Commo	heck Errors ors. ents	ues for the Samp	ole nor E	ffluent Tra	ding, then none	of the follow		ubmitted for that	row: Units, Nur	nber of Exc	ursions, Frequency of Analysis	s, and Samp	e Type.	Туре	201185.	0	Size	
Edit Ch No erro Commo	heck Errors ors. ents ments		ole nor E	ffluent Tra	ding, then none	of the follow		ubmitted for that	row: Units, Nur	nber of Exc	ursions, Frequency of Analysis	s, and Samp		Туре	201185. 132294:		Size	
Edit Cl No erro Commo Attachi CO0032	heck Errors ors. ents ments 2751_DMRcov_2024_07.pdf	4.pdf	ole nor E	ffluent Tra	ding, then none	of the follow		ubmitted for that	row: Units, Nur	nber of Exc	ursions, Frequency of Analysis	i, and Samp	pdf	Туре		3.0	Size	
Edit CI No erro Commo Attachi CO0032 CO0032	heck Errors ors. ents ments 2751_DMRcov_2024_07.pdf 2751_Lab_2024_07_J193704-1_07-08-2	4.pdf	ole nor E	ffluent Tra	ding, then none	of the follow		ubmitted for that	row: Units, Nur	nber of Exc	ursions, Frequency of Analysis	i, and Samp	pdf pdf	Туре	1322943	3.0	Size	
Edit CI No erro Commo Attachi CO0032 CO0032 Report	heck Errors ors. ents ments 2751_DMRcov_2024_07.pdf 2751_Lab_2024_07_J193704-1_07-08-2 2751_Lab_2024_07_J194456-1_07-24-2	4.pdf	ole nor E	ffluent Tra	ding, then none	of the follow		ubmitted for that	row: Units, Nur	nber of Exc	ursions, Frequency of Analysis	i, and Samp	pdf pdf	Туре	1322943	3.0	Size	
Edit CI No erro Commo Attachi CO0032 CO0032 Report	heck Errors ors. ents ments 2751_DMRcov_2024_07.pdf 2751_Lab_2024_07_J193704-1_07-08-2 2751_Lab_2024_07_J194456-1_07-24-2 t Last Saved By	4.pdf		JOHNRINK	СО	of the follow		ubmitted for that	row: Units, Nur	nber of Exc	ursions, Frequency of Analysis	i, and Samp	pdf pdf	Туре	1322943	3.0	Size	
Edit CI No erro Commo Attachi CO0032 CO0032 CO0032 Report Grand User: Name:	heck Errors ors. nents 2751_DMRcov_2024_07.pdf 2751_Lab_2024_07_J193704-1_07-08-2 2751_Lab_2024_07_J194456-1_07-24-2 t Last Saved By Island Resources LLC	4.pdf	Ų	JOHNRINK John Rini	CO ko	of the follow		ubmitted for that	row: Units, Nur	nber of Exc	ursions, Frequency of Analysis	i, and Samp	pdf pdf	Туре	1322943	3.0	Size	
Edit Cl No erro Commo Attachi CO0032 CO0032 CO0032 Report Grand User:	heck Errors ors. nents 2751_DMRcov_2024_07.pdf 2751_Lab_2024_07_J193704-1_07-08-2 2751_Lab_2024_07_J194456-1_07-24-2 t Last Saved By Island Resources LLC	4.pdf	<u>ل</u> ل ر	JOHNRINK John Rini ohnrinko@	⟨O ko ⊵yahoo.com		Name	ubmitted for that	row: Units, Nur	nber of Exc	ursions, Frequency of Analysis	i, and Samp	pdf pdf	Туре	1322943	3.0	Size	
Edit CI No erro Commo Attachi CO0032 CO0032 CO0032 Report Grand User: Name: E-Mail: Date/Ti	heck Errors ors. nents 2751_DMRcov_2024_07.pdf 2751_Lab_2024_07_J193704-1_07-08-2 2751_Lab_2024_07_J194456-1_07-24-2 t Last Saved By Island Resources LLC	4.pdf	<u>ل</u> ل ر	JOHNRINK John Rini ohnrinko@	CO ko		Name	ubmitted for that	row: Units, Nur	nber of Exc	ursions, Frequency of Analysis	i, and Samp	pdf pdf	Туре	1322943	3.0	Size	
Edit CI No erro Commo Attachi CO0032 CO0032 CO0032 Report Grand User: Name: E-Mail: Date/Ti Report	heck Errors ors. ments 2751_DMRcov_2024_07.pdf 2751_Lab_2024_07_J193704-1_07-08-2 2751_Lab_2024_07_J194456-1_07-24-2 t Last Saved By Island Resources LLC	4.pdf	J J j:	JOHNRINK John Rin ohnrinko@ 2024-08-27	KO ko gyahoo.com 7 20:15 (Time.		Name	ubmitted for that	row: Units, Nur	nber of Exci	ursions, Frequency of Analysis	i, and Samp	pdf pdf	Туре	1322943	3.0	Size	
Edit CI No erro Commo Attachi CO0032 CO0032 Report Grand User: Name: E-Mail: Date/Ti Report User:	heck Errors ors. nents 2751_DMRcov_2024_07.pdf 2751_Lab_2024_07_J193704-1_07-08-2 2751_Lab_2024_07_J194456-1_07-24-2 t Last Saved By Island Resources LLC	4.pdf	J J ji 2	JOHNRINK John Rin ohnrinko@ 2024-08-27 JOHNRINK	KO ko gyahoo.com 7 20:15 (Time.		Name	ubmitted for that	row: Units, Nur	nber of Exci	ursions, Frequency of Analysis	i, and Samp	pdf pdf	Туре	1322943	3.0	Size	
Edit CI No erro Commo Attachi CO0032 CO0032 Report Grand User: Name: E-Mail: Date/Ti Report User: Name:	heck Errors ors. ments 2751_DMRcov_2024_07.pdf 2751_Lab_2024_07_J193704-1_07-08-2 2751_Lab_2024_07_J194456-1_07-24-2 t Last Saved By Island Resources LLC ime:	4.pdf	J J Ž J	JOHNRINK John Rin ohnrinko@ 2024-08-27 JOHNRINK John Rin	ko gyahoo.com 7 20:15 (Time.		Name	ubmitted for that	row: Units, Nur	nber of Exci	ursions, Frequency of Analysis	i, and Samp	pdf pdf	Туре	1322943	3.0	Size	
Edit CI No erro Commo Attachi CO0032 CO0032 Report Grand User: Name: E-Mail: Date/Ti Report User:	heck Errors ors. ments 2751_DMRcov_2024_07.pdf 2751_Lab_2024_07_J193704-1_07-08-2 2751_Lab_2024_07_J194456-1_07-24-2 t Last Saved By Island Resources LLC ime: t Last Signed By	4.pdf	J J 2 2 J	JOHNRINK John Rini ohnrinko@ 2024-08-27 JOHNRINK John Rini ohnrinko@	KO ko gyahoo.com 7 20:15 (Time.	Zone: -06:00	Name	ubmitted for that	row: Units, Nur	nber of Exci	ursions, Frequency of Analysis	i, and Samp	pdf pdf	Туре	1322943	3.0	Size	



Table 6.3 DMR August 2024

Form Approved OMB No. 2040-0004 expires on 07/31/2026 **DMR Copy of Record** 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(I)(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 outlet. 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. CO0032751 Grand Island Resources LLC Facility: CROSS AND CARIBOU MINES Permit #: Major: Permittee Address: 12567 W Cedar Dr Ste 110 Facility Location: CROSS AND CARIBOU MINES Lakewood, CO 80228 BOULDER COUNTY, CO 80466 Permitted Feature: Discharge: External Outfall Treated Mine Water to Coon Track Creek Report Dates & Status Monitoring Period: From 08/01/24 to 08/31/24 DMR Due Date: 09/28/24 Status: NetDMR Validated Considerations for Form Completion Oil and grease - see I.A.2, pg 3. 30 day average is the highest monthly average during period reported. Principal Executive Officer First Name: Title: Telephone Last Name: No Data Indicator (NODI) Form NODI: NODI Qualifier Value Qualifier RC - Recorder 04 - deg 8.1 8.8 99/99 - Continuous RC - Recorder 1 - Effluent 00010 Temperature, water deg. centigrade Rea Mon MX WK AV Rea Mon DAILY MX 99/99 - Continuous 7.6 8.0 12 - SU GR - GRAB Month 1 - Effluent 02/30 - Twice Per 00400 pH 9.0 MAXIMUM 12 - SU 0 Gross 4.0 4.0 01/30 - Monthly GR - GRAB 1 - Effluent 30.0 30DA AVG 45.0 DAILY MX 01/30 - Monthly GR - GRAB 00530 Solids, total suspended Gross 01/30 - Monthly 28 - ug/L 0 Rea Mon 30DA AVG GR - GRAB 1 - Effluent 01/30 - Monthly 00978 Arsenic, total recoverable Value NODI 28 - ug/L GR - GRAB 1 - Effluent Req Mon 30DA AVG 01/30 - Monthly GR - GRAB 00980 Iron, total recoverable Gross Value NODI 27.0 GR - GRAB 28 - ug/L 01/30 - Monthly 1500.0 DAILY MX 1 - Effluent 750 0 30DA AVG 28 - ug/L 0 01/30 - Monthly GR - GRAB 01094 Zinc, total recoverable Gross 28 - ug/L 0 1 - Effluent 50.0 30DA AVG 300.0 DAILY MX 01/30 - Monthly 01113 Cadmium, total recoverable Gross Value NODI 02/30 - Twice Per



Table 6.3 DMR August 2024 (continued)

		1 - Effluent			Sample	-	0.9	=	1.0	28 - ug/L	Month	GR - GRAB
01114	Lead, total recoverable	Gross	0		Permit Req.	<=	300.0 30DA AVG	<=	600.0 DAILY MX	28 - ug/L 0	02/30 - Twice Per Month	GR - GRAB
					Value NODI							
					Sample	_	0.48	=	0.95	28 - ug/L	02/30 - Twice Per	GR - GRAB
		1 - Effluent			Permit						Month 02/30 - Twice Per	
01119	Copper, total recoverable	Gross	0		Req.	<=	150.0 30DA AVG	<=	300.0 DAILY MX	28 - ug/L 0	Month	GR - GRAB
					Value NODI							
					Sample	<	20.0	<	20.0	28 - ug/L	01/30 - Monthly	GR - GRAB
1220	Chromium, hexavalent dissolved [as Cr]	1 - Effluent Gross	0		Permit Req.		Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L 0	01/30 - Monthly	GR - GRAB
	5.1	01000			Value NODI							
					Sample	=	25.0	=	25.0	28 - ug/L	02/30 - Twice Per	GR - GRAB
14202	Zine petentially disselved	1 - Effluent	8		Permit	<=	241.0 30DA AVG	<=	263.0 DAILY MX		Month 02/30 - Twice Per	GR - GRAB
11303	Zinc, potentially dissolved	Gross	0	-	Req. Value	~	241.0 300A AVG	~=	203.0 DAILY MA	28 - ug/L 0	Month	GR - GRAD
					NODI							
					Sample			<	0.5	28 - ug/L	02/30 - Twice Per Month	GR - GRAB
1304	Silver, potentially dissolved	1 - Effluent	8	_	Permit Req.	<=	0.16 30DA AVG	<=	4.1 DAILY MX	28 - ug/L 0	02/30 - Twice Per Month	GR - GRAB
/1304	Silver, potentially dissolved	Gross			Value NODI		B - Below Detection Limit/No Detection				World	
					Sample		0.86	_	1.0	28 . pa/l	02/30 - Twice Per	GR - GRAB
		1 - Effluent			Permit	_				28 - ug/L	Month 02/30 - Twice Per	
01306	Copper, potentially dissolved	Gross	8	-	Req.	<=	17.0 30DA AVG	<=	25.0 DAILY MX	28 - ug/L 0	Month	GR - GRAB
					Value NODI							
					Sample			<	5.0	28 - ug/L	01/30 - Monthly	GR - GRAB
01309	Arsenic, potentially dissolved	1 - Effluent Gross	0		Permit Req.				Req Mon DAILY MX	28 - ug/L 0	01/30 - Monthly	GR - GRAB
		01033			Value NODI							
					Sample			<	1.0	28 - ug/L	02/30 - Twice Per	GR - GRAB
		4 55504			Permit		0.00.0004.41/0				Month 02/30 - Twice Per	
01313	Cadmium, potentially dissolvd	1 - Effluent Gross	8		Req.	<=	0.82 30DA AVG	<=	3.2 DAILY MX	28 - ug/L 0	Month	GR - GRAB
					Value NODI		B - Below Detection Limit/No Detection					
					Sample	<	20.0			28 - ug/L	01/30 - Monthly	GR - GRAB
01314	Chromium, trivalent, potentially dissolvd	1 - Effluent Gross	0		Permit Req.		Req Mon 30DA AVG			28 - ug/L 0	01/30 - Monthly	GR - GRAB
	dissolva	Cross			Value NODI							
					Sample	_	0.85	-	0.93	28 - ug/L	02/30 - Twice Per	GR - GRAB
11210	Load potentially discolud	1 - Effluent	8		Permit		5.0 30DA AVG				Month 02/30 - Twice Per	GR - GRAB
11310	Lead, potentially dissolvd	Gross	0		Req. Value	<=	5.0 30DA AVG	<=	122.0 DAILY MX	28 - ug/L 0	Month	GR - GRAD
					NODI							
		4 500			Sample Permit	=	0.76	=	0.76	28 - ug/L	01/30 - Monthly	GR - GRAB
01319	Manganese, potentially dissolvd	1 - Effluent Gross	0		Req.		Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L 0	01/30 - Monthly	GR - GRAB
					Value NODI							
					Sample	<	3.0	<	3.0	28 - ug/L	01/30 - Monthly	GR - GRAB
01322	Nickel, potentially dissolvd	1 - Effluent Gross	0		Permit Req.		Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L 0	01/30 - Monthly	GR - GRAB
		51000			Value NODI							
					Sample	=	2.6	=	2.6	28 - ug/L	01/30 - Monthly	GR - GRAB
01323	Selenium, potentially dissolvd	1 - Effluent	0		Permit Req.		Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L 0	01/30 - Monthly	GR - GRAB
	, p	Gross			Value							
					NODI Sample							
		1 Effluent			Permit			<=	10.0 INST MAX	19 - mg/L	77/77 - Contingent	GR - GRAB
		1 - Effluent	0		Req.							-
03582	Oil and grease	Gross			Value				9 - Conditional Monitoring - Not Required This			
3582	Oil and grease	Gross			Value NODI Sample			<	9 - Conditional Monitoring - Not Required This Period	28 - ug/L	01/30 - Monthly	GR - GRAB



Table 6.3 DMR August 2024 (continued)

04202	recoverable	Gross	0	-	Value NODI											0		
					Sample					=	0.144829	=	0.2542		03 - MGD		99/99 - Continuous	RC - Re (auto)
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	8		Permit Req.					<=	0.148 30DA AVG		Req Mon DAILY MX		03 - MGD	0	99/99 - Continuous	RC - Re (auto)
					Value NODI													
					Sample					<	1.0				19 - mg/l		01/30 - Monthly	GR - GR
51202	Sulfide-hydrogen sulfide [undissociated]	1 - Effluent Gross	0		Permit Req.						Req Mon 30DA AVG				19 - mg/l	L 0	01/30 - Monthly	GR - GR
	[unalooodatou]	0.000			Value NODI													
					Sample					<	0.2	<	0.2		28 - ug/L	-	01/30 - Monthly	GR - GR
71900	Mercury, total [as Hg]	1 - Effluent	0		Permit Req.					<=	1.0 30DA AVG	<=	2.0 DAILY MX		28 - ug/L	- 0	01/30 - Monthly	GR - GR
		Gross			Value NODI													
					Sample	=	0.0	AB -									02/30 - Twice Per	VI - VISU
0.4000	Oil and annual	1 - Effluent			Permit		Reg Mon INST	abst=0;prst=1 AB -								0	Month 02/30 - Twice Per	
84066	Oil and grease visual	Gross	0		Req.		MAX	abst=0;prst=1								0	Month	VI - VISU
Submis	ssion Note																	
Edit Ch	neck Errors	ues for the Samp	ole nor b	Effluent Tra	ding, then none of	the followin	ng fields will be sul	bmitted for that row: \	Jnits, Numbe	er of Excu	ırsions, Frequency of Analysis, and	d Sample	e Type.					
Edit Ch	neck Errors ors.	ues for the Samp	ole nor b	±πiuent Tra	ding, then none of	the followin	ng fields will be sul	omitted for that row: \	Jnits, Numbe	er of Excu	rsions, Frequency of Analysis, and	d Sample	e Type.					
Edit Ch	neck Errors ors.	ues for the Samp	ole nor E	±muent Tra	ding, then none of	the followin	ng fields will be sul	omitted for that row: \	Jnits, Numbe	er of Excu	rsions, Frequency of Analysis, and	d Sample	э Туре.					
Edit Ch	neck Errors ors. ents	ues for the Samp	DIE NOT E	±muent Tra	ding, then none of	the followin	ng fields will be sul	omitted for that row: \	Jnits, Numbe	er of Excu	irsions, Frequency of Analysis, and	d Sample	э Туре.					
Edit Che No error Comme	neck Errors ors. ents	ues for the Samp	ole nor E	±muent Tra	ding, then none of		ng fields will be sul	omitted for that row: \	Jnits, Numbe	er of Excu	irsions, Frequency of Analysis, and	d Sample	э Туре.	Туре			Size	
Edit Che No error Comme	neck Errors ors. ents		ole nor E	±muent Tra	ding, then none of			omitted for that row: \	Jnits, Numbe	er of Excu	irsions, Frequency of Analysis, and	d Sample	e Type.	Туре	1056487.	.0	Size	
Edit Chi No error Comme Attachn	neck Errors ors. ents ments		ble nor E	±muent Ira	ding, then none of			omitted for that row: \	Jnits, Numbe	er of Excu	irsions, Frequency of Analysis, and	d Sample		Туре	1056487. 201189.0		Size	
Edit Chi No error Comme Attachn CO0032 CO0032	neck Errors ors. ents ments 2751_Lab_2024_08_J194790-1_08-01-2	24.pdf	ble nor E	±muent Ira	ding, then none of			omitted for that row: \	Jnits, Numbe	er of Excu	irsions, Frequency of Analysis, and	d Sample	pdf	Туре)	Size	
Edit Ch No error Comme Attachn CO0032 CO0032 CO0032	neck Errors ors. ents ments 2751_Lab_2024_08_J194790-1_08-01-2 2751_DMRcov_2024_08.pdf 2751_Lab_2024_08_J195452-1_08-16-2	24.pdf	ble nor E	Emuent Ira	ding, then none of			omitted for that row: \	Jnits, Numbe	er of Excu	irsions, Frequency of Analysis, and	d Sample	pdf pdf	Туре	201189.0)	Size	
Edit Ch No error Comme Attachn C00032 C00032 C00032 Report Grand I	neck Errors ors. ents ments 2751_Lab_2024_08_J194790-1_08-01-2 2751_DMRcov_2024_08.pdf 2751_Lab_2024_08_J195452-1_08-16-2	24.pdf						omitted for that row: \	Jnits, Numbe	er of Excu	irsions, Frequency of Analysis, and	d Sample	pdf pdf	Туре	201189.0)	Size	
Edit Ch No error Comme Attachm CO0032 CO0032 CO0032 Report Grand I User:	neck Errors ors. ents ments 2751_Lab_2024_08_J194790-1_08-01-2 2751_DMRcov_2024_08.pdf 2751_Lab_2024_08_J195452-1_08-16-2	24.pdf		JOHNRINI	(0			omitted for that row: \	Jnits, Numbe	er of Excu	irsions, Frequency of Analysis, and	d Sample	pdf pdf	Туре	201189.0)	Size	
Edit Ch No error Comme Attachn CO0032 CO0032 CO0032 Report Grand I User: Name:	neck Errors ors. ents ments 2751_Lab_2024_08_J194790-1_08-01-2 2751_DMRcov_2024_08.pdf 2751_Lab_2024_08_J195452-1_08-16-2	24.pdf		JOHNRINI John Rin	KO ko			omitted for that row: \	Jnits, Numbe	er of Excu	irsions, Frequency of Analysis, and	d Sample	pdf pdf	Туре	201189.0)	Size	
Edit Ch No error Comme Attachn C00032: C00032: Report Grand I. User: Name: E-Mail:	neck Errors ors. ents ments 2751_Lab_2024_08_J194790-1_08-01-2 2751_DMRcov_2024_08.pdf 2751_Lab_2024_08_J195452-1_08-16-2 Last Saved By Island Resources LLC	24.pdf		JOHNRINI John Rin johnrinko@	KO ko gyahoo.com		Name	omitted for that row: \	Jnits, Numbe	er of Excu	irsions, Frequency of Analysis, and	d Sample	pdf pdf	Туре	201189.0)	Size	
Edit Ch No error Comme Attachm CO0032 CO0032 CO0032 Report Grand I User: Name: E-Mail: Date/Tin	neck Errors perts ments 2751_Lab_2024_08_J194790-1_08-01-2 2751_DMRcov_2024_08_J195452-1_08-16-2 2751_Lab_2024_08_J195452-1_08-16-2 2151_Lab_2024_08_J195452-1_08-16-2 2151_Lab_2024_08_J1954_08_08_J1954_08_J1954_08_J1954_08_J1954_08_J1954_08_J1954_08_J1954_08_J1954_08_J1954_08_J1954_08_J1954_08_J1954_08_J1954_08_J1954_08_J1954_08_J1954_08_J1954_08_J1954_08_J1954_08_08_J1954_08_J1954_08_08_J1954_08_08_08_08_J1954_08_08_08_08_08_08_08_08_08_08_08_08_08_	24.pdf		JOHNRINI John Rin johnrinko@	KO ko		Name	omitted for that row: \	Jnits, Numbe	er of Excu	irsions, Frequency of Analysis, and	d Sample	pdf pdf	Туре	201189.0)	Size	
Edit Ch No error Comme Attachn CO0032 CO0032 CO0032 Report Grand I User: Name: E-Mail: Date/Tin Report	neck Errors ors. ents ments 2751_Lab_2024_08_J194790-1_08-01-2 2751_DMRcov_2024_08.pdf 2751_Lab_2024_08_J195452-1_08-16-2 Last Saved By Island Resources LLC	24.pdf		JOHNRINI John Rin johnrinko@ 2024-09-2:	≺O ko gyahoo.com 8 17:50 (Time Zo		Name	omitted for that row: \	Jnits, Numbe	er of Excu	irsions, Frequency of Analysis, and	d Sample	pdf pdf	Туре	201189.0)	Size	
Edit Ch No error Comme Attachn CO0032: CO0032: CO0032: Report Grand I User: Name: E-Mail: Date/Tin Report User:	neck Errors perts ments 2751_Lab_2024_08_J194790-1_08-01-2 2751_DMRcov_2024_08_J195452-1_08-16-2 2751_Lab_2024_08_J195452-1_08-16-2 2151_Lab_2024_08_J195452-1_08-16-2 2151_Lab_2024_08_J1954_08_08_J1954_08_J1954_08_J1954_08_J1954_08_J1954_08_J1954_08_J1954_08_J1954_08_J1954_08_J1954_08_J1954_08_J1954_08_J1954_08_J1954_08_J1954_08_J1954_08_J1954_08_J1954_08_J1954_08_08_J1954_08_J1954_08_08_J1954_08_08_08_08_J1954_08_08_08_08_08_08_08_08_08_08_08_08_08_	24.pdf		JOHNRINI John Rin johnrinko@ 2024-09-2: JOHNRINI	<o ko ĝyahoo.com 8 17:50 (Time Zo</o 		Name	omitted for that row: \	Jnits, Numbe	er of Excu	irsions, Frequency of Analysis, and	d Sample	pdf pdf	Туре	201189.0)	Size	
Edit Ch No error Comme Attachn CO0032: CO0032: CO0032: Report Grand I User: Name: E-Mail: Date/Tin Report: User: Name:	neck Errors perts ments 2751_Lab_2024_08_J194790-1_08-01-2 2751_DMRcov_2024_08_J195452-1_08-16-2 2751_Lab_2024_08_J195452-1_08-16-2 2151_Lab_2024_08_J195452-1_08-16-2 2151_Lab_2024_08_J1954_08_08_J1954_08_J1954_08_J1954_08_J1954_08_J1954_08_J1954_08_J1954_08_J1954_08_J1954_08_J1954_08_J1954_08_J1954_08_J1954_08_J1954_08_J1954_08_J1954_08_J1954_08_J1954_08_J1954_08_08_J1954_08_J1954_08_08_J1954_08_08_08_08_J1954_08_08_08_08_08_08_08_08_08_08_08_08_08_	24.pdf		JOHNRINI John Rin johnrinko@ 2024-09-2: JOHNRINI John Rin	<o ko ĝyahoo.com 8 17:50 (Time Zo <o ko</o </o 		Name	omitted for that row: \	Jnits, Numbe	er of Excu	irsions, Frequency of Analysis, and	d Sample	pdf pdf	Туре	201189.0)	Size	
Edit Ch No error Comme Attachn CO0032: CO0032: CO0032: Report Grand I User: Name: E-Mail: Date/Tin Report User:	neck Errors prs. ents ments 2751_Lab_2024_08_J194790-1_08-01-2 2751_DMRcov_2024_08_pdf 2751_Lab_2024_08_J195452-1_08-16-2 Last Saved By Island Resources LLC me: Last Signed By	24.pdf		JOHNRINI John Rin johnrinko@ 2024-09-2i JOHNRINI John Rin johnrinko@	<o ko ĝyahoo.com 8 17:50 (Time Zo</o 	one: -06:00)	Name	omitted for that row: \	Jnits, Numbe	er of Excu	irsions, Frequency of Analysis, and	d Sample	pdf pdf	Туре	201189.0)	Size	



Appendices

APPENDICES

APPENDIX A GROUNDWATER AND EFFLUENT ANALYTICAL RESULTS

12

14

ANALYTICAL REPORT

PREPARED FOR

Attn: Brooke Molson Moran Grand Island Resources 12567 West Cedar Road Suite 110 Lakewood, Colorado 80228 Generated 10/24/2024 10:46:13 AM

JOB DESCRIPTION

Nederland, CO - Groundwater

JOB NUMBER

280-197036-1

Eurofins Denver 4955 Yarrow Street Arvada CO 80002



Eurofins Denver

Job Notes

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

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

Authorization

Generated 10/24/2024 10:46:13 AM

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

13

14

Table of Contents

Cover Page	1
Table of Contents	3
Definitions	4
Case Narrative	6
Detection Summary	9
Method Summary	12
Sample Summary	13
Client Sample Results	14
QC Sample Results	23
QC Association	32
Chronicle	37
Certification Summary	41
Chain of Custody	43
Receipt Checklists	

-6

4

6

8

40

11

40

14

Definitions/Glossary

Client: Grand Island Resources Job ID: 280-197036-1

Project/Site: Nederland, CO - Groundwater

Qualifiers

M	eta	Is

Qualifier	Qualitier 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.
R	Compound was found in the blank and sample

Compound was found in the blank and sample.

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

General Chemistry

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

Rad TICs

Qualifier	Qualifier Description
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**

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) Limit of Detection (DoD/DOE) LOD LOQ Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level" MCL Minimum Detectable Activity (Radiochemistry) MDA MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit Minimum Level (Dioxin) MLMPN 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)

Eurofins Denver

Page 4 of 46 10/24/2024

Definitions/Glossary

Client: Grand Island Resources Job ID: 280-197036-1

Project/Site: Nederland, CO - Groundwater

Glossary (Continued)

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

TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

3

4

5

7

_

10

12

13

114

Case Narrative

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

Job ID: 280-197036-1 Eurofins Denver

Job Narrative 280-197036-1

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 9/23/2024 4:35 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 3.5°C, 5.0°C and 5.1°C.

Receipt Exceptions

Due to laboratory instrumentation issue for the requested Sulfate analysis by SM4500 SO4 E, the laboratory analyzed the submitted samples for Sulfate by EPA method 300.0. The client was notified on 9/30/2024 and approved of the method substitution for this sample delivery group.

Method 200.7 Rev 4.4 - Metals (ICP) - Dissolved

Eurofins Denver

Page 6 of 46 10/24/2024

2

Job ID: 280-197036-1

3

_

6

9

TU

12

13

Case Narrative

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

Job ID: 280-197036-1 (Continued)

Eurofins Denver

Job ID: 280-197036-1

Samples CROSS WELL (280-197036-1), COMPLIANCE WELL (280-197036-2), COMPLIANCE 02 (280-197036-3), COMPLIANCE 03 (280-197036-4), CARIBOU WELL (280-197036-5), CROSS PORTAL (280-197036-6), CROSS PORTAL 02 (280-197036-7) and CARIBOU PORTAL (280-197036-8) were analyzed for Metals (ICP) - Dissolved. The samples were prepared on 9/25/2024 and analyzed on 9/26/2024.

Method 200.8 - ICPMS Total Metals - Dissolved

Samples CROSS WELL (280-197036-1), COMPLIANCE WELL (280-197036-2), COMPLIANCE 02 (280-197036-3), COMPLIANCE 03 (280-197036-4), CARIBOU WELL (280-197036-5), CROSS PORTAL (280-197036-6), CROSS PORTAL 02 (280-197036-7) and CARIBOU PORTAL (280-197036-8) were analyzed for ICPMS Total Metals - Dissolved. The samples were prepared on 9/26/2024 and analyzed on 9/27/2024 and 10/1/2024.

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

Samples CROSS WELL (280-197036-1), COMPLIANCE WELL (280-197036-2), COMPLIANCE 02 (280-197036-3), COMPLIANCE 03 (280-197036-4), CARIBOU WELL (280-197036-5), CROSS PORTAL (280-197036-6), CROSS PORTAL 02 (280-197036-7) and CARIBOU PORTAL (280-197036-8) were analyzed for Solids, Total Dissolved (TDS). The samples were analyzed on 9/24/2024 and 9/25/2024.

Method 300.0 - Anions, Ion Chromatography

Samples CROSS WELL (280-197036-1), COMPLIANCE WELL (280-197036-2), COMPLIANCE 02 (280-197036-3), COMPLIANCE 03 (280-197036-4), CARIBOU WELL (280-197036-5), CROSS PORTAL (280-197036-6), CROSS PORTAL 02 (280-197036-7) and CARIBOU PORTAL (280-197036-8) were analyzed for Anions, Ion Chromatography. The samples were analyzed on 10/1/2024.

Method 300.0 - Anions, Ion Chromatography

Samples CROSS WELL (280-197036-1), COMPLIANCE WELL (280-197036-2), COMPLIANCE 02 (280-197036-3), COMPLIANCE 03 (280-197036-4), CARIBOU WELL (280-197036-5), CROSS PORTAL (280-197036-6), CROSS PORTAL 02 (280-197036-7) and CARIBOU PORTAL (280-197036-8) were analyzed for Anions, Ion Chromatography. The samples were analyzed on 9/24/2024.

Method 353.2 - Nitrogen, Nitrate-Nitrite

Samples CROSS WELL (280-197036-1), COMPLIANCE WELL (280-197036-2), COMPLIANCE 02 (280-197036-3), COMPLIANCE 03 (280-197036-4), CARIBOU WELL (280-197036-5), CROSS PORTAL (280-197036-6), CROSS PORTAL 02 (280-197036-7) and CARIBOU PORTAL (280-197036-8) were analyzed for Nitrogen, Nitrate-Nitrite. The samples were analyzed on 10/8/2024.

Method SM 4500 CI- E - Chloride, Total

Samples CROSS WELL (280-197036-1), COMPLIANCE WELL (280-197036-2), COMPLIANCE 02 (280-197036-3), COMPLIANCE 03 (280-197036-4), CARIBOU WELL (280-197036-5), CROSS PORTAL (280-197036-6), CROSS PORTAL 02 (280-197036-7) and CARIBOU PORTAL (280-197036-8) were analyzed for Chloride, Total. The samples were analyzed on 10/3/2024.

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

Samples CROSS WELL (280-197036-1), COMPLIANCE WELL (280-197036-2), COMPLIANCE 02 (280-197036-3), COMPLIANCE 03 (280-197036-4), CARIBOU WELL (280-197036-5), CROSS PORTAL (280-197036-6), CROSS PORTAL 02 (280-197036-7) and CARIBOU PORTAL (280-197036-8) were analyzed for Cesium 137 & Other Gamma Emitters (GS) - Dissolved. The samples were prepared on 10/15/2024 and analyzed on 10/19/2024.

Gamma prep batch 160-683713

The minimum detectable concentration (MDC) for the method blank (MB) is above the requested limit for Cs137. The activity was not observed in the MB above the MDC or reporting limit (RL). The data for the following sample have been reported with the MDC achieved: (MB 160-683713/1-A).

Gamma prep batch 160- 683713

The detection goal of 20 pCi/L was not met for Cs-137 for the following samples. An elevated MDC can occur when higher background counts are applied to a peak ROI. This is due to the relatively small size of the peak or subsequent "force-fit" of the non-existent peak which resulted in higher than normal background counts due to statistical fluctuations in the Compton baseline. The laboratory does not believe this adversely affects the data, the activity is well below the RL and MDC: COMPLIANCE WELL (280-197036-2), COMPLIANCE 02 (280-197036-3), COMPLIANCE 03 (280-197036-4), CROSS PORTAL 02 (280-197036-7) and CARIBOU PORTAL (280-197036-8)

Gamma Prep Batch 160-683713

Eurofins Denver

10/24/2024

Page 7 of 46

2

3

4

6

8

10

12

13

Case Narrative

Client: Grand Island Resources Job ID: 280-197036-1

Project: Nederland, CO - Groundwater

Job ID: 280-197036-1 (Continued)

Eurofins Denver

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: tρ

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

CROSS WELL (280-197036-1), COMPLIANCE WELL (280-197036-2), COMPLIANCE 02 (280-197036-3), COMPLIANCE 03 (280-197036-4), CARIBOU WELL (280-197036-5), CROSS PORTAL (280-197036-6), CROSS PORTAL 02 (280-197036-7), CARIBOU PORTAL (280-197036-8) and (280-197036-A-1-B DU)

Method 900.0 - Gross Alpha and Gross Beta Radioactivity - Dissolved

Samples CROSS WELL (280-197036-1), COMPLIANCE WELL (280-197036-2), COMPLIANCE 02 (280-197036-3), COMPLIANCE 03 (280-197036-4), CARIBOU WELL (280-197036-5), CROSS PORTAL (280-197036-6), CROSS PORTAL 02 (280-197036-7) and CARIBOU PORTAL (280-197036-8) were analyzed for Gross Alpha and Gross Beta Radioactivity - Dissolved. The samples were prepared on 9/26/2024 and analyzed on 10/6/2024 and 10/7/2024.

Gross Alpha and Gross Beta batch 681024

Although the sample was prepped at full volume, the detection goal was not met for Gross Alpha. However the activity in the sample was above the detection goal achieved. The laboratory does not not believe this discrepancy to have a negative impact on the data being reported:

CARIBOU PORTAL (280-197036-8).

Eurofins Denver

Page 8 of 46

Project/Site: Nederland, CO - Groundwater

Job ID: 280-197036-1

Client Sample ID: CROSS WELL

Lab Sample ID: 280-197036-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.0060	JB	0.10	0.0015	mg/L		_	200.7 Rev 4.4	Dissolved
Iron	0.048	J	0.10	0.0091	mg/L	1		200.7 Rev 4.4	Dissolved
Antimony	0.00055	J	0.0020	0.00040	mg/L	1		200.8	Dissolved
Barium	0.031		0.0030	0.00038	mg/L	1		200.8	Dissolved
Copper	0.0037		0.0020	0.00071	mg/L	1		200.8	Dissolved
Manganese	0.0070		0.0030	0.00051	mg/L	1		200.8	Dissolved
Molybdenum	0.00082	J	0.0020	0.00037	mg/L	1		200.8	Dissolved
Uranium	0.000066	J	0.0010	0.000030	mg/L	1		200.8	Dissolved
Zinc	1.5		0.010	0.0020	mg/L	1		200.8	Dissolved
Nitrate as N	0.33	J	0.50	0.090	mg/L	1		300.0	Total/NA
Sulfate	9.9		5.0	1.0	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	0.36		0.10	0.044	mg/L	1		353.2	Total/NA
Total Dissolved Solids (TDS)	99		10	4.7	mg/L	1		SM 2540C	Total/NA
Chloride	4.2		2.0	0.68	mg/L	1		SM 4500 CI- E	Total/NA

Client Sample ID: COMPLIANCE WELL

Lab Sample ID: 280-197036-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.019	J	0.10	0.018	mg/L	1	_	200.7 Rev 4.4	Dissolved
Boron	0.0049	JB	0.10	0.0015	mg/L	1		200.7 Rev 4.4	Dissolved
Barium	0.042		0.0030	0.00038	mg/L	1		200.8	Dissolved
Manganese	0.0066		0.0030	0.00051	mg/L	1		200.8	Dissolved
Molybdenum	0.0047		0.0020	0.00037	mg/L	1		200.8	Dissolved
Uranium	0.00015	J	0.0010	0.000030	mg/L	1		200.8	Dissolved
Zinc	0.089		0.010	0.0020	mg/L	1		200.8	Dissolved
Nitrate as N	0.35	J	0.50	0.090	mg/L	1		300.0	Total/NA
Sulfate	9.4		5.0	1.0	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	0.38		0.10	0.044	mg/L	1		353.2	Total/NA
Total Dissolved Solids (TDS)	91		10	4.7	mg/L	1		SM 2540C	Total/NA
Chloride	3.1		2.0	0.68	mg/L	1		SM 4500 CI- E	Total/NA

Client Sample ID: COMPLIANCE 02

Lab Sample ID: 280-197036-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.0035	JB	0.10	0.0015	mg/L	1	_	200.7 Rev 4.4	Dissolved
Iron	0.0093	J	0.10	0.0091	mg/L	1		200.7 Rev 4.4	Dissolved
Barium	0.043		0.0030	0.00038	mg/L	1		200.8	Dissolved
Manganese	0.0075		0.0030	0.00051	mg/L	1		200.8	Dissolved
Molybdenum	0.0048		0.0020	0.00037	mg/L	1		200.8	Dissolved
Uranium	0.00014	J	0.0010	0.000030	mg/L	1		200.8	Dissolved
Zinc	0.086		0.010	0.0020	mg/L	1		200.8	Dissolved
Nitrate as N	0.35	J	0.50	0.090	mg/L	1		300.0	Total/NA
Sulfate	9.4		5.0	1.0	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	0.38		0.10	0.044	mg/L	1		353.2	Total/NA
Total Dissolved Solids (TDS)	88		10	4.7	mg/L	1		SM 2540C	Total/NA
Chloride	3.1		2.0	0.68	mg/L	1		SM 4500 CI- E	Total/NA

Client Sample ID: COMPLIANCE 03

Lab Sample ID: 280-197036-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type	
Aluminum	0.036	J	0.10	0.018	mg/L	1	_	200.7 Rev 4.4	Dissolved	
Boron	0.0015	JB	0.10	0.0015	ma/L	1		200.7 Rev 4.4	Dissolved	

This Detection Summary does not include radiochemical test results.

Page 9 of 46

Detection Summary

Client: Grand Island Resources

Project/Site: Nederland, CO - Groundwater

Client Sample ID: COMPLIANCE 03 (Continued)

Lab Sample ID: 280-197036-4

Job ID: 280-197036-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0015	J	0.0030	0.00038	mg/L	1	_	200.8	Dissolved
Total Dissolved Solids (TDS)	36	J	40	19	mg/L	1		SM 2540C	Total/NA

Client Sample ID: CARIBOU WELL

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.023	J	0.10	0.018	mg/L	1	_	200.7 Rev 4.4	Dissolved
Boron	0.0025	JB	0.10	0.0015	mg/L	1		200.7 Rev 4.4	Dissolved
Iron	0.013	J	0.10	0.0091	mg/L	1		200.7 Rev 4.4	Dissolved
Barium	0.0097		0.0030	0.00038	mg/L	1		200.8	Dissolved
Copper	0.099		0.0020	0.00071	mg/L	1		200.8	Dissolved
Manganese	0.0031		0.0030	0.00051	mg/L	1		200.8	Dissolved
Zinc	0.0092	J	0.010	0.0020	mg/L	1		200.8	Dissolved
Nitrate as N	0.15	J	0.50	0.090	mg/L	1		300.0	Total/NA
Sulfate	3.0	J	5.0	1.0	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	0.096	J	0.10	0.044	mg/L	1		353.2	Total/NA
Total Dissolved Solids (TDS)	37		10	4.7	mg/L	1		SM 2540C	Total/NA

Client Sample ID: CROSS PORTAL

Lab Sample ID: 280-197036-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac D	Method	Prep Type
Boron	0.0041	J B	0.10	0.0015	mg/L		200.7 Rev 4.4	Dissolved
Iron	0.011	J	0.10	0.0091	mg/L	1	200.7 Rev 4.4	Dissolved
Antimony	0.00042	J	0.0020	0.00040	mg/L	1	200.8	Dissolved
Barium	0.072		0.0030	0.00038	mg/L	1	200.8	Dissolved
Cadmium	0.0013		0.0010	0.00019	mg/L	1	200.8	Dissolved
Copper	0.0018	J	0.0020	0.00071	mg/L	1	200.8	Dissolved
Lead	0.00072	J	0.0010	0.00023	mg/L	1	200.8	Dissolved
Manganese	0.0099		0.0030	0.00051	mg/L	1	200.8	Dissolved
Molybdenum	0.0069		0.0020	0.00037	mg/L	1	200.8	Dissolved
Uranium	0.00077	J	0.0010	0.000030	mg/L	1	200.8	Dissolved
Zinc	0.23		0.010	0.0020	mg/L	1	200.8	Dissolved
Nitrate as N	0.13	J	0.50	0.090	mg/L	1	300.0	Total/NA
Sulfate	11		5.0	1.0	mg/L	1	300.0	Total/NA
Nitrate Nitrite as N	0.090	J	0.10	0.044	mg/L	1	353.2	Total/NA
Total Dissolved Solids (TDS)	120		10	4.7	mg/L	1	SM 2540C	Total/NA

Client Sample ID: CROSS PORTAL 02

Lab Sample ID: 280-197036-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.0041	JB	0.10	0.0015	mg/L		_	200.7 Rev 4.4	Dissolved
Antimony	0.00053	J	0.0020	0.00040	mg/L	1		200.8	Dissolved
Barium	0.073		0.0030	0.00038	mg/L	1		200.8	Dissolved
Cadmium	0.0012		0.0010	0.00019	mg/L	1		200.8	Dissolved
Copper	0.0018	J	0.0020	0.00071	mg/L	1		200.8	Dissolved
Lead	0.00072	J	0.0010	0.00023	mg/L	1		200.8	Dissolved
Manganese	0.0093		0.0030	0.00051	mg/L	1		200.8	Dissolved
Molybdenum	0.0066		0.0020	0.00037	mg/L	1		200.8	Dissolved
Uranium	0.00077	J	0.0010	0.000030	mg/L	1		200.8	Dissolved
Zinc	0.22		0.010	0.0020	mg/L	1		200.8	Dissolved
Nitrate as N	0.13	J	0.50	0.090	mg/L	1		300.0	Total/NA
Sulfate	11		5.0	1.0	mg/L	1		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Denver

Detection Summary

Client: Grand Island Resources

Project/Site: Nederland, CO - Groundwater

Job ID: 280-197036-1

Client Sample ID: CROSS PORTAL 02 (Continued)

Lab Sam	ple ID:	280-197	036-7
---------	---------	---------	-------

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate Nitrite as N	0.083	J	0.10	0.044	mg/L	1	_	353.2	Total/NA
Total Dissolved Solids (TDS)	120		10	4.7	mg/L	1		SM 2540C	Total/NA

Client Sample ID: CARIBOU PORTAL

Lab Sample ID: 280-197036-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac D	Method	Prep Type
Boron	0.0037	JB	0.10	0.0015	mg/L		200.7 Rev 4.4	Dissolved
Iron	0.012	J	0.10	0.0091	mg/L	1	200.7 Rev 4.4	Dissolved
Antimony	0.00089	J	0.0020	0.00040	mg/L	1	200.8	Dissolved
Barium	0.063		0.0030	0.00038	mg/L	1	200.8	Dissolved
Manganese	0.0038		0.0030	0.00051	mg/L	1	200.8	Dissolved
Molybdenum	0.0068		0.0020	0.00037	mg/L	1	200.8	Dissolved
Uranium	0.0062		0.0010	0.000030	mg/L	1	200.8	Dissolved
Zinc	0.0083	J	0.010	0.0020	mg/L	1	200.8	Dissolved
Nitrate as N	0.19	J	0.50	0.090	mg/L	1	300.0	Total/NA
Sulfate	12		5.0	1.0	mg/L	1	300.0	Total/NA
Nitrate Nitrite as N	0.11		0.10	0.044	mg/L	1	353.2	Total/NA
Total Dissolved Solids (TDS)	140		10	4.7	mg/L	1	SM 2540C	Total/NA

13

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Grand Island Resources

Project/Site: Nederland, CO - Groundwater

/lethod	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 CI- E	Chloride, Total	SM	EET DEN
0.00	Gross Alpha and Gross Beta Radioactivity	EPA	EET SL
01.1	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
vaporation	Preparation, Evaporation	None	EET SL
ill 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 Job ID: 280-197036-1

3

6

0

9

10

12

13

Sample Summary

Client: Grand Island Resources

Project/Site: Nederland, CO - Groundwater

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-197036-1	CROSS WELL	Water	09/23/24 13:00	09/23/24 16:35
280-197036-2	COMPLIANCE WELL	Water	09/23/24 13:30	09/23/24 16:35
280-197036-3	COMPLIANCE 02	Water	09/23/24 13:30	09/23/24 16:35
280-197036-4	COMPLIANCE 03	Water	09/23/24 13:30	09/23/24 16:35
280-197036-5	CARIBOU WELL	Water	09/23/24 11:30	09/23/24 16:35
280-197036-6	CROSS PORTAL	Water	09/23/24 12:15	09/23/24 16:35
280-197036-7	CROSS PORTAL 02	Water	09/23/24 12:15	09/23/24 16:35
280-197036-8	CARIBOU PORTAL	Water	09/23/24 11:15	09/23/24 16:35

1

Job ID: 280-197036-1

3

4

5

7

8

9

4 4

12

13

Job ID: 280-197036-1

09/25/24 08:11 09/26/24 08:39

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

Iron

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

Client Sample ID: CROSS WELL Date Collected: 09/23/24 13:00 Date Received: 09/23/24 16:35							Lab Sam	ple ID: 280-19 Matrix:	
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.10	0.018	mg/L		09/25/24 08:11	09/26/24 08:12	1
Boron	0.0060	JB	0.10	0.0015	mg/L		09/25/24 08:11	09/26/24 08:12	1
Iron	0.048	J	0.10	0.0091	mg/L		09/25/24 08:11	09/26/24 08:12	1

Client Sample ID: COMPLIANCE WELL	Lab Sample ID: 280-197036-2
Date Collected: 09/23/24 13:30	Matrix: Water
Date Received: 09/23/24 16:35	

Analyte	Result (Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.019	J	0.10	0.018	mg/L		09/25/24 08:11	09/26/24 08:16	1
Boron	0.0049	J B	0.10	0.0015	mg/L		09/25/24 08:11	09/26/24 08:16	1
Iron	ND		0.10	0.0091	mg/L		09/25/24 08:11	09/26/24 08:16	1

Client Sample ID: COMPLIANO Date Collected: 09/23/24 13:30 Date Received: 09/23/24 16:35)						Lab Sam	ple ID: 280-19 Matrix	7036-3 : Water
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.10	0.018	mg/L		09/25/24 08:11	09/26/24 08:39	1
Boron	0.0035	J B	0.10	0.0015	mg/L		09/25/24 08:11	09/26/24 08:39	1

Client Sample ID: COMPLIANCE 03	Lab Sample ID: 280-197036-4
Date Collected: 09/23/24 13:30	Matrix: Water
Date Received: 09/23/24 16:35	

0.10

0.0093 J

0.0091 mg/L

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.036	J	0.10	0.018	mg/L		09/25/24 08:11	09/26/24 08:44	1
Boron	0.0015	JB	0.10	0.0015	mg/L		09/25/24 08:11	09/26/24 08:44	1
Iron	ND		0.10	0.0091	mg/L		09/25/24 08:11	09/26/24 08:44	1

Client Sample ID: CARIBOU WELL	Lab Sample ID: 280-197036-5
Date Collected: 09/23/24 11:30	Matrix: Water
Date Received: 09/23/24 16:35	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.023	J	0.10	0.018	mg/L		09/25/24 08:11	09/26/24 08:48	1
Boron	0.0025	JB	0.10	0.0015	mg/L		09/25/24 08:11	09/26/24 08:48	1
Iron	0.013	J	0.10	0.0091	mg/L		09/25/24 08:11	09/26/24 08:48	1

Client Sample ID: CROSS PORTAL	Lab Sample ID: 280-197036-6
Date Collected: 09/23/24 12:15	Matrix: Water
Date Received: 09/23/24 16:35	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.10	0.018	mg/L		09/25/24 08:11	09/26/24 08:52	1
Boron	0.0041	JB	0.10	0.0015	mg/L		09/25/24 08:11	09/26/24 08:52	1
Iron	0.011	J	0.10	0.0091	mg/L		09/25/24 08:11	09/26/24 08:52	1

_		
	Client Sample ID: CROSS PORTAL 02	Lab Sample ID: 280-197036-7
	Date Collected: 09/23/24 12:15	Matrix: Water

Date Received: 09/23/24 16:35									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.10	0.018	mg/L		09/25/24 08:11	09/26/24 08:56	1
Boron	0.0041	JB	0.10	0.0015	mg/L		09/25/24 08:11	09/26/24 08:56	1
Iron	ND		0.10	0.0091	mg/L		09/25/24 08:11	09/26/24 08:56	1

Eurofins Denver

Page 14 of 46 10/24/2024

Client Sample Results

Client: Grand Island Resources

Project/Site: Nederland, CO - Groundwater

Job ID: 280-197036-1

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

Client Sample ID: CARIBOU PORTAL Lab Sample ID: 280-197036-8 Date Collected: 09/23/24 11:15 **Matrix: Water**

Date Received: 09/23/24 16:35

Date Neceived. 03/23/24 10.33									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.10	0.018	mg/L		09/25/24 08:11	09/26/24 09:00	1
Boron	0.0037	JB	0.10	0.0015	mg/L		09/25/24 08:11	09/26/24 09:00	1
Iron	0.012	J	0.10	0.0091	mg/L		09/25/24 08:11	09/26/24 09:00	1

Method: EPA 200.8 - ICPMS Total Metals - Dissolved

Client Sample ID: CROSS WELL Lab Sample ID: 280-197036-1 Date Collected: 09/23/24 13:00 **Matrix: Water**

Date Received: 09/23/24 16:35

Date Received: 09/23/	24 16:35							
Analyte	Result Qualifie	er RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00055 J	0.0020	0.00040	mg/L		09/26/24 14:48	09/27/24 19:41	1
Arsenic	ND	0.0050	0.00050	mg/L		09/26/24 14:48	09/27/24 19:41	1
Barium	0.031	0.0030	0.00038	mg/L		09/26/24 14:48	09/27/24 19:41	1
Cadmium	ND	0.0010	0.00019	mg/L		09/26/24 14:48	09/27/24 19:41	1
Copper	0.0037	0.0020	0.00071	mg/L		09/26/24 14:48	09/27/24 19:41	1
Lead	ND	0.0010	0.00023	mg/L		09/26/24 14:48	09/27/24 19:41	1
Manganese	0.0070	0.0030	0.00051	mg/L		09/26/24 14:48	10/01/24 19:21	1
Molybdenum	0.00082 J	0.0020	0.00037	mg/L		09/26/24 14:48	09/27/24 19:41	1
Uranium	0.000066 J	0.0010	0.000030	mg/L		09/26/24 14:48	09/27/24 19:41	1
Zinc	1.5	0.010	0.0020	mg/L		09/26/24 14:48	09/27/24 19:41	1

Client Sample ID: COMPLIANCE WELL Lab Sample ID: 280-197036-2 **Matrix: Water**

Date Collected: 09/23/24 13:30

Date Received: 09/23/24	4 16:35							
Analyte	Result Q	Qualifier R	_ MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND ND	0.002	0.00040	mg/L		09/26/24 14:48	09/27/24 19:44	1
Arsenic	ND	0.005	0.00050	mg/L		09/26/24 14:48	09/27/24 19:44	1
Barium	0.042	0.003	0.00038	mg/L		09/26/24 14:48	09/27/24 19:44	1
Cadmium	ND	0.001	0.00019	mg/L		09/26/24 14:48	09/27/24 19:44	1
Copper	ND	0.002	0.00071	mg/L		09/26/24 14:48	09/27/24 19:44	1
Lead	ND	0.001	0.00023	mg/L		09/26/24 14:48	09/27/24 19:44	1
Manganese	0.0066	0.003	0.00051	mg/L		09/26/24 14:48	10/01/24 19:25	1
Molybdenum	0.0047	0.002	0.00037	mg/L		09/26/24 14:48	09/27/24 19:44	1
Uranium	0.00015 J	0.001	0.000030	mg/L		09/26/24 14:48	09/27/24 19:44	1
Zinc	0.089	0.01	0.0020	mg/L		09/26/24 14:48	09/27/24 19:44	1

Client Sample ID: COMPLIANCE 02 Lab Sample ID: 280-197036-3 Date Collected: 09/23/24 13:30 **Matrix: Water**

Date Received: 09/23/24 16:35

Date Neccived. 03/23/2	-T 10.00								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00040	mg/L		09/26/24 14:48	09/27/24 19:48	1
Arsenic	ND		0.0050	0.00050	mg/L		09/26/24 14:48	09/27/24 19:48	1
Barium	0.043		0.0030	0.00038	mg/L		09/26/24 14:48	09/27/24 19:48	1
Cadmium	ND		0.0010	0.00019	mg/L		09/26/24 14:48	09/27/24 19:48	1
Copper	ND		0.0020	0.00071	mg/L		09/26/24 14:48	09/27/24 19:48	1
Lead	ND		0.0010	0.00023	mg/L		09/26/24 14:48	09/27/24 19:48	1
Manganese	0.0075		0.0030	0.00051	mg/L		09/26/24 14:48	10/01/24 19:28	1
Molybdenum	0.0048		0.0020	0.00037	mg/L		09/26/24 14:48	09/27/24 19:48	1
Uranium	0.00014	J	0.0010	0.000030	mg/L		09/26/24 14:48	09/27/24 19:48	1
Zinc	0.086		0.010	0.0020	mg/L		09/26/24 14:48	09/27/24 19:48	1

Eurofins Denver

10/24/2024

Page 15 of 46

Project/Site: Nederland, CO - Groundwater

Method: EPA 200.8 - ICPMS Total Metals - Dissolved

Client Sample ID: COMPLIANCE 03 Lab Sample ID: 280-197036-4 Date Collected: 09/23/24 13:30 **Matrix: Water**

Date Received: 09/23/24 16:35

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00040	mg/L		09/26/24 14:48	09/27/24 19:52	1
Arsenic	ND		0.0050	0.00050	mg/L		09/26/24 14:48	09/27/24 19:52	1
Barium	0.0015	J	0.0030	0.00038	mg/L		09/26/24 14:48	09/27/24 19:52	1
Cadmium	ND		0.0010	0.00019	mg/L		09/26/24 14:48	09/27/24 19:52	1
Copper	ND		0.0020	0.00071	mg/L		09/26/24 14:48	09/27/24 19:52	1
Lead	ND		0.0010	0.00023	mg/L		09/26/24 14:48	09/27/24 19:52	1
Manganese	ND		0.0030	0.00051	mg/L		09/26/24 14:48	10/01/24 19:32	1
Molybdenum	ND		0.0020	0.00037	mg/L		09/26/24 14:48	09/27/24 19:52	1
Uranium	ND		0.0010	0.000030	mg/L		09/26/24 14:48	09/27/24 19:52	1
Zinc	ND		0.010	0.0020	mg/L		09/26/24 14:48	09/27/24 19:52	1

Client Sample ID: CARIBOU WELL Lab Sample ID: 280-197036-5 Date Collected: 09/23/24 11:30 **Matrix: Water**

Date Received: 09/23/2	24 16:35							
Analyte	Result Qualif	ier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND ND	0.0020	0.00040	mg/L		09/26/24 14:48	09/27/24 19:55	1
Arsenic	ND	0.0050	0.00050	mg/L		09/26/24 14:48	09/27/24 19:55	1
Barium	0.0097	0.0030	0.00038	mg/L		09/26/24 14:48	09/27/24 19:55	1
Cadmium	ND	0.0010	0.00019	mg/L		09/26/24 14:48	09/27/24 19:55	1
Copper	0.099	0.0020	0.00071	mg/L		09/26/24 14:48	09/27/24 19:55	1
Lead	ND	0.0010	0.00023	mg/L		09/26/24 14:48	09/27/24 19:55	1
Manganese	0.0031	0.0030	0.00051	mg/L		09/26/24 14:48	10/01/24 19:35	1
Molybdenum	ND	0.0020	0.00037	mg/L		09/26/24 14:48	09/27/24 19:55	1
Uranium	ND	0.0010	0.000030	mg/L		09/26/24 14:48	09/27/24 19:55	1
Zinc	0.0092 J	0.010	0.0020	mg/L		09/26/24 14:48	09/27/24 19:55	1

Client Sample ID: CROSS PORTAL Lab Sample ID: 280-197036-6 Date Collected: 09/23/24 12:15 **Matrix: Water**

Date Received: 09/23/2	24 16:35								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00042	J	0.0020	0.00040	mg/L		09/26/24 14:48	09/27/24 19:59	1
Arsenic	ND		0.0050	0.00050	mg/L		09/26/24 14:48	09/27/24 19:59	1
Barium	0.072		0.0030	0.00038	mg/L		09/26/24 14:48	10/01/24 19:39	1
Cadmium	0.0013		0.0010	0.00019	mg/L		09/26/24 14:48	09/27/24 19:59	1
Copper	0.0018	J	0.0020	0.00071	mg/L		09/26/24 14:48	09/27/24 19:59	1
Lead	0.00072	J	0.0010	0.00023	mg/L		09/26/24 14:48	09/27/24 19:59	1
Manganese	0.0099		0.0030	0.00051	mg/L		09/26/24 14:48	10/01/24 19:39	1
Molybdenum	0.0069		0.0020	0.00037	mg/L		09/26/24 14:48	10/01/24 19:39	1
Uranium	0.00077	J	0.0010	0.000030	mg/L		09/26/24 14:48	09/27/24 19:59	1
Zinc	0.23		0.010	0.0020	mg/L		09/26/24 14:48	09/27/24 19:59	1

Client Sample ID: CROSS PORTAL 02 Lab Sample ID: 280-197036-7 Date Collected: 09/23/24 12:15 **Matrix: Water**

Date Received: 09/23/24 16:35

Date Received: 09/23/24 16:35									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00053	J	0.0020	0.00040	mg/L		09/26/24 14:48	09/27/24 20:02	1
Arsenic	ND		0.0050	0.00050	mg/L		09/26/24 14:48	09/27/24 20:02	1
Barium	0.073		0.0030	0.00038	mg/L		09/26/24 14:48	09/27/24 20:02	1
Cadmium	0.0012		0.0010	0.00019	mg/L		09/26/24 14:48	09/27/24 20:02	1
Copper	0.0018	J	0.0020	0.00071	mg/L		09/26/24 14:48	09/27/24 20:02	1

Eurofins Denver

Page 16 of 46

Job ID: 280-197036-1

Job ID: 280-197036-1

Client: Grand Island Resources

Project/Site: Nederland, CO - Groundwater

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

Client Sample ID: CROSS PORTAL 02 Lab Sample ID: 280-197036-7 Date Collected: 09/23/24 12:15 **Matrix: Water**

Date Received: 09/23/24 16:35

Dato 11000110a1 00/20/24 10:00									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.00072	J	0.0010	0.00023	mg/L		09/26/24 14:48	09/27/24 20:02	1
Manganese	0.0093		0.0030	0.00051	mg/L		09/26/24 14:48	10/01/24 19:42	1
Molybdenum	0.0066		0.0020	0.00037	mg/L		09/26/24 14:48	09/27/24 20:02	1
Uranium	0.00077	J	0.0010	0.000030	mg/L		09/26/24 14:48	09/27/24 20:02	1
Zinc	0.22		0.010	0.0020	mg/L		09/26/24 14:48	09/27/24 20:02	1

Lab Sample ID: 280-197036-8 **Client Sample ID: CARIBOU PORTAL** Date Collected: 09/23/24 11:15 **Matrix: Water**

Date Received: 09/23/24 16:35 Analyte	Rosult	Qualifier	RL	MDI	Unit	D	Prepared	Analyzed	Dil Fac
									Diriac
Antimony	0.00089	J	0.0020	0.00040	mg/L		09/26/24 14:48	09/27/24 20:06	1
Arsenic	ND		0.0050	0.00050	mg/L		09/26/24 14:48	09/27/24 20:06	1
Barium	0.063		0.0030	0.00038	mg/L		09/26/24 14:48	09/27/24 20:06	1
Cadmium	ND		0.0010	0.00019	mg/L		09/26/24 14:48	09/27/24 20:06	1
Copper	ND		0.0020	0.00071	mg/L		09/26/24 14:48	09/27/24 20:06	1
Lead	ND		0.0010	0.00023	mg/L		09/26/24 14:48	09/27/24 20:06	1
Manganese	0.0038		0.0030	0.00051	mg/L		09/26/24 14:48	10/01/24 19:46	1
Molybdenum	0.0068		0.0020	0.00037	mg/L		09/26/24 14:48	09/27/24 20:06	1
Uranium	0.0062		0.0010	0.000030	mg/L		09/26/24 14:48	09/27/24 20:06	1
Zinc	0.0083	J	0.010	0.0020	mg/L		09/26/24 14:48	09/27/24 20:06	1

General Chemistry

Client Sample ID: CROSS WELL Lab Sample ID: 280-197036-1 Date Collected: 09/23/24 13:00 **Matrix: Water**

Date Received: 09/23/24 16:35									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N (EPA 300.0)	0.33	J	0.50	0.090	mg/L			09/24/24 04:03	1
Sulfate (EPA 300.0)	9.9		5.0	1.0	mg/L			10/01/24 20:47	1
Nitrate Nitrite as N (EPA 353.2)	0.36		0.10	0.044	mg/L			10/08/24 12:12	1
Total Dissolved Solids (TDS) (SM 2540C)	99		10	4.7	mg/L			09/24/24 09:17	1
Chloride (SM 4500 CI- E)	4.2		2.0	0.68	mg/L			10/03/24 12:21	1

Client Sample ID: COMPLIANCE WELL Lab Sample ID: 280-197036-2

Date Collected: 09/23/24 13:30

Date Received: 09/23/2	4 16:35								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N (EPA 300.0)	0.35	J	0.50	0.090	mg/L			09/24/24 03:12	1
Sulfate (EPA 300.0)	9.4		5.0	1.0	mg/L			10/01/24 20:58	1
Nitrate Nitrite as N (EPA 35	3.2) 0.38		0.10	0.044	mg/L			10/08/24 12:14	1
Total Dissolved Solids (TD 2540C)	S) (SM 91		10	4.7	mg/L			09/24/24 09:17	1
Chloride (SM 4500 CI- E)	3.1		2.0	0.68	mg/L			10/03/24 12:21	1

Client Sample ID: COMPLIANCE 02 Lab Sample ID: 280-197036-3 Date Collected: 09/23/24 13:30 **Matrix: Water**

Date Received: 09/23/24 16:35									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N (EPA 300.0)	0.35	J	0.50	0.090	mg/L			09/24/24 03:29	1
Sulfate (EPA 300.0)	9.4		5.0	1.0	mg/L			10/01/24 21:09	1

Eurofins Denver

Matrix: Water

Client Sample Results

Client: Grand Island Resources Job ID: 280-197036-1

Project/Site: Nederland, CO - Groundwater

General Chemistry (Continued)

Client Sample ID: COMPLIANCE 02	Lab Sample ID: 280-197036-3
Date Collected: 09/23/24 13:30	Matrix: Water

Date Received: 09/23/24 16:35

Date Received, 03/20/24 10:00									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N (EPA 353.2)	0.38		0.10	0.044	mg/L			10/08/24 12:15	1
Total Dissolved Solids (TDS) (SM 2540C)	88		10	4.7	mg/L			09/24/24 09:17	1
Chloride (SM 4500 CI- E)	3.1		2.0	0.68	mg/L			10/03/24 12:21	1

Client Sample ID: COMPLIANCE 03 Lab Sample ID: 280-197036-4 Date Collected: 09/23/24 13:30 **Matrix: Water**

	Date Received: 09/23/24 16:35									
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Nitrate as N (EPA 300.0)	ND		0.50	0.090	mg/L			09/24/24 03:46	1
	Sulfate (EPA 300.0)	ND		5.0	1.0	mg/L			10/01/24 21:20	1
	Nitrate Nitrite as N (EPA 353.2)	ND		0.10	0.044	mg/L			10/08/24 12:16	1
	Total Dissolved Solids (TDS) (SM 2540C)	36	J	40	19	mg/L			09/24/24 09:17	1
l	Chloride (SM 4500 Cl- E)	ND		2.0	0.68	mg/L			10/03/24 12:20	1

Client Sample ID: CARIBOU WELL Lab Sample ID: 280-197036-5 **Matrix: Water**

Date Collected: 09/23/24 11:30 Data Pacaiyad: 09/23/24 16:35

Date Received: 09/23/24 16:35									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N (EPA 300.0)	0.15	J	0.50	0.090	mg/L			09/24/24 02:38	1
Sulfate (EPA 300.0)	3.0	J	5.0	1.0	mg/L			10/01/24 21:53	1
Nitrate Nitrite as N (EPA 353.2)	0.096	J	0.10	0.044	mg/L			10/08/24 12:17	1
Total Dissolved Solids (TDS) (SM 2540C)	37		10	4.7	mg/L			09/25/24 08:48	1
Chloride (SM 4500 Cl- E)	ND		2.0	0.68	mg/L			10/03/24 11:59	1

Client Sample ID: CROSS PORTAL Lab Sample ID: 280-197036-6 **Matrix: Water**

Date Collected: 09/23/24 12:15

Date Received: 09/23/24 16:35									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N (EPA 300.0)	0.13	J	0.50	0.090	mg/L			09/24/24 01:13	1
Sulfate (EPA 300.0)	11		5.0	1.0	mg/L			10/01/24 23:21	1
Nitrate Nitrite as N (EPA 353.2)	0.090	J	0.10	0.044	mg/L			10/08/24 12:19	1
Total Dissolved Solids (TDS) (SM 2540C)	120		10	4.7	mg/L			09/25/24 08:48	1
Chloride (SM 4500 Cl- E)	ND		2.0	0.68	mg/L			10/03/24 12:21	1

Lab Sample ID: 280-197036-7 **Client Sample ID: CROSS PORTAL 02 Matrix: Water**

Date Collected: 09/23/24 12:15 Date Received: 09/23/24 16:35

Date Neceived. 03/23/24 10.33									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N (EPA 300.0)	0.13	J	0.50	0.090	mg/L			09/24/24 02:55	1
Sulfate (EPA 300.0)	11		5.0	1.0	mg/L			10/01/24 23:32	1
Nitrate Nitrite as N (EPA 353.2)	0.083	J	0.10	0.044	mg/L			10/08/24 12:20	1
Total Dissolved Solids (TDS) (SM 2540C)	120		10	4.7	mg/L			09/25/24 08:48	1
Chloride (SM 4500 Cl- E)	ND		2.0	0.68	mg/L			10/03/24 11:59	1

Eurofins Denver

Client Sample Results

Client: Grand Island Resources Job ID: 280-197036-1

Project/Site: Nederland, CO - Groundwater

General Chemistry

Client Sample ID: CARIBOU PORTAL Lab Sample ID: 280-197036-8 **Matrix: Water**

Date Collected: 09/23/24 11:15

Date	e Received: 09/23/24 16:35									
Anal	yte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitra	te as N (EPA 300.0)	0.19	J	0.50	0.090	mg/L			09/24/24 02:21	1
Sulfa	ate (EPA 300.0)	12		5.0	1.0	mg/L			10/01/24 23:43	1
Nitra	te Nitrite as N (EPA 353.2)	0.11		0.10	0.044	mg/L			10/08/24 12:21	1
Tota 2540	Dissolved Solids (TDS) (SMC)	140		10	4.7	mg/L			09/25/24 08:48	1
Chlo	ide (SM 4500 Cl- E)	ND		2.0	0.68	mg/L			10/03/24 12:21	1

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

Client Sample ID: CROSS WELL Lab Sample ID: 280-197036-1 **Matrix: Water**

Date Collected: 09/23/24 13:00 Date Received: 09/23/24 16:35

Date Received. 03	725/24 10.5	,,								
			Count	Total						
			Uncert.	Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	1.39	U	1.26	1.27	3.00	1.98	pCi/L	09/26/24 08:20	10/06/24 10:17	1
Gross Beta	0.609	U	0.721	0.723	4.00	1.16	pCi/L	09/26/24 08:20	10/06/24 10:17	1

Client Sample ID: COMPLIANCE WELL Lab Sample ID: 280-197036-2 **Matrix: Water**

Date Collected: 09/23/24 13:30 Date Received: 09/23/24 16:35

			Count	Total						
			Uncert.	Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	0.779	U	0.975	0.979	3.00	1.62	pCi/L	09/26/24 08:20	10/06/24 10:17	1
Gross Beta	1.19		0.650	0.660	4.00	0.963	pCi/L	09/26/24 08:20	10/06/24 10:17	1

Client Sample ID: COMPLIANCE 02 Lab Sample ID: 280-197036-3 Date Collected: 09/23/24 13:30 **Matrix: Water**

Date Received: 09/23/24 16:35

Bato Itoooiroa.	00/20/27 10:0	•								
			Count	Total						
			Uncert.	Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	0.259	U	0.922	0.922	3.00	1.67	pCi/L	09/26/24 08:20	10/06/24 10:17	1
Gross Beta	1.70		0.648	0.670	4.00	0.883	pCi/L	09/26/24 08:20	10/06/24 10:17	1

Client Sample ID: COMPLIANCE 03 Lab Sample ID: 280-197036-4 **Matrix: Water**

Date Collected: 09/23/24 13:30 Date Received: 09/23/24 16:35

			Count	Total						
			Uncert.	Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	0.115	U	0.653	0.653	3.00	1.19	pCi/L	09/26/24 08:20	10/06/24 10:17	1
Gross Beta	0.725	U	0.556	0.560	4.00	0.872	pCi/L	09/26/24 08:20	10/06/24 10:17	1

Eurofins Denver

10/24/2024

Client: Grand Island Resources Job ID: 280-197036-1

Project/Site: Nederland, CO - Groundwater

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

Client Sample ID: CARIBOU WELL Lab Sample ID: 280-197036-5

Date Collected: 09/23/24 11:30

Matrix: Water Date Received: 09/23/24 16:35 Count Total

Analyte	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	0.327	U	0.609	0.610	3.00	1.06	pCi/L	09/26/24 08:20	10/06/24 10:17	1
Gross Beta	0.329	U	0.438	0.439	4.00	0.719	pCi/L	09/26/24 08:20	10/06/24 10:17	1

Client Sample ID: CROSS PORTAL Lab Sample ID: 280-197036-6 Date Collected: 09/23/24 12:15 **Matrix: Water**

Date Received: 09/23/24 16:35

Count Total Uncert. Uncert. Prepared Analyte Result Qualifier $(2\sigma + / -)$ $(2\sigma + / -)$ RL **MDC** Unit Analyzed Dil Fac 1.55 1.58 3.00 2.26 pCi/L 09/26/24 08:20 10/07/24 07:50 **Gross Alpha** 2.43 0.690 09/26/24 08:20 10/07/24 07:50 **Gross Beta** 0.676 4.00 0.935 pCi/L 1.41

Client Sample ID: CROSS PORTAL 02 Lab Sample ID: 280-197036-7 Date Collected: 09/23/24 12:15 **Matrix: Water**

Date Received: 09/23/24 16:35

Count Total Uncert. Uncert. Analyte Result Qualifier $(2\sigma + / -)$ $(2\sigma + / -)$ RLMDC Unit Prepared Analyzed Dil Fac Gross Alpha 1.01 U 1.56 1.57 3.00 2.65 pCi/L 09/26/24 08:20 10/07/24 07:50 **Gross Beta** 1.68 0.776 0.794 4.00 1.13 pCi/L 09/26/24 08:20 10/07/24 07:50

Client Sample ID: CARIBOU PORTAL Lab Sample ID: 280-197036-8 Date Collected: 09/23/24 11:15 **Matrix: Water**

Date Received: 09/23/24 16:35

Count Total Uncert. Uncert. Result Qualifier $(2\sigma + / -)$ **MDC** Unit Analyte $(2\sigma + / -)$ RL Prepared Analyzed Dil Fac 2.57 2.71 3.00 3.12 pCi/L 09/26/24 08:20 10/07/24 07:50 **Gross Alpha** 7.72 G **Gross Beta** 0.802 1.75 0.821 4.00 1.04 pCi/L 09/26/24 08:20 10/07/24 07:50

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

Client Sample ID: CROSS WELL Lab Sample ID: 280-197036-1 Date Collected: 09/23/24 13:00 **Matrix: Water**

Date Received: 09	9/23/24 16:3	35								
			Count	Total						
			Uncert.	Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Cesium-137	-3.32	U	11.3	11.4	20.0	16.7	pCi/L	10/15/24 15:57	10/19/24 16:42	1
			Count	Total						
Other Detected			Uncert.	Uncert.						
Radionuclides	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Bi-214	33.5		16.2	16.6		17.9	pCi/L	10/15/24 15:57	10/19/24 16:42	1
Pb-214	37.4		15.3	15.8		16.7	pCi/L	10/15/24 15:57	10/19/24 16:42	1

Eurofins Denver

Job ID: 280-197036-1

pCi/L

MDC Unit

17.1 pCi/L

10/15/24 15:57 10/19/24 18:09

10/15/24 15:57 10/19/24 19:14

Prepared

Project/Site: Nederland, CO - Groundwater

None

Result Qualifier

52.6

Client: Grand Island Resources

Other Detected

Radionuclides

Pb-214

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

 $(2\sigma + /-)$

15.2

Client Sample ID: Date Collected: 09 Date Received: 09	9/23/24 13:3	30	•					Lab Samp	ple ID: 280-19 Matrix:	97036-2 : Water
			Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Cesium-137	-4.54	U G	11.3	11.3	20.0	20.5	pCi/L	10/15/24 15:57	10/19/24 18:09	1
			Count	Total						
Other Detected			Uncert.	Uncert.						
Radionuclides	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac

Radionuclide										
Client Sample ID: Date Collected: 0 Date Received: 09	9/23/24 13:	30						Lab Sam	ple ID: 280-19 Matrix	7036-3 : Water
			Count	Total						
			Uncert.	Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Cesium-137	-8.46	UG	8.38	8.42	20.0	24.0	pCi/L	10/15/24 15:57	10/19/24 19:14	1
			Count	Total						
Other Detected			Uncert.	Uncert.						

Client Sample ID: COMPLIANCE 03 Date Collected: 09/23/24 13:30 Date Received: 09/23/24 16:35			Lab Sample ID: 280-197036-4 Matrix: Water
Count	То	al	
Uncert	Unce	rt	

RL

 $(2\sigma +/-)$

16.1

			Count	iotai						
			Uncert.	Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Cesium-137	-6.80	UG	19.4	19.4	20.0	31.4	pCi/L	10/15/24 15:57	10/19/24 20:41	1
			Count	Total						
Other Detected			Uncert.	Uncert.						
Radionuclides	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Other Detected	None						pCi/L	10/15/24 15:57	10/19/24 20:41	1
Padionuclida										

Client Sample ID: Date Collected: 0 Date Received: 0	9/23/24 11:3	30						Lab Sam	ole ID: 280-19 Matrix	7036-5 Water
Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Cesium-137	3.65	U	8.36	8.37	20.0	14.4	pCi/L	10/15/24 15:57	10/19/24 20:43	1
Other Detected			Count Uncert.	Total Uncert.						
Radionuclides	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Other Detected Radionuclide	None				_		pCi/L	10/15/24 15:57	10/19/24 20:43	1

Eurofins Denver

10/24/2024

Dil Fac

Analyzed

Client Sample Results

Client: Grand Island Resources Job ID: 280-197036-1

Project/Site: Nederland, CO - Groundwater

Date Received: 09/23/24 16:35

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

Client Sample ID: CROSS PORTAL	Lab Sample ID: 280-197036-6
Date Collected: 09/23/24 12:15	Matrix: Water
Date Received: 09/23/24 16:35	

			Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Cesium-137	3.65	U	9.10	9.10	20.0	15.7	pCi/L	10/15/24 15:57	10/19/24 20:44	1
			Count	Total						
Other Detected			Uncert.	Uncert.						
Radionuclides	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Other Detected	None			_			pCi/L	10/15/24 15:57	10/19/24 20:44	1
Radionuclide										

Client Sample ID: CROSS PORTAL 02	Lab Sample ID: 280-197036-7
Date Collected: 09/23/24 12:15	Matrix: Water
Date Received: 09/23/24 16:35	

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analvzed	Dil Fac
			` -							Diriac
Cesium-137	1.91	UG	12.0	12.0	20.0	21.0	pCi/L	10/15/24 15:57	10/19/24 20:45	1
			Count	Total						
Other Detected			Uncert.	Uncert.						
Radionuclides	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Th-234	254		87.4	91.3		101	pCi/L	10/15/24 15:57	10/19/24 20:45	1

Client Sample ID: CARIBOU PORTAL	Lab Sample ID: 280-197036-8
Date Collected: 09/23/24 11:15	Matrix: Water

			Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Cesium-137	-0.357	UG	13.8	13.8	20.0	24.4	pCi/L	10/15/24 15:57	10/19/24 20:47	1
			Count	Total						
Other Detected			Uncert.	Uncert.						
Radionuclides	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Other Detected	None						pCi/L	10/15/24 15:57	10/19/24 20:47	1
Radionuclide										

Project/Site: Nederland, CO - Groundwater

Job ID: 280-197036-1

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 280-668529/1-A

Matrix: Water

Analysis Batch: 668808

Client Sample ID: Method Blank Prep Type: Total Recoverable

Prep Batch: 668529

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.10	0.018	mg/L		09/25/24 08:11	09/26/24 07:59	1
Boron	0.00179	J	0.10	0.0015	mg/L		09/25/24 08:11	09/26/24 07:59	1
Iron	ND		0.10	0.0091	mg/L		09/25/24 08:11	09/26/24 07:59	1

LCS LCS

10.2

2.19

10.3

Result Qualifier

Unit

mg/L

mg/L

mg/L

MR MR

Lab Sample ID: LCS 280-668529/2-A

Matrix: Water

Analyte

Boron

Iron

Aluminum

Analysis Batch: 668808

Client Sample ID: Lab Control Sample **Prep Type: Total Recoverable Prep Batch: 668529**

%Rec D %Rec Limits 87 - 111 102 110 86 - 110

Lab Sample ID: 280-197036-8 MS

Matrix: Water

Analysis Batch: 668808

Client Sample ID: CARIBOU PORTAL

103

85 - 115

Prep Type: Dissolved

Prep Batch: 668529

•	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Aluminum	ND		10.0	10.1		mg/L		101	70 - 130	
Boron	0.0037	JB	2.00	2.18		mg/L		109	70 - 130	
Iron	0.012	J	10.0	10.2		mg/L		102	70 - 130	

Spike

Added

10.0

2.00

10.0

Lab Sample ID: 280-197036-8 MSD

Matrix: Water

Analysis Batch: 668808

Client Sample ID: CARIBOU PORTAL Prep Type: Dissolved

Prep Batch: 668529

Sample Sample Spike MSD MSD %Rec **RPD** Result Qualifier Added Result Qualifier RPD Limit Analyte Unit D %Rec Limits Aluminum ND 10.0 10.3 mg/L 103 70 - 130 2 20 0.0037 JB 2.00 2 23 20 Boron mg/L 70 - 130 2 111 Iron 0.012 J 10.0 10.3 mg/L 103 70 - 130 20

Method: 200.8 - ICPMS Total Metals

Lab Sample ID: MB 280-668815/1-A

Matrix: Water

Analysis Batch: 669326

Client Sample ID: Method Blank **Prep Type: Total Recoverable**

Prep Batch: 668815

MB MB Result Qualifier RL **MDL** Unit Dil Fac **Analyte** Prepared Analyzed 09/26/24 14:48 09/30/24 15:31 Manganese ND 0.0030 0.00051 mg/L

Lab Sample ID: MB 280-669297/1-A

Matrix: Water

Analysis Batch: 669051

Client Sample ID: Method Blank Prep Type: Total Recoverable Prep Batch: 669297

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00040	mg/L		09/26/24 14:48	09/27/24 19:34	1
Arsenic	ND		0.0050	0.00050	mg/L		09/26/24 14:48	09/27/24 19:34	1
Barium	ND		0.0030	0.00038	mg/L		09/26/24 14:48	09/27/24 19:34	1
Cadmium	ND		0.0010	0.00019	mg/L		09/26/24 14:48	09/27/24 19:34	1
Copper	ND		0.0020	0.00071	mg/L		09/26/24 14:48	09/27/24 19:34	1

Eurofins Denver

10/24/2024

Page 23 of 46

Job ID: 280-197036-1

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

Method: 200.8 - ICPMS Total Metals (Continued)

Lab Sample ID: MB 280-669297/1-A

Lab Sample ID: LCS 280-669297/2-A

Matrix: Water

Matrix: Water

Analysis Batch: 669051

Client Sample ID: Method Blank Prep Type: Total Recoverable

Prep Batch: 669297

	INID	IAID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0010	0.00023	mg/L		09/26/24 14:48	09/27/24 19:34	1
Molybdenum	ND		0.0020	0.00037	mg/L		09/26/24 14:48	09/27/24 19:34	1
Uranium	ND		0.0010	0.000030	mg/L		09/26/24 14:48	09/27/24 19:34	1
Zinc	ND		0.010	0.0020	mg/L		09/26/24 14:48	09/27/24 19:34	1
	Lead Molybdenum Uranium	Analyte Result Lead ND Molybdenum ND Uranium ND	Lead ND Molybdenum ND Uranium ND	Analyte Result Lead Qualifier RL Qualifier Lead ND 0.0010 Molybdenum ND 0.0020 Uranium ND 0.0010	Analyte Result Dualifier RL Dualifier MDL Dualifier Lead ND 0.0010 0.0023 Molybdenum ND 0.0020 0.0020 Uranium ND 0.0010 0.0010 ND 0.0010 0.00030	Analyte Result Lead Qualifier RL ND MDL Unit Unit Unit 0.00010 Unit Unit 0.00023 mg/L Molybdenum Molybdenum ND 0.0020 0.00037 mg/L mg/L mg/L Uranium ND 0.0010 0.000030 mg/L	Analyte Result Lead Qualifier RL OUND MDL OUND Unit MDL OUND D Molybdenum ND 0.0020 0.00037 mg/L Uranium ND 0.0010 0.000030 mg/L	Analyte Result Qualifier RL MDL Unit D Prepared Lead ND 0.0010 0.00023 mg/L 09/26/24 14:48 Molybdenum ND 0.0020 0.00037 mg/L 09/26/24 14:48 Uranium ND 0.0010 0.000030 mg/L 09/26/24 14:48	Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Lead ND 0.0010 0.00023 mg/L 09/26/24 14:48 09/27/24 19:34 Molybdenum ND 0.0020 0.00037 mg/L 09/26/24 14:48 09/27/24 19:34 Uranium ND 0.0010 0.000030 mg/L 09/26/24 14:48 09/27/24 19:34

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 669297

Analysis Batch: 669051 LCS LCS %Rec Spike Limits **Analyte** Added Result Qualifier Unit D %Rec Antimony 0.0400 0.0394 99 85 - 115 mg/L 0.0400 0.0373 Arsenic mg/L 93 89 - 111 Barium 0.0400 0.0408 mg/L 102 89 - 115 Cadmium 0.0400 0.0392 mg/L 98 89 - 111 Copper 0.0400 0.0378 mg/L 95 90 - 115 Lead 0.0400 0.0405 mg/L 101 88 - 115 0.0400 87 - 115 Manganese 0.0360 mg/L 90 Molybdenum 0.0400 0.0393 mg/L 98 89 - 112 Uranium 0.0400 0.0358 mg/L 90 85 - 115 Zinc 0.0400 0.0373 mg/L 93 88 - 115

Lab Sample ID: 280-197045-C-1-I MS

Matrix: Water

Analysis Batch: 669051

Client Sample ID: Matrix Spike Prep Type: Dissolved

Prep Batch: 669297

-	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Antimony	ND		0.0400	0.0394		mg/L		98	85 - 115	
Arsenic	ND		0.0400	0.0368		mg/L		92	79 - 120	
Barium	0.0060		0.0400	0.0460		mg/L		100	89 - 115	
Cadmium	ND		0.0400	0.0389		mg/L		97	89 - 111	
Copper	ND		0.0400	0.0366		mg/L		92	90 - 115	
Lead	ND		0.0400	0.0390		mg/L		98	88 - 115	
Manganese	0.79	В	0.0400	0.849	4	mg/L		160	87 - 115	
Molybdenum	0.0059		0.0400	0.0457		mg/L		100	89 - 112	
Uranium	0.00013	J	0.0400	0.0362		mg/L		90	85 - 115	
Zinc	ND		0.0400	0.0370		mg/L		92	88 - 115	

Lab Sample ID: 280-197045-C-1-J MSD

Matrix: Water

Analysis Batch: 669051

Client Sample ID: Matrix Spike Duplicate Prep Type: Dissolved

Pren Batch: 669297

Allalysis Dalcil. 003031									Fieh Do	ALCII. O) 3 231
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Antimony	ND		0.0400	0.0430		mg/L		108	85 - 115	9	20
Arsenic	ND		0.0400	0.0402		mg/L		101	79 - 120	9	20
Barium	0.0060		0.0400	0.0477		mg/L		104	89 - 115	3	20
Cadmium	ND		0.0400	0.0391		mg/L		98	89 - 111	0	20
Copper	ND		0.0400	0.0383		mg/L		96	90 - 115	5	20
Lead	ND		0.0400	0.0403		mg/L		101	88 - 115	3	20
Manganese	0.79	В	0.0400	0.889	4	mg/L		261	87 - 115	5	20

Eurofins Denver

Page 24 of 46

10/24/2024

Client: Grand Island Resources Job ID: 280-197036-1

Project/Site: Nederland, CO - Groundwater

Method: 200.8 - ICPMS Total Metals (Continued)

Lab Sample ID: 280-197045-C-1-J MSD	Client Sample ID: Matrix Spike Duplicate
Matrix: Water	Prep Type: Dissolved
Analysis Batch: 669051	Prep Batch: 669297

_	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Molybdenum	0.0059		0.0400	0.0478		mg/L		105	89 - 112	4	20
Uranium	0.00013	J	0.0400	0.0383		mg/L		95	85 - 115	6	20
Zinc	ND		0.0400	0.0394		mg/L		98	88 - 115	6	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 280-668303/6 **Client Sample ID: Method Blank** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 668303

MB MB Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac 0.50 Nitrate as N $\overline{\mathsf{ND}}$ 0.090 mg/L 09/23/24 16:42

Lab Sample ID: LCS 280-668303/4 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA **Matrix: Water**

Analysis Batch: 668303

LCS LCS %Rec Spike Added Analyte Result Qualifier Unit %Rec Limits Nitrate as N 5.00 90 - 110 4.99 mg/L 100

Lab Sample ID: LCSD 280-668303/5 Client Sample ID: Lab Control Sample Dup **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 668303

Spike LCSD LCSD %Rec **RPD** Added Result Qualifier Analyte Unit D %Rec Limits RPD Limit 5.00 Nitrate as N 100 90 - 110 4.99 mg/L

Lab Sample ID: MRL 280-668303/3 **Client Sample ID: Lab Control Sample**

Matrix: Water

Analysis Batch: 668303

Spike MRL MRL %Rec Added Result Qualifier Limits Analyte Unit %Rec Nitrate as N 0.500 0.470 J mg/L 94 50 - 150

Lab Sample ID: 280-197036-6 MS **Client Sample ID: CROSS PORTAL Matrix: Water**

Analysis Batch: 668303

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Nitrate as N 0.13 J 5.00 4.80 mg/L 80 - 120

Lab Sample ID: 280-197036-6 MSD **Client Sample ID: CROSS PORTAL** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 668303

Analysis Batom 00000	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Nitrate as N	0.13	J	5.00	4.94	-	mg/L		96	80 - 120	3	20

Eurofins Denver

10/24/2024

Prep Type: Total/NA

Prep Type: Total/NA

Client: Grand Island Resources Job ID: 280-197036-1

Project/Site: Nederland, CO - Groundwater

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 280-197036-6 DU Client Sample ID: CROSS PORTAL Prep Type: Total/NA

Matrix: Water

Analysis Batch: 668303

DU DU Sample Sample **RPD** Result Qualifier Result Qualifier Unit RPD Limit Analyte D Nitrate as N 0.13 J 0.127 J mg/L

Lab Sample ID: MB 280-669332/43 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 669332

MB MB Result Qualifier RLMDL Unit D Prepared Dil Fac Analyte Analyzed 5.0 10/01/24 22:26 Sulfate ND 1.0 mg/L

Lab Sample ID: MB 280-669332/6 Client Sample ID: Method Blank **Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 669332

MB MB

RL **MDL** Unit Analyte Result Qualifier Prepared Analyzed Dil Fac Sulfate ND 5.0 1.0 mg/L 10/01/24 13:13

Lab Sample ID: LCS 280-669332/4 **Client Sample ID: Lab Control Sample Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 669332

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit %Rec Limits Sulfate 100 99.7 mg/L 100 90 - 110

Lab Sample ID: LCS 280-669332/41

Matrix: Water

Analysis Batch: 669332

LCS LCS Spike %Rec Added Analyte Result Qualifier Unit %Rec Limits Sulfate 100 100 100 90 - 110 mg/L

Lab Sample ID: LCSD 280-669332/42 Client Sample ID: Lab Control Sample Dup

Matrix: Water

Analysis Batch: 669332

Spike LCSD LCSD %Rec **RPD** Added Result Qualifier Limits **RPD** Analyte Unit D %Rec Limit 100 Sulfate 100 100 90 - 110

Lab Sample ID: LCSD 280-669332/5 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Matrix: Water

Analysis Batch: 669332

Spike LCSD LCSD %Rec **RPD** Added Result Qualifier Limits RPD Analyte Unit D %Rec Limit Sulfate 100 100 mg/L 100 90 - 110 0

Lab Sample ID: MRL 280-669332/3 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 669332

Spike MRL MRL %Rec Added Analyte Result Qualifier Unit %Rec Limits Sulfate 5.00 4.84 mg/L 97 50 - 150

Eurofins Denver

10/24/2024

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Type: Total/NA

Job ID: 280-197036-1

Client: Grand Island Resources

Project/Site: Nederland, CO - Groundwater

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 280-197298-B-2 MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Water

Analysis Batch: 669332

Sample Sample Spike MS MS %Rec Result Qualifier Result Qualifier Added Limits Analyte Unit %Rec 80 - 120 Sulfate 290 E 50.0 338 E 4 mg/L 101

Lab Sample ID: 280-197298-B-2 MSD **Client Sample ID: Matrix Spike Duplicate Matrix: Water** Prep Type: Total/NA

Analysis Batch: 669332

Sample Sample Spike MSD MSD %Rec **RPD** Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit Analyte 290 E 50.0 80 - 120 Sulfate 338 E 4 mg/L 102 n

Lab Sample ID: 280-197298-B-2 DU **Client Sample ID: Duplicate Matrix: Water Prep Type: Total/NA**

Analysis Batch: 669332

Sample Sample DU DU RPD Result Qualifier Result Qualifier **RPD** Limit **Analyte** Unit Sulfate 290 E 287 E 0.06 15 mg/L

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 280-670187/59 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 670187

MB MB Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Nitrate Nitrite as N $\overline{\mathsf{ND}}$ 0.10 0.044 mg/L 10/08/24 12:06

Lab Sample ID: LCS 280-670187/57 **Client Sample ID: Lab Control Sample Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 670187

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit Limits Nitrate Nitrite as N 1.00 0.993 mg/L 90 - 110

Lab Sample ID: LCSD 280-670187/58 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Matrix: Water

Analysis Batch: 670187

LCSD LCSD RPD Spike %Rec Added RPD Analyte Result Qualifier Unit %Rec Limits Limit Nitrate Nitrite as N 1.00 0.992 99 90 - 110 mg/L

Lab Sample ID: 280-196890-G-15 MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Water

Analysis Batch: 670187

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 1.5 F1 2.00 Nitrate Nitrite as N 3.73 F1 mg/L 111 90 - 110

Eurofins Denver

Client: Grand Island Resources Job ID: 280-197036-1

Project/Site: Nederland, CO - Groundwater

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

Lab Sample ID: 280-196890-G-15 MSD **Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 670187

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Nitrate Nitrite as N	1.5	F1	2.00	3.71		mg/L		110	90 - 110	1	10

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

Lab Sample ID: MB 280-668428/1 **Client Sample ID: Method Blank Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 668428

MB MB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	ND		10	4.7	mg/L			09/24/24 09:17	1

Lab Sample ID: LCS 280-668428/2 **Client Sample ID: Lab Control Sample Matrix: Water Prep Type: Total/NA**

Analysis Batch: 668428

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Total Dissolved Solids (TDS)	503	526		mg/L		105	88 - 114	

Lab Sample ID: 280-197036-4 DU Client Sample ID: COMPLIANCE 03 **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 668428

	Sample	Sample	DU	DU				RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D	RPD	Limit
Total Dissolved Solids (TDS)	36	J	 36.0	J	mg/L		 0	10

Lab Sample ID: MB 280-668583/1 **Client Sample ID: Method Blank Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 668583

MB MB

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	ND	10	4.7	mg/L			09/25/24 08:48	1

Lab Sample ID: LCS 280-668583/2 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 668583

	Spike	LCS LCS			%Rec	
Analyte	Added	Result Qualifier	Unit I	D %Rec	Limits	
Total Dissolved Solids (TDS)	503	498	ma/L	99	88 - 114	

Lab Sample ID: 280-196870-D-1 DU **Client Sample ID: Duplicate** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 668583

	Sample	Sample	DU	DU					RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D		RPD	Limit
Total Dissolved Solids (TDS)	7000		 7400		mg/L			6	10

Eurofins Denver

10/24/2024

Job ID: 280-197036-1

Prep Type: Total/NA

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

10

Client: Grand Island Resources

Project/Site: Nederland, CO - Groundwater

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

560

Lab Sample ID: 280-196980-A-13 DU **Client Sample ID: Duplicate** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 668583

DU DU RPD Sample Sample Result Qualifier Result Qualifier RPD Limit Analyte Unit D

570

mg/L

Total Dissolved Solids (TDS) Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 280-669677/15 **Client Sample ID: Method Blank**

Matrix: Water

Analysis Batch: 669677

MB MB

Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac 2.0 0.68 mg/L Chloride $\overline{\mathsf{ND}}$ 10/03/24 11:43

Lab Sample ID: MB 280-669677/46 Client Sample ID: Method Blank **Matrix: Water Prep Type: Total/NA**

Analysis Batch: 669677

MB MB

Result Qualifier RL **MDL** Unit Dil Fac **Analyte** Prepared Analyzed 2.0 10/03/24 12:20 Chloride ND 0.68 mg/L

Lab Sample ID: LCS 280-669677/13 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 669677

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Chloride 20.0 20.0 100 90 - 110 mg/L

Lab Sample ID: LCS 280-669677/44

Matrix: Water

Analysis Batch: 669677

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit Limits Chloride 20.0 20.5 mg/L 103 90 - 110

Lab Sample ID: LCSD 280-669677/14 Client Sample ID: Lab Control Sample Dup

Matrix: Water

Analysis Batch: 669677

LCSD LCSD RPD Spike %Rec Added Result Qualifier RPD Analyte Unit %Rec Limits Limit Chloride 20.0 20.1 100 90 - 110 mg/L

Client Sample ID: Lab Control Sample Dup Lab Sample ID: LCSD 280-669677/45

Matrix: Water

Analysis Batch: 669677

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

Eurofins Denver

10/24/2024

Client: Grand Island Resources Job ID: 280-197036-1

Project/Site: Nederland, CO - Groundwater

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

Lab Sample ID: 280-197391-D-1 MS

Matrix: Water

Analysis Batch: 669677

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Limits Analyte Unit %Rec 90 - 110 Chloride 4.1 25.0 30.0 mg/L 103

Lab Sample ID: 280-197391-D-1 MSD

Matrix: Water

Analysis Batch: 669677

Sample Sample Spike MSD MSD %Rec **RPD** Analyte Result Qualifier Added Result Qualifier D %Rec Limits RPD Unit Limit 25.0 90 - 110 Chloride 4.1 31.5 mg/L 109

Lab Sample ID: 280-197391-D-2 MS

Matrix: Water

Analysis Batch: 669677

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	13		25.0	40.5		mg/L		108	90 - 110	

Lab Sample ID: 280-197391-D-2 MSD

Matrix: Water

Analysis Batch: 669677

Spike MSD MSD %Rec **RPD** Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit 38.1 Chloride mg/L 90 - 110 10

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Lab Sample ID: MB 160-681024/1-A

Matrix: water Analysis Batch:	682257							Prep Type: T Prep Batch:	
-			Count	Total					
	MB	MB	Uncert.	Uncert.					
Δnalvte	Result	Qualifier	(2\(\pi + / \-)	(2\(\sigmu + /-\)	RI	MDC Unit	Prenared	Analyzed	Dil Fac

	MB	MB	Uncert.	Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	-0.1122	U	0.563	0.563	3.00	1.11	pCi/L	09/26/24 08:20	10/06/24 10:16	1
Gross Beta	0.2773	U	0.512	0.513	4.00	0.871	pCi/L	09/26/24 08:20	10/06/24 10:16	1

Lab Sample ID: LCS 160-681024/2-A **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA **Analysis Batch: 682257** Prep Batch: 681024

			Total				
	Spike	LCS LCS	Uncert.				%Rec
Analyte	Added	Result Qual	(2σ+/-)	RL	MDC Unit	%Rec	Limits
Gross Alpha	49.5	51.30	7.57	3.00	2.17 pCi/L	104	75 - 125

Lab Sample ID: LCSB 160-681024/3-A

Matrix: Water

Analysis Batch: 682257									Prep Bat	ch: 681024
-				Total						
	Spike	LCSB	LCSB	Uncert.					%Rec	
Analyte	Added	Result	Qual	(2σ+/-)	RL	MDC	Unit	%Rec	Limits	
Gross Beta	70.8	70.62		7.59	4.00	0.875	pCi/L	100	75 - 125	

Eurofins Denver

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike

Client Sample ID: Method Blank

Client Sample ID: Matrix Spike Duplicate

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Project/Site: Nederland, CO - Groundwater

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

Lab Sample ID: 380-114436-A-1-D MS

Matrix: Water

Analysis Batch: 682222

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Job ID: 280-197036-1

Prep Batch: 681024

Total Spike MS MS Uncert. %Rec Sample Sample Analyte Result Qual Added Result Qual $(2\sigma + / -)$ RL **MDC** Unit %Rec Limits Gross Alpha 5.05 122 78.73 10.3 3.00 2.19 pCi/L 60 - 140

Lab Sample ID: 380-114436-A-1-F DU

Matrix: Water

Analysis Batch: 682116

Client Sample ID: Duplicate

Prep Type: Total/NA Prep Batch: 681024

					Total						
	Sample	Sample	DU	DU	Uncert.						RER
Analyte	Result	Qual	Result	Qual	(2σ+/-)	RL	MDC	Unit		RER	Limit
Gross Alpha	5.05		2.907		2.13	3.00	2.00	pCi/L	 	0.49	1
Gross Beta	4.04		4.911		1.08	4.00	0.761	pCi/L		0.40	1

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

Lab Sample ID: MB 160-683713/1-A

Matrix: Water

Analysis Batch: 684291

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

Prep Batch: 683713

Count Total MB MB Uncert. Uncert. Analyte Result Qualifier $(2\sigma + / -)$ $(2\sigma + / -)$ RL **MDC** Unit Prepared Analyzed Dil Fac Cesium-137 -15.73 U G 20.0 23.5 pCi/L 10/15/24 15:57 10/19/24 15:35 18.3 18.4 Count Total Other Detected MB MB Uncert. Uncert. Radionuclides Result Qualifier $(2\sigma + / -)$ $(2\sigma +/-)$ RL MDC Unit Prepared Analyzed Dil Fac 10/15/24 15:57 10/19/24 15:35 Other Detected None pCi/L Radionuclide

Lab Sample ID: LCS 160-683713/2-A

Matrix: Water

Analysis Batch: 684300

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 683713

Total LCS LCS **Spike** %Rec Uncert. Analyte Added **MDC** Unit %Rec Limits Result Qual $(2\sigma + / -)$ RL 75 - 125 Americium-241 152800 15700 484 pCi/L 113 135000 Cesium-137 39400 45790 4480 20.0 119 pCi/L 116 75 - 125 Cobalt-60 14500 16940 1660 84.4 pCi/L 117 75 - 125

Lab Sample ID: 280-197036-1 DU

Matrix: Water

Analysis Batch: 684292

Client Sample ID: CROSS WELL

Prep Type: Dissolved

Prep Batch: 683713

Analysis Bate		_			Total				r rep Batem oc	
	Sample	Sample	DU	DU	Uncert.					RER
Analyte	Result	Qual	Result	Qual	(2σ+/-)	RL	MDC	Unit	RER	Limit
Cesium-137	-3.32	U —	-4.121	U	10.4	20.0	17.8	pCi/L	0.04	1
					Total					
Other Detected	Sample	Sample	DU	DU	Uncert.					RER
Radionuclides	Result	Qual	Result	Qual	(2σ+/-)	RL	MDC	Unit	RER	Limit
Bi-214	33.5		24.08	U	22.9		26.2	pCi/L	0.24	1
Pb-214	37.4		39.93		15.3		26.2	pCi/L	0.08	1

Eurofins Denver

2

3

6

8

10

12

Client: Grand Island Resources

Project/Site: Nederland, CO - Groundwater

Job ID: 280-197036-1

Metals

Prep Batch: 668529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197036-1	CROSS WELL	Dissolved	Water	200.8	
280-197036-2	COMPLIANCE WELL	Dissolved	Water	200.8	
280-197036-3	COMPLIANCE 02	Dissolved	Water	200.8	
280-197036-4	COMPLIANCE 03	Dissolved	Water	200.8	
280-197036-5	CARIBOU WELL	Dissolved	Water	200.8	
280-197036-6	CROSS PORTAL	Dissolved	Water	200.8	
280-197036-7	CROSS PORTAL 02	Dissolved	Water	200.8	
280-197036-8	CARIBOU PORTAL	Dissolved	Water	200.8	
MB 280-668529/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-668529/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
280-197036-8 MS	CARIBOU PORTAL	Dissolved	Water	200.8	
280-197036-8 MSD	CARIBOU PORTAL	Dissolved	Water	200.8	

Analysis Batch: 668808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197036-1	CROSS WELL	Dissolved	Water	200.7 Rev 4.4	668529
280-197036-2	COMPLIANCE WELL	Dissolved	Water	200.7 Rev 4.4	668529
280-197036-3	COMPLIANCE 02	Dissolved	Water	200.7 Rev 4.4	668529
280-197036-4	COMPLIANCE 03	Dissolved	Water	200.7 Rev 4.4	668529
280-197036-5	CARIBOU WELL	Dissolved	Water	200.7 Rev 4.4	668529
280-197036-6	CROSS PORTAL	Dissolved	Water	200.7 Rev 4.4	668529
280-197036-7	CROSS PORTAL 02	Dissolved	Water	200.7 Rev 4.4	668529
280-197036-8	CARIBOU PORTAL	Dissolved	Water	200.7 Rev 4.4	668529
MB 280-668529/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	668529
LCS 280-668529/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	668529
280-197036-8 MS	CARIBOU PORTAL	Dissolved	Water	200.7 Rev 4.4	668529
280-197036-8 MSD	CARIBOU PORTAL	Dissolved	Water	200.7 Rev 4.4	668529

Prep Batch: 668815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197036-1	CROSS WELL	Dissolved	Water	200.8	
280-197036-2	COMPLIANCE WELL	Dissolved	Water	200.8	
280-197036-3	COMPLIANCE 02	Dissolved	Water	200.8	
280-197036-4	COMPLIANCE 03	Dissolved	Water	200.8	
280-197036-5	CARIBOU WELL	Dissolved	Water	200.8	
280-197036-6	CROSS PORTAL	Dissolved	Water	200.8	
280-197036-7	CROSS PORTAL 02	Dissolved	Water	200.8	
280-197036-8	CARIBOU PORTAL	Dissolved	Water	200.8	
MB 280-668815/1-A	Method Blank	Total Recoverable	Water	200.8	

Analysis Batch: 669051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197036-1	CROSS WELL	Dissolved	Water	200.8	669297
280-197036-2	COMPLIANCE WELL	Dissolved	Water	200.8	669297
280-197036-3	COMPLIANCE 02	Dissolved	Water	200.8	669297
280-197036-4	COMPLIANCE 03	Dissolved	Water	200.8	669297
280-197036-5	CARIBOU WELL	Dissolved	Water	200.8	669297
280-197036-6	CROSS PORTAL	Dissolved	Water	200.8	669297
280-197036-7	CROSS PORTAL 02	Dissolved	Water	200.8	669297
280-197036-8	CARIBOU PORTAL	Dissolved	Water	200.8	669297
MB 280-669297/1-A	Method Blank	Total Recoverable	Water	200.8	669297

Eurofins Denver

Page 32 of 46

2

3

4

6

8

4.0

10

12

13

Client: Grand Island Resources

Project/Site: Nederland, CO - Groundwater

Job ID: 280-197036-1

Metals (Continued)

Analysis Batch: 669051 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 280-669297/2-A	Lab Control Sample	Total Recoverable	Water	200.8	669297
280-197045-C-1-I MS	Matrix Spike	Dissolved	Water	200.8	669297
280-197045-C-1-J MSD	Matrix Spike Duplicate	Dissolved	Water	200.8	669297

Prep Batch: 669297

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197036-1	CROSS WELL	Dissolved	Water	200.8	
280-197036-2	COMPLIANCE WELL	Dissolved	Water	200.8	
280-197036-3	COMPLIANCE 02	Dissolved	Water	200.8	
280-197036-4	COMPLIANCE 03	Dissolved	Water	200.8	
280-197036-5	CARIBOU WELL	Dissolved	Water	200.8	
280-197036-6	CROSS PORTAL	Dissolved	Water	200.8	
280-197036-7	CROSS PORTAL 02	Dissolved	Water	200.8	
280-197036-8	CARIBOU PORTAL	Dissolved	Water	200.8	
MB 280-669297/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-669297/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
280-197045-C-1-I MS	Matrix Spike	Dissolved	Water	200.8	
280-197045-C-1-J MSD	Matrix Spike Duplicate	Dissolved	Water	200.8	

Analysis Batch: 669326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-668815/1-A	Method Blank	Total Recoverable	Water	200.8	668815

Analysis Batch: 669418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197036-1	CROSS WELL	Dissolved	Water	200.8	668815
280-197036-2	COMPLIANCE WELL	Dissolved	Water	200.8	668815
280-197036-3	COMPLIANCE 02	Dissolved	Water	200.8	668815
280-197036-4	COMPLIANCE 03	Dissolved	Water	200.8	668815
280-197036-5	CARIBOU WELL	Dissolved	Water	200.8	668815
280-197036-6	CROSS PORTAL	Dissolved	Water	200.8	668815
280-197036-7	CROSS PORTAL 02	Dissolved	Water	200.8	668815
280-197036-8	CARIBOU PORTAL	Dissolved	Water	200.8	668815

General Chemistry

Analysis Batch: 668303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197036-1	CROSS WELL	Total/NA	Water	300.0	<u> </u>
280-197036-2	COMPLIANCE WELL	Total/NA	Water	300.0	
280-197036-3	COMPLIANCE 02	Total/NA	Water	300.0	
280-197036-4	COMPLIANCE 03	Total/NA	Water	300.0	
280-197036-5	CARIBOU WELL	Total/NA	Water	300.0	
280-197036-6	CROSS PORTAL	Total/NA	Water	300.0	
280-197036-7	CROSS PORTAL 02	Total/NA	Water	300.0	
280-197036-8	CARIBOU PORTAL	Total/NA	Water	300.0	
MB 280-668303/6	Method Blank	Total/NA	Water	300.0	
LCS 280-668303/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-668303/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-668303/3	Lab Control Sample	Total/NA	Water	300.0	
280-197036-6 MS	CROSS PORTAL	Total/NA	Water	300.0	

Page 33 of 46

Client: Grand Island Resources

Project/Site: Nederland, CO - Groundwater

Job ID: 280-197036-1

General Chemistry (Continued)

Analysis Batch: 668303 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197036-6 MSD	CROSS PORTAL	Total/NA	Water	300.0	
280-197036-6 DU	CROSS PORTAL	Total/NA	Water	300.0	

Analysis Batch: 668428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197036-1	CROSS WELL	Total/NA	Water	SM 2540C	
280-197036-2	COMPLIANCE WELL	Total/NA	Water	SM 2540C	
280-197036-3	COMPLIANCE 02	Total/NA	Water	SM 2540C	
280-197036-4	COMPLIANCE 03	Total/NA	Water	SM 2540C	
MB 280-668428/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-668428/2	Lab Control Sample	Total/NA	Water	SM 2540C	
280-197036-4 DU	COMPLIANCE 03	Total/NA	Water	SM 2540C	

Analysis Batch: 668583

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197036-5	CARIBOU WELL	Total/NA	Water	SM 2540C	
280-197036-6	CROSS PORTAL	Total/NA	Water	SM 2540C	
280-197036-7	CROSS PORTAL 02	Total/NA	Water	SM 2540C	
280-197036-8	CARIBOU PORTAL	Total/NA	Water	SM 2540C	
MB 280-668583/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-668583/2	Lab Control Sample	Total/NA	Water	SM 2540C	
280-196870-D-1 DU	Duplicate	Total/NA	Water	SM 2540C	
280-196980-A-13 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 669332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197036-1	CROSS WELL	Total/NA	Water	300.0	
280-197036-2	COMPLIANCE WELL	Total/NA	Water	300.0	
280-197036-3	COMPLIANCE 02	Total/NA	Water	300.0	
280-197036-4	COMPLIANCE 03	Total/NA	Water	300.0	
280-197036-5	CARIBOU WELL	Total/NA	Water	300.0	
280-197036-6	CROSS PORTAL	Total/NA	Water	300.0	
280-197036-7	CROSS PORTAL 02	Total/NA	Water	300.0	
280-197036-8	CARIBOU PORTAL	Total/NA	Water	300.0	
MB 280-669332/43	Method Blank	Total/NA	Water	300.0	
MB 280-669332/6	Method Blank	Total/NA	Water	300.0	
LCS 280-669332/4	Lab Control Sample	Total/NA	Water	300.0	
LCS 280-669332/41	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-669332/42	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 280-669332/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-669332/3	Lab Control Sample	Total/NA	Water	300.0	
280-197298-B-2 MS	Matrix Spike	Total/NA	Water	300.0	
280-197298-B-2 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
280-197298-B-2 DU	Duplicate	Total/NA	Water	300.0	

Analysis Batch: 669677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197036-1	CROSS WELL	Total/NA	Water	SM 4500 CI- E	
280-197036-2	COMPLIANCE WELL	Total/NA	Water	SM 4500 CI- E	
280-197036-3	COMPLIANCE 02	Total/NA	Water	SM 4500 CI- E	
280-197036-4	COMPLIANCE 03	Total/NA	Water	SM 4500 CI- E	

Eurofins Denver

10/24/2024

Page 34 of 46

2

3

4

6

0

9

10

11

12

<u> 13</u>

Client: Grand Island Resources

Project/Site: Nederland, CO - Groundwater

Job ID: 280-197036-1

General Chemistry (Continued)

Analysis Batch: 669677 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197036-5	CARIBOU WELL	Total/NA	Water	SM 4500 Cl- E	
280-197036-6	CROSS PORTAL	Total/NA	Water	SM 4500 CI- E	
280-197036-7	CROSS PORTAL 02	Total/NA	Water	SM 4500 CI- E	
280-197036-8	CARIBOU PORTAL	Total/NA	Water	SM 4500 CI- E	
MB 280-669677/15	Method Blank	Total/NA	Water	SM 4500 CI- E	
MB 280-669677/46	Method Blank	Total/NA	Water	SM 4500 CI- E	
LCS 280-669677/13	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	
LCS 280-669677/44	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	
LCSD 280-669677/14	Lab Control Sample Dup	Total/NA	Water	SM 4500 CI- E	
LCSD 280-669677/45	Lab Control Sample Dup	Total/NA	Water	SM 4500 CI- E	
280-197391-D-1 MS	Matrix Spike	Total/NA	Water	SM 4500 CI- E	
280-197391-D-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 CI- E	
280-197391-D-2 MS	Matrix Spike	Total/NA	Water	SM 4500 CI- E	
280-197391-D-2 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 CI- E	

Analysis Batch: 670187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197036-1	CROSS WELL	Total/NA	Water	353.2	
280-197036-2	COMPLIANCE WELL	Total/NA	Water	353.2	
280-197036-3	COMPLIANCE 02	Total/NA	Water	353.2	
280-197036-4	COMPLIANCE 03	Total/NA	Water	353.2	
280-197036-5	CARIBOU WELL	Total/NA	Water	353.2	
280-197036-6	CROSS PORTAL	Total/NA	Water	353.2	
280-197036-7	CROSS PORTAL 02	Total/NA	Water	353.2	
280-197036-8	CARIBOU PORTAL	Total/NA	Water	353.2	
MB 280-670187/59	Method Blank	Total/NA	Water	353.2	
LCS 280-670187/57	Lab Control Sample	Total/NA	Water	353.2	
LCSD 280-670187/58	Lab Control Sample Dup	Total/NA	Water	353.2	
280-196890-G-15 MS	Matrix Spike	Total/NA	Water	353.2	
280-196890-G-15 MSD	Matrix Spike Duplicate	Total/NA	Water	353.2	

Rad

Prep Batch: 681024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197036-1	CROSS WELL	Dissolved	Water	Evaporation	
280-197036-2	COMPLIANCE WELL	Dissolved	Water	Evaporation	
280-197036-3	COMPLIANCE 02	Dissolved	Water	Evaporation	
280-197036-4	COMPLIANCE 03	Dissolved	Water	Evaporation	
280-197036-5	CARIBOU WELL	Dissolved	Water	Evaporation	
280-197036-6	CROSS PORTAL	Dissolved	Water	Evaporation	
280-197036-7	CROSS PORTAL 02	Dissolved	Water	Evaporation	
280-197036-8	CARIBOU PORTAL	Dissolved	Water	Evaporation	
MB 160-681024/1-A	Method Blank	Total/NA	Water	Evaporation	
LCS 160-681024/2-A	Lab Control Sample	Total/NA	Water	Evaporation	
LCSB 160-681024/3-A	Lab Control Sample	Total/NA	Water	Evaporation	
380-114436-A-1-D MS	Matrix Spike	Total/NA	Water	Evaporation	
380-114436-A-1-F DU	Duplicate	Total/NA	Water	Evaporation	

Client: Grand Island Resources

Project/Site: Nederland, CO - Groundwater

Job ID: 280-197036-1

Rad

Prep Batch: 683713

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197036-1	CROSS WELL	Dissolved	Water	Fill_Geo-0	
280-197036-2	COMPLIANCE WELL	Dissolved	Water	Fill_Geo-0	
280-197036-3	COMPLIANCE 02	Dissolved	Water	Fill_Geo-0	
280-197036-4	COMPLIANCE 03	Dissolved	Water	Fill_Geo-0	
280-197036-5	CARIBOU WELL	Dissolved	Water	Fill_Geo-0	
280-197036-6	CROSS PORTAL	Dissolved	Water	Fill_Geo-0	
280-197036-7	CROSS PORTAL 02	Dissolved	Water	Fill_Geo-0	
280-197036-8	CARIBOU PORTAL	Dissolved	Water	Fill_Geo-0	
MB 160-683713/1-A	Method Blank	Total/NA	Water	Fill_Geo-0	
LCS 160-683713/2-A	Lab Control Sample	Total/NA	Water	Fill_Geo-0	
280-197036-1 DU	CROSS WELL	Dissolved	Water	Fill_Geo-0	

5

7

0

10

 $\label{eq:project} \textit{Project/Site: Nederland, CO - Groundwater}$

Client Sample ID: CROSS WELL

Date Collected: 09/23/24 13:00 Date Received: 09/23/24 16:35 Lab Sample ID: 280-197036-1

Matrix: Water

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	200.8			50 mL	50 mL	668529	09/25/24 08:11	SMK	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			668808	09/26/24 08:12	ADL	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	669297	09/26/24 14:48	RMS	EET DEN
Dissolved	Analysis	200.8		1			669051	09/27/24 19:41	LMT	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	668815	09/26/24 14:48	SLH	EET DEN
Dissolved	Analysis	200.8		1			669418	10/01/24 19:21	LMT	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	668303	09/24/24 04:03	IRC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	669332	10/01/24 20:47	IRC	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	670187	10/08/24 12:12	AKF	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	668428	09/24/24 09:17	BRD	EET DEN
Total/NA	Analysis	SM 4500 CI- E		1	2 mL	2 mL	669677	10/03/24 12:21	CLP	EET DEN
Dissolved	Prep	Evaporation			157.01 mL	1.0 g	681024	09/26/24 08:20	MEH	EET SL
Dissolved	Analysis	900.0		1	1.0 mL	1.0 mL	682259	10/06/24 10:17	SWS	EET SL
Dissolved	Prep	Fill_Geo-0			1000 mL	1.0 g	683713	10/15/24 15:57	SAC	EET SL
Dissolved	Analysis	901.1		1			684291	10/19/24 16:42	MLS	EET SL

Client Sample ID: COMPLIANCE WELL

Date Collected: 09/23/24 13:30 Date Received: 09/23/24 16:35 Lab Sample ID: 280-197036-2

Matrix: Water

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	200.8			50 mL	50 mL	668529	09/25/24 08:11	SMK	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			668808	09/26/24 08:16	ADL	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	669297	09/26/24 14:48	RMS	EET DEN
Dissolved	Analysis	200.8		1			669051	09/27/24 19:44	LMT	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	668815	09/26/24 14:48	SLH	EET DEN
Dissolved	Analysis	200.8		1			669418	10/01/24 19:25	LMT	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	668303	09/24/24 03:12	IRC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	669332	10/01/24 20:58	IRC	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	670187	10/08/24 12:14	AKF	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	668428	09/24/24 09:17	BRD	EET DEN
Total/NA	Analysis	SM 4500 CI- E		1	2 mL	2 mL	669677	10/03/24 12:21	CLP	EET DEN
Dissolved	Prep	Evaporation			200.01 mL	1.0 g	681024	09/26/24 08:20	MEH	EET SL
Dissolved	Analysis	900.0		1	1.0 mL	1.0 mL	682259	10/06/24 10:17	SWS	EET SL
Dissolved	Prep	Fill_Geo-0			1000 mL	1.0 g	683713	10/15/24 15:57	SAC	EET SL
Dissolved	Analysis	901.1		1			684291	10/19/24 18:09	MLS	EET SL

Client Sample ID: COMPLIANCE 02

Date Collected: 09/23/24 13:30

Date Received: 09/23/24 16:35

Lab Sample ID: 280-197036-3

Matrix: Water

	Batch	Batch	_	Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	200.8			50 mL	50 mL	668529	09/25/24 08:11	SMK	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			668808	09/26/24 08:39	ADL	EET DEN

Eurofins Denver

Project/Site: Nederland, CO - Groundwater

Client Sample ID: COMPLIANCE 02

Date Collected: 09/23/24 13:30 Date Received: 09/23/24 16:35 Lab Sample ID: 280-197036-3

Matrix: Water

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	200.8			50 mL	50 mL	669297	09/26/24 14:48	RMS	EET DEN
Dissolved	Analysis	200.8		1			669051	09/27/24 19:48	LMT	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	668815	09/26/24 14:48	SLH	EET DEN
Dissolved	Analysis	200.8		1			669418	10/01/24 19:28	LMT	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	668303	09/24/24 03:29	IRC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	669332	10/01/24 21:09	IRC	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	670187	10/08/24 12:15	AKF	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	668428	09/24/24 09:17	BRD	EET DEN
Total/NA	Analysis	SM 4500 CI- E		1	2 mL	2 mL	669677	10/03/24 12:21	CLP	EET DEN
Dissolved	Prep	Evaporation			200.03 mL	1.0 g	681024	09/26/24 08:20	MEH	EET SL
Dissolved	Analysis	900.0		1	1.0 mL	1.0 mL	682259	10/06/24 10:17	SWS	EET SL
Dissolved	Prep	Fill_Geo-0			1000 mL	1.0 g	683713	10/15/24 15:57	SAC	EET SL
Dissolved	Analysis	901.1		1			684291	10/19/24 19:14	MLS	EET SL

Client Sample ID: COMPLIANCE 03

Date Collected: 09/23/24 13:30

Date Received: 09/23/24 16:35

Lab Sample ID: 280-197036-4

Matrix: Water

rrator

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	200.8			50 mL	50 mL	668529	09/25/24 08:11	SMK	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			668808	09/26/24 08:44	ADL	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	669297	09/26/24 14:48	RMS	EET DEN
Dissolved	Analysis	200.8		1			669051	09/27/24 19:52	LMT	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	668815	09/26/24 14:48	SLH	EET DEN
Dissolved	Analysis	200.8		1			669418	10/01/24 19:32	LMT	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	668303	09/24/24 03:46	IRC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	669332	10/01/24 21:20	IRC	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	670187	10/08/24 12:16	AKF	EET DEN
Total/NA	Analysis	SM 2540C		1	25 mL	100 mL	668428	09/24/24 09:17	BRD	EET DEN
Total/NA	Analysis	SM 4500 CI- E		1	2 mL	2 mL	669677	10/03/24 12:20	CLP	EET DEN
Dissolved	Prep	Evaporation			200.01 mL	1.0 g	681024	09/26/24 08:20	MEH	EET SL
Dissolved	Analysis	900.0		1	1.0 mL	1.0 mL	682259	10/06/24 10:17	SWS	EET SL
Dissolved	Prep	Fill_Geo-0			1000 mL	1.0 g	683713	10/15/24 15:57	SAC	EET SL
Dissolved	Analysis	901.1		1			684293	10/19/24 20:41	CAH	EET SL

Client Sample ID: CARIBOU WELL

Date Collected: 09/23/24 11:30

Date Received: 09/23/24 16:35

Lab Sample ID: 280-197036-5

Matrix: Water

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	200.8			50 mL	50 mL	668529	09/25/24 08:11	SMK	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			668808	09/26/24 08:48	ADL	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	669297	09/26/24 14:48	RMS	EET DEN
Dissolved	Analysis	200.8		1			669051	09/27/24 19:55	LMT	EET DEN

Eurofins Denver

Page 38 of 46

2

3

Q

10

12

Project/Site: Nederland, CO - Groundwater

Client Sample ID: CARIBOU WELL

Date Collected: 09/23/24 11:30 Date Received: 09/23/24 16:35 Lab Sample ID: 280-197036-5

Matrix: Water

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	200.8			50 mL	50 mL	668815	09/26/24 14:48	SLH	EET DEN
Dissolved	Analysis	200.8		1			669418	10/01/24 19:35	LMT	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	668303	09/24/24 02:38	IRC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	669332	10/01/24 21:53	IRC	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	670187	10/08/24 12:17	AKF	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	668583	09/25/24 08:48	BRD	EET DEN
Total/NA	Analysis	SM 4500 CI- E		1	2 mL	2 mL	669677	10/03/24 11:59	CLP	EET DEN
Dissolved	Prep	Evaporation			200.00 mL	1.0 g	681024	09/26/24 08:20	MEH	EET SL
Dissolved	Analysis	900.0		1	1.0 mL	1.0 mL	682259	10/06/24 10:17	SWS	EET SL
Dissolved	Prep	Fill_Geo-0			1000 mL	1.0 g	683713	10/15/24 15:57	SAC	EET SL
Dissolved	Analysis	901.1		1			684296	10/19/24 20:43	CAH	EET SL

Client Sample ID: CROSS PORTAL

Date Collected: 09/23/24 12:15 Date Received: 09/23/24 16:35

Lab Sample ID: 280-197036-6

Matrix: Water

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	200.8			50 mL	50 mL	668529	09/25/24 08:11	SMK	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			668808	09/26/24 08:52	ADL	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	669297	09/26/24 14:48	RMS	EET DEN
Dissolved	Analysis	200.8		1			669051	09/27/24 19:59	LMT	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	668815	09/26/24 14:48	SLH	EET DEN
Dissolved	Analysis	200.8		1			669418	10/01/24 19:39	LMT	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	668303	09/24/24 01:13	IRC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	669332	10/01/24 23:21	IRC	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	670187	10/08/24 12:19	AKF	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	668583	09/25/24 08:48	BRD	EET DEN
Total/NA	Analysis	SM 4500 CI- E		1	2 mL	2 mL	669677	10/03/24 12:21	CLP	EET DEN
Dissolved	Prep	Evaporation			200.02 mL	1.0 g	681024	09/26/24 08:20	MEH	EET SL
Dissolved	Analysis	900.0		1	1.0 mL	1.0 mL	682449	10/07/24 07:50	CMM	EET SL

1000 mL

1

1.0 g

683713

684292

Client Sample ID: CROSS PORTAL 02

Fill Geo-0

901.1

Prep

Analysis

Date Collected: 09/23/24 12:15 Date Received: 09/23/24 16:35

Dissolved

Dissolved

Lab Sample ID: 280-197036-7 **Matrix: Water**

10/15/24 15:57 SAC

10/19/24 20:44 CAH

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	200.8			50 mL	50 mL	668529	09/25/24 08:11	SMK	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			668808	09/26/24 08:56	ADL	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	669297	09/26/24 14:48	RMS	EET DEN
Dissolved	Analysis	200.8		1			669051	09/27/24 20:02	LMT	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	668815	09/26/24 14:48	SLH	EET DEN
Dissolved	Analysis	200.8		1			669418	10/01/24 19:42	LMT	EET DEN

Eurofins Denver

Page 39 of 46

EET SL

EET SL

Lab Chronicle

Client: Grand Island Resources

Project/Site: Nederland, CO - Groundwater

Client Sample ID: CROSS PORTAL 02 Lab Sample ID: 280-197036-7

Date Collected: 09/23/24 12:15 Date Received: 09/23/24 16:35 Matrix: Water

Lab Sample ID: 280-197036-8

Matrix: Water

Job ID: 280-197036-1

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	10 mL	10 mL	668303	09/24/24 02:55	IRC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	669332	10/01/24 23:32	IRC	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	670187	10/08/24 12:20	AKF	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	668583	09/25/24 08:48	BRD	EET DEN
Total/NA	Analysis	SM 4500 CI- E		1	2 mL	2 mL	669677	10/03/24 11:59	CLP	EET DEN
Dissolved	Prep	Evaporation			200.02 mL	1.0 g	681024	09/26/24 08:20	MEH	EET SL
Dissolved	Analysis	900.0		1	1.0 mL	1.0 mL	682449	10/07/24 07:50	CMM	EET SL
Dissolved	Prep	Fill_Geo-0			1000 mL	1.0 g	683713	10/15/24 15:57	SAC	EET SL
Dissolved	Analysis	901.1		1			684299	10/19/24 20:45	CAH	EET SL

Client Sample ID: CARIBOU PORTAL

Date Collected: 09/23/24 11:15

Date Received: 09/23/24 16:35

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	200.8			50 mL	50 mL	668529	09/25/24 08:11	SMK	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			668808	09/26/24 09:00	ADL	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	669297	09/26/24 14:48	RMS	EET DEN
Dissolved	Analysis	200.8		1			669051	09/27/24 20:06	LMT	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	668815	09/26/24 14:48	SLH	EET DEN
Dissolved	Analysis	200.8		1			669418	10/01/24 19:46	LMT	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	668303	09/24/24 02:21	IRC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	669332	10/01/24 23:43	IRC	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	670187	10/08/24 12:21	AKF	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	668583	09/25/24 08:48	BRD	EET DEN
Total/NA	Analysis	SM 4500 CI- E		1	2 mL	2 mL	669677	10/03/24 12:21	CLP	EET DEN
Dissolved	Prep	Evaporation			200.02 mL	1.0 g	681024	09/26/24 08:20	MEH	EET SL
Dissolved	Analysis	900.0		1	1.0 mL	1.0 mL	682449	10/07/24 07:50	CMM	EET SL
Dissolved	Prep	Fill_Geo-0			1000 mL	1.0 g	683713	10/15/24 15:57	SAC	EET SL
Dissolved	Analysis	901.1		1			684300	10/19/24 20:47	CAH	EET SL

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100 EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Eurofins Denver

2

Л

5

7

9

11

12

Accreditation/Certification Summary

Client: Grand Island Resources

Project/Site: Nederland, CO - Groundwater

Job ID: 280-197036-1

Laboratory: Eurofins Denver

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

Authority	Program	Identification Number	Expiration Dat
A2LA	Dept. of Defense ELAP	2907.01	10-31-25
A2LA	ISO/IEC 17025	2907.01	10-31-25
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	11-30-25
Arizona	State	AZ0713	12-20-24
Arkansas DEQ	State	19-047-0	04-21-25
California	State	2513	10-08-24
Colorado	Petroleum Storage Tank Program	4025 (or)	01-08-25
Colorado	State	CO00026	06-30-25
Connecticut	State	PH-0686	10-14-24
Florida	NELAP	E87667-57	06-30-25
Georgia	State	4025-011	01-08-25
Illinois	NELAP	2000172024-9	05-31-25
lowa	State	370	12-01-24
Kansas	NELAP	E-10166	04-30-25
Kentucky (WW)	State	KY98047	12-31-24
Louisiana	NELAP	30785	06-30-14 *
Louisiana (All)	NELAP	30785	06-30-25
Minnesota	NELAP	1788752	12-31-24
Nevada	State	CO000262024-08	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
Oregon	NELAP	4025	01-08-25
Pennsylvania	NELAP	013	07-31-25
South Carolina	State	72002001	01-08-24 *
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	11-30-24
Wisconsin	State	999615430	08-31-25
Wyoming (UST)	A2LA	2907.01	10-31-25

Laboratory: Eurofins St. Louis

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

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

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

Eurofins Denver

Accreditation/Certification Summary

Client: Grand Island Resources

Project/Site: Nederland, CO - Groundwater

Job ID: 280-197036-1

Laboratory: Eurofins St. Louis (Continued)

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

Authority	Program	Identification Number	Expiration Date
Connecticut	State	PH-0241	03-31-25
Florida	NELAP	E87689	06-30-25
HI - RadChem Recognition	State	n/a	06-30-25
Illinois	NELAP	200023	11-30-25
lowa	State	373	12-01-24
Kansas	NELAP	E-10236	10-31-24
Kentucky (DW)	State	KY90125	12-31-24
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-24
Louisiana	NELAP	04080	06-30-22 *
Louisiana (All)	NELAP	04080	06-30-25
Louisiana (DW)	State	LA011	12-31-24
Maryland	State	310	09-30-25
Massachusetts	State	M-MO054	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	12-31-24
Oregon	NELAP	4157	09-01-25
Pennsylvania	NELAP	68-00540	02-28-25
South Carolina	State	85002001	06-30-24 *
Texas	NELAP	T104704193	07-31-25
US Fish & Wildlife	US Federal Programs	058448	07-31-25
USDA	US Federal Programs	P330-17-00028	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 Denver

 $^{^{\}star} \ Accreditation/Certification \ renewal \ pending \ - \ accreditation/certification \ considered \ valid.$

Control Cont	Client Information									
Process Data to Link Processed Data to L		Sampler:		Lab F Bier	יאי iulis, Dylan T			rier Tracking No(s):	COC No:	
10 10 10 10 10 10 10 10	Client Contact: Brooke Molson Moran	Phone:		E-Ma Dyla	il: n.Bieniulis@e	t.eurofinsus.co		te of Origin:	Page:	
No. Part P	Company: Grand Island Resources		PWSID			An	alvsis Reque	sted	Job #:	
Not required (large)	Address: 12567 West Cedar Road Suite 250	Due Date Requested:			0 008		suito		Preservation	
Sample Date Sample Compliance to No. 2 No.	City: Lakewood	TAT Requested (days):							A - HCL B - NaOH	
Sample Date Tree Water Tree Sample Date Tree T	State, Zip: CO, 80466	Compliance Project:	⊲						D - Nitric Aci	
Sampling Sampling Sample Date Sample S	Phone: 315-414-6986	PO#: Not required			ınwateı				F - MeOH G - Amchlor	
Sample Date Sample Date Sample Date Sample Sample	Email: b <u>molsonm@g.emporia.edu</u>	;; OM			(o l) (Grou					
Sample Date	Project Name: Nederland, CO	Project #: 28025589			s or A Metals	N				
	ile: Groundwater Sampling	SSOW#:			SD (Ve	trite as	Louis) im∃ noi		D212	
Company Comp		- "	ample		M/SM mrofre sid - 8.002\7.0 eld Filtered)	trate 3.2 - Nitrate/Ni 3.5 - TDS	stAmerica St. 1.1 - Beta/Pho		tal Mumber o	
1 13.30 6 W X X X X W W X X X	sample identification	4	+		oz ⊂ (Fi	97 z 98 v	9T □	-1970		cial Instructions/Note:
	CROSS WELL	173/24	(0.5	3	1-	: ×		036 (Nitrate = 48 hour hold time
	COMPUBNCE WELL		300		*	X	 > >	Chain	+-	iter Dissolved Metals Permir
1 13.36 6 W X X X X X X X X X	COMPLIANCE 02		2:30	ease.	×	X	×	of C	Ca	, b, l e) and 200.0 (5b, As, Cu, Pb, Mn, Mo, U, Zn)
1	PLI		3:30		×	XXX	×	ustoo		1 P
	CARIBOU WELL)		×	XXX	> >	ду	10 TO R	14
1 12:15 G W X X X X X X X X X	CROSS PORTAL	11 12	J		X	X	×		a	SNOCK (SA)
and Identification and Identific	CROSS PORTALOS	71		(<u>()</u>	X	XXX	×			
and Identification and Identification and Identification and Identification and Flammable Skin Intitiant Poison B Unknown Radiological Repeated: I, II, III, IV, Other (specify) Author (specify) Date: Date: Time: Time: Date Disposal By Lab Archive For	CARIBON FORTAL	=)		×	X	X		9	
Sample Disposal (A fee may be assessed if samples are retained longer than 1 n and lidentification Sample Disposal (A fee may be assessed if samples are retained longer than 1 n and limit Nother (specify) Date: Special Instructions/QC Requirements: Method of Shipment Nother (specify)										
Sample Disposal (A fee may be assessed if samples are retained longer than 1 natural learning land) Sample Disposal By Lab Archive For adversarial land Skin Irritant Poison B Unknown Radiological Skin Irritant Paternmable Skin Irritant Disposal By Lab Archive For adversarial land Special Instructions/QC Requirements: Paternmable Skin Irritant Special Instructions/QC Requirements: Itime: Special Instructions/QC Requirements: Special Instructions/QC Requirements: Itime: Special Instructions/QC Requirements: Special In										
Advested: I, III, IV, Other (specify) requished by: Company Conforments: Company Company Company Conforments: Company Company Conforments: Company Company Conforments: Conforments: Company Conforments: Conforments: Conforments: Conforments: Company Conforments: Company Conforments: Company Conforments: Company Conforments: Conforments: Company Conforments: Company Conforments: Company Conforments: Company Conforments: Conform	ant \square			jical	Sample D	isposal (A fe	e may be asse	ssed if samples age	e retained longer the	han 1 month) Months
nquished by: Let Lopez Date: Time: Method of Shipment: Let Lopez Date/Time:	Deliverable Requested: I, II, III, IV, Other (specify)				Special In	structions/QC	Requirements:			
UNTURN Deferring: 2/24 (4'30 Company Received by: A partition of the parti	Empty Kit Relinquished by:		te:		Time:	-		Method of Shipment:		
ALC IN CORP Company Received the Date/Time:	e Morra	~	-	Coupany	Receive		LODA	Date/Time	42	3
als Intact: Custody Seal No.: A No	Relinquished by: AITH COPS Relinquished by:	0		Company				Date/Fighe:	3/2/11	ارا
Custody Seal No.:				Company -	Reoglive	d by: ∕	٠ (Company
					Cooler	emperature(s) °C	and Other Aemark		と、「別	(*

Company

/er:	
	5

	Ѿ.

	0

Cooler Temperature(s) °C and Other Remarks.

13 14

5

1 5

Š	
	1-5

5
6

>	
	5

k		4
		ő

5

slinguished by

Custody Seal No

Custody Seals Intact: △ Yes △ No

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratores. 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/lests/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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Mon

Special Instructions/QC Requirements

Primary Deliverable Rank: 2

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

Empty Kit Relinquished by

Possible Hazard Identification

Jnconfirmed

Worthington SEP 25 2024

Received By

Compris

Time

Received by Received by

Company

Date/Time:

lethod of Shipmen

COMPLIANCE WELL (280-197036-2)

CROSS WELL (280-197036-1)

COMPLIANCE 02 (280-197036-3) COMPLIANCE 03 (280-197036-4)

Special Instructions/Note:

N N

×

× ×

× ×

Water

ග ග Q O G O O O

Mountain 13:30 Mountain 13:30 Mountain 13:30 Mountain 11:30 Mountain 12:15 Mountain 12:15 Mountain 11:15

9/23/24

9/23/24

9/23/24 9/23/24 9/23/24 9/23/24 9/23/24

Water Water Water Water Water Water

BT=Tissue, A=Alr)

Preservation Code;

(Wewster, Seolid, Oewssta/oil,

(C=comp, G=grab) Турв

Sample

Time

Sample Date

Sample Identification - Client ID (Lab ID)

Matrix

2 N N 8

2

×

×

Water

Mountain

9/23/24

CROSS PORTAL 02 (280-197036-7) CARIBOU PORTAL (280-197036-8)

CROSS PORTAL (280-197036-6) CARIBOU WELL (280-197036-5)

×

×

Total Number of containers

sid 19greT brandsta STLT_CL3170.009

Perform MSMSD (Yes or No)

901.1_Cs/FIELD_FLTRD (MOD) Cesium-137 only

od Sample (Yes or No)

Project #: 28025589

Nederland, CO - Groundwater

OM

314-298-8566(Tel) 314-298-8757(Fax)

mail

State, Zip. MO, 63045 Earth City

Environment Testing

💸 eurofins

COC No: 280-717444.1 Page Page 1 of 1

Carrier Tracking No(s)

State of Origin: Colorado

Dylan. Bieniulis@et.eurofinsus.com Accreditations Required (See note)

Lab PM: Bieniulis, Dylan T

E-Mail

Phone:

Client Information (Sub Contract Lab)

TestAmerica Laboratories, Inc.

Shipping/Receiving

13715 Rider Trail North,

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

Arvada, CO 80002 4955 Yarrow Street

Eurofins Denver

Chain of Custody Record

Preservation Codes

Analysis Requested

TAT Requested (days): Due Date Requested: 10/22/2024

Job # 280-197036-1

Login Sample Receipt Checklist

Client: Grand Island Resources Job Number: 280-197036-1

Login Number: 197036 List Source: Eurofins Denver

List Number: 1

Creator: Held, Wesley

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
s the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

4

8

10

4.6

13

Login Sample Receipt Checklist

Client: Grand Island Resources Job Number: 280-197036-1

Login Number: 197036 List Source: Eurofins St. Louis
List Number: 2 List Creation: 09/25/24 01:41 PM

Creator: Worthington, Sierra M

Creator: Worthington, Sierra M		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	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	

2

5

4

6

8

10

13

APPENDIX B OUTFALL-001 ANALYTICAL RESULTS

APPENDIX B.1 JULY 2024 OUTFALL-001 ANALYTICAL RESULTS

PREPARED FOR

Attn: Brooke Molson Moran Grand Island Resources 12567 West Cedar Road Suite 110 Lakewood, Colorado 80228 Generated 7/19/2024 4:27:45 PM

JOB DESCRIPTION

Nederland, CO

JOB NUMBER

280-193704-1

Eurofins Denver 4955 Yarrow Street Arvada CO 80002

Eurofins Denver

Job Notes

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

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

Authorization

Generated 7/19/2024 4:27:45 PM

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

ies

7/19/2024

Table of Contents

Cover Page	1
Table of Contents	3
Definitions	4
Case Narrative	5
Detection Summary	7
Method Summary	8
Sample Summary	9
Client Sample Results	10
QC Sample Results	12
QC Association	17
Chronicle	20
Certification Summary	21
Chain of Custody	23
Receipt Checklists	26

4

8

9

10

12

13

Definitions/Glossary

Client: Grand Island Resources

Job ID: 280-193704-1

Project/Site: Nederland, CO

Qualifiers

Metals

B Compound was found in the blank and sample.

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

General Chemistry

B Compound was found in the blank and sample.

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.

Eisted under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)
LOD Limit of Detection (DoD/DOE)
LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins Denver

Page 4 of 27 7/19/2024

Case Narrative

Client: Grand Island Resources

Project: Nederland, CO

Job ID: 280-193704-1 Eurofins Denver

Job Narrative 280-193704-1

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 7/8/2024 4:30 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 1.8°C.

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

Method 1631E - Mercury, Low Level (CVAFS)

Sample OUTFALL-001 (280-193704-1) was analyzed for Mercury, Low Level (CVAFS). The sample was prepared on 7/10/2024 and analyzed on 7/17/2024.

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

Sample OUTFALL-001 (280-193704-1) was analyzed for Metals (ICP) - Total Recoverable. The sample was prepared on $\frac{7}{11}/2024$ and analyzed on $\frac{7}{12}/2024$.

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

Sample OUTFALL-001 (280-193704-1) was analyzed for Metals (ICP/MS) - Potentially Dissolved. The sample was prepared on 7/9/2024 and analyzed on 7/10/2024 and 7/11/2024.

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

Sample OUTFALL-001 (280-193704-1) was analyzed for Metals (ICP/MS) - Total Recoverable. The sample was prepared and analyzed on 7/11/2024.

Method 245.1 - Mercury (CVAA)

Sample OUTFALL-001 (280-193704-1) was analyzed for Mercury (CVAA). The sample was prepared and analyzed on 7/17/2024.

Method SM 2510B - Conductivity, Specific Conductance

Sample OUTFALL-001 (280-193704-1) was analyzed for Conductivity, Specific Conductance. The sample was analyzed on 7/9/2024.

Eurofins Denver

Job ID: 280-193704-1

Page 5 of 27 7/19/2024

Case Narrative

Client: Grand Island Resources

Project: Nederland, CO

Job ID: 280-193704-1 (Continued)

Eurofins Denver

Job ID: 280-193704-1

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

Sample OUTFALL-001 (280-193704-1) was analyzed for Solids, Total Suspended (TSS). The sample was analyzed on 7/10/2024.

Method SM 3500 CR B - Chromium, Hexavalent

Sample OUTFALL-001 (280-193704-1) was analyzed for Chromium, Hexavalent. The sample was analyzed on 7/8/2024.

Method SM 3500 CR B - Chromium, Hexavalent - Dissolved

Sample OUTFALL-001 (280-193704-1) was analyzed for Chromium, Hexavalent - Dissolved. The sample was analyzed on 7/8/2024.

The method blank for preparation batch 280-659626 and analytical batch 280-659630 contained Chromium, hexavalent above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, reextraction and/or re-analysis of samples was not performed.

Method SM3500 CR B - Chromium, Trivalent - Potentially Dissolved

Sample OUTFALL-001 (280-193704-1) was analyzed for Chromium, Trivalent - Potentially Dissolved. The sample was analyzed on 7/18/2024.

Method SM3500 CR B - Chromium, Trivalent - Total Recoverable

Sample OUTFALL-001 (280-193704-1) was analyzed for Chromium, Trivalent - Total Recoverable. The sample was analyzed on 7/18/2024.

Method SM 4500 H+ B - pH

Sample OUTFALL-001 (280-193704-1) was analyzed for pH. The sample was analyzed on 7/9/2024.

Method SM 4500 S2 D - Sulfide, Total

Sample OUTFALL-001 (280-193704-1) was analyzed for Sulfide, Total. The sample was analyzed on 7/10/2024.

Method SM4500 S2 H - Unionized Hydrogen Sulfide

Sample OUTFALL-001 (280-193704-1) was analyzed for Unionized Hydrogen Sulfide. The sample was analyzed on 7/10/2024.

Eurofins Denver

Page 6 of 27 7/19/2024

4

-

6

9

10

12

13

Detection Summary

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

Job ID: 280-193704-1

Client Sample ID: OUTFALL-001

Lab Sample ID: 280-193704-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	4.8		0.50	0.20	ng/L	1	_	1631E	Total/NA
Iron	100	В	100	9.1	ug/L	1		200.7 Rev 4.4	Total
									Recoverable
Copper	0.97	J	2.0	0.71	ug/L	1		200.8	Total
,									Recoverable
Lead	1.0		1.0	0.23	ug/L	1		200.8	Total
	00		40		"			000.0	Recoverable
Zinc	30		10	2.0	ug/L	1		200.8	Total
Copper	0.99		2.0	0.71	ug/L	1		200.8	Recoverable Potentially
Сорреі	0.99	J	2.0	0.71	ug/L	Į.		200.0	Dissolved
Lead	0.94	J	1.0	0.23	ug/L	1		200.8	Potentially
									Dissolved
Manganese	4.0		3.0	0.51	ug/L	1		200.8	Potentially
									Dissolved
Zinc	37	В	10	2.0	ug/L	1		200.8	Potentially
									Dissolved
Specific Conductance	190		2.0	2.0	umhos/cm	1		SM 2510B	Total/NA
pH adj. to 25 deg C	7.6	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Temperature	20.8	HF	1.0	1.0	Degrees C	1		SM 4500 H+ B	Total/NA
Field pH	7.6		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	190		2.0	2.0	umhos/cm	1		SM4500 S2 H	Total/NA
Chromium, hexavalent	9.8	JВ	20	4.0	ug/L	1		SM 3500 CR B	Dissolved

This Detection Summary does not include radiochemical test results.

7/19/2024

3

4

0

8

40

11

Method Summary

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

Job ID: 280-193704-1

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

9

11

13

Sample Summary

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

Job ID: 280-193704-1

 Lab Sample ID
 Client Sample ID
 Matrix
 Collected
 Received

 280-193704-1
 OUTFALL-001
 Water
 07/08/24 13:00
 07/08/24 16:30

9

4

5

7

10

4.0

13

Client Sample Results

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

Job ID: 280-193704-1

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

Client Sample ID: OUTFALL-001 Lab Sample ID: 280-193704-1

Date Collected: 07/08/24 13:00 **Matrix: Water**

Date Received: 07/08/24 16:30

RL Analyte Result Qualifier **MDL** Unit D Prepared Analyzed Dil Fac 0.50 0.20 Mercury ng/L 07/10/24 15:48 07/17/24 13:12 4.8

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

Client Sample ID: OUTFALL-001 Lab Sample ID: 280-193704-1 Date Collected: 07/08/24 13:00 **Matrix: Water**

Date Received: 07/08/24 16:30

Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac 100 100 9.1 ug/L 07/11/24 08:58 07/12/24 19:12 Iron В

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

Client Sample ID: OUTFALL-001 Lab Sample ID: 280-193704-1 Date Collected: 07/08/24 13:00 **Matrix: Water**

Date Received: 07/08/24 16:30

Analyte Result Qualifier **MDL** Unit Dil Fac RL Prepared Analyzed Arsenic $\overline{\mathsf{ND}}$ 5.0 0.50 07/11/24 08:58 07/11/24 20:24 ug/L Cadmium ND 1.0 0.19 ug/L 07/11/24 08:58 07/11/24 20:24 Chromium ND 3.0 0.50 ug/L 07/11/24 08:58 07/11/24 20:24 07/11/24 08:58 07/11/24 20:24 20 0.71 ug/L Copper 0.97 J Lead 1.0 1.0 0.23 ug/L 07/11/24 08:58 07/11/24 20:24 **Zinc** 30 10 2.0 ug/L 07/11/24 08:58 07/11/24 20:24

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

Client Sample ID: OUTFALL-001 Lab Sample ID: 280-193704-1 Date Collected: 07/08/24 13:00 **Matrix: Water**

Date Received: 07/08/24 16:30

Analyte Result Qualifier RI MDI Unit Prepared Analyzed Dil Fac Arsenic ND 5.0 0.50 ug/L 07/09/24 20:47 07/10/24 21:35 Cadmium ND 1.0 0.19 ug/L 07/09/24 20:47 07/10/24 21:35 07/09/24 20:47 07/10/24 21:35 Chromium ND 3.0 0.50 ug/L 2.0 0.71 ug/L 07/09/24 20:47 07/10/24 21:35 Copper 0.99 0.23 ug/L 07/09/24 20:47 07/10/24 21:35 Lead 0.94 J 1.0 Manganese 4.0 3.0 0.51 ug/L 07/09/24 20:47 07/10/24 21:35 Nickel ND 3.0 0.83 ug/L 07/09/24 20:47 07/11/24 10:49 Selenium ND 5.0 1.0 ug/L 07/09/24 20:47 07/10/24 21:35 Silver NΠ 0.50 0.045 ug/L 07/09/24 20:47 07/10/24 21:35 **Zinc** 10 07/09/24 20:47 07/10/24 21:35 37 B 2.0 ug/L

Method: EPA 245.1 - Mercury (CVAA)

Client Sample ID: OUTFALL-001 Lab Sample ID: 280-193704-1 **Matrix: Water**

Date Collected: 07/08/24 13:00 Date Received: 07/08/24 16:30

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac ND 0.20 0.061 ug/L 07/17/24 18:10 07/17/24 23:10 Mercury

Eurofins Denver

Client Sample Results

Client: Grand Island Resources Job ID: 280-193704-1 Project/Site: Nederland, CO

General Chemistry

Client Sample ID: OUTFALL-001 Lab Sample ID: 280-193704-1 Date Collected: 07/08/24 13:00 **Matrix: Water**

Date Received: 07/08/24 16:30 Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (SM 2510B)	190		2.0	2.0	umhos/cm		-	07/09/24 15:10	1
Total Suspended Solids (SM 2540D)	ND		4.0	1.1	mg/L			07/10/24 10:24	1
Chromium, hexavalent (SM 3500 CR B)	ND		20	4.0	ug/L			07/08/24 17:51	1
pH adj. to 25 deg C (SM 4500 H+ B	7.6	HF	0.1	0.1	SU			07/09/24 12:40	1
Temperature (SM 4500 H+ B)	20.8	HF	1.0	1.0	Degrees C			07/09/24 12:40	1
Sulfide (SM 4500 S2 D)	ND		0.050	0.022	mg/L			07/10/24 14:56	1
Un-ionized Hydrogen Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			07/10/24 03:40	1
Field pH (SM4500 S2 H)	7.6		1.0	1.0	SU			07/10/24 03:40	1
Field Temperature (SM4500 S2 H)	21		1.0	1.0	Celsius			07/10/24 03:40	1
Specific Conductance (SM4500 S2 H)	190		2.0	2.0	umhos/cm			07/10/24 03:40	1
Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			07/10/24 03:40	1

General Chemistry - Total Recoverable

Client Sample ID: OUTFALL-001 Lab Sample ID: 280-193704-1 Date Collected: 07/08/24 13:00 **Matrix: Water**

Date Received: 07/08/24 16:30

Analyte Result Qualifier RL **MDL** Unit D Prepared Analyzed Dil Fac Chromium, trivalent (SM3500 CR B) 20 07/18/24 14:15 ND 20 ug/L

General Chemistry - Dissolved

Client Sample ID: OUTFALL-001 Lab Sample ID: 280-193704-1 Date Collected: 07/08/24 13:00 **Matrix: Water**

Date Received: 07/08/24 16:30

Analyte Result Qualifier RLMDL Unit D Prepared Analyzed Dil Fac Chromium, hexavalent (SM 3500 20 4.0 ug/L 07/08/24 17:55 9.8 JB CR B)

General Chemistry - Potentially Dissolved

Client Sample ID: OUTFALL-001 Lab Sample ID: 280-193704-1 Date Collected: 07/08/24 13:00 **Matrix: Water**

Date Received: 07/08/24 16:30

Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Chromium, trivalent (dissolved) ND 20 20 ug/L 07/18/24 14:15

(SM3500 CR B)

Client: Grand Island Resources Job ID: 280-193704-1 Project/Site: Nederland, CO

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

Lab Sample ID: MB 400-678068/3-A

Matrix: Water

Analysis Batch: 678143

Prep Type: Total/NA

Prep Batch: 678068 MB MB

Result Qualifier RL **MDL** Unit Analyzed Dil Fac Analyte **Prepared** Mercury 0.50 07/16/24 16:00 07/17/24 11:10 ND 0.20 ng/L

Lab Sample ID: LCS 400-678068/4-A **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA Analysis Batch: 678143 **Prep Batch: 678068**

Spike LCS LCS %Rec

Limits Analyte Added Result Qualifier D %Rec Unit 5.00 108 79 - 121 Mercury 5.38 ng/L

Lab Sample ID: LCSD 400-678068/5-A Client Sample ID: Lab Control Sample Dup **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 678143 Prep Batch: 678068

Spike LCSD LCSD %Rec **RPD** Analyte Added Result Qualifier Limits RPD Limit Unit %Rec Mercury 5.00 5.68 79 - 121 20 ng/L

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 280-659699/1-A Client Sample ID: Method Blank **Prep Type: Total Recoverable**

Matrix: Water

Analysis Batch: 660337

MB MB Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Iron 18.7 J 100 9.1 ug/L 07/11/24 08:58 07/12/24 18:50

Lab Sample ID: LCS 280-659699/2-A

Matrix: Water

Analysis Batch: 660337

Prep Batch: 659699 LCS LCS Spike %Rec %Rec Analyte Added Result Qualifier Unit Limits Iron 10000 9820 ug/L 98 85 - 115

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 280-659699/1-A Client Sample ID: Method Blank **Matrix: Water Prep Type: Total Recoverable**

Analysis Batch: 660195

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		07/11/24 08:58	07/11/24 20:20	1
Cadmium	ND		1.0	0.19	ug/L		07/11/24 08:58	07/11/24 20:20	1
Chromium	ND		3.0	0.50	ug/L		07/11/24 08:58	07/11/24 20:20	1
Copper	ND		2.0	0.71	ug/L		07/11/24 08:58	07/11/24 20:20	1
Lead	ND		1.0	0.23	ug/L		07/11/24 08:58	07/11/24 20:20	1
Zinc	ND		10	2.0	ug/L		07/11/24 08:58	07/11/24 20:20	1

Eurofins Denver

Client Sample ID: Method Blank

Prep Batch: 659699

Prep Batch: 659699

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Client: Grand Island Resources Job ID: 280-193704-1 Project/Site: Nederland, CO

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

Lab Sample ID: LCS 280-659699/23-A

Matrix: Water

Analysis Batch: 660195

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

Prep Batch: 659699

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Arsenic	40.0	40.0		ug/L		100	89 - 111	
Cadmium	40.0	38.0		ug/L		95	89 - 111	
Chromium	40.0	40.5		ug/L		101	86 - 115	
Copper	40.0	40.1		ug/L		100	90 - 115	
Lead	40.0	39.8		ug/L		99	88 - 115	
Zinc	40.0	40.0		ug/L		100	88 - 115	
Chromium Copper Lead	40.0 40.0 40.0	40.5 40.1 39.8		ug/L ug/L ug/L		101 100 99	86 ₋ 115 90 ₋ 115 88 ₋ 115	

Lab Sample ID: MB 280-659584/1-B **Client Sample ID: Method Blank Matrix: Water**

Analysis Batch: 659997

Prep Type: Potentially Dissolved Prep Batch: 659707

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		07/09/24 20:47	07/10/24 20:48	1
Cadmium	ND		1.0	0.19	ug/L		07/09/24 20:47	07/10/24 20:48	1
Chromium	ND		3.0	0.50	ug/L		07/09/24 20:47	07/10/24 20:48	1
Copper	ND		2.0	0.71	ug/L		07/09/24 20:47	07/10/24 20:48	1
Lead	ND		1.0	0.23	ug/L		07/09/24 20:47	07/10/24 20:48	1
Manganese	ND		3.0	0.51	ug/L		07/09/24 20:47	07/10/24 20:48	1
Nickel	ND		3.0	0.83	ug/L		07/09/24 20:47	07/10/24 20:48	1
Selenium	ND		5.0	1.0	ug/L		07/09/24 20:47	07/10/24 20:48	1
Silver	ND		0.50	0.045	ug/L		07/09/24 20:47	07/10/24 20:48	1
Zinc	2.87	J	10	2.0	ug/L		07/09/24 20:47	07/10/24 20:48	1

Lab Sample ID: LCS 280-659584/12-B **Client Sample ID: Lab Control Sample Matrix: Water**

Analysis Batch: 659997

Prep Type: Potentially Dissolved Prep Batch: 659707

Analysis Batch: 659997	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Arsenic	40.0	40.5		ug/L		101	89 - 111
Cadmium	40.0	37.3		ug/L		93	89 - 111
Chromium	40.0	38.2		ug/L		96	86 - 115
Copper	40.0	38.1		ug/L		95	90 - 115
Lead	40.0	38.8		ug/L		97	88 - 115
Manganese	40.0	37.5		ug/L		94	87 - 115
Nickel	40.0	37.1		ug/L		93	86 - 115
Selenium	40.0	41.4		ug/L		103	85 - 114
Silver	40.0	37.8		ug/L		94	90 - 114
Zinc	40.0	40.9		ug/L		102	88 - 115

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 280-660832/1-A

Matrix: Water

Analysis Batch: 660954

Client Sample ID: Method Blank

Prep Type: Total/NA **Prep Batch: 660832**

	MB I	MB						•	
Analyte	Result (Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.061	ug/L		07/17/24 18:10	07/17/24 21:57	1

Eurofins Denver

Client: Grand Island Resources Job ID: 280-193704-1

Method: 245.1 - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 280-660832/2-A Client Sample ID: Lab Control Sample **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 660954 Prep Batch: 660832 Spike LCS LCS %Rec

Added Result Qualifier Limits Analyte Unit %Rec Mercury 5.00 5.12 ug/L 102 90 - 110

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: MB 280-659779/4 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Project/Site: Nederland, CO

Analysis Batch: 659779

MB MB Result Qualifier RL **MDL** Unit Analyzed Dil Fac Prepared 20 $\overline{\mathsf{ND}}$ 07/09/24 15:10 Specific Conductance 2.0 umhos/cm

Lab Sample ID: LCS 280-659779/3 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 659779

LCS LCS %Rec Spike Added Result Qualifier Limits Analyte Unit %Rec Specific Conductance 1410 1440 umhos/cm 102 90 - 110

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

Client Sample ID: Method Blank Lab Sample ID: MB 280-659893/1 **Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 659893

MB MB Result Qualifier RL **MDL** Unit Dil Fac **Analyte** Prepared Analyzed 4.0 07/10/24 10:24 Total Suspended Solids ND 1.1 mg/L

Lab Sample ID: LCS 280-659893/2 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 659893

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits **Total Suspended Solids** 503 418 mg/L 83 79 - 114

Method: SM 3500 CR B - Chromium, Hexavalent

Lab Sample ID: MB 280-659630/10 Client Sample ID: Method Blank **Matrix: Water Prep Type: Total/NA**

Analysis Batch: 659630

MB MB Result Qualifier RL MDL Unit Analyte Prepared Analyzed Dil Fac Chromium, hexavalent $\overline{\mathsf{ND}}$ 20 4.0 ug/L 07/08/24 17:50

Lab Sample ID: LCS 280-659630/8 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 659630

%Rec LCS LCS Spike Added Result Qualifier Unit %Rec Limits Chromium, hexavalent 100 99.7 ug/L 100 91 - 112

Eurofins Denver

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

Job ID: 280-193704-1

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

Lab Sample ID: LCSD 280-659630/9 Client Sample ID: Lab Control Sample Dup **Matrix: Water** Prep Type: Total/NA Analysis Batch: 659630 Spike LCSD LCSD %Rec **RPD**

Added Result Qualifier %Rec Limits RPD Limit Analyte Unit 91 - 112 Chromium, hexavalent 100 99.9 ug/L 100 0 20

Lab Sample ID: 280-193704-1 MS **Client Sample ID: OUTFALL-001 Matrix: Water** Prep Type: Total/NA

Analysis Batch: 659630

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier D %Rec Limits Unit 100 Chromium, hexavalent NΠ 101 ug/L 101 91 - 112

Lab Sample ID: 280-193704-1 MSD Client Sample ID: OUTFALL-001 **Matrix: Water Prep Type: Total/NA**

Analysis Batch: 659630

Spike MSD MSD %Rec **RPD** Sample Sample Result Qualifier Added Result Qualifier Limits RPD Analyte Unit %Rec Limit Chromium, hexavalent ND 100 99.8 100 ug/L

Lab Sample ID: 280-193704-1 DU Client Sample ID: OUTFALL-001 **Matrix: Water Prep Type: Total/NA**

Analysis Batch: 659630

DU DU **RPD** Sample Sample Analyte Result Qualifier Result Qualifier Unit **RPD** Limit Chromium, hexavalent ND ND ug/L

Lab Sample ID: MB 280-659626/3-A Client Sample ID: Method Blank **Matrix: Water Prep Type: Dissolved**

Analysis Batch: 659630

MR MR RL **MDL** Unit Analyte Result Qualifier Prepared Analyzed Dil Fac Chromium, hexavalent 14.8 J 20 4.0 ug/L 07/08/24 17:54

Lab Sample ID: LCS 280-659626/1-A **Client Sample ID: Lab Control Sample Matrix: Water Prep Type: Dissolved**

Analysis Batch: 659630

Spike LCS LCS %Rec Added Result Qualifier Analyte %Rec Limits Unit D 100 Chromium, hexavalent 106 106 91 - 112

Lab Sample ID: LCSD 280-659626/2-A Client Sample ID: Lab Control Sample Dup **Matrix: Water Prep Type: Dissolved**

Analysis Batch: 659630

Spike LCSD LCSD %Rec **RPD** Added Result Qualifier Limits RPD Limit Unit %Rec Chromium, hexavalent 100 104 ug/L 104 91 - 112

Lab Sample ID: 280-193704-1 MS Client Sample ID: OUTFALL-001

Matrix: Water

Analysis Batch: 659630

Spike MS MS %Rec Sample Sample Result Qualifier Added Analyte Result Qualifier Unit %Rec Limits 9.8 JB 91 - 112 Chromium, hexavalent 100 101 ug/L 91

Eurofins Denver

Prep Type: Dissolved

Client: Grand Island Resources Job ID: 280-193704-1

Method: SM 3500 CR B - Chromium, Hexavalent

Lab Sample ID: 280-193704-1 MSD Client Sample ID: OUTFALL-001 **Prep Type: Dissolved**

Matrix: Water

Analysis Batch: 659630

Project/Site: Nederland, CO

Sample Sample Spike MSD MSD %Rec **RPD** Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Analyte 9.8 JB Chromium, hexavalent 100 101 ug/L 91 91 - 112 20

Lab Sample ID: 280-193704-1 DU Client Sample ID: OUTFALL-001 **Prep Type: Dissolved**

Matrix: Water

Analysis Batch: 659630

Sample Sample DU DU **RPD** Result Qualifier Analyte Result Qualifier Unit D RPD Limit 9.8 JB ND Chromium, hexavalent ug/L NC 20

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 280-659755/5 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA **Matrix: Water**

Analysis Batch: 659755

LCS LCS %Rec Spike Added Result Qualifier Limits Analyte Unit %Rec 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 280-659945/11 Client Sample ID: Method Blank **Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 659945

MB MB Analyte Result Qualifier RI **MDL** Unit Dil Fac Prepared Analyzed 0.050 Sulfide 0.022 mg/L 07/10/24 14:42 ND

Lab Sample ID: LCS 280-659945/9 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 659945

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits Sulfide 0.501 0.491 mg/L 98 81 - 122

Lab Sample ID: LCSD 280-659945/10 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Matrix: Water

Analysis Batch: 659945

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Sulfide 0.501 0.487 mg/L 81 - 122

Eurofins Denver

QC Association Summary

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

Job ID: 280-193704-1

Metals

Fi	Itration	Ratch:	659584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-659584/1-B	Method Blank	Potentially Dissolved	Water	Filtration	
LCS 280-659584/12-B	Lab Control Sample	Potentially Dissolved	Water	Filtration	

Filtration Batch: 659686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-193704-1	OUTFALL-001	Potentially Dissolved	Water	Poten_Diss_Met	

Prep Batch: 659699

Lab Sample ID 280-193704-1	OUTFALL-001	Prep Type Total Recoverable	Matrix Water	Method 200.8	Prep Batch
MB 280-659699/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-659699/23-A	Lab Control Sample	Total Recoverable	Water	200.8	
LCS 280-659699/2-A	Lab Control Sample	Total Recoverable	Water	200.8	

Prep Batch: 659707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method F	rep Batch
280-193704-1	OUTFALL-001	Potentially Dissolved	Water	200.8	659686
MB 280-659584/1-B	Method Blank	Potentially Dissolvec	Water	200.8	659584
LCS 280-659584/12-B	Lab Control Sample	Potentially Dissolved	Water	200.8	659584

Analysis Batch: 659997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method F	rep Batch
280-193704-1	OUTFALL-001	Potentially Dissolved	Water	200.8	659707
MB 280-659584/1-B	Method Blank	Potentially Dissolved	Water	200.8	659707
LCS 280-659584/12-B	Lab Control Sample	Potentially Dissolvec	Water	200.8	659707

Analysis Batch: 660119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-193704-1	OUTFALL-001	Potentially Dissolved	Water	200.8	659707

Analysis Batch: 660195

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-193704-1	OUTFALL-001	Total Recoverable	Water	200.8	659699
MB 280-659699/1-A	Method Blank	Total Recoverable	Water	200.8	659699
LCS 280-659699/23-A	Lab Control Sample	Total Recoverable	Water	200.8	659699

Analysis Batch: 660337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-193704-1	OUTFALL-001	Total Recoverable	Water	200.7 Rev 4.4	659699
MB 280-659699/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	659699
LCS 280-659699/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	659699

Prep Batch: 660832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-193704-1	OUTFALL-001	Total/NA	Water	245.1	
MB 280-660832/1-A	Method Blank	Total/NA	Water	245.1	
LCS 280-660832/2-A	Lab Control Sample	Total/NA	Water	245.1	

Analysis Batch: 660954

Analysis Batch. 600994									
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch				
280_103704_1	OUTFALL-001	Total/NA	Water	245.1	660832				

Eurofins Denver

7/19/2024

Page 17 of 27

QC Association Summary

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

Job ID: 280-193704-1

Metals (Continued)

Analysis Batch: 660954 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-660832/1-A	Method Blank	Total/NA	Water	245.1	660832
LCS 280-660832/2-A	Lab Control Sample	Total/NA	Water	245.1	660832

Prep Batch: 678068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-193704-1	OUTFALL-001	Total/NA	Water	1631E	
MB 400-678068/3	-A Method Blank	Total/NA	Water	1631E	
LCS 400-678068/4	4-A Lab Control Sample	Total/NA	Water	1631E	
LCSD 400-678068	8/5-A Lab Control Sample Dup	Total/NA	Water	1631E	

Analysis Batch: 678143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-193704-1	OUTFALL-001	Total/NA	Water	1631E	678068
MB 400-678068/3-A	Method Blank	Total/NA	Water	1631E	678068
LCS 400-678068/4-A	Lab Control Sample	Total/NA	Water	1631E	678068
LCSD 400-678068/5-A	Lab Control Sample Dup	Total/NA	Water	1631E	678068

General Chemistry

Filtration Batch: 659626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-193704-1	OUTFALL-001	Dissolved	Water	FILTRATION	
MB 280-659626/3-A	Method Blank	Dissolved	Water	FILTRATION	
LCS 280-659626/1-A	Lab Control Sample	Dissolved	Water	FILTRATION	
LCSD 280-659626/2-A	Lab Control Sample Dup	Dissolved	Water	FILTRATION	
280-193704-1 MS	OUTFALL-001	Dissolved	Water	FILTRATION	
280-193704-1 MSD	OUTFALL-001	Dissolved	Water	FILTRATION	
280-193704-1 DU	OUTFALL-001	Dissolved	Water	FII TRATION	

Analysis Batch: 659630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-193704-1	OUTFALL-001	Dissolved	Water	SM 3500 CR B	659626
280-193704-1	OUTFALL-001	Total/NA	Water	SM 3500 CR B	
MB 280-659626/3-A	Method Blank	Dissolved	Water	SM 3500 CR B	659626
MB 280-659630/10	Method Blank	Total/NA	Water	SM 3500 CR B	
LCS 280-659626/1-A	Lab Control Sample	Dissolved	Water	SM 3500 CR B	659626
LCS 280-659630/8	Lab Control Sample	Total/NA	Water	SM 3500 CR B	
LCSD 280-659626/2-A	Lab Control Sample Dup	Dissolved	Water	SM 3500 CR B	659626
LCSD 280-659630/9	Lab Control Sample Dup	Total/NA	Water	SM 3500 CR B	
280-193704-1 MS	OUTFALL-001	Dissolved	Water	SM 3500 CR B	659626
280-193704-1 MS	OUTFALL-001	Total/NA	Water	SM 3500 CR B	
280-193704-1 MSD	OUTFALL-001	Dissolved	Water	SM 3500 CR B	659626
280-193704-1 MSD	OUTFALL-001	Total/NA	Water	SM 3500 CR B	
280-193704-1 DU	OUTFALL-001	Dissolved	Water	SM 3500 CR B	659626
280-193704-1 DU	OUTFALL-001	Total/NA	Water	SM 3500 CR B	

Analysis Batch: 659755

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-193704-1	OUTFALL-001	Total/NA	Water	SM 4500 H+ B	
LCS 280-659755/5	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Eurofins Denver

7/19/2024

Page 18 of 27

5

3

4

6

9

10

46

13

QC Association Summary

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

Job ID: 280-193704-1

General Chemistry

Analysis Batch: 659779

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-193704-1	OUTFALL-001	Total/NA	Water	SM 2510B	
MB 280-659779/4	Method Blank	Total/NA	Water	SM 2510B	
LCS 280-659779/3	Lab Control Sample	Total/NA	Water	SM 2510B	

Analysis Batch: 659820

1					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-193704-1	OUTFALL-001	Total/NA	Water	SM4500 S2 H	

Analysis Batch: 659893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-193704-1	OUTFALL-001	Total/NA	Water	SM 2540D	
MB 280-659893/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 280-659893/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 659945

Lab Sample ID 280-193704-1	Client Sample ID OUTFALL-001	Prep Type Total/NA	Matrix Water	Method SM 4500 S2 D	Prep Batch
MB 280-659945/11	Method Blank	Total/NA	Water	SM 4500 S2 D	
LCS 280-659945/9	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
LCSD 280-659945/10	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 D	

Analysis Batch: 660959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-193704-1	OUTFALL-001	Potentially Dissolved	Water	SM3500 CR B	
280-193704-1	OUTFALL-001	Total Recoverable	Water	SM3500 CR B	

Eurofins Denver

Lab Chronicle

Client: Grand Island Resources Job ID: 280-193704-1

Project/Site: Nederland, CO

Client Sample ID: OUTFALL-001

Lab Sample ID: 280-193704-1 Date Collected: 07/08/24 13:00 **Matrix: Water** Date Received: 07/08/24 16:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			40 mL	40 mL	678068	07/10/24 15:48	VLC	EET PEN
							Completed:	07/11/24 09:00	1	
Total/NA	Analysis	1631E		1			678143	07/17/24 13:12	VLC	EET PEN
Total Recoverable	Prep	200.8			50 mL	50 mL	659699	07/11/24 08:58	KLG	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			660337	07/12/24 19:12	ADL	EET DEN
Potentially Dissolved	Filtration	Poten_Diss_Met			150 mL	150 mL	659686	07/09/24 09:30	AES	EET DEN
Potentially Dissolved	Prep	200.8			50 mL	50 mL	659707	07/09/24 20:47	KLG	EET DEN
Potentially Dissolved	Analysis	200.8		1			659997	07/10/24 21:35	LMT	EET DEN
Potentially Dissolved	Filtration	Poten_Diss_Met			150 mL	150 mL	659686	07/09/24 09:30	AES	EET DEN
Potentially Dissolved	Prep	200.8			50 mL	50 mL	659707	07/09/24 20:47	KLG	EET DEN
Potentially Dissolved	Analysis	200.8		1			660119	07/11/24 10:49	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	659699	07/11/24 08:58	KLG	EET DEN
Total Recoverable	Analysis	200.8		1			660195	07/11/24 20:24	LMT	EET DEN
Total/NA	Prep	245.1			30 mL	50 mL	660832	07/17/24 18:10	CAF	EET DEN
Total/NA	Analysis	245.1		1			660954	07/17/24 23:10	CAF	EET DEN
Total/NA	Analysis	SM 2510B		1			659779	07/09/24 15:10	EL	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	659893	07/10/24 10:24	MF	EET DEN
Dissolved	Filtration	FILTRATION			2 mL	2 mL	659626	07/08/24 17:07	LL	EET DEN
Dissolved	Analysis	SM 3500 CR B		1	2 mL	2 mL	659630	07/08/24 17:55	LL	EET DEN
Total/NA	Analysis	SM 3500 CR B		1	2 mL	2 mL	659630	07/08/24 17:51	LL	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			659755	07/09/24 12:40	EL	EET DEN
Total/NA	Analysis	SM 4500 S2 D		1	2 mL	2 mL	659945	07/10/24 14:56	CLP	EET DEN
Potentially Dissolved	Analysis	SM3500 CR B		1			660959	07/18/24 14:15	RMS	EET DEN
Total Recoverable	Analysis	SM3500 CR B		1			660959	07/18/24 14:15	RMS	EET DEN
Total/NA	Analysis	SM4500 S2 H		1			659820	07/10/24 03:40	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: 280-193704-1

Laboratory: Eurofins Denver

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

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	10-31-25
A2LA	ISO/IEC 17025	2907.01	10-31-25
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	11-30-25
Arizona	State	AZ0713	12-20-24
Arkansas DEQ	State	19-047-0	04-21-25
California	State	2513	01-08-25
Colorado	State	CO00026	06-30-25
Connecticut	State	PH-0686	09-30-24
Florida	NELAP	E87667-57	06-30-24 *
Georgia	State	4025-011	01-08-25
Illinois	NELAP	2000172024-9	05-31-25
lowa	State	370	12-01-24
Kansas	NELAP	E-10166	04-30-25
Kentucky (WW)	State	KY98047	12-31-24
Louisiana	NELAP	30785	06-30-14 *
Louisiana (All)	NELAP	30785	06-30-25
Minnesota	NELAP	1788752	12-31-24
Nevada	State	CO000262024-08	08-02-24
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	01-08-24 *
Oklahoma	NELAP	8614	08-31-24
Oregon	NELAP	4025-020	01-08-25
Pennsylvania	NELAP	013	07-31-24
South Carolina	State	72002001	01-08-24 *
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-23-23	09-30-24
USDA	US Federal Programs	P330-20-00065	12-19-25
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-24
Virginia	NELAP	460232	06-14-25
Washington	State	C583	08-03-24
West Virginia DEP	State	354	11-30-24
Wisconsin	State	999615430	08-31-24
Wyoming (UST)	A2LA	2907.01	10-31-25

Laboratory: Eurofins Pensacola

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

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-25
ANAB	ISO/IEC 17025	L2471	02-22-26
Arkansas DEQ	State	88-00689	08-01-24
California	State	2510	06-30-25
Florida	NELAP	E81010	06-30-25
Georgia	State	E81010(FL)	06-30-25
Illinois	NELAP	200041	10-09-24
Kansas	NELAP	E-10253	10-31-24

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

Eurofins Denver

Page 21 of 27

Accreditation/Certification Summary

Client: Grand Island Resources

Job ID: 280-193704-1

Project/Site: Nederland, CO

Laboratory: Eurofins Pensacola (Continued)

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

Authority	Program	Identification Number	Expiration Date
Kentucky (UST)	State	53	06-30-25
Louisiana (All)	NELAP	30976	06-30-25
Louisiana (DW)	State	LA017	12-31-24
North Carolina (WW/SW)	State	314	12-31-24
Oklahoma	NELAP	9810	08-31-24
Pennsylvania	NELAP	68-00467	01-31-25
South Carolina	State	96026	06-30-25
Tennessee	State	TN02907	06-30-25
Texas	NELAP	T104704286	09-30-24
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

4

6

Q

10

111

13

4955 Yarrow Street Arvada, CO 80002 Phone (303) 736-0100 Phone (303) 431-7171	Ch	ain of Custody Record	Record				ofins	Frittonman 15 If g
Client Information	ک	opes Bi	Lab PM: Bieniulis, Dylan [¬]		Сап	Carrier Tracking No(s):	COC No:	
Client Contact: John Rinko	6	72F	lail: Ian.Bieniulis@	E-Mail: <u>Dylan. Bieniulis@et. eurofinsus.com</u>	State	State of Origin:	Page:	
Company: Grand Island Resources		PWSID:		Analysis	s Reguested	sted	Job #:	
Address: 12567 West Cedar Drive Suite 110	Due Date Requested:				AT DISC	cnu	ê	
City: Lakewood	TAT Requested (days):		T	r (calc)			A - HCL B - NaOH C - Zn Acetate	M - Hexane N - None O - AsNaO2
State, Zip: CO, 80228	liance Project: A Yes A	No		O juels B FILT				- Na2O4S 2 - Na2SO3
Phone: (303) 601-9230	PO#:		(·	d Triva Cr (LAI				(- Na2S2O3 - H2SO4 - TSP Dodecabydrate
Email: johnrinko@yahoo.com	WO#:			it Cr an valent (c	150	COVER	I - Ice J - DI Water	U - Acetone V - MCAA
Project Name: Nederland, CO	Project #: 28022821			cavalen G Hexa Trivaler	(:	otal Re	K - EDTA L - EDA	W - pH 4-5 Z - other (specify)
Sile: First half of the month event	SSOW#:		and a second second	tal Hey seolves T bevlo	de (calc	T - 1.21	of con	
Sample Identification	Sample Date Time (Sample Matrix Type S=solid (C=comp, O=vasteloil, O=vasteloil, O=vasteloil)	Field Filtered Perform MS/M	2510B - Specific Potentially Diss 500_CR_B - To 7500_CR_B - To 7500_CR_B - To 7500_CR_B - To	Hydrogen Sulfic	500.8 - Potential permit list) 50.1 / 5.00.3 / 2.4 edf 10 Itst latt of the	Total Number O O C C C C S C C C C C C C C C C C C C	Special Instructions/Note:
	X		X	z	ce N	Ω		
OUTERLL-OCA	CHIOS [24 13:00	× い	7	X X X	×	×	First half of the month potentially dissolve metals permit list = 200.8 (As, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, Zn)	First half of the month potentially dissolved metals permit list = 200.8 (As, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, Zn)
							*First half of the month total recoverable metals permit list = 200.7 (Fe), 200.8 (As, Cd, Cr, Cu, Pb, Zn), and 245.1 (Hg)	h total recoverable 30.7 (Fe), 200.8 (As, and 245.1 (Hg)
					+		Temo	8.50
							P#14	S
			280-1937	280-193704 Chain of Custody	λρ			
Possible Hazard Identification Non-Hazard	Unknown] Radiological	Sample Re	Sample Disposal (A fee may be	y be asses	sed if samples are re sal By Lab	assessed if samples are retained longer than 1 month) Disposal By Lab Archive For	onth) Months
Deliverable Requested: I, II, III, IV, Other (specify)			Special I	Special Instructions/QC Requirements:	irements:			
Empty Kit Relinquished by:	Date:			G		Method of Shipment:		
Reinquisped by: Reinquished by:	OF 08 74 Date/Time:	Company	Recei	Received by:		Sale/Time:	0801 1080	Company
Relinquished by:	Date/Time:	Company	Recei	Received by:		Date/Time:		Сотрапу
Custody Seals Intact: Custody Seal No.:			Coole	Cooler Temperature(s) °C and Other Remarks: É	Other Remarks	1114 4.1	1 620	
Δ 100 Δ 170						M /	2	Ver: 01/16/2019

Seurofins Frationary 12 It &

Eurofins TestAmerica, Denver

Chain of Custody Record

ľ	Ę	3	

Eurofins Denver 4955 Yarrow Street Arvada CO 80002	Chain c	Chain of Custody Record	ord.		🔅 eurofins	Environment Testing
0	Sampler:	Lab PM: Bieniulis Dylan T	Dylan T	Carrier Tracking No(s):	COC No: 280-709031.1	:
Client Contact: Shipping/Receiving	Phone:	E-Mail: Dylan. Bie	E-Mail: Dylan. Bieniulis@et.eurofinsus.com	State of Origin: Colorado	Page: Page 1 of 1	
Company: Eurofins Environment Testing Southeast L		Accre	Accreditations Required (See note):		Job #: 280-193704-1	
Address: 3355 McLemore Drive,	Due Date Requested: 7/22/2024		Analysis Req	Requested	Preservation Codes:	77
City: Pensacola	TAT Requested (days):				a water	
State, Zip: FL, 32514						
Phone: 850-474-1001(Tel) 850-478-2671(Fax)	PO #:	9)				
Email:	WO #:					
Project Name:	Project #: 28022821					
Site:	SSOW#:				Other:	
			E/1631E_P			
Sample Identification - Client ID (Lab ID)	Sample Date Time	Field)				Special Instructions/Note:
OUTFALL-001 (280-193704-1)	7/8/24 13:00 Mountain	Water	×			
Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory of oes 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 purrent to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.	America places the ownership of method, ar matrix being analyzed, the samples must be rent to date, return the signed Chain of Cust	nalyte & accreditation compliance up ₃ shipped back to the Eurofins TestA ody attesting to said compliance to E	oon our subcontract laboratories. This samp vmerica laboratory or other instructions will b Eurofins TestAmerica.	le shipment is forwarded under chi в provided. Any changes to accre	ain-of-custody. If the laborator ditation status should be broυς	ny does not currently ght to Eurofins
Possible Hazard Identification		s	Sample Disposal (A fee may be a	A fee may be assessed if samples are retained longer than 1 month)	tained longer than 1 m	onth)
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverable Rank: 2		Requireme			
Empty Kit Relinquished by:	Date:	Time:	е:	Method of Shipment:		
Relinquished by	Date/Time:	TIG Company	Receiv	Datedime:	\$28	Company
Relinquisher 6y.	Date/Time:		Received by:	Date/Time:		Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	-	Company
Custody Seals Intact: Custody Seal No.: Δ Yes Δ No			Cooler Temperatura 2 and Other Remarks:	marks:		Ver: 04/02/2024
						VCI. 07/04/4047

Part # 159469-434 M/FW EXP 02/25

ชีวท่อนเช้ารอ่า Environment Testing

BICE SENDER

4925 YERMENDE ST EUROFINS TESTAMERICA DENVER EUROFINS TOTAL RESTANDANCE ORIGIN ID:WHHA (300)

3322 WCFEWORE DRIVE **EUROFINS ENVIRONMENT TESTING** 10 SHIPPING/RECEIVING

PENSACOLA FL 32514

MEF: 8280 - 141926

OSOT 1382 6149 09:32

A2N9 HX

FL-US BFM 32514

13

7/19/2024

Login Sample Receipt Checklist

Client: Grand Island Resources Job Number: 280-193704-1

Login Number: 193704 List Source: Eurofins Denver

List Number: 1

Creator: Naylis, Patrick J

oreator. Naylis, Fatrick 3		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

-

4

6

8

15

13

Login Sample Receipt Checklist

Client: Grand Island Resources Job Number: 280-193704-1

List Source: Eurofins Pensacola
List Number: 2
List Creation: 07/10/24 01:04 PM

Creator: Wilson, Lance

Answer N/A True N/A True True True True True True	4.2°C IR10
True N/A True True True True	4.2°C IR10
N/A True True True True	4.2°C IR10
True True True True True	4.2°C IR10
True True True True	4.2°C IR10
True True True	4.2°C IR10
True True	4.2°C IR10
True	4.2°C IR10
True	
N/A	
True	
N/A	
True	
True	
N/A	
TTTT TTTNT N TT	True True True True True True True True

5

4

6

Ŏ

10

12

13

ANALYTICAL REPORT

PREPARED FOR

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

JOB DESCRIPTION

Generated 8/1/2024 11:59:07 AM

Nederland, CO

JOB NUMBER

280-194456-1

Eurofins Denver 4955 Yarrow Street Arvada CO 80002



Eurofins Denver

Job Notes

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

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

Authorization

Generated 8/1/2024 11:59:07 AM

Authorized for release by Matthew Gardner, Project Manager I Matthew.Gardner@et.eurofinsus.com Designee for Dylan Bieniulis, Project Manager I Dylan.Bieniulis@et.eurofinsus.com

(303)736-0138

13

Table of Contents

Cover Page	1
Table of Contents	3
Definitions	4
Case Narrative	5
Detection Summary	6
Method Summary	7
Sample Summary	8
Client Sample Results	9
QC Sample Results	10
QC Association	11
Chronicle	12
Certification Summary	13
Chain of Custody	14
Racaint Chacklists	15

4

O

8

9

11

Definitions/Glossary

Client: Grand Island Resources Job ID: 280-194456-1

Project/Site: Nederland, CO

Qualifiers

Metals

Qualifier Qualifier Description

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

Glossary

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

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins Denver

Page 4 of 15 8/1/2024

Case Narrative

Client: Grand Island Resources

Project: Nederland, CO

Job ID: 280-194456-1 Eurofins Denver

Job Narrative 280-194456-1

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 7/24/2024 2:09 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 1.8°C.

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

Sample OUTFALL-001 (280-194456-1) was analyzed for Metals (ICP/MS) - Potentially Dissolved. The sample was prepared on 7/26/2024 and analyzed on 7/29/2024.

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

Sample OUTFALL-001 (280-194456-1) was analyzed for Metals (ICP/MS) - Total Recoverable. The sample was prepared and analyzed on 7/25/2024.

A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: analyst added 5.0 mL of Hydrochloric acid to the batch, deviating from the SOP amount which is 2.5 mL.

Eurofins Denver

Page 5 of 15

2

Job ID: 280-194456-1

3

4

5

_

8

4.0

11

15

1/

Detection Summary

Client: Grand Island Resources

Job ID: 280-194456-1

Project/Site: Nederland, CO

Client Sample ID: OUTFALL-001

Lab Sample ID: 280-194456-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.87	J	1.0	0.23	ug/L		_	200.8	Total
									Recoverable
Copper	0.78	J	2.0	0.71	ug/L	1		200.8	Potentially
									Dissolved
Lead	0.79	J	1.0	0.23	ug/L	1		200.8	Potentially
									Dissolved
Zinc	25		10	2.0	ug/L	1		200.8	Potentially
									Dissolved

F

5

7

Q

10

12

13

Method Summary

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

Job ID: 280-194456-1

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: 280-194456-1

 Lab Sample ID
 Client Sample ID
 Matrix
 Collected
 Received

 280-194456-1
 OUTFALL-001
 Water
 07/24/24 12:00
 07/24/24 14:09

3

4

5

7

9

10

10

13

Client Sample Results

Client: Grand Island Resources

Job ID: 280-194456-1

Project/Site: Nederland, CO

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

Client Sample ID: OUTFALL-001

Date Collected: 07/24/24 12:00

Lab Sample ID: 280-194456-1

Matrix: Water

Date Received: 07/24/24 14:09

Zinc

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		2.0	0.71	ug/L		07/25/24 08:44	07/25/24 17:38	1
Lead	0.87	J	1.0	0.23	ug/L		07/25/24 08:44	07/25/24 17:38	1

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

25

Client Sample ID: OUTFALL-001	Lab Sample ID: 280-194456-1
Date Collected: 07/24/24 12:00	Matrix: Water

Date Received: 07/24/24 14:09 Result Qualifier Analyte RLMDL Unit **Prepared** Analyzed Dil Fac Cadmium ND 1.0 0.19 ug/L 07/26/24 14:47 07/29/24 20:05 2.0 0.71 ug/L 07/26/24 14:47 07/29/24 20:05 Copper 0.78 J 1 Lead 0.79 J 1.0 0.23 ug/L 07/26/24 14:47 07/29/24 20:05 Silver ND 0.50 0.045 ug/L 07/26/24 14:47 07/29/24 20:05 1

10

2.0 ug/L

2

3

4

6

8

10

11

07/26/24 14:47 07/29/24 20:05

13

1 /

QC Sample Results

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

Job ID: 280-194456-1

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 280-661630/1-A

Matrix: Water

Analysis Batch: 661819

Client Sample ID: Method Blank **Prep Type: Total Recoverable**

Prep Batch: 661630

Analyte Result Qualifier RL **MDL** Unit D Prepared Analyzed Dil Fac 2.0 07/25/24 08:44 07/25/24 17:31 Copper ND 0.71 ug/L 0.23 ug/L Lead ND 1.0 07/25/24 08:44 07/25/24 17:31

MB MB

Lab Sample ID: LCS 280-661630/23-A

Matrix: Water

Analysis Batch: 661819

Prep Type: Total Recoverable Prep Batch: 661630 Spike LCS LCS %Rec

Analyte Added Result Qualifier Unit %Rec Limits Copper 40.0 38.8 ug/L 97 90 - 115 40.0 39.0 ug/L 88 - 115 Lead 98

Lab Sample ID: MB 280-661714/1-B

Matrix: Water

Analysis Batch: 662118

Client Sample ID: Method Blank Prep Type: Potentially Dissolved

Client Sample ID: Lab Control Sample

Prep Batch: 661715

MB MB Result Qualifier RL **MDL** Unit Analyte Prepared Analyzed Dil Fac Cadmium ND 1.0 0.19 ug/L 07/26/24 14:47 07/29/24 13:23 ND 2.0 0.71 ug/L 07/26/24 14:47 07/29/24 13:23 Copper Lead ND 1.0 0.23 ug/L 07/26/24 14:47 07/29/24 13:23 Silver ND 0.50 0.045 ug/L 07/26/24 14:47 07/29/24 13:23 Zinc ND 10 2.0 ug/L 07/26/24 14:47 07/29/24 13:23

Lab Sample ID: LCS 280-661791/2-B

Client Sample ID: Lab Control Sample Matrix: Water Prep Type: Potentially Dissolved Analysis Batch: 662118 Prep Batch: 661715

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Cadmium	40.0	39.0		ug/L		97	89 - 111	
Copper	40.0	36.5		ug/L		91	90 - 115	
Lead	40.0	38.5		ug/L		96	88 - 115	
Silver	40.0	38.1		ug/L		95	90 - 114	
Zinc	40.0	39.6		ug/L		99	88 - 115	

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

Job ID: 280-194456-1

Metals

Pre	p Bato	:h: 66	1630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-194456-1	OUTFALL-001	Total Recoverable	Water	200.8	
MB 280-661630/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-661630/23-A	Lab Control Sample	Total Recoverable	Water	200.8	

Filtration Batch: 661713

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-194456-1	OUTFALL-001	Potentially Dissolved	Water	Poten Diss Met	

Filtration Batch: 661714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-661714/1-B	Method Blank	Potentially Dissolved	Water	Filtration	

Prep Batch: 661715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-194456-1	OUTFALL-001	Potentially Dissolved	Water	200.8	661713
MB 280-661714/1-B	Method Blank	Potentially Dissolvec	Water	200.8	661714
LCS 280-661791/2-B	Lab Control Sample	Potentially Dissolved	Water	200.8	661791

Filtration Batch: 661791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 280-661791/2-B	Lab Control Sample	Potentially Dissolved	Water	Poten_Diss_Met	

Analysis Batch: 661819

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-194456-1	OUTFALL-001	Total Recoverable	Water	200.8	661630
MB 280-661630/1-A	Method Blank	Total Recoverable	Water	200.8	661630
LCS 280-661630/23-A	Lab Control Sample	Total Recoverable	Water	200.8	661630

Analysis Batch: 662118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method P	rep Batch
MB 280-661714/1-B	Method Blank	Potentially Dissolved	Water	200.8	661715
LCS 280-661791/2-B	Lab Control Sample	Potentially Dissolved	Water	200.8	661715

Analysis Batch: 662166

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-194456-1	OUTFALL-001	Potentially Dissolved	Water	200.8	661715

Lab Chronicle

Client: Grand Island Resources Job ID: 280-194456-1

Project/Site: Nederland, CO

Client Sample ID: OUTFALL-001 Lab Sample ID: 280-194456-1

Date Collected: 07/24/24 12:00 **Matrix: Water** Date Received: 07/24/24 14:09

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Potentially Dissolved	Filtration	Poten_Diss_Met			150 mL	150 mL	661713	07/25/24 11:26	AES	EET DEN
Potentially Dissolved	Prep	200.8			50 mL	50 mL	661715	07/26/24 14:47	AES	EET DEN
Potentially Dissolved	Analysis	200.8		1			662166	07/29/24 20:05	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	661630	07/25/24 08:44	AMH	EET DEN
Total Recoverable	Analysis	200.8		1			661819	07/25/24 17:38	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: 280-194456-1 Project/Site: Nederland, CO

Laboratory: Eurofins Denver

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

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	10-31-25
A2LA	ISO/IEC 17025	2907.01	10-31-25
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	11-30-25
Arizona	State	AZ0713	12-20-24
Arkansas DEQ	State	19-047-0	04-21-25
California	State	2513	01-08-25
Colorado	State	CO00026	06-30-25
Connecticut	State	PH-0686	09-30-24
Florida	NELAP	E87667-57	06-30-24 *
Georgia	State	4025-011	01-08-25
Illinois	NELAP	2000172024-9	05-31-25
lowa	State	370	12-01-24
Kansas	NELAP	E-10166	04-30-25
Kentucky (WW)	State	KY98047	12-31-24
Louisiana	NELAP	30785	06-30-14 *
Louisiana (All)	NELAP	30785	06-30-25
Minnesota	NELAP	1788752	12-31-24
Nevada	State	CO000262024-08	08-02-24
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	01-08-24 *
Oklahoma	NELAP	8614	08-31-24
Oregon	NELAP	4025	01-08-25
Pennsylvania	NELAP	013	07-31-25
South Carolina	State	72002001	01-08-24 *
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-23-23	09-30-24
USDA	US Federal Programs	P330-20-00065	12-19-25
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-24
Virginia	NELAP	460232	06-14-25
Washington	State	C583	08-03-24
West Virginia DEP	State	354	11-30-24
Wisconsin	State	999615430	08-31-24
Wyoming (UST)	A2LA	2907.01	10-31-25

Eurofins Denver

 $^{^{\}star} \ \text{Accreditation/Certification renewal pending - accreditation/certification considered valid}.$

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

Chain of Custody Record

eurofins | Environment Testing | America

1 110110 (200) 100 0 100 1 110110 (200) 101 1 11 11																
Oli and Indownooding	Sampler:		003	Lab PM Bieniu	Lab PM: Bieniulis. Dvlan T	Ť			Carrier T	Carrier Tracking No(s):)(s):		COC No:			
Client Contact: John Rinko	224tby007t-	ナンゲン	\$72	E-Mail: Dylan.	Bieniulis	E-Mail: Dylan.Bieniulis@et.eurofinsus.com	nsus.com		State of Origin:	Origin:			Page:			
Company: Grand Island Resources	•	P	PWSID:		*		Analy	Sis	Requested	<u>-</u>			Job #:			
Address: 12567 West Cedar Drive Suite 110	Due Date Requested:	ď:				nth						of the	Preserv	Preservation Codes:	les:	
City: Lakewood	TAT Requested (days):	ys):											B - NaOH C - Zn Ace	NaOH Zn Acetate	M - Hexane N - None O - AsNaO2	102
State, Zip: CO, 80228	Compliance Project:	Δ Yes Δ	No										E - NaHSO4	OA CID	Q - Na2SO3	303 303 303
Phone: (303) 601-9230	PO #:	}		-3	-1								G - Amchlor H - Ascorbic Acid	าlor bic Acid	S - H2SO4 T - TSP Dodec	S - H2SO4 T - TSP Dodecahydrate
Email: johnrinko@yahoo.com	WO #				C. Walleton							rs	J - Ice J - DI Water	ater	U - Acetone V - MCAA	one A
Project Name: Nederland, CO	Project #: 28022821			I- W-	and the same of							ntaine	L-EDA	١.	Z - other	- other (specify)
Site: second half of the month event	SSOW#:				and the same of	st)	1					of co	Other:			
		Ф		Matrix (W=water, S=solid, O=waste/oil, ield tere	erform MS/N	00.8 - Potentia nonth permit li 00.8 - Total Re ermit list)						otal Number	o			
	\bigvee	X	Preservation Code:		Ø	O		A CONTRACTOR			The state of the s	X				
OUTFALL-001	विश्वित	12:00	S	٤		×						N	*Second dissolve Pb, Ag, 7	*Second half of the month potentially dissolved metals permit list = 200.8 (Pb, Ag, Zn)	e month p permit list	*Second half of the month potentially dissolved metals permit list = 200.8 (Cd, C Pb, Ag, Zn)
													*Secono metals p	*Second half of the month total rec metals permit list = 200.8 (Cu, Pb)	e month to = 200.8 (C	"Second half of the month total recoverable metals permit list = 200.8 (Cu, Pb)
			_		+	-							नि	30		Č
•								·					7	H II	i,	
													7	7	3	9
						+	\mp	_			\perp		2	detected	te	C
Possible Hazard Identification Non-Hazard Flammable Skin Irritant Pc	Poison B Unknown		Radiological		Samp	Sample Disposal (A :	fee	may be	assessed if samples Disposal By Lab	d if san	ples are	₽	tained longe	longer than 1	Months	ths
I, III, IV, Other (specify)			· ·		ecia	Special Instructio	()	Requirements	ents:							
	Date/Time	Date:	3	Company	Time:	Received by:	3	1	Me	Method of Shipment:	Date/Time:	2/11	-	8	Company	100 N
Relinquished by:		1	1	Company	R _e	Received by:	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\$			Date/Time:				Company	¥
1 1	Date/Time:		Ç,	Company	R _e	Received by:					Date/Time:				Company	ıy
Custody Seals Intact: Custody Seal No.: ∆ Yes ∆ No					ç	Cooler Temperature(s)	Prince (s) °C and	,'9	er Remarks:						Ver: 01	Ver: 01/16/2019
															101.01	110/1017

Login Sample Receipt Checklist

Client: Grand Island Resources Job Number: 280-194456-1

Login Number: 194456 List Source: Eurofins Denver

List Number: 1

Creator: Roehsner, Karen P

Creator: Roensner, Karen P		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	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	

6

4

7

9

10

12

13

APPENDIX B.2 AUGUST 2024 OUTFALL-001 ANALYTICAL RESULTS

PREPARED FOR

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

Generated 8/15/2024 2:18:46 PM

JOB DESCRIPTION

Nederland, CO

JOB NUMBER

280-194790-1

Eurofins Denver 4955 Yarrow Street Arvada CO 80002

Eurofins Denver

Job Notes

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

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

Authorization

Generated 8/15/2024 2:18:46 PM

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

Table of Contents

Cover Page	1
Table of Contents	3
Definitions	4
Case Narrative	5
Detection Summary	7
Method Summary	8
Sample Summary	9
Client Sample Results	10
QC Sample Results	12
QC Association	18
Chronicle	21
Certification Summary	22
Chain of Custody	23
Pacaint Chacklists	24

8

9

11

12

Definitions/Glossary

Client: Grand Island Resources

Job ID: 280-194790-1

Project/Site: Nederland, CO

Qualifiers

Metals
Qualifier

Qualifier	Qualifier Description
В	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.

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
-----------	-----------------------

*+ LCS and/or LCSD is outside acceptance limits, high biased.

*1 LCS/LCSD RPD exceeds control limits.

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

Eurofins Denver

Page 4 of 24 8/15/2024

Case Narrative

Client: Grand Island Resources

Project: Nederland, CO

Job ID: 280-194790-1 Eurofins Denver

Job Narrative 280-194790-1

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 8/1/2024 1:40 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.4°C.

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

Sample OUTFALL 001 (280-194790-1) was analyzed for Metals (ICP) - Total Recoverable. The sample was prepared on 8/1/2024 and analyzed on 8/2/2024.

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

Sample OUTFALL 001 (280-194790-1) was analyzed for Metals (ICP/MS) - Potentially Dissolved. The sample was prepared and analyzed on 8/5/2024.

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

Sample OUTFALL 001 (280-194790-1) was analyzed for Metals (ICP/MS) - Total Recoverable. The sample was prepared on 8/1/2024 and analyzed on 8/2/2024, 8/5/2024 and 8/12/2024.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 280-662588 and analytical batch 280-662956 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 245.1 - Mercury (CVAA)

Sample OUTFALL 001 (280-194790-1) was analyzed for Mercury (CVAA). The sample was prepared and analyzed on 8/9/2024.

Method SM 2510B - Conductivity, Specific Conductance

Sample OUTFALL 001 (280-194790-1) was analyzed for Conductivity, Specific Conductance. The sample was prepared on 8/1/2024 and analyzed on 8/2/2024.

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

Sample OUTFALL 001 (280-194790-1) was analyzed for Solids, Total Suspended (TSS). The sample was prepared on 8/1/2024 and analyzed on 8/2/2024 and 8/5/2024.

Method SM 3500 CR B - Chromium, Hexavalent - Dissolved

Eurofins Denver

Job ID: 280-194790-1

Page 5 of 24 8/15/2024

Case Narrative

Client: Grand Island Resources

Project: Nederland, CO

Job ID: 280-194790-1 (Continued)

Eurofins Denver

Job ID: 280-194790-1

Sample OUTFALL 001 (280-194790-1) was analyzed for Chromium, Hexavalent - Dissolved. The sample was analyzed on 8/1/2024.

The laboratory control sample (LCS) for preparation batch 280-662555 and analytical batch 280-662593 recovered outside control limits for the following analytes: Chromium, hexavalent. The samples within the batch were rerun out-of-hold with passing QC and the results confirmed, therefore, in-hold data is being qualified and reported.

The laboratory did not perform the SM3500 CR B Total Hexavalent Chromium analysis requested for OUTFALL 001 (280-194790-1). Per a recent update to the laboratory's SOP all samples collected for hexavalent chromium analysis by SM3500 CR B undergo laboratory filtration to remove undissolved solids from the sample volume. The method does not digest solids in the sample volume prior to analysis. The laboratory will use the lab filtered hexavalent chromium analysis result from the sample to complete the Total Recoverable Trivalent Chromium calculated result.

Method SM3500 CR B - Chromium, Trivalent - Potentially Dissolved

Sample OUTFALL 001 (280-194790-1) was analyzed for Chromium, Trivalent - Potentially Dissolved. The sample was analyzed on 8/9/2024.

Method SM3500 CR B - Chromium, Trivalent - Total Recoverable

Sample OUTFALL 001 (280-194790-1) was analyzed for Chromium, Trivalent - Total Recoverable. The sample was analyzed on 8/9/2024.

Method SM 4500 H+ B - pH

Sample OUTFALL 001 (280-194790-1) was analyzed for pH. The sample was analyzed on 8/2/2024.

Method SM 4500 S2 D - Sulfide, Total

Sample OUTFALL 001 (280-194790-1) was analyzed for Sulfide, Total. The sample was analyzed on 8/2/2024.

The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 280-662748 recovered outside control limits for the following analytes: Sulfide.

Method SM4500 S2 H - Unionized Hydrogen Sulfide

Sample OUTFALL 001 (280-194790-1) was analyzed for Unionized Hydrogen Sulfide. The sample was analyzed on 8/4/2024.

Eurofins Denver

Page 6 of 24 8/15/2024

Detection Summary

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

Job ID: 280-194790-1

Client Sample ID: OUTFALL 001

Lab Sample ID: 280-194790-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	21	J	100	9.1	ug/L	1	_	200.7 Rev 4.4	Total
									Recoverable
Copper	0.95	J	2.0	0.71	ug/L	1		200.8	Total
									Recoverable
Lead	1.0	В	1.0	0.23	ug/L	1		200.8	Total
	· · · · · · · · · · · · · · · · · · ·	- = ;							Recoverable
Zinc	27	F1	10	2.0	ug/L	1		200.8	Total
Conner	1.0		2.0	0.71	/1	4		200.0	Recoverable
Copper	1.0	J	2.0	0.71	ug/L	1		200.8	Potentially Dissolved
Lead	0.93	1	1.0	0.23	ug/L	1		200.8	Potentially
Load	0.55	3	1.0	0.20	ug/L	'		200.0	Dissolved
Manganese	0.76		3.0	0.51	ug/L	1		200.8	Potentially
					3				Dissolved
Selenium	2.6	J	5.0	1.0	ug/L	1		200.8	Potentially
									Dissolved
Zinc	25		10	2.0	ug/L	1		200.8	Potentially
									Dissolved
Specific Conductance	200		2.0	2.0	umhos/cm	1		SM 2510B	Total/NA
pH adj. to 25 deg C	7.9	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Temperature	19.1	HF	1.0	1.0	Degrees C	1		SM 4500 H+ B	Total/NA
Field pH	7.9		1.0	1.0	SU	1		SM4500 S2 H	Total/NA
Field Temperature	19		1.0	1.0	Celsius	1		SM4500 S2 H	Total/NA
Specific Conductance	200		2.0	2.0	umhos/cm	1		SM4500 S2 H	Total/NA

This Detection Summary does not include radiochemical test results.

8/15/2024

J

7

9

10

12

13

Method Summary

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

Job ID: 280-194790-1

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
M3500 CR B	Chromium, Trivalent	SM	EET DEN
M4500 S2 H	Unionized Hydrogen Sulfide	SM	EET DEN
00.7	Preparation, Total Recoverable Metals	EPA	EET DEN
8.00	Preparation, Total Recoverable Metals	EPA	EET DEN
45.1	Preparation, Mercury	EPA	EET DEN
ILTRATION	Sample Filtration	None	EET DEN
Poten Diss Met	Filtration for Potentially Dissolved Metals	EPA	EET DEN

Protocol References:

EPA = US Environmental Protection Agency

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

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

Sample Summary

Client: Grand Island Resources Project/Site: Nederland, CO Job ID: 280-194790-1

 Lab Sample ID
 Client Sample ID
 Matrix
 Collected
 Received

 280-194790-1
 OUTFALL 001
 Water
 08/01/24 12:00
 08/01/24 13:40

3

4

5

7

8

10

11

13

Client: Grand Island Resources Job ID: 280-194790-1 Project/Site: Nederland, CO

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

Client Sample ID: OUTFALL 001 Lab Sample ID: 280-194790-1 Date Collected: 08/01/24 12:00 **Matrix: Water**

Date Received: 08/01/24 13:40

RL **MDL** Unit Analyte Result Qualifier D Prepared Analyzed Dil Fac 100 Iron 9.1 ug/L 08/01/24 21:26 08/02/24 10:43 21 J

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

Client Sample ID: OUTFALL 001 Lab Sample ID: 280-194790-1 Date Collected: 08/01/24 12:00 **Matrix: Water** Date Received: 08/01/24 13:40 Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Arsenic $\overline{\mathsf{ND}}$ 5.0 08/01/24 21:26 08/02/24 19:19 0.50 ug/L Cadmium ND 1.0 0.19 ug/L 08/01/24 21:26 08/02/24 19:19

0.50 Chromium ND 3.0 ug/L 08/01/24 21:26 08/02/24 19:19 2.0 0.71 ug/L 08/01/24 21:26 08/02/24 19:19 Copper 0.95 J Lead 1.0 B 1.0 0.23 ug/L 08/01/24 21:26 08/12/24 17:03 Zinc 27 F1 10 2.0 ug/L 08/01/24 21:26 08/05/24 14:53

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

Client Sample ID: OUTFALL 001 Lab Sample ID: 280-194790-1 Date Collected: 08/01/24 12:00 **Matrix: Water**

Date Received: 08/01/24 13:40 Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Arsenic ND 5.0 0.50 ug/L 08/05/24 08:44 08/05/24 17:43 Cadmium ND 1.0 0.19 ug/L 08/05/24 08:44 08/05/24 17:43 Chromium ND 3.0 0.50 ug/L 08/05/24 08:44 08/05/24 17:43 Copper 1.0 J 2.0 0.71 ug/L 08/05/24 08:44 08/05/24 17:43 1.0 0.23 ug/L 08/05/24 08:44 08/05/24 17:43 Lead 0.93 J 3.0 08/05/24 08:44 08/05/24 17:43 Manganese 0.76 0.51 ug/L Nickel ND 3.0 0.83 ug/L 08/05/24 08:44 08/05/24 17:43 5.0 1.0 ug/L 08/05/24 08:44 08/05/24 17:43 Selenium 2.6 J Silver 0.50 08/05/24 08:44 08/05/24 17:43 ND 0.045 ug/L Zinc 10 2.0 ug/L 08/05/24 08:44 08/05/24 17:43 25

Method: EPA 245.1 - Mercury (CVAA)

Client Sample ID: OUTFALL 001 Lab Sample ID: 280-194790-1 **Matrix: Water**

Date Collected: 08/01/24 12:00 Date Received: 08/01/24 13:40

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Mercury ND 0.20 0.061 ug/L 08/09/24 16:27 08/09/24 23:59

General Chemistry

Client Sample ID: OUTFALL 001 Lab Sample ID: 280-194790-1 Date Collected: 08/01/24 12:00 **Matrix: Water**

	Date Received: 08/01/24 13:40									
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Specific Conductance (SM 2510B)	200		2.0	2.0	umhos/cm			08/02/24 10:15	1
	Total Suspended Solids (SM 2540D)	ND		4.0	1.1	mg/L			08/05/24 15:30	1
	pH adj. to 25 deg C (SM 4500 H+ B)	7.9	HF	0.1	0.1	SU			08/02/24 09:54	1
ı	Temperature (SM 4500 H+ B)	19.1	HF	1.0	1.0	Degrees C			08/02/24 09:54	1
	Sulfide (SM 4500 S2 D)	ND	*1	0.050	0.022	mg/L			08/02/24 15:36	1

Eurofins Denver

Page 10 of 24 8/15/2024

Client Sample Results

Client: Grand Island Resources Job ID: 280-194790-1 Project/Site: Nederland, CO

General Chemistry (Continued)

Client Sample ID: OUTFALL 001	Lab Sample ID: 280-194790-1
Date Collected: 08/01/24 12:00	Matrix: Water

Date Received: 08/01/24 13:40

Date Received. 00/01/24 13.40								
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Un-ionized Hydrogen Sulfide (SM4500 S2 H)	ND -	1.0	1.0	mg/L			08/04/24 20:13	1
Field pH (SM4500 S2 H)	7.9	1.0	1.0	SU			08/04/24 20:13	1
Field Temperature (SM4500 S2 H)	19	1.0	1.0	Celsius			08/04/24 20:13	1
Specific Conductance (SM4500 S2 H)	200	2.0	2.0	umhos/cm			08/04/24 20:13	1
Sulfide (SM4500 S2 H)	ND	1.0	1.0	mg/L			08/04/24 20:13	1

General Chemistry - Total Recoverable

Client Sample ID: OUTFALL 001 Date Collected: 08/01/24 12:00 Date Received: 08/01/24 13:40							Lab Sam	ple ID: 280-19 Matrix	
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, trivalent (SM3500 CR B)	ND		20	20	ug/L			08/09/24 11:02	1

General Chemistry - Dissolved

Client Sample ID: OUTFALL 001 Date Collected: 08/01/24 12:00							Lab San	nple ID: 280-19 Matrix:	
Date Received: 08/01/24 13:40									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent (SM 3500 CR	ND	*+	20	4.0	ug/L			08/01/24 16:43	1

General Chemistry - Potentially Dissolved

Client Sample ID: OUTFALL 001 Date Collected: 08/01/24 12:00							Lab San	nple ID: 280-19 Matrix	4790-1 : Water
Date Received: 08/01/24 13:40 Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, trivalent (dissolved) (SM3500 CR B)	ND		20	20	ug/L			08/09/24 11:02	1

Client: Grand Island Resources Job ID: 280-194790-1 Project/Site: Nederland, CO

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 280-662588/1-A

Matrix: Water

Analysis Batch: 662673

Client Sample ID: Method Blank **Prep Type: Total Recoverable** Prep Batch: 662588 MB MB

Result Qualifier RL **MDL** Unit Analyzed Dil Fac Analyte Prepared 100 08/01/24 21:26 08/02/24 10:35 Iron ND 9.1 ug/L

Lab Sample ID: LCS 280-662588/2-A

Matrix: Water

Iron

Analysis Batch: 662673

Analyte

Spike

Added 10000 9940

LCS LCS

Result Qualifier

Unit ug/L

D %Rec 99

Limits 85 - 115

%Rec

Prep Type: Total Recoverable

Prep Batch: 662588

Client Sample ID: Lab Control Sample

Client Sample ID: OUTFALL 001

Matrix: Water Prep Type: Total Recoverable Analysis Batch: 662673 Prep Batch: 662588

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Limits Analyte Unit %Rec Iron 21 J 10000 9960 99 70 - 130 ug/L

Lab Sample ID: 280-194790-1 MSD

Lab Sample ID: 280-194790-1 MS

Matrix: Water

Analyte

Chromium

Zinc

Iron

Analysis Batch: 662673

Spike Sample Sample Result Qualifier Added

10000

Result Qualifier 10000

RL

5.0

1.0

3.0

2.0

RL

10

RL

1.0

MSD MSD

MDL Unit

0.71 ug/L

MDL Unit

MDL Unit

0.23 ug/L

2.0 ug/L

0.50 ug/L

0.19 ug/L

0.50 ug/L

Unit ug/L

%Rec %Rec Limits 100

RPD

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 280-662588/1-A

Matrix: Water

Analysis Batch: 662765

MB MB

ND

ND

ND

MB MB

ND

Result Qualifier

Result Qualifier ND

Analyte Arsenic Cadmium

Copper Lab Sample ID: MB 280-662588/1-A

Matrix: Water

Analysis Batch: 662956

Analyte

Lab Sample ID: MB 280-662588/1-A

Matrix: Water

Analysis Batch: 663798

MB MB

Analyte Result Qualifier Lead 0.403 J

Client Sample ID: OUTFALL 001 Prep Type: Total Recoverable Prep Batch: 662588

> Limit 70 - 130 20

Client Sample ID: Method Blank **Prep Type: Total Recoverable**

Prep Batch: 662588

Prepared Analyzed Dil Fac 08/01/24 21:26 08/02/24 19:14

08/01/24 21:26 08/02/24 19:14

08/01/24 21:26 08/02/24 19:14

08/01/24 21:26 08/02/24 19:14

08/01/24 21:26 08/05/24 14:48

Prepared

Client Sample ID: Method Blank **Prep Type: Total Recoverable**

Prep Batch: 662588

Client Sample ID: Method Blank **Prep Type: Total Recoverable**

Analyzed

Prep Batch: 662588

Prepared Analyzed Dil Fac 08/01/24 21:26 08/12/24 16:56

Eurofins Denver

RPD

Dil Fac

Job ID: 280-194790-1

100

88 - 115

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

Zinc

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

ab Sample ID: LCS 280-662588/16-A	Client Sample ID: Lab Control Sample
Matrix: Water	Prep Type: Total Recoverable

Ma **Analysis Batch: 662765** Prep Batch: 662588

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Arsenic	40.0	39.6		ug/L		99	89 - 111	
Cadmium	40.0	39.2		ug/L		98	89 - 111	
Chromium	40.0	39.1		ug/L		98	86 - 115	
Copper	40.0	37.7		ug/L		94	90 - 115	

Lab Sample ID: LCS 280-662588/16-A **Client Sample ID: Lab Control Sample Matrix: Water Prep Type: Total Recoverable Analysis Batch: 662956 Prep Batch: 662588** %Rec Spike LCS LCS Added Result Qualifier Unit %Rec Limits Analyte

40.0

ug/L

40.0

Lab Sample ID: LCS 280-662588/16-A **Client Sample ID: Lab Control Sample Matrix: Water Prep Type: Total Recoverable Analysis Batch: 663798 Prep Batch: 662588** LCS LCS %Rec Spike Added Limits Analyte Result Qualifier Unit %Rec

40.0 37.9 95 88 - 115 Lead ug/L Lab Sample ID: 280-194790-1 MS Client Sample ID: OUTFALL 001 **Prep Type: Total Recoverable Matrix: Water**

Analysis Batch: 662765 Prep Batch: 662588 Sample Sample Spike MS MS %Rec

Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Arsenic	ND		40.0	36.9		ug/L		92	79 - 120	
Cadmium	ND		40.0	37.7		ug/L		94	89 - 111	
Chromium	ND		40.0	37.7		ug/L		94	86 - 115	
Copper	0.95	J	40.0	36.9		ug/L		90	90 - 115	

Lab Sample ID: 280-194790-1 MS **Client Sample ID: OUTFALL 001 Matrix: Water Prep Type: Total Recoverable Analysis Batch: 662956 Prep Batch: 662588**

Spike MS MS %Rec Sample Sample Analyte Result Qualifier Added Result Qualifier Unit Limits %Rec 27 F1 Zinc 40.0 61.4 F1 87 88 - 115 ug/L

Lab Sample ID: 280-194790-1 MS **Client Sample ID: OUTFALL 001 Matrix: Water Prep Type: Total Recoverable**

Analysis Batch: 663798 %Rec Sample Sample Spike MS MS Result Qualifier Added Result Qualifier Unit %Rec Limits

Analyte Lead 1.0 B 40.0 38.8 ug/L 95 88 - 115

Lab Sample ID: 280-194790-1 MSD **Prep Type: Total Recoverable Matrix: Water Analysis Batch: 662765**

Sample Sample Spike MSD MSD %Rec **RPD** Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit ND 40.0 79 - 120 Arsenic 38.0 ug/L 95 3 20 ND 40.0 97 Cadmium 39.0 ug/L 89 - 111 20

Eurofins Denver

Page 13 of 24

Prep Batch: 662588

Prep Batch: 662588

Job ID: 280-194790-1

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

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

27 F1

Lab Sample ID: 280-194790-1 MSD **Client Sample ID: OUTFALL 001 Matrix: Water** Prep Type: Total Recoverable

Analysis Batch: 662765 Prep Batch: 662588

MSD MSD %Rec **RPD** Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chromium ND 40.0 39.5 ug/L 99 86 - 115 5 20 Copper 0.95 J 40.0 38.3 ug/L 93 90 - 115 20

Lab Sample ID: 280-194790-1 MSD Client Sample ID: OUTFALL 001 **Matrix: Water Prep Type: Total Recoverable Analysis Batch: 662956 Prep Batch: 662588** Sample Sample Spike MSD MSD %Rec **RPD** Result Qualifier Added Result Qualifier Analyte Unit %Rec Limits RPD Limit

62.9

ug/L

90

88 - 115

40.0

Lab Sample ID: 280-194790-1 MSD **Client Sample ID: OUTFALL 001 Matrix: Water Prep Type: Total Recoverable Analysis Batch: 663798 Prep Batch: 662588** MSD MSD %Rec **RPD** Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit Lead 1.0 B 40.0 39.4 ug/L 96 88 - 115

Lab Sample ID: MB 280-662680/1-B

Zinc

Client Sample ID: Method Blank **Matrix: Water Prep Type: Potentially Dissolved** Analysis Batch: 662956 **Prep Batch: 662685**

MB MB Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac 5.0 Arsenic ND 0.50 ug/L 08/05/24 08:44 08/05/24 17:06 Cadmium ND 1.0 08/05/24 08:44 08/05/24 17:06 0.19 ug/L ND 3.0 ug/L Chromium 08/05/24 08:44 08/05/24 17:06 0.50 Copper ND 2.0 0.71 ug/L 08/05/24 08:44 08/05/24 17:06 08/05/24 08:44 08/05/24 17:06 Lead ND 1.0 0.23 ug/L Manganese ND 3.0 0.51 ug/L 08/05/24 08:44 08/05/24 17:06 Nickel ND 3.0 08/05/24 08:44 08/05/24 17:06 0.83 ug/L Selenium ND 5.0 1.0 ug/L 08/05/24 08:44 08/05/24 17:06 Silver ND 0.50 0.045 ug/L 08/05/24 08:44 08/05/24 17:06 Zinc ND 08/05/24 08:44 08/05/24 17:06 10 2.0 ug/L

Lab Sample ID: LCS 280-662563/2-B

Matrix: Water

Analysis Batch: 662956

Client Sample ID: Lab Control Sample **Prep Type: Potentially Dissolved** Prep Batch: 662685

Analysis Batch. 002930	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Arsenic	40.0	40.8		ug/L		102	89 - 111
Cadmium	40.0	37.5		ug/L		94	89 _ 111
Chromium	40.0	41.2		ug/L		103	86 ₋ 115
Copper	40.0	40.7		ug/L		102	90 _ 115
Lead	40.0	38.6		ug/L		96	88 ₋ 115
Manganese	40.0	41.1		ug/L		103	87 - 115
Nickel	40.0	40.6		ug/L		102	86 _ 115
Selenium	40.0	39.0		ug/L		98	85 - 114
Silver	40.0	37.6		ug/L		94	90 - 114
Zinc	40.0	44.5		ua/L		111	88 - 115

Client: Grand Island Resources Job ID: 280-194790-1

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 280-663540/1-A Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 663722

Project/Site: Nederland, CO

Prep Type: Total/NA Prep Batch: 663540 MB MB

Result Qualifier RL **MDL** Unit Analyzed Dil Fac Analyte Prepared 0.20 08/09/24 16:27 08/09/24 23:16 Mercury ND 0.061 ug/L

Lab Sample ID: LCS 280-663540/2-A **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 663722

Spike LCS LCS Added Result Qualifier D %Rec Analyte Unit 90 - 110 ug/L 99

5.00 Mercury 4.97 Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: MB 280-662657/4 Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 662657

MB MB

Result Qualifier RL **MDL** Unit Dil Fac Analyte Prepared Analyzed 08/02/24 10:15 Specific Conductance ND 2.0 2.0 umhos/cm

Lab Sample ID: LCS 280-662657/3 **Client Sample ID: Lab Control Sample Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 662657

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits Specific Conductance 1410 1420 umhos/cm 100 90 - 110

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

Lab Sample ID: MB 280-662895/1 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 662895

MB MB

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac **Total Suspended Solids** ND 4.0 1.1 mg/L 08/05/24 15:30

Lab Sample ID: LCS 280-662895/2 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 662895

Spike LCS LCS %Rec Added Result Qualifier Unit %Rec Limits Total Suspended Solids 503 441 mg/L 79 - 114

Method: SM 3500 CR B - Chromium, Hexavalent

Lab Sample ID: MB 280-662555/3-A Client Sample ID: Method Blank **Prep Type: Dissolved**

Matrix: Water

Analysis Batch: 662593

MB MB Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Chromium, hexavalent ND 20 4.0 ug/L 08/01/24 16:42

Eurofins Denver

8/15/2024

Prep Batch: 663540

Prep Type: Total/NA

%Rec

Limits

Client: Grand Island Resources Job ID: 280-194790-1 Project/Site: Nederland, CO

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

Lab Sample ID: LCS 280-662555/1-A **Client Sample ID: Lab Control Sample Matrix: Water Prep Type: Dissolved**

ug/L

113

Analysis Batch: 662593 Spike LCS LCS %Rec Added Result Qualifier %Rec Limits Analyte Unit D 113 *+ 100 91 - 112

Lab Sample ID: LCSD 280-662555/2-A Client Sample ID: Lab Control Sample Dup **Matrix: Water Prep Type: Dissolved**

Analysis Batch: 662593

Chromium, hexavalent

Spike LCSD LCSD %Rec **RPD** Added Result Qualifier Unit D %Rec Limits RPD Limit 100 Chromium, hexavalent 101 ug/L 101 91 - 112 11

Lab Sample ID: 280-194790-1 MS Client Sample ID: OUTFALL 001 **Matrix: Water Prep Type: Dissolved**

Analysis Batch: 662593

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Limits Analyte Unit %Rec Chromium, hexavalent ND *+ 100 102 102 91 - 112 ug/L

Lab Sample ID: 280-194790-1 MSD **Client Sample ID: OUTFALL 001 Matrix: Water Prep Type: Dissolved**

Analysis Batch: 662593

Spike MSD MSD **RPD** Sample Sample %Rec Added Analyte Result Qualifier Result Qualifier Unit %Rec Limits **RPD** Limit ND *+ 100 Chromium, hexavalent 101 ug/L 101 91 - 112

Lab Sample ID: 280-194790-1 DU Client Sample ID: OUTFALL 001 **Matrix: Water Prep Type: Dissolved**

Analysis Batch: 662593

DU DU RPD Sample Sample Analyte Result Qualifier Result Qualifier RPD Unit Limit Chromium, hexavalent ND *+ ND *+ ug/L NC 20

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 280-662674/5 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 662674

LCS LCS Spike %Rec Added Result Qualifier Analyte Unit %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 280-662748/11 Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 662748

MB MB **MDL** Unit Analyte Result Qualifier Prepared Analyzed Dil Fac Sulfide ND 0.050 0.022 mg/L 08/02/24 15:14

Eurofins Denver

QC Sample Results

Client: Grand Island Resources Job ID: 280-194790-1

Project/Site: Nederland, CO

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

Lab Sample ID: LCS 280-662748/9	Client Sample ID: Lab Control Sample
Matrix: Water	Prep Type: Total/NA

Analysis Batch: 662748 Spike LCS LCS %Rec Desuit Qualifier Unit

Analyte	Added	Result	Qualifier	Unit	ט	%Rec	Limits	
Sulfide	0.501	0.427		mg/L		85	81 - 122	

Lab Sample ID: LCSD 280-662748/10 **Client Sample ID: Lab Control Sample Dup** Prep Type: Total/NA

Matrix: Water Analysis Batch: 662748

LCSD LCSD RPD Spike %Rec Result Qualifier Unit RPD Limit Analyte Added D %Rec Limits 0.488 *1 Sulfide 0.501 mg/L 97 81 - 122 13

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

Job ID: 280-194790-1

Metals

Filts	•ati∧n	Ratch	า: 662563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 280-662563/2-B	Lab Control Sample	Potentially Dissolved	Water	Filtration	

Prep Batch: 662588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-194790-1	OUTFALL 001	Total Recoverable	Water	200.7	
280-194790-1	OUTFALL 001	Total Recoverable	Water	200.8	
MB 280-662588/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-662588/16-A	Lab Control Sample	Total Recoverable	Water	200.8	
LCS 280-662588/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
280-194790-1 MS	OUTFALL 001	Total Recoverable	Water	200.7	
280-194790-1 MS	OUTFALL 001	Total Recoverable	Water	200.8	
280-194790-1 MSD	OUTFALL 001	Total Recoverable	Water	200.7	
280-194790-1 MSD	OUTFALL 001	Total Recoverable	Water	200.8	

Analysis Batch: 662673

Lab Sample ID 280-194790-1	Client Sample ID OUTFALL 001	Prep Type Total Recoverable	Matrix Water	Method 200.7 Rev 4.4	Prep Batch 662588
MB 280-662588/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	662588
LCS 280-662588/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	662588
280-194790-1 MS	OUTFALL 001	Total Recoverable	Water	200.7 Rev 4.4	662588
280-194790-1 MSD	OUTFALL 001	Total Recoverable	Water	200.7 Rev 4.4	662588

Filtration Batch: 662680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-662680/1-B	Method Blank	Potentially Dissolved	Water	Filtration	

Filtration Batch: 662682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-194790-1	OUTFALL 001	Potentially Dissolved	Water	Poten_Diss_Met	

Prep Batch: 662685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-194790-1	OUTFALL 001	Potentially Dissolved	Water	200.8	662682
MB 280-662680/1-B	Method Blank	Potentially Dissolved	Water	200.8	662680
LCS 280-662563/2-B	Lab Control Sample	Potentially Dissolved	Water	200.8	662563

Analysis Batch: 662765

Lab Sample ID 280-194790-1	Client Sample ID OUTFALL 001	Prep Type Total Recoverable	Matrix Water	Method 200.8	Prep Batch 662588
MB 280-662588/1-A	Method Blank	Total Recoverable	Water	200.8	662588
LCS 280-662588/16-A	Lab Control Sample	Total Recoverable	Water	200.8	662588
280-194790-1 MS	OUTFALL 001	Total Recoverable	Water	200.8	662588
280-194790-1 MSD	OUTFALL 001	Total Recoverable	Water	200.8	662588

Analysis Batch: 662956

Γ					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-194790-1	OUTFALL 001	Potentially Dissolved	Water	200.8	662685
280-194790-1	OUTFALL 001	Total Recoverable	Water	200.8	662588
MB 280-662588/1-A	Method Blank	Total Recoverable	Water	200.8	662588
MB 280-662680/1-B	Method Blank	Potentially Dissolved	Water	200.8	662685
LCS 280-662563/2-B	Lab Control Sample	Potentially Dissolved	Water	200.8	662685

Eurofins Denver

8/15/2024

Page 18 of 24

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

Job ID: 280-194790-1

Metals (Continued)

Analysis Batch: 662956 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 280-662588/16-A	Lab Control Sample	Total Recoverable	Water	200.8	662588
280-194790-1 MS	OUTFALL 001	Total Recoverable	Water	200.8	662588
280-194790-1 MSD	OUTFALL 001	Total Recoverable	Water	200.8	662588

Prep Batch: 663540

Lab Sample ID 280-194790-1	Client Sample ID OUTFALL 001	Prep Type Total/NA	Matrix Water	Method 245.1	Prep Batch
MB 280-663540/1-A	Method Blank	Total/NA	Water	245.1	
LCS 280-663540/2-A	Lab Control Sample	Total/NA	Water	245.1	

Analysis Batch: 663722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-194790-1	OUTFALL 001	Total/NA	Water	245.1	663540
MB 280-663540/1-A	Method Blank	Total/NA	Water	245.1	663540
LCS 280-663540/2-A	Lab Control Sample	Total/NA	Water	245.1	663540

Analysis Batch: 663798

Lab Sample ID 280-194790-1	Client Sample ID OUTFALL 001	Prep Type Total Recoverable	Matrix Water	Method 200.8	Prep Batch 662588
MB 280-662588/1-A	Method Blank	Total Recoverable	Water	200.8	662588
LCS 280-662588/16-A	Lab Control Sample	Total Recoverable	Water	200.8	662588
280-194790-1 MS	OUTFALL 001	Total Recoverable	Water	200.8	662588
280-194790-1 MSD	OUTFALL 001	Total Recoverable	Water	200.8	662588

General Chemistry

Filtration Batch: 662555

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-194790-1	OUTFALL 001	Dissolved	Water	FILTRATION	· · · · · · · · · · · · · · · · · · ·
MB 280-662555/3-A	Method Blank	Dissolved	Water	FILTRATION	
LCS 280-662555/1-A	Lab Control Sample	Dissolved	Water	FILTRATION	
LCSD 280-662555/2-A	Lab Control Sample Dup	Dissolved	Water	FILTRATION	
280-194790-1 MS	OUTFALL 001	Dissolved	Water	FILTRATION	
280-194790-1 MSD	OUTFALL 001	Dissolved	Water	FILTRATION	
280-194790-1 DU	OUTFALL 001	Dissolved	Water	FILTRATION	

Analysis Batch: 662593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-194790-1	OUTFALL 001	Dissolved	Water	SM 3500 CR B	662555
MB 280-662555/3-A	Method Blank	Dissolved	Water	SM 3500 CR B	662555
LCS 280-662555/1-A	Lab Control Sample	Dissolved	Water	SM 3500 CR B	662555
LCSD 280-662555/2-A	Lab Control Sample Dup	Dissolved	Water	SM 3500 CR B	662555
280-194790-1 MS	OUTFALL 001	Dissolved	Water	SM 3500 CR B	662555
280-194790-1 MSD	OUTFALL 001	Dissolved	Water	SM 3500 CR B	662555
280-194790-1 DU	OUTFALL 001	Dissolved	Water	SM 3500 CR B	662555

Analysis Batch: 662657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-194790-1	OUTFALL 001	Total/NA	Water	SM 2510B	
MB 280-662657/4	Method Blank	Total/NA	Water	SM 2510B	
LCS 280-662657/3	Lab Control Sample	Total/NA	Water	SM 2510B	

Eurofins Denver

Page 19 of 24

Client: Grand Island Resources

Job ID: 280-194790-1

Project/Site: Nederland, CO

General Chemistry

Analysis Batch: 662674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-194790-1	OUTFALL 001	Total/NA	Water	SM 4500 H+ B	
LCS 280-662674/5	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 662748

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-194790-1	OUTFALL 001	Total/NA	Water	SM 4500 S2 D	
MB 280-662748/11	Method Blank	Total/NA	Water	SM 4500 S2 D	
LCS 280-662748/9	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
LCSD 280-662748/10	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 D	

Analysis Batch: 662795

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-194790-1	OUTFALL 001	Total/NA	Water	SM4500 S2 H	

Analysis Batch: 662895

Lab Sample ID 280-194790-1	Client Sample ID OUTFALL 001	Prep Type Total/NA	Matrix Water	Method SM 2540D	Prep Batch
MB 280-662895/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 280-662895/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 663459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-194790-1	OUTFALL 001	Potentially Dissolved	Water	SM3500 CR B	
280-194790-1	OUTFALL 001	Total Recoverable	Water	SM3500 CR B	

2

3

4

6

Q

9

10

11

12

13

Lab Chronicle

Client: Grand Island Resources Job ID: 280-194790-1 Project/Site: Nederland, CO

Client Sample ID: OUTFALL 001

Lab Sample ID: 280-194790-1 Date Collected: 08/01/24 12:00 **Matrix: Water** Date Received: 08/01/24 13:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.7			50 mL	50 mL	662588	08/01/24 21:26	AMH	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			662673	08/02/24 10:43	ADL	EET DEN
Potentially Dissolved	Filtration	Poten_Diss_Met			200 mL	200 mL	662682	08/02/24 11:25	KLG	EET DEN
Potentially Dissolved	Prep	200.8			50 mL	50 mL	662685	08/05/24 08:44	KLG	EET DEN
Potentially Dissolved	Analysis	200.8		1			662956	08/05/24 17:43	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	662588	08/01/24 21:26	AMH	EET DEN
Total Recoverable	Analysis	200.8		1			663798	08/12/24 17:03	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	662588	08/01/24 21:26	AMH	EET DEN
Total Recoverable	Analysis	200.8		1			662765	08/02/24 19:19	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	662588	08/01/24 21:26	AMH	EET DEN
Total Recoverable	Analysis	200.8		1			662956	08/05/24 14:53	LMT	EET DEN
Total/NA	Prep	245.1			30 mL	50 mL	663540	08/09/24 16:27	CAF	EET DEN
Total/NA	Analysis	245.1		1			663722	08/09/24 23:59	CAF	EET DEN
Total/NA	Analysis	SM 2510B		1			662657	08/02/24 10:15	EL	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	662895	08/05/24 15:30	MF	EET DEN
Dissolved	Filtration	FILTRATION			2 mL	2 mL	662555	08/01/24 14:41	CLP	EET DEN
Dissolved	Analysis	SM 3500 CR B		1	2 mL	2 mL	662593	08/01/24 16:43	CLP	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			662674	08/02/24 09:54	EL	EET DEN
Total/NA	Analysis	SM 4500 S2 D		1	2 mL	2 mL	662748	08/02/24 15:36	ABW	EET DEN
Potentially Dissolvec	Analysis	SM3500 CR B		1			663459	08/09/24 11:02	RMS	EET DEN
Total Recoverable	Analysis	SM3500 CR B		1			663459	08/09/24 11:02	RMS	EET DEN
Total/NA	Analysis	SM4500 S2 H		1			662795	08/04/24 20:13	C1A	EET DEN

Laboratory References:

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

Accreditation/Certification Summary

Client: Grand Island Resources

Job ID: 280-194790-1

Project/Site: Nederland, CO

Laboratory: Eurofins Denver

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

Authority	Progr	am	Identification Number	Expiration Date
Oregon	NELA	Р	4025	01-08-25
,	s are included in this repo does not offer certification	•	not certified by the governing authori	ty. This list may include analytes
Analysis Method	Prep Method	Matrix	Analyte	
SM 4500 H+ B		Water	Temperature	
SM3500 CR B		Water	Chromium, trivalent	
SM3500 CR B		Water	Chromium, trivalent (disse	olved)
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 Sul	5 1

6

3

4

5

7

9

10

13

Seurofins Environment Testing America

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

	Client Information	7 45 Sample 1	SPECIE	Sel	Bieniu	Lab PM: Bieniulis, Dylan T			Carrier Tra	Carrier Tracking No(s):		000 No:		
	Client Contact: John Rinko	Phone 25-3	304-11	28.	E-Mail: Dylan.	E-Mail: Dylan.Bieniulis@et.eurofinsus.com	t.eurofinsus	E COM	State of Origin:	igin:	0	Page:		
	Company: Grand Island Resources			PWSID:			▼	Analysis Requested	equested			Job #:		
	Address: 12567 West Cedar Drive Suite 110	Due Date Requested:					-		цз	Lin		Preservation Codes		Ī
•	Olty: Lakewood	TAT Requested (days):	÷						iom əti	ıd Merc		A - HCL B - NaOH C - Zn Acetate	M - Hexane N - None O - AsNaO2	
	State, Zlp: CO, 80228	Compliance Project:	. ∆ Yes ∆ N	No					to ils	ns slst		D - Nitric Acid E - NaHSO4		
	Phone: (303) 601-9230	PO#:			T			alc)	h teri4)	eM eldi		F - MeOH G - Amchlor H - Assorbis Asid		obydrafo
	Email: <u>Johnrinko@yahoo.com</u>	, MO #:				CONTRACTOR OF THE PARTY		a) 10 tr	etals		S.			
	Project Name: Nederland, CO	Project #: 28022821				militar sanctifica		rivaler S bns	pəvlo		nanie1	K - EDTA L - EDA	W - pH 4-5 Z - other (specify)	. (Aji
	Site: First half of the month event	SSOW#:				Property of the Table		T bəvlo Sulfide	esiQ (II		of con	Other:		
	Sample Identification	ote Colome 2	Sample (C			ield Filtered W.SM mycha	510B - Specific H / Temp 500_CR_B - To	500_CR_B - Dis otentially Diss M4500_S2_D - ydrogen Sulfic	8.00 - Potential	20,7 / 200.8 / 2.00 First half of the	otal Number	1		
Pa	can present meaning	Salliple Date	1	Preservation Code:	<u> </u>	694	d	s C			1/2		Special Instructions/Note:	ote:
ige :	QUITEALL OO!	1 72-1-8	12,00	ر ال		12.7			×	5	0		*First half of the month potentially dissolved metals permit list = 200.8 (As. Cd. Cr. Cu.	dissolved Gr. Cu.
23 c	1	-	· La										Ag, Zn)	
of 24												*First half of the metals permit lis	*First half of the month total recoverable metals permit list = 200.7 (Fe), 200.8 (As,	verable 00.8 (As,
4												Cd, Cr, Cu, Pb,	Zn), and 245.1 (H	, (6 ₁
												TEMP	J ₀ & ≥ q	2466
												ЪЙ	= 7.6	
					280-19479	280-194790 Chain of Custody	Custody		1			NOG	Cherse CR	ಕ
												CILD	OIL DETECTED	2
	Possible Hazard Identification Non-Hazard	Poison B Unknown		Radiological		Sample D	le Disposal (At	fee may be	e, assessed if sam	if samples	are retair	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	1 month)	
						Special In	structions/G	Require	ents:	an a			SIBIOM	
	Empty Kit Relinquished by:	Dat	ate:			Time:			Metho	Method of Shipment:	ıt.			
	Relinquished by BECOCA	Pate/Time: 24	SO;2)	- a	Company	Received by:	Sived by:	A TIT	PETTASCHI	/ Date/Time:	1-2d	12105pm	Company	
8		Date/Time:		o O	Company	Received b		Z Z		0,8,0	_	9084 1340	10 Company	Type C
/15/		Date/Time:		O	Company	Received by:	d by:)		Date/Time:	ne:		Company	1
2024	Custody Seals Intact: Custody Seal No.: A Yes A No					Cooler	emperature(s	Cooler Tempgrature(s) °C and Other Remarks:	Remarks:	+0.1				
4													Ver: 01/16/2019	910

Login Sample Receipt Checklist

Client: Grand Island Resources Job Number: 280-194790-1

Login Number: 194790 List Source: Eurofins Denver

List Number: 1

Creator: Roehsner, Karen P

• • • • • • • • • • • • • • • • • • • •	ā	
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
s the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

2

Λ

5

7

9

10

12

10

13

14

ANALYTICAL REPORT

PREPARED FOR

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

JOB DESCRIPTION

Generated 8/26/2024 3:16:50 PM

Nederland, CO

JOB NUMBER

280-195452-1

Eurofins Denver 4955 Yarrow Street Arvada CO 80002



Eurofins Denver

Job Notes

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

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

Authorization

Generated 8/26/2024 3:16:50 PM

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

Eurofins Denver is a laboratory within TestAmerica Laboratories, Inc., a company within Eurofins Environment Testing Group of Companies

Table of Contents

Cover Page	1
Table of Contents	3
Definitions	4
Case Narrative	5
Detection Summary	6
Method Summary	7
Sample Summary	8
Client Sample Results	9
QC Sample Results	10
QC Association	12
Chronicle	13
Certification Summary	14
Chain of Custody	15
Racaint Chacklists	16

10

13

Definitions/Glossary

Client: Grand Island Resources

Job ID: 280-195452-1

Project/Site: Nederland, CO

Qualifiers

Metals

Qualifier Description

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

Glossary

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

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

ŏ

10

11

13

Case Narrative

Client: Grand Island Resources

Project: Nederland, CO

Job ID: 280-195452-1 Eurofins Denver

Job Narrative 280-195452-1

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 8/16/2024 4:17 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.6°C.

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

Sample OUTFALL-001 (280-195452-1) was analyzed for Metals (ICP/MS) - Potentially Dissolved. The sample was prepared and analyzed on 8/22/2024.

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

Sample OUTFALL-001 (280-195452-1) was analyzed for Metals (ICP/MS) - Total Recoverable. The sample was prepared on 8/19/2024 and analyzed on 8/20/2024.

Eurofins Denver

Page 5 of 16

9

Job ID: 280-195452-1

3

4

5

7

8

11

12

Detection Summary

Client: Grand Island Resources

Job ID: 280-195452-1

Project/Site: Nederland, CO

Client Sample ID: OUTFALL-001

Lab Sample ID: 280-195452-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.80	J	1.0	0.23	ug/L	1	_	200.8	Total
									Recoverable
Copper	0.72	J	2.0	0.71	ug/L	1		200.8	Potentially
									Dissolved
Lead	0.76	J	1.0	0.23	ug/L	1		200.8	Potentially
									Dissolved
Zinc	25		10	2.0	ug/L	1		200.8	Potentially
									Dissolved

5

7

8

9

4 4

12

13

Method Summary

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

Job ID: 280-195452-1

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: 280-195452-1

 Lab Sample ID
 Client Sample ID
 Matrix
 Collected
 Received

 280-195452-1
 OUTFALL-001
 Water
 08/16/24 13:00
 08/16/24 16:17

3

4

5

7

8

10

11

13

Client Sample Results

Client: Grand Island Resources Job ID: 280-195452-1 Project/Site: Nederland, CO

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

Client Sample ID: OUTFALL-001 Lab Sample ID: 280-195452-1 Date Collected: 08/16/24 13:00 **Matrix: Water**

Date Received: 08/16/24 16:17

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		2.0	0.71	ug/L		08/19/24 14:49	08/20/24 21:36	1
Lead	0.80	J	1.0	0.23	ug/L		08/19/24 14:49	08/20/24 21:36	1

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

Client Sample ID: OUTFALL-001 Lab Sample ID: 280-195452-1 Date Collected: 08/16/24 13:00 **Matrix: Water** Date Received: 08/16/24 16:17

Date Neceived. 00/10/24 10.17									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		1.0	0.19	ug/L		08/22/24 08:43	08/22/24 18:28	1
Copper	0.72	J	2.0	0.71	ug/L		08/22/24 08:43	08/22/24 18:28	1
Lead	0.76	J	1.0	0.23	ug/L		08/22/24 08:43	08/22/24 18:28	1
Silver	ND		0.50	0.045	ug/L		08/22/24 08:43	08/22/24 18:28	1
Zinc	25		10	2.0	ug/L		08/22/24 08:43	08/22/24 18:28	1

Client: Grand Island Resources Job ID: 280-195452-1

Project/Site: Nederland, CO

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 280-664455/1-A

Matrix: Water

Analysis Batch: 664859

Client Sample ID: Method Blank Prep Type: Total Recoverable

Prep Batch: 664455

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		2.0	0.71	ug/L		08/19/24 14:49	08/20/24 21:29	1
Lead	ND		1.0	0.23	ug/L		08/19/24 14:49	08/20/24 21:29	1

Lab Sample ID: LCS 280-664455/2-A

Matrix: Water

Analysis Batch: 664859

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

Prep Batch: 664455

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Copper 40.0 36.9 ug/L 92 90 - 115 40.0 36.5 ug/L 91 88 - 115 Lead

Lab Sample ID: MB 280-664731/1-B

Matrix: Water

Analysis Batch: 665126

Client Sample ID: Method Blank Prep Type: Potentially Dissolved

Prep Batch: 664752

MB MB

MB MB

Aı	nalyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ca	admium	ND		1.0	0.19	ug/L		08/22/24 08:43	08/22/24 18:05	1
Co	opper	ND		2.0	0.71	ug/L		08/22/24 08:43	08/22/24 18:05	1
Le	ead	ND		1.0	0.23	ug/L		08/22/24 08:43	08/22/24 18:05	1
Si	lver	ND		0.50	0.045	ug/L		08/22/24 08:43	08/22/24 18:05	1
Zi	nc	ND		10	2.0	ug/L		08/22/24 08:43	08/22/24 18:05	1

Lab Sample ID: LCS 280-664731/18-B

Matrix: Water

Analysis Batch: 665126

Client Sample ID: Lab Control Sample Prep Type: Potentially Dissolved Prep Batch: 664752

LCS LCS %Rec Spike Added Result Qualifier Analyte Unit D %Rec Limits Cadmium 40.0 39.6 ug/L 99 89 - 111 40.0 39 9 Copper ug/L 100 90 - 115 Lead 40.0 38.9 ug/L 97 88 - 115 40.0 37.8 95 90 - 114 Silver ug/L Zinc 40.0 44.9 ug/L 112 88 - 115

Lab Sample ID: 280-195452-1 MS

Matrix: Water

Analysis Batch: 665126

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

Prep Batch: 664752

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Cadmium	ND		40.0	39.7		ug/L		99	89 - 111	
Copper	0.72	J	40.0	38.6		ug/L		95	90 - 115	
Lead	0.76	J	40.0	40.8		ug/L		100	88 - 115	
Silver	ND		40.0	37.4		ug/L		93	70 - 130	
Zinc	25		40.0	68.1		ug/L		109	88 - 115	

Lab Sample ID: 280-195452-1 MSD

Matrix: Water

Analysis Batch: 665126

Client Sample ID: OUTFALL-001 Prep Type: Potentially Dissolved Prep Batch: 664752

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Cadmium	ND		40.0	39.1		ug/L		98	89 - 111	2	20

Eurofins Denver

Page 10 of 16

8/26/2024

QC Sample Results

Client: Grand Island Resources Job ID: 280-195452-1

Project/Site: Nederland, CO

Silver

Zinc

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

ND

25

Lab Sample ID: 280-19545 Matrix: Water	Matrix: Water									Client Sample ID: OUTFALL-00 Prep Type: Potentially Dissolve					
Analysis Batch: 665126									Prep Ba	atch: 6	64752				
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD				
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit				
Copper	0.72	J	40.0	38.8		ug/L		95	90 - 115	1	20				
Lead	0.76	J	40.0	39.9		ug/L		98	88 - 115	2	20				

37.4

64.8

40.0

40.0

ug/L

ug/L

ug/L

93

100

70 - 130

88 - 115

0

5

20

QC Association Summary

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

Job ID: 280-195452-1

Metals

Prep Batch: 664455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-195452-1	OUTFALL-001	Total Recoverable	Water	200.8	
MB 280-664455/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-664455/2-A	Lab Control Sample	Total Recoverable	Water	200.8	

Filtration Batch: 664513

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-195452-1	OUTFALL-001	Potentially Dissolved	Water	Poten_Diss_Met	
280-195452-1 MS	OUTFALL-001	Potentially Dissolvec	Water	Poten_Diss_Met	
280-195452-1 MSD	OUTFALL-001	Potentially Dissolved	Water	Poten_Diss_Met	

Filtration Batch: 664731

Lab Sample ID MB 280-664731/1-B	Client Sample ID Method Blank	Prep Type Potentially Dissolved	Matrix	Method Filtration	Prep Batch
IVID 200-004731/1-D	Method Dialik	Foleritially Dissolved	vvalei	Filliation	
LCS 280-664731/18-B	Lab Control Sample	Potentially Dissolvec	Water	Filtration	

Prep Batch: 664752

Lab Sample ID 280-195452-1	Client Sample ID OUTFALL-001	Prep Type Potentially Dissolved	Matrix Water	Method 200.8	Prep Batch 664513
MB 280-664731/1-B	Method Blank	Potentially Dissolvec	Water	200.8	664731
LCS 280-664731/18-B	Lab Control Sample	Potentially Dissolvec	Water	200.8	664731
280-195452-1 MS	OUTFALL-001	Potentially Dissolved	Water	200.8	664513
280-195452-1 MSD	OUTFALL-001	Potentially Dissolvec	Water	200.8	664513

Analysis Batch: 664859

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-195452-1	OUTFALL-001	Total Recoverable	Water	200.8	664455
MB 280-664455/1-A	Method Blank	Total Recoverable	Water	200.8	664455
LCS 280-664455/2-A	Lab Control Sample	Total Recoverable	Water	200.8	664455

Analysis Batch: 665126

Lab Sample ID 280-195452-1	Client Sample ID OUTFALL-001	Prep Type Potentially Dissolved	Matrix Water	Method 200.8	Prep Batch 664752
MB 280-664731/1-B	Method Blank	Potentially Dissolved	Water	200.8	664752
LCS 280-664731/18-B	Lab Control Sample	Potentially Dissolvec	Water	200.8	664752
280-195452-1 MS	OUTFALL-001	Potentially Dissolved	Water	200.8	664752
280-195452-1 MSD	OUTFALL-001	Potentially Dissolvec	Water	200.8	664752

Lab Chronicle

Client: Grand Island Resources Job ID: 280-195452-1

Project/Site: Nederland, CO

Client Sample ID: OUTFALL-001 Lab Sample ID: 280-195452-1

Matrix: Water

Date Collected: 08/16/24 13:00 Date Received: 08/16/24 16:17

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Potentially Dissolved	Filtration	Poten_Diss_Met			200 mL	200 mL	664513	08/19/24 12:29	AES	EET DEN
Potentially Dissolved	Prep	200.8			50 mL	50 mL	664752	08/22/24 08:43	SMK	EET DEN
Potentially Dissolved	Analysis	200.8		1			665126	08/22/24 18:28	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	664455	08/19/24 14:49	AMH	EET DEN
Total Recoverable	Analysis	200.8		1			664859	08/20/24 21:36	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: 280-195452-1

Project/Site: Nederland, CO

Laboratore Francisco Bosse

Laboratory: Eurofins Denver

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

Authority	Program	Identification Number	Expiration Date
Oregon	NFI AP	4025	01-08-25

3

4

F

6

8

10

11

13

Eurofins TestAmerica, Denver 4955 Yarrow Street Arvada, CQ 80002 Phone (303) 736-0100 Phone (303) 431-7171	Chain of Custo	of Custody Record		eurofins Epatromert) me
Client Information	Sampler: KIRO LOCTS	Lab PM: Bieniulis. Dvlan ∓	Carrier Tracking No(s);	6N 909
Çilent Gontacı: John Rinko	22FFP405F anon9	E-Mail: Dylan.Bieniulis@et.eurofinsus.com	State of Origin	Page
Company Grand Island Resources	PWSJD:	Analysis	Requested	Job #.
Address 12567 West Cedar Drive Suite 110	Due Date Requested:	thnor		
Çiky Lakewoçd	TAT Requested (days);			B - NaOH N - None G - Zn Acetale O - AsNaO2
Sidie, Zip C.O., 80228	Compliance Project; & Yeş & No			
Phone. (303) 601-9230	PO#	2,(Sec		
Email [.] <u>johnrinko@yahoo.com</u>	W@#	(Metal		l = log J = DI Water
Project Name Nederland, CO	Project #: 280 <u>22</u> 821	solved		K - EDTA L - EDA
Site second half of the month event) SSOW#;	NSD (()		Other:
	Sample (Washington, Carconn, C	Watrix (weward, weward, definition of the community of th		racimulif, lis
Sample Identification	G=grab)	Fiel 700.		Special Instructions/Note:
140	(2.00	7		
50131400	D 00.0 B000			dissolved metals permit list ≡ 200.8 (Cd, Cu, Pb, Aq, Zn)
of .				*Second half of the month total recoverable
16				metals permit list = 200.8 (Cu, Pb)
				Temp≡ (/²(
				8.F = Hg
				Observed visible sheen or floating oil?
			stody	Yes / No (circle one)
				sampling for Oil& Grease required.
Identification		Sample Disposal (A fee may be assessed if samples	y be assessed if samples are r	er than 1 mo
V, Other (specify)	UNKNOWN	Special Instructions/QC Requirements:	iosal By Lab	Archive For Months
Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:	
Relinquished by	Date/Time: Company	pany Received by:	Date/Time	Семрапу
Reimquished by	Date/Time: Company	pany Received by:	Date/Time:	Company
	Date/Town 12024 12/2 / Sp. Company	Received by	Date/Time:	24 (617 Company NEW
Custody Seals Infact: Custody Seal No.:		Cooler Temberalue(s) & and OI 3 5 5 5 50 1 TA	${\cal P}$ e and Other Remarks: ${\cal P} = {\cal P} = {\cal P} = {\cal P} = {\cal P}$	
		11 12 13 14	7 8 9 10	1 2 Aer: 01/16/2010 4 5 6

Login Sample Receipt Checklist

Client: Grand Island Resources Job Number: 280-195452-1

Login Number: 195452 List Source: Eurofins Denver

List Number: 1

Creator: Roehsner, Karen P

Creator: Roensner, Karen P		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

6

A

5

6

Я

11

12

APPENDIX B.3 SEPTEMBER 2024 OUTFALL-001 ANALYTICAL RESULTS

9

10

12

13

ANALYTICAL REPORT

PREPARED FOR

Attn: Brooke Molson Moran Grand Island Resources 12567 West Cedar Road Suite 110 Lakewood, Colorado 80228 Generated 9/18/2024 2:42:50 PM

JOB DESCRIPTION

Nederland, CO

JOB NUMBER

280-196277-1

Eurofins Denver 4955 Yarrow Street Arvada CO 80002



Eurofins Denver

Job Notes

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

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

Authorization

Generated 9/18/2024 2:42:50 PM

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

Eurofins Denver is a laboratory within TestAmerica Laboratories, Inc., a company within Eurofins Environment Testing Group of Companies

Table of Contents

Cover Page	1
Table of Contents	3
Definitions	4
Case Narrative	5
Detection Summary	7
Method Summary	8
Sample Summary	9
Client Sample Results	10
QC Sample Results	12
QC Association	17
Chronicle	20
Certification Summary	21
Chain of Custody	22
Receipt Chacklists	23

4

6

8

9

11

16

a

Definitions/Glossary

Client: Grand Island Resources

Job ID: 280-196277-1

Project/Site: Nederland, CO

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

^+ Continuing Calibration Verification (CCV) 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

Eurofins Denver

Page 4 of 23 9/18/2024

Case Narrative

Client: Grand Island Resources

Project: Nederland, CO

Job ID: 280-196277-1 Eurofins Denver

Job Narrative 280-196277-1

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 9/6/2024 2:42 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 7.0°C.

Receipt Exceptions

The following sample was received at the laboratory outside the required temperature criteria: OUTFALL-001 (280-196277-1). The sample is considered acceptable since it was collected and submitted to the laboratory on the same day and there is evidence that the chilling process has begun.

The laboratory did not log the SM3500 CR B Total Hexavalent Chromium analysis requested for OUTFALL-001 (280-196277-1). Per a recent update to the laboratory's SOP all samples collected for hexavalent chromium analysis by SM3500 CR B undergo laboratory filtration to remove undissolved solids from the sample volume. The method does not digest solids in the sample volume prior to analysis. The laboratory will use the lab filtered hexavalent chromium analysis result from the sample to complete the Total Recoverable Trivalent Chromium calculated result.

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

Sample OUTFALL-001 (280-196277-1) was analyzed for Metals (ICP) - Total Recoverable. The sample was prepared on 9/9/2024 and analyzed on 9/10/2024.

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

Sample OUTFALL-001 (280-196277-1) was analyzed for Metals (ICP/MS) - Potentially Dissolved. The sample was prepared on 9/10/2024 and analyzed on 9/11/2024 and 9/12/2024.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 280-666762 and 280-666768 and analytical batch 280-667276 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 200.8 - Metals (ICP/MS) - Total Recoverable

Sample OUTFALL-001 (280-196277-1) was analyzed for Metals (ICP/MS) - Total Recoverable. The sample was prepared on 9/9/2024 and analyzed on 9/11/2024.

Method 245.1 - Mercury (CVAA)

Eurofins Denver

Page 5 of 23 9/18/2024

2

Job ID: 280-196277-1

1

5

7

8

10

10

13

Case Narrative

Client: Grand Island Resources

Project: Nederland, CO

Job ID: 280-196277-1 (Continued)

Eurofins Denver

Job ID: 280-196277-1

Sample OUTFALL-001 (280-196277-1) was analyzed for Mercury (CVAA). The sample was prepared and analyzed on 9/10/2024.

Method SM 2510B - Conductivity, Specific Conductance

Sample OUTFALL-001 (280-196277-1) was analyzed for Conductivity, Specific Conductance. The sample was analyzed on 9/9/2024.

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

Sample OUTFALL-001 (280-196277-1) was analyzed for Solids, Total Suspended (TSS). The sample was analyzed on 9/9/2024.

Method SM 3500 CR B - Chromium, Hexavalent - Dissolved

Sample OUTFALL-001 (280-196277-1) was analyzed for Chromium, Hexavalent - Dissolved. The sample was analyzed on 9/6/2024.

The continuing calibration verification (CCV) associated with batch 280-666628 recovered above the upper control limit for Chromium, hexavalent. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method SM3500 CR B - Chromium, Trivalent - Potentially Dissolved

Sample OUTFALL-001 (280-196277-1) was analyzed for Chromium, Trivalent - Potentially Dissolved. The sample was analyzed on 9/18/2024.

Method SM3500 CR B - Chromium, Trivalent - Total Recoverable

Sample OUTFALL-001 (280-196277-1) was analyzed for Chromium, Trivalent - Total Recoverable. The sample was analyzed on 9/18/2024.

Method SM 4500 H+ B - pH

Sample OUTFALL-001 (280-196277-1) was analyzed for pH. The sample was analyzed on 9/9/2024.

Method SM 4500 S2 D - Sulfide, Total

Sample OUTFALL-001 (280-196277-1) was analyzed for Sulfide, Total. The sample was analyzed on 9/10/2024.

Method SM4500 S2 H - Unionized Hydrogen Sulfide

Sample OUTFALL-001 (280-196277-1) was analyzed for Unionized Hydrogen Sulfide. The sample was analyzed on 9/10/2024.

Eurofins Denver

Page 6 of 23 9/18/2024

Λ

5

6

8

4.6

11

13

Detection Summary

Client: Grand Island Resources Project/Site: Nederland, CO Job ID: 280-196277-1

Client Sample ID: OUTFALL-001

Lab Sample ID: 280-196277-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D Method	Prep Type
Iron	9.9	J	100	9.1	ug/L	1	200.7 Rev 4.4	Total
								Recoverable
Copper	0.74	J	2.0	0.71	ug/L	1	200.8	Total
								Recoverable
Lead	0.42	J	1.0	0.23	ug/L	1	200.8	Total
								Recoverable
Zinc	11		10	2.0	ug/L	1	200.8	Total
								Recoverable
Lead	0.42	J	1.0	0.23	ug/L	1	200.8	Potentially
		_						Dissolved
Selenium	4.6	J	5.0	1.0	ug/L	1	200.8	Potentially
								Dissolved
Zinc	18		10	2.0	ug/L	1	200.8	Potentially
Specific Conductores	220		2.0	2.0	umah o o /omo	4	CM 0540D	Dissolved
Specific Conductance	230		2.0	2.0		1	SM 2510B	Total/NA
pH adj. to 25 deg C		HF	0.1	0.1	SU	1	SM 4500 H+ B	Total/NA
Temperature	20.2	HF	1.0	1.0	Degrees C	1	SM 4500 H+ B	Total/NA
Field pH	7.8		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	230		2.0	2.0	umhos/cm	1	SM4500 S2 H	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Denver

Method Summary

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

Job ID: 280-196277-1

Method	Method Description	Protocol	Laboratory
200.7 Rev 4.4	Metals (ICP)	EPA	EET DEN
200.8	Metals (ICP/MS)	EPA	EET DEN
245.1	Mercury (CVAA)	EPA	EET DEN
SM 2510B	Conductivity, Specific Conductance	SM	EET DEN
SM 2540D	Solids, Total Suspended (TSS)	SM	EET DEN
SM 3500 CR B	Chromium, Hexavalent	SM	EET DEN
SM 4500 H+ B	рН	SM	EET DEN
SM 4500 S2 D	Sulfide, Total	SM	EET DEN
SM3500 CR B	Chromium, Trivalent	SM	EET DEN
SM4500 S2 H	Unionized Hydrogen Sulfide	SM	EET DEN
200.7	Preparation, Total Recoverable Metals	EPA	EET DEN
200.8	Preparation, Total Recoverable Metals	EPA	EET DEN
245.1	Preparation, Mercury	EPA	EET DEN
FILTRATION	Sample Filtration	None	EET DEN
Poten_Diss_Met	Filtration for Potentially Dissolved Metals	EPA	EET DEN

Protocol References:

EPA = US Environmental Protection Agency

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

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

Eurofins Denver

9/18/2024

5

7

9

11

12

13

Sample Summary

Client: Grand Island Resources Project/Site: Nederland, CO Job ID: 280-196277-1

 Lab Sample ID
 Client Sample ID
 Matrix
 Collected
 Received

 280-196277-1
 OUTFALL-001
 Water
 09/06/24 11:00
 09/06/24 14:42

-

4

5

8

10

11

12

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

Job ID: 280-196277-1

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

Client Sample ID: OUTFALL-001 Lab Sample ID: 280-196277-1 Date Collected: 09/06/24 11:00 **Matrix: Water**

Date Received: 09/06/24 14:42

Analyte Result Qualifier RL **MDL** Unit D Prepared **Analyzed** Dil Fac 100 09/09/24 15:37 09/10/24 13:10 Iron 9.9 J 9.1 ug/L

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

Client Sample ID: OUTFALL-001 Lab Sample ID: 280-196277-1 Date Collected: 09/06/24 11:00 **Matrix: Water**

Date Received: 09/06/24	14:42							
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND —	5.0	0.50	ug/L		09/09/24 15:37	09/11/24 00:20	1
Cadmium	ND	1.0	0.19	ug/L		09/09/24 15:37	09/11/24 00:20	1
Chromium	ND	3.0	0.50	ug/L		09/09/24 15:37	09/11/24 00:20	1
Copper	0.74 J	2.0	0.71	ug/L		09/09/24 15:37	09/11/24 00:20	1
Lead	0.42 J	1.0	0.23	ug/L		09/09/24 15:37	09/11/24 00:20	1
Zinc	11	10	2.0	ug/L		09/09/24 15:37	09/11/24 00:20	1

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

Client Sample ID: OUTFALL-001 Lab Sample ID: 280-196277-1 sta Callagtadi 00/06/24 44:00

Date Collected: 09/06/2	ate Collected: 09/06/24 11:00								Water
Date Received: 09/06/2		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		09/10/24 14:49		1
Cadmium	ND		1.0	0.19	ug/L		09/10/24 14:49	09/11/24 20:03	1
Chromium	ND		3.0	0.50	ug/L		09/10/24 14:49	09/12/24 16:13	1
Copper	ND		2.0	0.71	ug/L		09/10/24 14:49	09/12/24 16:13	1
Lead	0.42	J	1.0	0.23	ug/L		09/10/24 14:49	09/11/24 20:03	1
Manganese	ND	F1	3.0	0.51	ug/L		09/10/24 14:49	09/12/24 16:13	1
Nickel	ND		3.0	0.83	ug/L		09/10/24 14:49	09/12/24 16:13	1
Selenium	4.6	J	5.0	1.0	ug/L		09/10/24 14:49	09/12/24 16:13	1
Silver	ND		0.50	0.045	ug/L		09/10/24 14:49	09/11/24 20:03	1
Zinc	18		10	2.0	ug/L		09/10/24 14:49	09/12/24 16:13	1

Method: EPA 245.1 - Mercury (CVAA)

Client Sample ID: OUTFALL-001 Lab Sample ID: 280-196277-1 **Matrix: Water**

Date Collected: 09/06/24 11:00 Date Received: 09/06/24 14:42

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac 09/10/24 13:15 09/10/24 21:48 Mercury ND 0.20 0.061 ug/L

General Chemistry

Client Sample ID: OUTFALL-001 Lab Sample ID: 280-196277-1 Date Collected: 09/06/24 11:00 **Matrix: Water**

Date Received: 09/06/24 14:42									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (SM 2510B)	230		2.0	2.0	umhos/cm			09/09/24 16:15	1
Total Suspended Solids (SM 2540D)	ND		4.0	1.1	mg/L			09/09/24 13:26	1
pH adj. to 25 deg C (SM 4500 H+ B)	7.8	HF	0.1	0.1	SU			09/09/24 13:51	1
Temperature (SM 4500 H+ B)	20.2	HF	1.0	1.0	Degrees C			09/09/24 13:51	1
Sulfide (SM 4500 S2 D)	ND		0.050	0.022	mg/L			09/10/24 19:20	1

Eurofins Denver

9/18/2024

Page 10 of 23

Client Sample Results

Client: Grand Island Resources Job ID: 280-196277-1 Project/Site: Nederland, CO

General Chemistry (Continued)

Client Sample ID: OUTFALL-001	Lab Sample ID: 280-196277-1
Date Collected: 09/06/24 11:00	Matrix: Water

Date Received: 09/06/24 14:42

-	Date Received. 03/00/24 14.42									
	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			09/10/24 00:32	1
	Field pH (SM4500 S2 H)	7.8		1.0	1.0	SU			09/10/24 00:32	1
	Field Temperature (SM4500 S2 H)	20		1.0	1.0	Celsius			09/10/24 00:32	1
	Specific Conductance (SM4500 S2 H)	230		2.0	2.0	umhos/cm			09/10/24 00:32	1
ĺ	Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			09/10/24 00:32	1

General Chemistry - Total Recoverable

Client Sample ID: OUTFALL-001 Date Collected: 09/06/24 11:00 Date Received: 09/06/24 14:42							Lab Sam	ple ID: 280-19 Matrix:	
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, trivalent (SM3500 CR B)	ND		20	20	ug/L			09/18/24 13:22	1

General Chemistry - Dissolved

Client Sample ID: OUTFALL-001 Date Collected: 09/06/24 11:00							Lab Sam	nple ID: 280-19 Matrix:	
Date Received: 09/06/24 14:42									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent (SM 3500 CR	ND	^+	20	4.0	ug/L			09/06/24 17:13	1

General Chemistry - Potentially Dissolved

Client Sample ID: OUTFALL-001 Date Collected: 09/06/24 11:00							Lab San	nple ID: 280-19 Matrix	6277-1 : Water
Date Received: 09/06/24 14:42 Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, trivalent (dissolved) (SM3500 CR B)	ND		20	20	ug/L			09/18/24 13:22	1

Client: Grand Island Resources Job ID: 280-196277-1

Project/Site: Nederland, CO Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 280-666725/1-A

Matrix: Water

Analysis Batch: 667010

Client Sample ID: Method Blank **Prep Type: Total Recoverable**

Prep Batch: 666725

Result Qualifier RL **MDL** Unit Analyzed Dil Fac Analyte Prepared 100 09/09/24 15:37 09/10/24 12:18 Iron ND 9.1 ug/L

Lab Sample ID: LCS 280-666725/2-A

Matrix: Water

Analysis Batch: 667010

MB MB

ND

MD MD

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

Prep Batch: 666725

Spike LCS LCS %Rec Added Result Qualifier Unit D %Rec Limits Analyte 10000 10000 85 - 115 Iron ug/L 100

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 280-666725/1-A

Matrix: Water

Analysis Batch: 666972

Client Sample ID: Method Blank **Prep Type: Total Recoverable**

Prep Batch: 666725

MB MB Result Qualifier RL **MDL** Unit D Dil Fac Analyte Prepared Analyzed Arsenic ND 5.0 0.50 ug/L 09/09/24 15:37 09/10/24 23:40 Cadmium ND 1.0 0.19 ug/L 09/09/24 15:37 09/10/24 23:40 ND 0.50 ug/L Chromium 3.0 09/09/24 15:37 09/10/24 23:40 Copper ND 2.0 0.71 ug/L 09/09/24 15:37 09/10/24 23:40 ND 1.0 0.23 ug/L 09/09/24 15:37 09/10/24 23:40 Lead

10

2.0 ug/L

Lab Sample ID: LCS 280-666725/22-A

Matrix: Water

Zinc

Analysis Batch: 666972

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

09/09/24 15:37 09/10/24 23:40

Prep Batch: 666725

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits Arsenic 40.0 39.4 ug/L 98 89 - 111 Cadmium 40.0 39.7 ug/L 99 89 - 111 Chromium 40.0 40.9 ug/L 102 86 - 115 Copper 40.0 41.6 ug/L 104 90 - 115 Lead 40.0 40.0 ug/L 100 88 - 115 Zinc 40.0 39.2 ug/L 98 88 - 115

Lab Sample ID: MB 280-666759/1-B

Matrix: Water

Analysis Batch: 667134

Client Sample ID: Method Blank **Prep Type: Potentially Dissolved**

Prep Batch: 666768

	IVID	MID MID										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac			
Cadmium	ND		1.0	0.19	ug/L		09/10/24 14:49	09/11/24 19:33	1			
Lead	ND		1.0	0.23	ug/L		09/10/24 14:49	09/11/24 19:33	1			
Silver	ND		0.50	0.045	ua/L		09/10/24 14:49	09/11/24 19:33	1			

Lab Sample ID: MB 280-666759/1-B

Matrix: Water

Analysis Batch: 667276

Client Sample ID: Method Blank **Prep Type: Potentially Dissolved**

Prep Batch: 666768

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		09/10/24 14:4	9 09/12/24 16:01	1

Eurofins Denver

Page 12 of 23

Job ID: 280-196277-1

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

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

Lab Sample ID: MB 280-666759/1-B

Matrix: Water

Analysis Batch: 667276

Client Sample ID: Method Blank Prep Type: Potentially Dissolved Prep Batch: 666768

	MB MB							
Analyte Res	ult Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium 1	.00 J	3.0	0.50	ug/L		09/10/24 14:49	09/12/24 16:01	1
Copper 0.7	'36 J	2.0	0.71	ug/L		09/10/24 14:49	09/12/24 16:01	1
Manganese 1	.47 J	3.0	0.51	ug/L		09/10/24 14:49	09/12/24 16:01	1
Nickel	ND	3.0	0.83	ug/L		09/10/24 14:49	09/12/24 16:01	1
Selenium	ND	5.0	1.0	ug/L		09/10/24 14:49	09/12/24 16:01	1
Zinc	ND	10	2.0	ug/L		09/10/24 14:49	09/12/24 16:01	1

Lab Sample ID: LCS 280-666759/2-C

Matrix: Water

Analysis Batch: 667134

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

Prep Batch: 666768

LCS LCS %Rec Spike Analyte Added Result Qualifier Unit D %Rec Limits Cadmium 40.0 39.4 ug/L 98 89 - 111 Lead 40.0 37.5 ug/L 94 88 _ 115 Silver 92 40.0 37.0 ug/L 90 - 114

Lab Sample ID: LCS 280-666759/2-C

Matrix: Water

Analysis Batch: 667276

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

Prep Batch: 666768

Spike LCS LCS %Rec Analyte Added Result Qualifier %Rec Limits Unit Arsenic 40.0 39.5 99 89 - 111 ug/L Chromium 40.0 38.8 ug/L 97 86 - 115 Copper 40.0 38.9 ug/L 97 90 - 115 40.0 Manganese 39.3 ug/L 98 87 - 115 Nickel 40.0 38.3 ug/L 96 86 - 115 Selenium 40.0 38.9 97 85 - 114 ug/L 40.0 88 - 115 Zinc 42.9 ug/L 107

Lab Sample ID: 280-196277-1 MS

Matrix: Water

Analysis Batch: 667134

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

Prep Batch: 666768

%Rec Sample Sample Spike MS MS Analyte Result Qualifier Added Result Qualifier Limits Unit D %Rec Cadmium ND 40.0 39.3 ug/L 98 89 - 111 40.0 Lead 0.42 J 38.7 ug/L 96 88 - 115 Silver ND 40.0 37.3 ug/L 93 70 - 130

Lab Sample ID: 280-196277-1 MS

Matrix: Water

Analysis Batch: 667276

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

Prep Batch: 666768

7 maryolo Batom co. 2. c	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Arsenic	ND		40.0	38.5		ug/L		96	79 - 120
Chromium	ND		40.0	39.5		ug/L		99	86 - 115
Copper	ND		40.0	39.6		ug/L		99	90 - 115
Manganese	ND	F1	40.0	42.8		ug/L		107	87 - 115
Nickel	ND		40.0	39.8		ug/L		100	86 - 115
Selenium	4.6	J	40.0	40.2		ug/L		89	85 - 114
Zinc	18		40.0	56.4		ug/L		96	88 - 115

Eurofins Denver

Page 13 of 23

2

3

6

8

10

12

13

14

9/18/2024

Client: Grand Island Resources Job ID: 280-196277-1

Project/Site: Nederland, CO

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: 280-196277-1 MSD Client Sample ID: OUTFALL-001

Matrix: Water Prep Type: Potentially Dissolved Analysis Batch: 667134

Prep Batch: 666768 %Rec **RPD** %Rec

Sample Sample Spike MSD MSD Result Qualifier Added Result Qualifier Limits RPD Limit Analyte Unit Cadmium ND 40.0 40.5 ug/L 101 89 - 111 3 20 Lead 0.42 J 40.0 39.9 ug/L 99 88 - 115 3 20 Silver ND 40.0 37.2 ug/L 93 70 - 130 20

Lab Sample ID: 280-196277-1 MSD Client Sample ID: OUTFALL-001

Matrix: Water Prep Type: Potentially Dissolved

Analysis Batch: 667276	s Batch: 667276		Prep			Prep Ba	Batch: 666768				
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Arsenic	ND		40.0	40.2		ug/L		100	79 - 120	4	20
Chromium	ND		40.0	39.8		ug/L		99	86 - 115	1	20
Copper	ND		40.0	40.3		ug/L		101	90 - 115	2	20
Manganese	ND	F1	40.0	46.6	F1	ug/L		117	87 - 115	9	20
Nickel	ND		40.0	40.2		ug/L		101	86 - 115	1	20
Selenium	4.6	J	40.0	40.7		ug/L		90	85 - 114	1	20
Zinc	18		40.0	62.9		ug/L		112	88 - 115	11	20

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 280-666799/1-A Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 667070

Prep Type: Total/NA

Prep Batch: 666799

MB MB

Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac 0.20 09/10/24 13:15 09/10/24 20:51 Mercury ND 0.061 ug/L

Lab Sample ID: LCS 280-666799/2-A

Matrix: Water

Analysis Batch: 667070

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

103

Prep Batch: 666799

Spike LCS LCS %Rec Added Result Qualifier Limits Analyte Unit D %Rec 5.00

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: MB 280-666801/4 Client Sample ID: Method Blank

5.16

Matrix: Water

Mercury

Analysis Batch: 666801

Prep Type: Total/NA

MB MB Analyte Result Qualifier RI MDL Unit Prepared Analyzed Dil Fac Specific Conductance ND 2.0 2.0 umhos/cm 09/09/24 16:15

Lab Sample ID: LCS 280-666801/3 Client Sample ID: Lab Control Sample Prep Type: Total/NA

Matrix: Water

Analysis Batch: 666801

Spike LCS LCS %Rec Added Limits Analyte Result Qualifier D %Rec Unit Specific Conductance 1410 1450 umhos/cm 103 90 - 110

Eurofins Denver

Client: Grand Island Resources Job ID: 280-196277-1

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

Lab Sample ID: MB 280-666766/1 Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 666766

Project/Site: Nederland, CO

MB MB

Result Qualifier RL **MDL** Unit Analyzed Dil Fac Analyte D Prepared 4.0 09/09/24 13:26 **Total Suspended Solids** ND 1.1 mg/L

Lab Sample ID: LCS 280-666766/2 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 666766

Spike LCS LCS %Rec Added Result Qualifier D %Rec Limits Unit 501 **Total Suspended Solids** 426 mg/L 85 79 - 114

Lab Sample ID: LCSD 280-666766/3 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Matrix: Water

Analysis Batch: 666766

Spike LCSD LCSD %Rec RPD Added Result Qualifier Limits **RPD** Analyte Unit %Rec Limit Total Suspended Solids 501 434 87 79 - 114 20 mg/L

Method: SM 3500 CR B - Chromium, Hexavalent

Lab Sample ID: MB 280-666625/3-A Client Sample ID: Method Blank **Prep Type: Dissolved**

Matrix: Water

Analysis Batch: 666628

MB MB

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Chromium, hexavalent ND ^+ 20 4.0 ug/L 09/06/24 17:13

Lab Sample ID: LCS 280-666625/1-A **Client Sample ID: Lab Control Sample Prep Type: Dissolved**

Matrix: Water

Analysis Batch: 666628

LCS LCS %Rec Spike Analyte Added Result Qualifier Unit Limits Chromium, hexavalent 100 109 ^+ ug/L 109 91 - 112

Lab Sample ID: LCSD 280-666625/2-A Client Sample ID: Lab Control Sample Dup **Prep Type: Dissolved**

Matrix: Water

Analysis Batch: 666628

LCSD LCSD RPD Spike %Rec Added Result Qualifier RPD Limit Analyte Unit %Rec Limits Chromium, hexavalent 100 102 ^+ 102 91 - 112 ug/L

Lab Sample ID: 280-196277-1 MS Client Sample ID: OUTFALL-001 **Prep Type: Dissolved**

Matrix: Water

Analysis Batch: 666628

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Unit %Rec Limits ND ^+ Chromium, hexavalent 100 102 102 ug/L 91 - 112

Eurofins Denver

9/18/2024

Prep Type: Total/NA

Client: Grand Island Resources Job ID: 280-196277-1 Project/Site: Nederland, CO

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

Lab Sample ID: 280-196277-1 MSD Client Sample ID: OUTFALL-001 **Prep Type: Dissolved**

Matrix: Water

Analysis Batch: 666628

Sample Sample Spike MSD MSD %Rec **RPD** Result Qualifier Result Qualifier Added Unit %Rec Limits RPD Limit Analyte ND ^+ 110 ^+ Chromium, hexavalent 100 ug/L 110 91 - 112 8 20

Lab Sample ID: 280-196277-1 DU Client Sample ID: OUTFALL-001 **Prep Type: Dissolved**

Matrix: Water

Analysis Batch: 666628

Sample Sample DU DU **RPD** Result Qualifier Analyte Result Qualifier Unit D RPD Limit ND ^+ ND ^+ Chromium, hexavalent ug/L NC 20

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 280-666808/4 **Client Sample ID: Lab Control Sample Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 666808

LCS LCS %Rec Spike Added Result Qualifier Limits Analyte Unit %Rec 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 280-667072/11 Client Sample ID: Method Blank **Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 667072

MB MB Analyte Result Qualifier RI **MDL** Unit Dil Fac Prepared Analyzed 0.050 Sulfide 0.022 mg/L 09/10/24 19:09 ND

Lab Sample ID: LCS 280-667072/9 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 667072

Spike LCS LCS %Rec Limits Analyte Added Result Qualifier Unit %Rec Sulfide 0.500 0.504 mg/L 101 81 - 122

Lab Sample ID: LCSD 280-667072/10 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Matrix: Water

Analysis Batch: 667072

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Sulfide 0.500 0.506 mg/L 101 81 - 122

Eurofins Denver

9/18/2024

QC Association Summary

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

Job ID: 280-196277-1

Metals

Prep Batch: 666725	p Batch: 666725	5
--------------------	-----------------	---

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-196277-1	OUTFALL-001	Total Recoverable	Water	200.8	
MB 280-666725/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-666725/22-A	Lab Control Sample	Total Recoverable	Water	200.8	
LCS 280-666725/2-A	Lab Control Sample	Total Recoverable	Water	200.8	

Filtration Batch: 666759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-666759/1-B	Method Blank	Potentially Dissolved	Water	Filtration	
LCS 280-666759/2-C	Lab Control Sample	Potentially Dissolved	Water	Filtration	

Filtration Batch: 666762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-196277-1	OUTFALL-001	Potentially Dissolved	Water	Poten_Diss_Met	
280-196277-1 MS	OUTFALL-001	Potentially Dissolved	Water	Poten_Diss_Met	
280-196277-1 MSD	OUTFALL-001	Potentially Dissolved	Water	Poten_Diss_Met	

Prep Batch: 666768

Lab Sample ID 280-196277-1	Client Sample ID OUTFALL-001	Prep Type Potentially Dissolved	Matrix Water	Method 200.8	Prep Batch 666762
MB 280-666759/1-B	Method Blank	Potentially Dissolvec	Water	200.8	666759
LCS 280-666759/2-C	Lab Control Sample	Potentially Dissolvec	Water	200.8	666759
280-196277-1 MS	OUTFALL-001	Potentially Dissolvec	Water	200.8	666762
280-196277-1 MSD	OUTFALL-001	Potentially Dissolvec	Water	200.8	666762

Prep Batch: 666799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-196277-1	OUTFALL-001	Total/NA	Water	245.1	
MB 280-666799/1-A	Method Blank	Total/NA	Water	245.1	
LCS 280-666799/2-A	Lab Control Sample	Total/NA	Water	245.1	

Analysis Batch: 666972

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-196277-1	OUTFALL-001	Total Recoverable	Water	200.8	666725
MB 280-666725/1-A	Method Blank	Total Recoverable	Water	200.8	666725
LCS 280-666725/22-A	Lab Control Sample	Total Recoverable	Water	200.8	666725

Analysis Batch: 667010

Lab Sample ID 280-196277-1	Client Sample ID OUTFALL-001	Prep Type Total Recoverable	Matrix Water	Method 200.7 Rev 4.4	Prep Batch 666725
MB 280-666725/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	666725
LCS 280-666725/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	666725

Analysis Batch: 667070

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-196277-1	OUTFALL-001	Total/NA	Water	245.1	666799
MB 280-666799/1-A	Method Blank	Total/NA	Water	245.1	666799
LCS 280-666799/2-A	Lab Control Sample	Total/NA	Water	245.1	666799

Analysis Batch: 667134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch				
280-196277-1	OUTFALL-001	Potentially Dissolved	Water	200.8	666768				

Eurofins Denver

Page 17 of 23

QC Association Summary

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

Job ID: 280-196277-1

Metals (Continued)

Analysis Batch: 667134 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-666759/1-B	Method Blank	Potentially Dissolved	Water	200.8	666768
LCS 280-666759/2-C	Lab Control Sample	Potentially Dissolvec	Water	200.8	666768
280-196277-1 MS	OUTFALL-001	Potentially Dissolved	Water	200.8	666768
280-196277-1 MSD	OUTFALL-001	Potentially Dissolved	Water	200.8	666768

Analysis Batch: 667276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-196277-1	OUTFALL-001	Potentially Dissolved	Water	200.8	666768
MB 280-666759/1-B	Method Blank	Potentially Dissolvec	Water	200.8	666768
LCS 280-666759/2-C	Lab Control Sample	Potentially Dissolvec	Water	200.8	666768
280-196277-1 MS	OUTFALL-001	Potentially Dissolvec	Water	200.8	666768
280-196277-1 MSD	OUTFALL-001	Potentially Dissolvec	Water	200.8	666768

General Chemistry

Filtration Batch: 666625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-196277-1	OUTFALL-001	Dissolved	Water	FILTRATION	
MB 280-666625/3-A	Method Blank	Dissolved	Water	FILTRATION	
LCS 280-666625/1-A	Lab Control Sample	Dissolved	Water	FILTRATION	
LCSD 280-666625/2-A	Lab Control Sample Dup	Dissolved	Water	FILTRATION	
280-196277-1 MS	OUTFALL-001	Dissolved	Water	FILTRATION	
280-196277-1 MSD	OUTFALL-001	Dissolved	Water	FILTRATION	
280-196277-1 DU	OUTFALL-001	Dissolved	Water	FILTRATION	

Analysis Batch: 666628

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-196277-1	OUTFALL-001	Dissolved	Water	SM 3500 CR B	666625
MB 280-666625/3-A	Method Blank	Dissolved	Water	SM 3500 CR B	666625
LCS 280-666625/1-A	Lab Control Sample	Dissolved	Water	SM 3500 CR B	666625
LCSD 280-666625/2-A	Lab Control Sample Dup	Dissolved	Water	SM 3500 CR B	666625
280-196277-1 MS	OUTFALL-001	Dissolved	Water	SM 3500 CR B	666625
280-196277-1 MSD	OUTFALL-001	Dissolved	Water	SM 3500 CR B	666625
280-196277-1 DU	OUTFALL-001	Dissolved	Water	SM 3500 CR B	666625

Analysis Batch: 666766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-196277-1	OUTFALL-001	Total/NA	Water	SM 2540D	
MB 280-666766/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 280-666766/2	Lab Control Sample	Total/NA	Water	SM 2540D	
LCSD 280-666766/3	Lab Control Sample Dup	Total/NA	Water	SM 2540D	

Analysis Batch: 666801

Lab Sample ID 280-196277-1	Client Sample ID OUTFALL-001	Prep Type Total/NA	Matrix Water	Method SM 2510B	Prep Batch
MB 280-666801/4	Method Blank	Total/NA	Water	SM 2510B	
LCS 280-666801/3	Lab Control Sample	Total/NA	Water	SM 2510B	

Analysis Batch: 666808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-196277-1	OUTFALL-001	Total/NA	Water	SM 4500 H+ B	

Eurofins Denver

Page 18 of 23

QC Association Summary

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

Job ID: 280-196277-1

General Chemistry (Continued)

Analysis Batch: 666808 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 280-666808/4	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 666814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
Lab Cample ID	Cheft Cample ID	1 leb lybe	Matrix	Metrioa	Fieb Datcii
280-196277-1	OUTFALL-001	Total/NA	Water	SM4500 S2 H	

Analysis Batch: 667072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-196277-1	OUTFALL-001	Total/NA	Water	SM 4500 S2 D	
MB 280-667072/11	Method Blank	Total/NA	Water	SM 4500 S2 D	
LCS 280-667072/9	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
LCSD 280-667072/10	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 D	

Analysis Batch: 667843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-196277-1	OUTFALL-001	Potentially Dissolved	Water	SM3500 CR B	
280-196277-1	OUTFALL-001	Total Recoverable	Water	SM3500 CR B	

Eurofins Denver

Lab Chronicle

Client: Grand Island Resources Job ID: 280-196277-1 Project/Site: Nederland, CO

Client Sample ID: OUTFALL-001

Date Received: 09/06/24 14:42

Lab Sample ID: 280-196277-1 Date Collected: 09/06/24 11:00 **Matrix: Water**

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			50 mL	50 mL	666725	09/09/24 15:37	KLG	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			667010	09/10/24 13:10	ADL	EET DEN
Potentially Dissolved	Filtration	Poten_Diss_Met			200 mL	200 mL	666762	09/09/24 13:07	AES	EET DEN
Potentially Dissolved	Prep	200.8			50 mL	50 mL	666768	09/10/24 14:49	AES	EET DEN
Potentially Dissolved	Analysis	200.8		1			667134	09/11/24 20:03	LMT	EET DEN
Potentially Dissolved	Filtration	Poten_Diss_Met			200 mL	200 mL	666762	09/09/24 13:07	AES	EET DEN
Potentially Dissolved	Prep	200.8			50 mL	50 mL	666768	09/10/24 14:49	AES	EET DEN
Potentially Dissolved	Analysis	200.8		1			667276	09/12/24 16:13	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	666725	09/09/24 15:37	KLG	EET DEN
Total Recoverable	Analysis	200.8		1			666972	09/11/24 00:20	LMT	EET DEN
Total/NA	Prep	245.1			30 mL	50 mL	666799	09/10/24 13:15	NKC	EET DEN
Total/NA	Analysis	245.1		1			667070	09/10/24 21:48	CAF	EET DEN
Total/NA	Analysis	SM 2510B		1			666801	09/09/24 16:15	EL	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	666766	09/09/24 13:26	BRD	EET DEN
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	666625	09/06/24 16:41	ABW	EET DEN
Dissolved	Analysis	SM 3500 CR B		1	2 mL	2 mL	666628	09/06/24 17:13	ABW	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			666808	09/09/24 13:51	EL	EET DEN
Total/NA	Analysis	SM 4500 S2 D		1	2 mL	2 mL	667072	09/10/24 19:20	ABW	EET DEN
Potentially Dissolved	Analysis	SM3500 CR B		1			667843	09/18/24 13:22	RMS	EET DEN
Total Recoverable	Analysis	SM3500 CR B		1			667843	09/18/24 13:22	RMS	EET DEN
Total/NA	Analysis	SM4500 S2 H		1			666814	09/10/24 00:32	P1C	EET DEN

Laboratory References:

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

Eurofins Denver

Accreditation/Certification Summary

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

Job ID: 280-196277-1

Laboratory: Eurofins Denver

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

Authority Dregon			Identification Number 4025	Expiration Date 01-08-25
· ·	NELAP 4025 01-08-25 alytes are included in this report, but the laboratory is not certified by the governing authority. This list may income does not offer certification.	ty. This list may include analytes		
Analysis Method	Prep Method	Matrix	Analyte	
SM 4500 H+ B	_ -	Water	Temperature	
SM3500 CR B		Water	Chromium, trivalent	
SM3500 CR B		Water	Chromium, trivalent (disse	olved)
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 Sul-	fide

3

4

5

9

4 4

Same No.

ひか/

Date/Time 24

Received by: Received by:

Company

Date/Time

Reimquished by

Government by

Coustody Seals Intact:

Coustody Seal No.:

Received by

Company

Time

Date:

Sombany

Company

Date/Time

Method of Shipment:

*First haif of the month potentially dissolved metals permit list = 200.8 (As, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, Zn)

Special Instructions/Note:

*First half of the month total recoverable metals permit list = 200.7 (Fe), 200.8 (As, Gd, Cr, Gu, Pb, Zn), and 245.1 (Hg)

N = None P = Na2048 P = Na2048 Q = Na2803 R = Na2803 R = Na2803 S = H2504 T = TEP Dedesphydrate V = MCAA W = pH 4:5

A - HGL B - NaCH C - Zn Acetate C - Zn Acetate E - NaHSO4 F - MaCH G - Amchlor H - Assorbic Acid

Compliance Project: A Yes A No

TAT Requested (days): Due Date Requested:

4dress 12567 West Cedar Drive Surte 110

Sompany Grand Island Resources

Preservation Codes

inver rem

🦫 eurofins

GOG Ne

Carrier Tracking Ne(s)

State of Origin:

Lab PW: Bieniulis, Dylan T E-Mait. Dylan.Bieniulis@et.eurofinsus.com

42

040

MUCC

Sampler Phone:

Phone (303) 736-0100 Phone (303) 431-7171

Arvada, CO 80002 4955 Yarrow Street

Client Information

Client Contact. John Rinko

Eurofins TestAmerica, Denver

Chain of Custody Record

Analysis Requested

Page. # qor Z - ether (specify)

l = lçe J = DI Water K = EDTA L = EDA

permit list) 200,7 // 200,8 // 245,1 - Total Recoverable Metals

Total Mumber of containers

(out to 29%) asmish midish

Project #: 28022821 850W#:

First half of the month event

ohnrinko@yahoo.com

Vederland, CO

(303) 601-9230

State, Zip CO, 80228 akewood

WO#

G=grab) | BT=Tissue, A=Air)

Preservation Code:

(

P1/201/P

Sample Identification
Page 22 of 23

(W=water, §=solld, O=waste/oll,

(C=comp, Sample Type

> Sample Time

> > Sample Date

Matrix

Observed visible sheen or floating oil?

Temp =

⊪Ha

Yes //(No (circle one)

280-196277 Chain of Custody

* If oil sheen observed in discharge, sampling for Oil&Grease required.

Months

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Mon

Disposal By Lab

Special Instructions/QC Requirements:

Radiological

Unknown

Poison B

Skin Irritant

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

Empty Kit Relinquished by:

Relinguished by

Elammable |

Possible Hazard Identification

Cooler Temperature(s) 'C and Other Remarks:

Client: Grand Island Resources Job Number: 280-196277-1

Login Number: 196277 List Source: Eurofins Denver

List Number: 1

Creator: Roehsner, Karen P

Greator. Roensher, Raren F		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	Received same day of collection; chilling process has begun.
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

PREPARED FOR

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

JOB DESCRIPTION

Generated 9/27/2024 3:41:28 PM

Nederland, CO

JOB NUMBER

280-196927-1

Eurofins Denver 4955 Yarrow Street Arvada CO 80002

Eurofins Denver

Job Notes

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

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

Authorization

Generated 9/27/2024 3:41:28 PM

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

Table of Contents

Cover Page	1
Table of Contents	3
Definitions	4
Case Narrative	5
Detection Summary	6
Method Summary	7
Sample Summary	8
Client Sample Results	9
QC Sample Results	10
QC Association	11
Chronicle	12
Certification Summary	13
Chain of Custody	14
Receipt Checklists	15

4

O

0

9

10

12

13

Definitions/Glossary

Client: Grand Island Resources

Job ID: 280-196927-1

Project/Site: Nederland, CO

Qualifiers

Metals

Qualifier Qualifier Description

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

Glossary

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

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins Denver

Case Narrative

Client: Grand Island Resources

Project: Nederland, CO

Eurofins Denver Job ID: 280-196927-1

Job Narrative 280-196927-1

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 9/19/2024 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 2.2°C.

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

Sample OUTFALL-001 (280-196927-1) was analyzed for Metals (ICP/MS) - Potentially Dissolved. The sample was prepared on 9/23/2024 and analyzed on 9/24/2024 and 9/26/2024.

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

Sample OUTFALL-001 (280-196927-1) was analyzed for Metals (ICP/MS) - Total Recoverable. The sample was prepared and analyzed on 9/23/2024.

Eurofins Denver

Page 5 of 15

Job ID: 280-196927-1

Detection Summary

Client: Grand Island Resources Project/Site: Nederland, CO Job ID: 280-196927-1

Client Sample ID: OUTFALL-001

Lab Sample ID: 280-196927-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	1.3	J	2.0	0.71	ug/L	1	_	200.8	Total
									Recoverable
Lead	0.69	J	1.0	0.23	ug/L	1		200.8	Total
									Recoverable
Copper	0.87	J	2.0	0.71	ug/L	1		200.8	Potentially
									Dissolved
Lead	1.0		1.0	0.23	ug/L	1		200.8	Potentially
									Dissolved
Silver	0.056	J	0.50	0.045	ug/L	1		200.8	Potentially
									Dissolved
Zinc	20		10	2.0	ug/L	1		200.8	Potentially
									Dissolved

-

5

6

10

11

13

Method Summary

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

Job ID: 280-196927-1

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: 280-196927-1

 Lab Sample ID
 Client Sample ID
 Matrix
 Collected
 Received

 280-196927-1
 OUTFALL-001
 Water
 09/19/24 11:30
 09/19/24 14:38

3

4

5

7

10

11

13

Client Sample Results

Client: Grand Island Resources

Job ID: 280-196927-1

Project/Site: Nederland, CO

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

Client Sample ID: OUTFALL-001 Lab Sample ID: 280-196927-1 Date Collected: 09/19/24 11:30 **Matrix: Water** Date Received: 09/19/24 14:38 Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Copper 2.0 0.71 ug/L 09/23/24 08:53 09/23/24 22:41 1.3 J 1.0 0.23 ug/L 09/23/24 08:53 09/23/24 22:41 Lead 0.69 J

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

Client Sample ID: OUTFAL Date Collected: 09/19/24 1 Date Received: 09/19/24 1	1:30					Lab Sam	ole ID: 280-19 Matrix	
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND ND	1.0	0.19	ug/L		09/23/24 15:06	09/24/24 19:02	1
Copper	0.87 J	2.0	0.71	ug/L		09/23/24 15:06	09/26/24 10:25	1
Lead	1.0	1.0	0.23	ug/L		09/23/24 15:06	09/24/24 19:02	1
Silver	0.056 J	0.50	0.045	ug/L		09/23/24 15:06	09/24/24 19:02	1
Zinc	20	10	2.0	ug/L		09/23/24 15:06	09/26/24 10:25	1

Job ID: 280-196927-1

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

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 280-668183/1-A

Matrix: Water

Analyte

Copper

Lead

Analysis Batch: 668498

Client Sample ID: Method Blank **Prep Type: Total Recoverable Prep Batch: 668183**

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Client Sample ID: Method Blank

Client Sample ID: Method Blank

Prep Type: Potentially Dissolved

MB MB Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac 2.0 ND 0.71 ug/L 09/23/24 08:53 09/23/24 22:02 ND 1.0 0.23 ug/L 09/23/24 08:53 09/23/24 22:02

Lab Sample ID: LCS 280-668183/2-A

Matrix: Water

Analysis Batch: 668498

Prep Batch: 668183 Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec

Limits Copper 40.0 40.7 ug/L 102 90 - 115 40.0 40.0 ug/L 100 88 - 115 Lead

Lab Sample ID: MB 280-668147/1-B

Matrix: Water

Prep Type: Potentially Dissolved

Prep Batch: 668292 Analysis Batch: 668580 MB MB

Result Qualifier RL **MDL** Unit Analyte Prepared Dil Fac Analyzed Cadmium ND 1.0 0.19 ug/L 09/23/24 15:06 09/24/24 18:44 1.0 ND Lead 0.23 ug/L 09/23/24 15:06 09/24/24 18:44 Silver ND 0.50 0.045 ug/L 09/23/24 15:06 09/24/24 18:44

Lab Sample ID: MB 280-668147/1-B

Matrix: Water

Analysis Batch: 668826

мв мв

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND	2.0	0.71	ug/L		09/23/24 15:06	09/26/24 09:14	1
Zinc .	ND	10	20	ua/l		09/23/24 15:06	09/26/24 09:14	1

Lab Sample ID: LCS 280-668147/2-B

Matrix: Water

Analysis Batch: 668580

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

Prep Batch: 668292

Prep Batch: 668292

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Cadmium	 40.0	39.6		ug/L		99	89 - 111	
Lead	40.0	40.8		ug/L		102	88 - 115	
Silver	40.0	37.8		ug/L		95	90 - 114	

Lab Sample ID: LCS 280-668147/2-B

Matrix: Water

Copper

Zinc

Analysis Batch: 668826

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

Prep Batch: 668292 Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits 40.0 90 - 115 40.7 ug/L 102 40.0 40.4 ug/L 101 88 - 115

Eurofins Denver

9/27/2024

QC Association Summary

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

Job ID: 280-196927-1

Metals

Filtration Batch: 668147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-196927-1	OUTFALL-001	Potentially Dissolved	Water	Poten_Diss_Met	
MB 280-668147/1-B	Method Blank	Potentially Dissolved	Water	Poten_Diss_Met	
LCS 280-668147/2-B	Lab Control Sample	Potentially Dissolved	Water	Poten_Diss_Met	

Prep Batch: 668183

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-196927-1	OUTFALL-001	Total Recoverable	Water	200.8	
MB 280-668183/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-668183/2-A	Lab Control Sample	Total Recoverable	Water	200.8	

Prep Batch: 668292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-196927-1	OUTFALL-001	Potentially Dissolved	Water	200.8	668147
MB 280-668147/1-B	Method Blank	Potentially Dissolvec	Water	200.8	668147
LCS 280-668147/2-B	Lab Control Sample	Potentially Dissolved	Water	200.8	668147

Analysis Batch: 668498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-196927-1	OUTFALL-001	Total Recoverable	Water	200.8	668183
MB 280-668183/1-A	Method Blank	Total Recoverable	Water	200.8	668183
LCS 280-668183/2-A	Lab Control Sample	Total Recoverable	Water	200.8	668183

Analysis Batch: 668580

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-196927-1	OUTFALL-001	Potentially Dissolved	Water	200.8	668292
MB 280-668147/1-B	Method Blank	Potentially Dissolvec	Water	200.8	668292
LCS 280-668147/2-B	Lab Control Sample	Potentially Dissolvec	Water	200.8	668292

Analysis Batch: 668826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-196927-1	OUTFALL-001	Potentially Dissolved	Water	200.8	668292
MB 280-668147/1-B	Method Blank	Potentially Dissolved	Water	200.8	668292
LCS 280-668147/2-B	Lab Control Sample	Potentially Dissolved	Water	200.8	668292

Lab Chronicle

Client: Grand Island Resources Job ID: 280-196927-1

Project/Site: Nederland, CO

Client Sample ID: OUTFALL-001 Lab Sample ID: 280-196927-1 Date Collected: 09/19/24 11:30

Matrix: Water

Date Received: 09/19/24 14:38

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Potentially Dissolved	Filtration	Poten_Diss_Met			1.0 mL	1.0 mL	668147	09/20/24 12:16	SLH	EET DEN
Potentially Dissolved	Prep	200.8			50 mL	50 mL	668292	09/23/24 15:06	KLG	EET DEN
Potentially Dissolved	Analysis	200.8		1			668826	09/26/24 10:25	LMT	EET DEN
Potentially Dissolved	Filtration	Poten_Diss_Met			1.0 mL	1.0 mL	668147	09/20/24 12:16	SLH	EET DEN
Potentially Dissolved	Prep	200.8			50 mL	50 mL	668292	09/23/24 15:06	KLG	EET DEN
Potentially Dissolved	Analysis	200.8		1			668580	09/24/24 19:02	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	668183	09/23/24 08:53	SMK	EET DEN
Total Recoverable	Analysis	200.8		1			668498	09/23/24 22:41	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: 280-196927-1

Project/Site: Nederland, CO

Laboratory: Eurofins Denver

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

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	4025	01-08-25

1

3

A

6

8

3

11

10

Eurotins TestAmerica, Denver					_				
430.7 raffow Street Arvada, CO 80002 Phone (303) 736-0100 Phone (303) 431-7171	Chain o	ot Custody Record	y Rec	ord				t c	
	Sampler: KAIRO 1 Q	2,50	Lab PM: Bieniulis, Dylan T	Dylan T		280-196927 Chain of Cited H			
Client Contact: John Rinko	FPADOSE SHOULD	224	E-Mail: Dylan.Bie	E-Mail: Dylan.Bieniulis@et.eurofinsus.com	State		ol Custody		
Ompany: Grand Island Resources		PWSID:	_	•	Analysis Requested		Job #:		-
Address: 12567 West Cedar Drive Suite 110	Due Date Requested:						Preservation Codes		4 000000000000000000000000000000000000
Oly: Lakewood	TAT Requested (days):						B - NaOH C - Zn Acetate	M - nexalle N - None O - AsNaO2	
State, Zip: CO, 80228	iance Project: △ Yes	Δ No					D - Nitric Acid E - NaHSO4		
Phone: (303) 601-9230	PO#:		(6				F - MeOH G - Amchlor H - Ascorbic Acid		
Email: Johnrinko@yahoo.com	WO#:		diameter de la constitución de l	SlateM					
	Project #: 28022821	4		pəvlo			K-EDTA	W - pH 4-5 Z - other (specify)	
Site: second half of the month event	SSOW#:			ly Diss t)			of cor		
		Sample Matrix Type (W=water, S=solid,	Filtered	MSM myo t - Potential th permit lis t - Total Rec it list)			l Mumber		
Sample Identification	Sample Date Time	(C=Comp, 0=waste/oil, G=grab) BT=Tissue, A=Air)	Field	200.8 nom 200.8				Special Instructions/Note:	
	X	Preservation Code:	ge:	٥			\times	\bigvee	
OUTFALL - 001	09/19/24 11:30	2	~	×			*Second half of the dissolved metals	*Second half of the month potentially dissolved metals permit list = 200.8 (Cd, Cu,	
							Pb, Ag, Zn)		
							*Second half of t metals permit list	*Second half of the month total recoverable metals permit list = 200.8 (Cu, Pb)	
									1971-001-001-00-001-00-001-00-00-00-00-00-0
							Temo-	J. E =	•
							7Hd	ナナ	,
							parisego	duisible sheen	ठ
							Floating	8/150 4	
							1) sak	20 (circle o	
							* FF 011 SI	sheen observed in	fischorge
							Schopling	For oll & yrease	
Possible Hazard Identification Non-Hazard — Flammable — Skin Irritant — Poison B	Unknown	Radiological	0,	ample Disposal (/ Return To Clie	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Return To Client Disposal By Lab Mor	if samples are re	tained longer than	1 month) Months	
Deliverable Requested: I, II, III, IV, Other (specify)			0)	Special Instructions/QC Requirements:	2C Requirements:				
Empty Kit Relinquished by:	Date:		Time:		Meth	Method of Shipment:			
Relinquished by:	Date/Time:	Сотрапу	λí	Received by:		Date/Time:		Company	
Relinquished by:	Date/Time:	Сомрапу	Á	Received by:		Date/Time:		Company	
Relinquished by: Marchalage	Date/Time 1974	Company	31K	Received by:	Ø.	Date/Time:	8541/28	Company	
Custody Seals Intact: Custody Seal No.: A Yes A No				Cooler Temperature(s) °C	s) c and Other Remarks:	112/ch	(Cro)		
				1	3			Ver: 01/16/2019	

Login Sample Receipt Checklist

Client: Grand Island Resources Job Number: 280-196927-1

Login Number: 196927 List Source: Eurofins Denver

List Number: 1

Creator: Little, Matthew L

Creator: Little, Matthew L		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	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	

A

<u>و</u>

9

11

40

APPENDIX C SURFACE WATER ANALYTICAL RESULTS

PREPARED FOR

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

Generated 10/2/2024 5:12:54 PM

JOB DESCRIPTION

Nederland, CO - Surface Water

JOB NUMBER

280-197037-1

Eurofins Denver 4955 Yarrow Street Arvada CO 80002

Eurofins Denver

Job Notes

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

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

Authorization

Generated 10/2/2024 5:12:54 PM

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

Table of Contents

Cover Page	1
Table of Contents	3
Definitions	4
Case Narrative	5
Detection Summary	6
Method Summary	7
Sample Summary	8
Client Sample Results	9
QC Sample Results	11
QC Association	16
Chronicle	19
Certification Summary	
Chain of Custody	21
Receipt Checklists	22

3

4

6

9

11

12

Definitions/Glossary

Client: Grand Island Resources

Job ID: 280-197037-1 Project/Site: Nederland, CO - Surface Water

Qualifiers

ΝЛ	212	10
IVI	HIA	1.5

Qualifier **Qualifier Description** MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not

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

General Chemistry

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

Glossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
n	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery

CFL Contains Free Liquid CFU Colony Forming Unit **CNF** Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) Limit of Quantitation (DoD/DOE) LOQ

EPA recommended "Maximum Contaminant Level" MCL MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit Minimum Level (Dioxin) ML MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present PQL Practical Quantitation Limit

PRES Presumptive

QC

Quality Control RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins Denver

Page 4 of 22 10/2/2024

Case Narrative

Client: Grand Island Resources
Project: Nederland, CO - Surface Water

Job ID: 280-197037-1

Tojou. Nederland, 00 Odrido Water

Job Narrative 280-197037-1

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 samples were received on 9/23/2024 4:25 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 3.5°C, 5.0°C and 5.1°C.

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

Samples 2022-02 (280-197037-1) and 2022-02-02 (280-197037-2) were analyzed for Metals (ICP) - Total Recoverable. The samples were prepared on 9/26/2024 and analyzed on 9/30/2024.

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

Samples 2022-02 (280-197037-1) and 2022-02-02 (280-197037-2) were analyzed for Metals (ICP/MS) - Potentially Dissolved. The samples were prepared and analyzed on 9/26/2024.

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

Samples 2022-02 (280-197037-1) and 2022-02-02 (280-197037-2) were analyzed for Metals (ICP/MS) - Total Recoverable. The samples were prepared on 9/26/2024 and analyzed on 9/26/2024 and 9/27/2024.

Method 245.1 - Mercury (CVAA)

Samples 2022-02 (280-197037-1) and 2022-02-02 (280-197037-2) were analyzed for Mercury (CVAA). The samples were prepared on 9/27/2024 and analyzed on 9/28/2024.

Method SM 2510B - Conductivity, Specific Conductance

Samples 2022-02 (280-197037-1) and 2022-02-02 (280-197037-2) were analyzed for Conductivity, Specific Conductance. The samples were analyzed on 9/30/2024.

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

Samples 2022-02 (280-197037-1) and 2022-02-02 (280-197037-2) were analyzed for Solids, Total Suspended (TSS). The samples were analyzed on 9/24/2024.

Method SM 4500 H+ B - pH

Samples 2022-02 (280-197037-1) and 2022-02-02 (280-197037-2) were analyzed for pH. The samples were analyzed on 9/24/2024 and 9/25/2024.

Eurofins Denver

Page 5 of 22 10/2/2024

2

Job ID: 280-197037-1

Eurofins Denver

3

4

5

7

8

4.0

1 0

12

13

Detection Summary

Client: Grand Island Resources

Client Sample ID: 2022-02

Total Suspended Solids

pH adj. to 25 deg C

Temperature

Project/Site: Nederland, CO - Surface Water

Lab Sample ID: 280-197037-1

SM 2540D

SM 4500 H+ B

SM 4500 H+ B

Job ID: 280-197037-1

Analyte		Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron		67	J	100	9.1	ug/L	1	_	200.7 Rev 4.4	Total
										Recoverable
Cadmium		0.33	J	1.0	0.19	ug/L	1		200.8	Total
										Recoverable
Copper		0.81	J	2.0	0.71	ug/L	1		200.8	Total
										Recoverable
Lead		0.66	J	1.0	0.23	ug/L	1		200.8	Total
										Recoverable
Zinc, Total		15		10	2.0	ug/L	1		200.8	Total
										Recoverable
Lead		0.36	J	1.0	0.23	ug/L	1		200.8	Potentially
										Dissolved
Manganes	е	2.3	J	3.0	0.51	ug/L	1		200.8	Potentially
										Dissolved
Zinc		23		10	2.0	ug/L	1		200.8	Potentially
										Dissolved
Specific Co	onductance	230		2.0	2.0	umhos/cm	1		SM 2510B	Total/NA

Client Sample ID: 2022-02-02 Lab Sample ID: 280-197037-2

4.0

0.1

1.0

1.1 mg/L

1.0 Degrees C

0.1 SU

1.6 J

8.1 HF

19.6 HF

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	69	J	100	9.1	ug/L	1	_	200.7 Rev 4.4	Total
									Recoverable
Lead	0.64	J	1.0	0.23	ug/L	1		200.8	Total
									Recoverable
Zinc, Total	17		10	2.0	ug/L	1		200.8	Total
									Recoverable
Lead	0.46	J	1.0	0.23	ug/L	1		200.8	Potentially
									Dissolved
Manganese	3.6		3.0	0.51	ug/L	1		200.8	Potentially
									Dissolved
Zinc	19		10	2.0	ug/L	1		200.8	Potentially
									Dissolved
Specific Conductance	230		2.0	2.0	umhos/cm	1		SM 2510B	Total/NA
pH adj. to 25 deg C	8.1	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Temperature	20.9	HF	1.0	1.0	Degrees C	1		SM 4500 H+ B	Total/NA

This Detection Summary does not include radiochemical test results.

9

7

9

10

12

Total/NA

Total/NA

Total/NA

13

Method Summary

Client: Grand Island Resources

Project/Site: Nederland, CO - Surface Water

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 4500 H+ B	pH	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
Poten_Diss_Met	Filtration for Potentially Dissolved Metals	EPA	EET DEN

Protocol References:

EPA = US Environmental Protection Agency

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

Job ID: 280-197037-1

3

4

_

1 1

Sample Summary

Client: Grand Island Resources

Project/Site: Nederland, CO - Surface Water

 Lab Sample ID
 Client Sample ID
 Matrix
 Collected
 Received

 280-197037-1
 2022-02
 Water
 09/23/24 10:00
 09/23/24 16:25

 280-197037-2
 2022-02-02
 Water
 09/23/24 10:00
 09/23/24 16:25

Job ID: 280-197037-1

A

5

7

10

11

13

Client: Grand Island Resources

Project/Site: Nederland, CO - Surface Water

Job ID: 280-197037-1

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

Lab Sample ID: 280-197037-1 Client Sample ID: 2022-02 **Matrix: Water**

Date Collected: 09/23/24 10:00 Date Received: 09/23/24 16:25

RL **MDL** Unit Analyte Result Qualifier D Prepared Analyzed Dil Fac 100 9.1 ug/L 09/26/24 08:29 09/30/24 14:29 Iron 67 J

Client Sample ID: 2022-02-02 Lab Sample ID: 280-197037-2

Date Collected: 09/23/24 10:00 Date Received: 09/23/24 16:25

Analyte Result Qualifier RL **MDL** Unit D Prepared Analyzed Dil Fac 100 9.1 ug/L 09/26/24 08:29 09/30/24 14:33 Iron 69 J

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

Client Sample ID: 2022-02 Lab Sample ID: 280-197037-1 Date Collected: 09/23/24 10:00 **Matrix: Water**

Date Received: 09/23/24 16:25

Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Cadmium 0.33 J 1.0 0.19 ug/L 09/26/24 08:29 09/26/24 20:14 2.0 0.71 ug/L 09/26/24 08:29 09/27/24 10:12 Copper 0.81 J 1.0 09/26/24 08:29 09/26/24 20:14 Lead 0.66 J 0.23 ug/L Zinc, Total 10 2.0 ug/L 09/26/24 08:29 09/26/24 20:14 15

Client Sample ID: 2022-02-02 Lab Sample ID: 280-197037-2 Date Collected: 09/23/24 10:00 **Matrix: Water**

Date Received: 09/23/24 16:25

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		1.0	0.19	ug/L		09/26/24 08:29	09/26/24 20:18	1
Copper	ND		2.0	0.71	ug/L		09/26/24 08:29	09/27/24 10:16	1
Lead	0.64	J	1.0	0.23	ug/L		09/26/24 08:29	09/26/24 20:18	1
Zinc, Total	17		10	2.0	ug/L		09/26/24 08:29	09/26/24 20:18	1

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

Lab Sample ID: 280-197037-1 Client Sample ID: 2022-02 Date Collected: 09/23/24 10:00 **Matrix: Water**

Date Received: 09/23/24 16:25

Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ND ND	2.0	0.71	ug/L		09/26/24 08:29	09/26/24 18:27	1
0.36 J	1.0	0.23	ug/L		09/26/24 08:29	09/26/24 18:27	1
2.3 J	3.0	0.51	ug/L		09/26/24 08:29	09/26/24 18:27	1
ND	3.0	0.83	ug/L		09/26/24 08:29	09/26/24 18:27	1
ND	0.50	0.045	ug/L		09/26/24 08:29	09/26/24 18:27	1
23	10	2.0	ug/L		09/26/24 08:29	09/26/24 18:27	1
	Result Qualifier ND 0.36 J 2.3 J ND ND	Result ND Qualifier RL 0.36 J 1.0 2.3 J 3.0 ND 3.0 ND 0.50	Result ND Qualifier RL 2.0 MDL 0.71 0.36 J 1.0 0.23 2.3 J 3.0 0.51 ND 3.0 0.83 ND 0.50 0.045	Result ND Qualifier RL MDL ug/L 0.36 J 1.0 0.23 ug/L 2.3 J 3.0 0.51 ug/L ND 3.0 0.83 ug/L ND 0.50 0.045 ug/L	Result Qualifier RL MDL Unit D 0.36 J 1.0 0.23 ug/L 2.3 J 3.0 0.51 ug/L ND 3.0 0.83 ug/L ND 0.50 0.045 ug/L	Result Qualifier RL MDL Unit D Prepared ND 2.0 0.71 ug/L 09/26/24 08:29 0.36 J 1.0 0.23 ug/L 09/26/24 08:29 2.3 J 3.0 0.51 ug/L 09/26/24 08:29 ND 3.0 0.83 ug/L 09/26/24 08:29 ND 0.50 0.045 ug/L 09/26/24 08:29	Result Qualifier RL MDL unit D unit D prepared 09/26/24 08:29 Analyzed 09/26/24 18:27 0.36 J 1.0 0.23 ug/L 09/26/24 08:29 09/26/24 18:27 2.3 J 3.0 0.51 ug/L 09/26/24 08:29 09/26/24 18:27 ND 3.0 0.83 ug/L 09/26/24 08:29 09/26/24 18:27 ND 0.50 0.045 ug/L 09/26/24 08:29 09/26/24 18:27

Client Sample ID: 2022-02-02 Lab Sample ID: 280-197037-2 Date Collected: 09/23/24 10:00 **Matrix: Water**

Data Danaissads 00/22/24 46:25

Date Received: 09/23/24 16:25									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		2.0	0.71	ug/L		09/26/24 08:29	09/26/24 18:30	1
Lead	0.46	J	1.0	0.23	ug/L		09/26/24 08:29	09/26/24 18:30	1
Manganese	3.6		3.0	0.51	ug/L		09/26/24 08:29	09/26/24 18:30	1
Nickel	ND		3.0	0.83	ug/L		09/26/24 08:29	09/26/24 18:30	1
Silver	ND		0.50	0.045	ug/L		09/26/24 08:29	09/26/24 18:30	1
Zinc	19		10	2.0	ug/L		09/26/24 08:29	09/26/24 18:30	1
	Analyte Copper Lead Manganese Nickel Silver	Analyte Result Copper ND Lead 0.46 Manganese 3.6 Nickel ND Silver ND	Analyte Result Qualifier Copper ND Lead 0.46 J Manganese 3.6 Nickel ND Silver ND	Analyte Result Copper Qualifier RL Copper ND 2.0 Lead 0.46 J 1.0 Manganese 3.6 3.0 Nickel ND 3.0 Silver ND 0.50	Analyte Result Oualifier Qualifier RL Oubline MDL Oubline Copper ND 2.0 0.71 Lead 0.46 J 1.0 0.23 Manganese 3.6 3.0 0.51 Nickel ND 3.0 0.83 Silver ND 0.50 0.045	Analyte Result Copper Qualifier RL ND MDL Unit Ug/L Ug/L Ug/L Lead 0.46 J 1.0 0.23 ug/L Manganese 3.6 3.0 0.51 ug/L Nickel ND 3.0 0.50 0.65 ug/L Silver ND 0.50 0.045 ug/L	Analyte Result Copper Qualifier RL R	Analyte Result Copper Qualifier RL RL D.	Analyte Result Qualifier RL MDL unit Unit D Prepared 09/26/24 08:29 Analyzed 09/26/24 18:30 Copper ND 2.0 0.71 ug/L 09/26/24 08:29 09/26/24 18:30 Lead 0.46 J 1.0 0.23 ug/L 09/26/24 08:29 09/26/24 18:30 Manganese 3.6 3.0 0.51 ug/L 09/26/24 08:29 09/26/24 18:30 Nickel ND 3.0 0.83 ug/L 09/26/24 08:29 09/26/24 18:30 Silver ND 0.50 0.045 ug/L 09/26/24 08:29 09/26/24 18:30

Eurofins Denver

Matrix: Water

Page 9 of 22 10/2/2024

Client Sample Results

Client: Grand Island Resources

Project/Site: Nederland, CO - Surface Water

Job ID: 280-197037-1

Matrix: Water

Method: EPA 245.1 - Mercury (CVAA)

Client Sample ID: 2022-02	Lab Sample ID: 280-197037-1
Date Collected: 09/23/24 10:00	Matrix: Water

Date Collected: 09/23/24 10:00 Date Received: 09/23/24 16:25

Analyte RL MDL Unit Prepared Result Qualifier **Analyzed** Dil Fac Mercury ND 0.20 0.061 ug/L 09/27/24 18:35 09/28/24 01:42

Client Sample ID: 2022-02-02 Lab Sample ID: 280-197037-2

Date Collected: 09/23/24 10:00 Date Received: 09/23/24 16:25

Analyte Result Qualifier RL **MDL** Unit D Prepared Analyzed Dil Fac ND 0.20 09/27/24 18:35 09/28/24 01:50 Mercury 0.061 ug/L

General Chemistry

Client Sample ID: 2022-02 Lab Sample ID: 280-197037-1 Date Collected: 09/23/24 10:00 **Matrix: Water**

Date Received: 09/23/24 16:25

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (SM 2510B)	230		2.0	2.0	umhos/cm			09/30/24 13:10	1
Total Suspended Solids (SM 2540D)	1.6	J	4.0	1.1	mg/L			09/24/24 12:49	1
pH adj. to 25 deg C (SM 4500 H+ B)	8.1	HF	0.1	0.1	SU			09/25/24 13:44	1
Temperature (SM 4500 H+ B)	19.6	HF	1.0	1.0	Degrees C			09/25/24 13:44	1

Client Sample ID: 2022-02-02 Lab Sample ID: 280-197037-2 **Matrix: Water** Date Collected: 09/23/24 10:00

	Date Received: 09/23/24 16:25									
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Specific Conductance (SM 2510B)	230		2.0	2.0	umhos/cm			09/30/24 13:10	1
	Total Suspended Solids (SM 2540D)	ND		4.0	1.1	mg/L			09/24/24 12:49	1
	pH adj. to 25 deg C (SM 4500 H+ B)	8.1	HF	0.1	0.1	SU			09/24/24 17:58	1
ı	Temperature (SM 4500 H+ B)	20.9	HF	1.0	1.0	Degrees C			09/24/24 17:58	1

Job ID: 280-197037-1

Client Sample ID: Matrix Spike Duplicate

Client Sample ID: Lab Control Sample Dup

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total Recoverable

Prep Type: Total/NA

Prep Batch: 668670

Prep Batch: 668670

Client: Grand Island Resources

Project/Site: Nederland, CO - Surface Water

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: 280-196967-A-1-B MS Client Sample ID: Matrix Spike

Matrix: Water

Analysis Batch: 669244

Prep Type: Total/NA **Prep Batch: 668670** Sample Sample Spike MS MS %Rec

Result Qualifier Result Qualifier Added Limits Analyte Unit %Rec 10000 Iron 610 11200 ug/L 106 70 - 130

Lab Sample ID: 280-196967-A-1-C MSD

Matrix: Water

Analysis Batch: 669244

Prep Batch: 668670 Sample Sample Spike MSD MSD %Rec **RPD** Result Qualifier Added Result Qualifier D %Rec Limits RPD Limit Analyte Unit 10000 70 - 130 Iron 610 11200 ug/L 106

Lab Sample ID: MB 280-668670/1-A Client Sample ID: Method Blank **Matrix: Water Prep Type: Total Recoverable**

Analysis Batch: 669244

MB MB

RL **MDL** Unit Analyte Result Qualifier Prepared Analyzed Dil Fac Iron ND 100 9.1 ug/L 09/26/24 08:29 09/30/24 13:35

Lab Sample ID: LCS 280-668670/2-A **Client Sample ID: Lab Control Sample Prep Type: Total Recoverable**

Matrix: Water

Analysis Batch: 669244

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit %Rec Limits 10000 10500 85 - 115 Iron ug/L 105

Lab Sample ID: LCSD 280-668670/3-A

Matrix: Water

Analysis Batch: 669244

Prep Batch: 668670 LCSD LCSD Spike %Rec **RPD** Added Limits Analyte Result Qualifier Unit %Rec Limit 10000 10500 Iron ug/L 105 85 - 115 20

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: 280-197096-D-4-B MS **Client Sample ID: Matrix Spike Matrix: Water** Prep Type: Total/NA

Analysis Batch: 668917

Prep Batch: 668670 MS MS %Rec Sample Sample Spike Result Qualifier Added Analyte Result Qualifier Unit %Rec Limits Cadmium ND 40.0 39.0 97 89 - 111 ug/L Copper 0.81 40.0 37.1 ug/L 91 90 - 115 ug/L Lead ND 40.0 39.5 99 88 _ 115 Zinc, Total 4.2 J 40.0 40.3 ug/L 88 - 115

Lab Sample ID: 280-197096-D-4-C MSD

Matrix: Water

Analysis Batch: 668917									Prep Ba	•	
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Cadmium	ND		40.0	38.7		ug/L		97	89 - 111	1	20
Copper	0.81	J	40.0	38.0		ug/L		93	90 - 115	2	20
Lead	ND		40.0	39.7		ug/L		99	88 - 115	0	20

Eurofins Denver

Prep Type: Total/NA

Page 11 of 22

Client: Grand Island Resources Job ID: 280-197037-1

Project/Site: Nederland, CO - Surface Water

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

Lab Sample ID: 280-197096-D-4-C MSD **Client Sample ID: Matrix Spike Duplicate Matrix: Water** Prep Type: Total/NA **Analysis Batch: 668917 Prep Batch: 668670** MSD MSD %Rec **RPD** Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit Zinc, Total 4 2 40.0 41.5 ug/L 93 88 - 115 20

Lab Sample ID: MB 280-668670/1-A

Matrix: Water

Analysis Batch: 668917

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 668670

MB MB

Analyte Result Qualifier RL **MDL** Unit Prepared Dil Fac Analyzed Cadmium ND 1.0 0.19 ug/L 09/26/24 08:29 09/26/24 19:52 ND 1.0 09/26/24 08:29 09/26/24 19:52 Lead 0.23 ug/L ND 10 09/26/24 08:29 09/26/24 19:52 Zinc, Total 2.0 ug/L

Lab Sample ID: MB 280-668670/1-A

Matrix: Water

Analysis Batch: 668980

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 668670

MB MB

 Analyte
 Result
 Qualifier
 RL
 MDL
 Unit
 D
 Prepared
 Analyzed
 Dil Fac

 Copper
 ND
 2.0
 0.71
 ug/L
 09/26/24 08:29
 09/27/24 09:55
 1

Lab Sample ID: LCS 280-668670/24-A

Matrix: Water

Analysis Batch: 668917

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 668670

LCS LCS Spike %Rec **Analyte** Added Result Qualifier Unit D %Rec Limits Cadmium 40.0 41.1 103 89 - 111 ug/L 40.0 41.5 ug/L 104 Lead 88 - 115 Zinc, Total 40.0 39.6 ug/L 99 88 - 115

Lab Sample ID: LCS 280-668670/24-A

Matrix: Water

Analysis Batch: 668980

Spike

LCS LCS

Rec

Analysis LCS LCS

Rec

Analysis Batch: Prep Batch: 668670

Analyte Added Result Qualifier Unit Ug/L 101 90 - 115

Lab Sample ID: LCSD 280-668670/25-A Client Sample ID: Lab Control Sample Dup **Matrix: Water Prep Type: Total Recoverable Analysis Batch: 668917 Prep Batch: 668670** Spike LCSD LCSD %Rec **RPD** Analyte Added Result Qualifier Unit %Rec Limits **RPD** Cadmium 40.0 39.8 ug/L 100 89 - 111

 Analyte
 Added Cadmium
 Result Qualifier Unit ug/L
 Unit Ug/L
 D %Rec New Mercond (No. 100 No. 100 No.

Lab Sample ID: LCSD 280-668670/25-A Client Sample ID: Lab Control Sample Dup **Matrix: Water Prep Type: Total Recoverable Analysis Batch: 668980 Prep Batch: 668670** Spike LCSD LCSD %Rec **RPD** Added Result Qualifier Unit %Rec Limits Limit **Analyte RPD** 40.0 40.6 101 90 - 115 Copper ug/L

Eurofins Denver

10/2/2024

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

Lab Sample ID: 280-197052-E-1-E MS

Matrix: Water

Analysis Batch: 668917

Client Sample ID: Matrix Spike Prep Type: Dissolved

Prep Batch: 668560

•	Sample Sa	ample Spike	MS	MS			%Rec
Analyte	Result Qu	ualifier Added	Result	Qualifier	Unit E	%Rec	Limits
Copper	1.0 J	40.0	38.8		ug/L	95	90 - 115
Lead	ND	40.0	39.6		ug/L	99	88 - 115
Manganese	1900	40.0	1920	4	ug/L	44	87 - 115
Nickel	7.4	40.0	44.7		ug/L	93	86 - 115
Silver	ND	40.0	37.2		ug/L	93	70 - 130
Zinc	2.1 J	40.0	40.2		ug/L	95	88 - 115

Lab Sample ID: 280-197052-E-1-F MSD

Matrix: Water

Analysis Batch: 668917

Client Sample ID: Matrix Spike Duplicate

Prep Type: Dissolved

Prep Batch: 668560

Analysis Daten. 000317									i ieb De	iton. ot	70300
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Copper	1.0	J	40.0	38.3		ug/L		93	90 - 115	1	20
Lead	ND		40.0	39.4		ug/L		99	88 - 115	0	20
Manganese	1900		40.0	1940	4	ug/L		75	87 - 115	1	20
Nickel	7.4		40.0	44.6		ug/L		93	86 - 115	0	20
Silver	ND		40.0	36.0		ug/L		90	70 - 130	3	20
Zinc	2.1	J	40.0	38.9		ug/L		92	88 - 115	3	20

Lab Sample ID: MB 280-668552/1-B

Matrix: Water

Analysis Batch: 668917

Client Sample ID: Method Blank **Prep Type: Potentially Dissolved**

Prep Batch: 668560

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		2.0	0.71	ug/L		09/26/24 08:29	09/26/24 18:16	1
Lead	ND		1.0	0.23	ug/L		09/26/24 08:29	09/26/24 18:16	1
Manganese	ND		3.0	0.51	ug/L		09/26/24 08:29	09/26/24 18:16	1
Nickel	ND		3.0	0.83	ug/L		09/26/24 08:29	09/26/24 18:16	1
Silver	ND		0.50	0.045	ug/L		09/26/24 08:29	09/26/24 18:16	1
Zinc	ND		10	2.0	ug/L		09/26/24 08:29	09/26/24 18:16	1

Lab Sample ID: LCS 280-668552/2-B

Matrix: Water

Analysis Batch: 668917

Client Sample ID: Lab Control Sample Prep Type: Potentially Dissolved Prep Batch: 668560

Analysis Batch. 600317	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Copper	40.0	40.7		ug/L		102	90 - 115
Lead	40.0	40.6		ug/L		101	88 - 115
Manganese	40.0	38.4		ug/L		96	87 - 115
Nickel	40.0	40.4		ug/L		101	86 - 115
Silver	40.0	38.0		ug/L		95	90 - 114
Zinc	40.0	39.7		ug/L		99	88 - 115

Eurofins Denver

Job ID: 280-197037-1

Client: Grand Island Resources

Project/Site: Nederland, CO - Surface Water

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 280-668997/1-A

Matrix: Water

Analysis Batch: 669211

Analyte

MB MB Result Qualifier

ND

RL 0.20

MDL Unit 0.061 ug/L

Prepared

Client Sample ID: Lab Control Sample

Client Sample ID: Method Blank

Analyzed Dil Fac 09/27/24 18:35 09/28/24 00:36

> Prep Type: Total/NA **Prep Batch: 668997**

Prep Type: Total/NA

Prep Batch: 668997

Prep Type: Total/NA

Prep Batch: 668997

Prep Type: Total/NA **Prep Batch: 668997**

Lab Sample ID: LCS 280-668997/2-A

Matrix: Water

Mercury

Analyte

Mercury

Analyte

Mercury

Analysis Batch: 669211

Spike Added 5.00

5.07

LCS LCS

Result Qualifier

Unit ug/L

D %Rec 101

Limits 90 - 110

%Rec

Client Sample ID: Matrix Spike

%Rec

Lab Sample ID: 140-38596-G-1-E MS

Matrix: Water

Analysis Batch: 669211

Lab Sample ID: 140-38596-G-1-F MSD

Sample Sample

Spike Result Qualifier ND

Added 5.00

Result Qualifier 5.10

MS MS

MSD MSD

Unit ug/L

%Rec

Limits 80 - 120

Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Analysis Batch: 669211

Analyte

Sample Sample Result Qualifier ND

Spike Added 5.00

4.92

Result Qualifier

Unit D %Rec ug/L

Limits 80 - 120

Client Sample ID: Method Blank

%Rec

RPD Limit

RPD

Mercury

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: MB 280-669199/4 **Matrix: Water**

Analysis Batch: 669199

MB MB

Analyte Specific Conductance Result Qualifier ND

RL 2.0 **MDL** Unit 2.0 umhos/cm

Prepared

Analyzed 09/30/24 13:10

Prep Type: Total/NA

Dil Fac

Lab Sample ID: LCS 280-669199/3

Matrix: Water

Analysis Batch: 669199

Analyte Specific Conductance

Spike Added 1410

LCS LCS Result Qualifier 1450

Unit umhos/cm

%Rec %Rec Limits 103 90 - 110

Client Sample ID: Lab Control Sample

Client Sample ID: Duplicate Prep Type: Total/NA

Prep Type: Total/NA

Lab Sample ID: 280-197194-F-1 DU **Matrix: Water**

Analysis Batch: 669199

Specific Conductance

Sample Sample Result Qualifier 2100

DU DU Result Qualifier 2110

Unit umhos/cm RPD 0.3

Limit

RPD

Job ID: 280-197037-1

Prep Type: Total/NA

Client Sample ID: Duplicate

Prep Type: Total/NA

Project/Site: Nederland, CO - Surface Water

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

Lab Sample ID: MB 280-668493/1 Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 668493

Client: Grand Island Resources

MB MB

Result Qualifier RL **MDL** Unit Analyzed Dil Fac Analyte **Prepared** 4.0 09/24/24 12:49 **Total Suspended Solids** ND 1.1 mg/L

Lab Sample ID: LCS 280-668493/2 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 668493

Spike LCS LCS %Rec Added Result Qualifier Unit D %Rec Limits 503 **Total Suspended Solids** 460 mg/L 91 79 - 114

Lab Sample ID: 280-197021-C-1 DU **Client Sample ID: Duplicate** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 668493

DU DU RPD Sample Sample Result Qualifier Result Qualifier **RPD** Limit Analyte Unit Total Suspended Solids 15 16.0 10 mg/L

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 280-668550/4 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 668550

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

Lab Sample ID: 280-197026-C-1 DU

Matrix: Water

Analysis Batch: 668550

•	Sample	Sample	DU	DU				RPD	
Analyte	Result	Qualifier	Result	Qualifier	Unit	D	RPD	Limit	
pH adj. to 25 deg C	7.1		7.2		SU		 0.3	5	
Temperature	20.7		20.6		Degrees C		0.7	10	

Lab Sample ID: LCS 280-668690/4 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 668690

Analysis Baton. 00000								
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
pH adj. to 25 deg C	7.00	7.0		SU		100	99 - 101	

Lab Sample ID: 280-197092-D-1 DU **Client Sample ID: Duplicate** Prep Type: Total/NA

Matrix: Water

Analysis Ratch: 668690

Alialysis Datcii. 000030								
	Sample	Sample	DU	DU				RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D	RPD	Limit
pH adj. to 25 deg C	7.6		7.7		SU	_	1	5
Temperature	19.7		19.3		Degrees C		2	10

Eurofins Denver

10/2/2024

QC Association Summary

Client: Grand Island Resources

Project/Site: Nederland, CO - Surface Water

Metals

Filtration	Ratch	662397
ı ılu auvii	Datell.	000337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197037-1	2022-02	Potentially Dissolved	Water	Poten_Diss_Met	
280-197037-2	2022-02-02	Potentially Dissolvec	Water	Poten_Diss_Met	

Filtration Batch: 668552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-668552/1-B	Method Blank	Potentially Dissolved	Water	Filtration	
LCS 280-668552/2-B	Lab Control Sample	Potentially Dissolvec	Water	Filtration	
280-197052-E-1-E MS	Matrix Spike	Dissolved	Water	Filtration	
280-197052-E-1-F MSD	Matrix Spike Duplicate	Dissolved	Water	Filtration	

Prep Batch: 668560

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197037-1	2022-02	Potentially Dissolved	Water	200.8	668397
280-197037-2	2022-02-02	Potentially Dissolvec	Water	200.8	668397
MB 280-668552/1-B	Method Blank	Potentially Dissolvec	Water	200.8	668552
LCS 280-668552/2-B	Lab Control Sample	Potentially Dissolvec	Water	200.8	668552
280-197052-E-1-E MS	Matrix Spike	Dissolved	Water	200.8	668552
280-197052-E-1-F MSD	Matrix Spike Duplicate	Dissolved	Water	200.8	668552

Prep Batch: 668670

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197037-1	2022-02	Total Recoverable	Water	200.8	
280-197037-2	2022-02-02	Total Recoverable	Water	200.8	
MB 280-668670/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-668670/24-A	Lab Control Sample	Total Recoverable	Water	200.8	
LCS 280-668670/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
LCSD 280-668670/25-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	
LCSD 280-668670/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	
280-196967-A-1-B MS	Matrix Spike	Total/NA	Water	200.8	
280-196967-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	200.8	
280-197096-D-4-B MS	Matrix Spike	Total/NA	Water	200.8	
280-197096-D-4-C MSD	Matrix Spike Duplicate	Total/NA	Water	200.8	

Analysis Batch: 668917

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197037-1	2022-02	Potentially Dissolved	Water	200.8	668560
280-197037-1	2022-02	Total Recoverable	Water	200.8	668670
280-197037-2	2022-02-02	Potentially Dissolvec	Water	200.8	668560
280-197037-2	2022-02-02	Total Recoverable	Water	200.8	668670
MB 280-668552/1-B	Method Blank	Potentially Dissolvec	Water	200.8	668560
MB 280-668670/1-A	Method Blank	Total Recoverable	Water	200.8	668670
LCS 280-668552/2-B	Lab Control Sample	Potentially Dissolvec	Water	200.8	668560
LCS 280-668670/24-A	Lab Control Sample	Total Recoverable	Water	200.8	668670
LCSD 280-668670/25-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	668670
280-197052-E-1-E MS	Matrix Spike	Dissolved	Water	200.8	668560
280-197052-E-1-F MSD	Matrix Spike Duplicate	Dissolved	Water	200.8	668560
280-197096-D-4-B MS	Matrix Spike	Total/NA	Water	200.8	668670
280-197096-D-4-C MSD	Matrix Spike Duplicate	Total/NA	Water	200.8	668670

Job ID: 280-197037-1

QC Association Summary

Client: Grand Island Resources

Project/Site: Nederland, CO - Surface Water

Metals

Analysis Batch: 668980

	Sample ID -197037-1	Client Sample ID 2022-02	Prep Type Total Recoverable	Matrix Water	Method 200.8	Prep Batch 668670
280	-197037-2	2022-02-02	Total Recoverable	Water	200.8	668670
MB	280-668670/1-A	Method Blank	Total Recoverable	Water	200.8	668670
LCS	S 280-668670/24-A	Lab Control Sample	Total Recoverable	Water	200.8	668670
LCS	SD 280-668670/25-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	668670

Prep Batch: 668997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197037-1	2022-02	Total/NA	Water	245.1	
280-197037-2	2022-02-02	Total/NA	Water	245.1	
MB 280-668997/1-A	Method Blank	Total/NA	Water	245.1	
LCS 280-668997/2-A	Lab Control Sample	Total/NA	Water	245.1	
140-38596-G-1-E MS	Matrix Spike	Total/NA	Water	245.1	
140-38596-G-1-F MSD	Matrix Spike Duplicate	Total/NA	Water	245.1	

Analysis Batch: 669211

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197037-1	2022-02	Total/NA	Water	245.1	668997
280-197037-2	2022-02-02	Total/NA	Water	245.1	668997
MB 280-668997/1-A	Method Blank	Total/NA	Water	245.1	668997
LCS 280-668997/2-A	Lab Control Sample	Total/NA	Water	245.1	668997
140-38596-G-1-E MS	Matrix Spike	Total/NA	Water	245.1	668997
140-38596-G-1-F MSD	Matrix Spike Duplicate	Total/NA	Water	245.1	668997

Analysis Batch: 669244

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197037-1	2022-02	Total Recoverable	Water	200.7 Rev 4.4	668670
280-197037-2	2022-02-02	Total Recoverable	Water	200.7 Rev 4.4	668670
MB 280-668670/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	668670
LCS 280-668670/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	668670
LCSD 280-668670/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	668670
280-196967-A-1-B MS	Matrix Spike	Total/NA	Water	200.7 Rev 4.4	668670
280-196967-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	200.7 Rev 4.4	668670

General Chemistry

Analysis Batch: 668493

Lab Sample ID 280-197037-1	Client Sample ID 2022-02	Prep Type Total/NA	Matrix Water	Method SM 2540D	Prep Batch
280-197037-2	2022-02-02	Total/NA	Water	SM 2540D	
MB 280-668493/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 280-668493/2	Lab Control Sample	Total/NA	Water	SM 2540D	
280-197021-C-1 DU	Duplicate	Total/NA	Water	SM 2540D	

Analysis Batch: 668550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197037-2	2022-02-02	Total/NA	Water	SM 4500 H+ B	
LCS 280-668550/4	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
280-197026-C-1 DU	Duplicate	Total/NA	Water	SM 4500 H+ B	

Eurofins Denver

Job ID: 280-197037-1

3

6

0

10

11

13

14

_

QC Association Summary

Client: Grand Island Resources

Project/Site: Nederland, CO - Surface Water

Job ID: 280-197037-1

General Chemistry

Analysis Batch: 668690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197037-1	2022-02	Total/NA	Water	SM 4500 H+ B	
LCS 280-668690/4	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
280-197092-D-1 DU	Duplicate	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 669199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197037-1	2022-02	Total/NA	Water	SM 2510B	-
280-197037-2	2022-02-02	Total/NA	Water	SM 2510B	
MB 280-669199/4	Method Blank	Total/NA	Water	SM 2510B	
LCS 280-669199/3	Lab Control Sample	Total/NA	Water	SM 2510B	
280-197194-F-1 DU	Duplicate	Total/NA	Water	SM 2510B	

Eurofins Denver

10/2/2024

Lab Chronicle

Client: Grand Island Resources

Project/Site: Nederland, CO - Surface Water

Lab Sample ID: 280-197037-1 Client Sample ID: 2022-02 Date Collected: 09/23/24 10:00 **Matrix: Water**

Date Received: 09/23/24 16:25

Batch Batch Batch Dil Initial Final Prepared Method **Prep Type** Type Run **Factor Amount** Amount Number or Analyzed Analyst Lab 200.8 668670 09/26/24 08:29 EET DEN Total Recoverable Prep 50 mL 50 mL KLG 200.7 Rev 4.4 669244 Total Recoverable Analysis 1 09/30/24 14:29 NKC EET DEN Potentially Dissolvec Filtration Poten Diss Met 50 mL 50 mL 668397 09/23/24 20:40 AMH **EET DEN** Potentially Dissolvec Prep 200.8 50 mL 50 mL 668560 09/26/24 08:29 SMK EET DEN Potentially Dissolvec Analysis 200.8 1 668917 09/26/24 18:27 LMT EET DEN Total Recoverable Prep 200.8 50 mL 50 mL 668670 09/26/24 08:29 KLG EET DEN Total Recoverable Analysis 200.8 1 668917 09/26/24 20:14 LMT EET DEN Total Recoverable 200.8 50 mL 50 mL 668670 09/26/24 08:29 KLG EET DEN Prep Total Recoverable 200.8 Analysis 1 668980 09/27/24 10:12 LMT **EET DEN** 30 mL Total/NA Prep 245.1 50 mL 668997 09/27/24 18:35 AES EET DEN Total/NA Analysis 245.1 1 669211 09/28/24 01:42 CAF EET DEN Total/NA Analysis SM 2510B 669199 09/30/24 13:10 EL EET DEN 1 Total/NA Analysis SM 2540D 1 250 mL 250 mL 668493 09/24/24 12:49 BRD EET DEN Total/NA Analysis SM 4500 H+ B 1 668690 09/25/24 13:44 EL **EET DEN**

Client Sample ID: 2022-02-02 Lab Sample ID: 280-197037-2

Date Collected: 09/23/24 10:00 **Matrix: Water** Date Received: 09/23/24 16:25

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			50 mL	50 mL	668670	09/26/24 08:29	KLG	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			669244	09/30/24 14:33	NKC	EET DEN
Potentially Dissolved	Filtration	Poten_Diss_Met			50 mL	50 mL	668397	09/23/24 20:40	AMH	EET DEN
Potentially Dissolved	Prep	200.8			50 mL	50 mL	668560	09/26/24 08:29	SMK	EET DEN
Potentially Dissolvec	Analysis	200.8		1			668917	09/26/24 18:30	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	668670	09/26/24 08:29	KLG	EET DEN
Total Recoverable	Analysis	200.8		1			668917	09/26/24 20:18	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	668670	09/26/24 08:29	KLG	EET DEN
Total Recoverable	Analysis	200.8		1			668980	09/27/24 10:16	LMT	EET DEN
Total/NA	Prep	245.1			30 mL	50 mL	668997	09/27/24 18:35	AES	EET DEN
Total/NA	Analysis	245.1		1			669211	09/28/24 01:50	CAF	EET DEN
Total/NA	Analysis	SM 2510B		1			669199	09/30/24 13:10	EL	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	668493	09/24/24 12:49	BRD	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			668550	09/24/24 17:58	EL	EET DEN

Laboratory References:

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

Job ID: 280-197037-1

Accreditation/Certification Summary

Client: Grand Island Resources

Project/Site: Nederland, CO - Surface Water

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	10-31-25
A2LA	ISO/IEC 17025	2907.01	10-31-25
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	11-30-25
Arizona	State	AZ0713	12-20-24
Arkansas DEQ	State	19-047-0	04-21-25
California	State	2513	01-08-25
Colorado	Petroleum Storage Tank Program	4025 (or)	01-08-25
Colorado	State	CO00026	06-30-25
Connecticut	State	PH-0686	09-30-24
Florida	NELAP	E87667-57	06-30-25
Georgia	State	4025-011	01-08-25
Illinois	NELAP	2000172024-9	05-31-25
lowa	State	370	12-01-24
Kansas	NELAP	E-10166	04-30-25
Kentucky (WW)	State	KY98047	12-31-24
Louisiana	NELAP	30785	06-30-14 *
Louisiana (All)	NELAP	30785	06-30-25
Minnesota	NELAP	1788752	12-31-24
Nevada	State	CO000262024-08	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	08-31-24 *
Oregon	NELAP	4025	01-08-25
Pennsylvania	NELAP	013	07-31-25
South Carolina	State	72002001	01-08-24 *
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183	09-30-24
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	11-30-24
Wisconsin	State	999615430	08-31-25
Wyoming (UST)	A2LA	2907.01	10-31-25

Job ID: 280-197037-1

3

4

_

9

11

40

 $^{{}^{\}star}\operatorname{Accreditation/Certification\ renewal\ pending\ -\ accreditation/certification\ considered\ valid}.$

Eurofins Denver

Eurofins TestAmerica, Denver 4955 Yarrow Street Arvada, CO 80002 Phone (303) 736-0100 Phone (303) 431-7171	O	Chain of Custody Record	Custod	y Rec	ord						🔆 eurofins	Frvikonment Testreg Amer c. 1
Client Information	Sampler: Annk	S of	Como	Lab PM: Bieniulis, Dylan T	Dylan T			Carrier Tracking No(s)	king No(s):		COC No:	
Client Contact: Brooke Molson Moran	Phone: 205	2-1	7	E-Mail: Dylan.Bi	E-Mail: Dylan.Bieniulis@et.eurofinsus.com	t.eurofins	us.com	State of Origin:	ii.		Page:	
Company: Grand Island Resources		PWSID	SID:				Analysis I	Analysis Requested			Job #:	
Address: 12567 West Cedar Road Suite 250	Due Date Requested					due					Preservation Codes:	des:
City: Lakewood	TAT Requested (days):	s):									A - HCL B - NaOH C - Zn Acetate	M - nexane N - None O - AsNaO2
State, Zip: CO, 80466	Compliance Project:	∆ Yes ∆ No									D - Nitric Acid E - NaHSO4 F - MeOH	P - Na2O4S Q - Na2SO3 R - Na2SO3
Phone: 315-414-6986	Po #: Advance Payment Required	t Required		(0							G - Amchlor H - Ascorbic Acid	S - H2SO4 T - TSP Dodecahydrate
Email: bmolsonm@g.emporia.edu	:#OM			N 10 8	ec. Met	pue ə	Spi			S.I		U - Acetone V - MCAA
Project Name: Nederland, CO	Project #: 28025102			э) э	otal Ro	nctanc	los pəi			ənistr		vv - pri 4-5 Z - other (specify)
Site: Surface Water Sampling	SSOW#:			ldmeS	T - 1.81	Condi	puədsr			100 JO	Other:	
: •				Matrix (W=water, S=solid, O=waste/oil, ed	M/SM m10119 S 8.002 7.00	8.00 - Potentia	12 ls3oT - 0048			otal Number		
Sample Identification	Sample Date		C=grab) BT=Tissue, A=Air Preservation Code:	র	7 0	Z	27			1X	- A	Special instructions/Note:
2022-02	11/23/24	8.0	\frac{1}{2}	3	1	X				5	A	* Surface water potentially dissolved metals permit list = 200.8 (Cu. Pb. Mn. Ni. Ag. Zn)
2022-02-02	9/22/24		\ \frac{1}{2}	2	×	×				3		
											*Surface water tol permit list = 200.7	*Surface water total recoverable metals permit list = 200.7 (Fe), 200.8 (Cd, Cu, Pb,
											Tot. Zn), and 245.	.1 (Hg)
						_						
					■ 68	97037	280-197037 Chain of Custody	tody		+		
					-	-			+			
				1	Sample I	Jisposal	A fee may	be assessed i	f samples	ar se i	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	(month)
Deliverable Requested: I, II, III, IV, Other (specify)	Poison B Criticioni		Radiological		Special Ir	Return 10 Cilent	Special Instructions/QC Requirements:	Disposal by Lab ments:	/ Lab	,	Algine For	Montas
Empty Kit Relinquished by:)ate:		Time:	je:			Metho	Method of Shipment:			
Relinguished by: NVTAN	Date/Time: 9 /23/24	14:30	Company Company	ž.	Received by:	ed by:	Jaren)	LOTEZ	Date	231	2414:30	Company
Refinquished by:	Date/Time:	4	Company	4 A	Received by:	Sá pá.		-) Date/Time		7635	Company Company
Custody Seals Intact: Custody Seal No.:					Cooler	Temperatur	Cooler Temperature(s) °C and Other Remarks:	or Remarks:	1		100	
Δ Yes Δ No									7	/) - >-	50 100	Ver. 01/16/2019
									_			Ver: U1/10/20/27

Client: Grand Island Resources Job Number: 280-197037-1

Login Number: 197037 List Source: Eurofins Denver

List Number: 1

Creator: Held, Wesley

Answer	Comment
N/A	
N/A	
N/A	
True	
N/A	
True	
N/A	
True	
True	
N/A	
	N/A N/A N/A N/A True True True True True True True True

APPENDIX D CHAIN OF CUSTODY (COC) FORMS

"Surface water total recoverable metals permit list = 200.7 (Fe), 200.8 (Cd, Cu, Pb, Tot. Zn), and 245.1 (Hg) Dpe Tribe: 23 24 14:30 Company Company Environme are retained longer than 1 month) 💸 eurofins B - NaOH
- C.Zh Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
I - EDA Sample Disposal (A fee may be assessed if samples Return To Client Disposal By Lab state of Origin: coived by Harry LORZ **Analysis Requested** dmeT / Hq - +H_0024M2 bni ceived by: Lab PM:
Bieniulis, Dylan T
E-Mail:
Dylan.Bieniulis@et **Chain of Custody Record** A South Sompany P 3 3 Radiological Prooke Moran Sample Type (C=comp, G=grab) 0 14:30 a 7303-506-1618 00:01 12/27/6 Advance Payment Required WO#. 9/23/24/10:00 Unknown 0/23/24 0/23/24 04/023/24 Sample Date Project #. 28025102 SSOW#: Poison B Skin Irritant Arvada, CO 80002 Phone (303) 736-0100 Phone (303) 431-7171 Eurofins TestAmerica, Denver 2022-02-02 Custody Seal No.: missingly with whan Company:
Grand Island Resources
Address:
12567 West Cedar Road Suite 250 ssible Hazard Identine. 2022-02 Client Information Client Contact: Brooke Molson Moran Surface Water Sampling 4955 Yarrow Street ed Name. Lakewood State, Zip: CO, 80466

FIELD FILTERED * Groundwater Dissolved Metals Permit Lis = 200.7 (Al, B, Fe) and 200.8 (Sb, As, Ba, Cd, Cu, Pb, Mn, Mo, U, Zn) METALSA ORADIONUCL (DES MAN LA 0 - Ashaoz P - Na204S Q - Na2803 R - Na28203 S - H2804 I - TSP Dodecal U - Acetone V - MCAA Ver: 01/16/2019 Environme Months Seurofins 💸 B - NaOH

- C-TA Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
H - Ascorbic Acid
J - DI Water
K - EDTA Date/Time: 23/24 H:34 PEOR s are retained longer tate of Origin: **Analysis Requested** SCHOOL BY. ceived by: Lab PM: Bieniulis, Dylan T E-Mall: Dylan.Bieniulis@et.e **Chain of Custody Record** Radiological Sample Type (C=comp, G=grab) 0 14:30 2:15 2:15 3.30 11:15 Unknown 123/24 94077ms 74 Sample Date PO #: Not required Poison B Possible Hazard Identification

Non-Hazard — Flammable — Skin Imitant
Deliverable Requested: I. III, IV, Other (specify) Arvada, CO 80002 Phone (303) 736-0100 Phone (303) 431-7171 **Eurofins TestAmerica, Denver** ARIBON POR Custody Seal No. islinguished by. 12567 West Cedar Road Suite 250 ROSS WELL OMPURNCE OMPLANC Empty Kit Relinquished by: ARIBOU Grand Island Resources Client Information Brooke Molson Moran COMPI land, CO 315-414-6986 Lakewood State, Zip: CO, 80466

APPENDIX E FIELD SHEETS

SURFACE WATER SAMPLING DATA SHEET

Station Discovery 1	SWAMP F	ield Data S	Sheet (Wate	r Chemistr	y & Discret	e Probe) - E	ventType=	-WQ	ERRHEPARPA	o ^{rl} afsattyhaafa	Notate) VI.	7	Pg	of Pgs
Part	*StationID:	202	2-01		*Date (mm/de	1/yyyy): 9	123	124		7		Δ		1-
Page	*Funding:	nlo					DepartureTim	ne: 9:40			nla		*Protocol:	nla
PROJECTION PRO	*Personnel:	BM				The same of the sa		- 1			*PurposeFaile	ure: n/a		1/1//
PSECHAPTICS	*Location: E	Bank Thalweg	Midchannel (OpenWater	*GPS/DGPS	Lat (dd	l.ddddd)	Long (d	dd,ddddd)	OCCUPATIO	N METHOD:	Walk-in Bridg	e R/V	Other
Manual M	GPS Device:	PS WAY	POINTS	SAPP		39.97	904	-105.	57585	STARTING B	ANK (facing d	lownstream): (R / RB / N	Α
SITE CLOCK Novemburities Semple Type = Field (Debts) STEAM (Field Seminary Personant Mode) (Debts) STEAM (SCALE (For Seminary Personant Mode) (Debts) STEAM (SCALE (For Seminary Personant Mode) (Debts) STEAM (SCALE (For Seminary Personant County of Pers	Datum: NAD8	13	Accuracy (ft //	1.20	(III/IIII/III/III/IIII/IIII/IIII/IIII/				A. 1000	BULLINGUES CONTROL OF THE PROPERTY OF THE PROP	SAME TO SHARE THE RESIDENCE	ACCUPATION AND DESCRIPTION OF THE PARTY OF T	and the second second second second	CONTRACTOR
STED COOK	Field Obs	ervations (SampleTyp	e = FieldOl	THE RESERVE THE PERSON NAMED IN		-	BEAUFORT		DISTANCE	. 1	STREAM WI	DTH (m): 17	10
SKY COO6: Clear/Parry Cloudy, Owncroat, Fog WNAD POPECTION Control			10			ther			3		vi/a			4
### OTHER PRESENCE: Vascadar Nonvascalar Collegence Treat, Treat, Deal-Yor (Parts). ### OTHER PRESENCE: Vascadar Nonvascalar Collegence Treat, Treat, Deal-Yor (Nonvascalar Collegence). ### OTHER PRESENCE: Vascadar Nonvascalar Collegence College. Grows (2014). ### OTHER PRESENCE: Vascadar Nonvascalar Collegence College. Grows (2014). ### OTHER PRESENCE: Vascadar Nonvascalar Collegence Colle		en en en	X				WIND	-		ICATION: None	Bridge, Pipes,	ConcreteChanne	l, GradeControl,	Culvert,
DOMINATSUBSTRATE Bedrook, Concrete, Calible, Ginvel) Sand, (fluid) UNI, Other Substractive year Su						In sound		Nin Dec	THE RESERVE OF THE PERSON.	\$100 No. 100 N	d whon fooing			
WATERCORN			7.0.00			75	17.4		dow	instream; RENAM	ME to	A		mr)
WATERCOOR None, Suffice, Swage, Petrolem, Maked Ores PRECIPITATION (Instal 24 Ins))							/ \				- 4 .	##)
WATERCOLOR: Contracts, Green, Yellow Brown Service Contracts Contr	100000000000000000000000000000000000000	- /										and the same of the same		2
OBSERVED FLOW: NLODy, Waterbody Bed) No OSP Flow, Isolated Pool, Trickle (+0, 1cfs), 0, 1-1cfs, 1,5cfs, 5-20cfs, 20-50cfs, >0-200cfs, >0-200cfs		- 11/	-	23000		d, Other	PRECI	PITATION (las	st 24 hrs):	Unknown, <1	", >1", None		Table 1	1111
DepthColes Velocity (fp) Ar Torn Water Temp PH O ₂ (mg/L) O ₂ (%) Specific Spec	Y-12 construction of the	-		7	1000 man a	1-4-4B-4-7		0444.45		50 / 50 000				
DepRinCollec (m) DepRinCollec			THE RESERVE OF THE PARTY OF THE	and the same of th	The second secon	THE RESERVE AND PERSONS ASSESSED.	AND DESCRIPTION OF THE PARTY OF	, 0.1-1cfs, 1-56	cts, 5-20cts, 20	-50cfs, 50-200	cfs, >200cfs	202	- 01	
Compact Comp	i letu Mea	T	T	Ī	T	et1100 = F16	iu)	I	Specific		l			
Samples Taken (# of containers filled) - Method=Water_Grab Field Dup YES (NO) (Sampel-Type-(ms)) Fregment, LASEL_D = FaleDA, create collection record upon data serby AMPLE TYPE: Grab / Integrated COLLECTION EQUIPMENT: Indiv bottle (by hand, by pole, by buckst), Taffon tubing: Kemmer: Pole & Beaker; Other // (A) Depth Calc Depth Calc Norganics Beateria Cn1a TSS / SSC TOC / DOC Total Hg Dissolved Mercusy Total Metals Dissolved Organics Toxicity VOAs SUB-Surface SUB-Surfa			Velocity (fps)			рН	O ₂ (mg/L)	O ₂ (%)	Conductivity	Salinity (ppt))	
DOTIONARD BESUBSTAND BESUBSTAND CARD. Date Carb. Date Comment: Date Comm	SUBSURF/MID/ BOTTOM/REP	nla	nla	49.82	nla	nla	n/a	nla	nla	nla	nla	nla		
Somples Taken (# of containers filled) - Method=Water_Grab Field Dup Yes (***) (Samplar ypo - Grab) Integrated LABEL_ID = Field Ac create collection record upon data entry AMPLET YPE: Grab / Integrated COLLECTION EQUIPMENT: Indiv bottle (by hand, by pole, by Eucket); Teflon tubing; Kemmer: Pole & Beaker, Other	SUBSURF/MID/ BOTTOM/REP													
Callb_Date: Samples Taken (# of containers filled) - Method=Water_Grab Field Dup YES (%) (Sampla Type - (Callb) Integrated; LABEL_ID = FieldQA, create collection record upon data entry AMPLET YPE: Grab / Integrated COLLECTION EQUIPMENT: Indiv bottle (by hand, by pole, by bucket); Teffon tubing; Kemmer: Pole & Beaker; Other - Y\f\(\alpha\) Depth-Cullec (m) Inorganics Bacteria Chi a TSS / SSC TOC / DOC Total Hg Mercury Total Metals Dissolved Organics Total Metals Dissolved Metals Dissolved Metals Dissolved Organics Total Metals Dissolved Organics Dissolved Organics Dissolved Organics Total Metals Dissolved Organics Dissolved Organics Dissolved Organics Total Metals Dissolved Organics Dissolved O	SUBSURF/MID/ BOTTOM/REP													
Field Dup YES (Critical Depth Collect (m) Indigrated COLLECTION EQUIPMENT: Indiv bottle (by hand, by pole, by bucket); Teffon tubing: Kemmer; Pole & Beaker; Other (m) Individual (m) Field Dup YES (Critical Depth Collect (m) Indigrated (m) Indigra			-		-	A								
AMPLE TYPE: Grab / Integrated COLLECTION EQUIPMENT: Indiv bottle (by hand, by pole, by bucket); Teflon tubing: Kemmer; Pole & Beaker; Other \(\forall \) (A Depth Collec Inorganics Bacteria Chi a TSS / SSC TOC / DOC Total High Dissolved Metals Dissolved			containers	filled) - Me	thod=Wate	r Grab	Field Dup YE	S/NO (Sample	Type = Grab / Int	egrated: LABEL	ID = FieldOA: c	reate collection r	ecord upon data	entre
Depth Collect (In) Inorganics Bacteria Chia TSS/SC TOC/DOC Total Hg Dissolved Mercury Total Metals Dissolved Mercury Total Metals Dissolved Metals Organics Toxicity VOAs SubSturface DMMRNTS: DRY BED_NO SAMPLINE, SOME SNOW PRESENT, Sample ID 8: Sito Code ### Small Web ### Large Web ### Empty Web ### ### Small Web ### ### ### ### ### ### ### ### ### ##			TO STATE OF THE PARTY OF THE PA					-					-10	
Sub/Surface											Dissolved		1	1/04-
SubSurface			morganics	Dacteria	- I	1007000	# A	Total rig	Mercury	Total Wetals	Metals	Organics	TOXICITY	VOAS
COMMENTS: DRY BED, NO SAMPLING, SOME SNOW PRESENT, Sample ID #: Site Code: # Small Wells # Large Wells # Large Wells # Large Wells # Large Wells # Small Wells # Large					N	/-;	4							
Sample ID #: Site Code: Sample Processing Date: Sample ID #: Site Code:			0-0	- 10	-0.00			10 T C	Calou 1	000	on pure free	Maria .		
Site Code:		NKA	8FD	,NO :	SHMH	LINE	7,50	MIFS	NUM	PRE	SEN			
Site Code:												Control Service Designation		
Site Code:						0.585445.3,5550 858748-55								
# Small Wels	Run:	. [1	Si	ample Processing	g Date:			
# Small Wells # Large Wells	Sample ID #:							1					T	
# Large Wells Empty Wells		Site Code:	DIF	-10	1	0	1	1	0	10	Dh	DT		
# Large Wells Empty Wells		# Complete #				O		1	10	NE	10			
Empty Wells				.										
Yellow								K						
False Fals							1							
Fellow		# Small Wells				13	/ /							
Fellow		# Large Wells					-	- 74					-	
Positives	Yellow+	False			_	-								
Start	Fluorescence (+)	Positives						-					_	
FIELD DUPLICATES LAB DUPLICATES			4Hr	Check		14 Hr. Che	ck		18 Hr. Check		122 He	Check if needed		
Duplicate Sample # Duplicate Sample # Duplicate Sample # Outlier Sample # Outli					IPLICATES	T. TITL SHO		I						
TOTAL Normal Duplicate		Normai Sample Duplicate Samp	le#											
Normal			MPN		LOWE	95% CI	оррен	-		MPN		Cower	95% CI	Opper
Mean Pass Needs Review Mean Pass Needs Review														
Duplicate Duplicate Duplicate Duplicate Duplicate Mean Pass Need's Review Mean Pass Need's Review Ab Sample # Pass Need's Review	002.010.01	Mean			Pass	Ne	eds Review	Mean				Pass	Ne	eds Review
BLANKS Field Sample Pass Needs Review Lab Sample # Pass Needs Review Needs Revi		Duplicate			Pass		eds Review	Duplicate				Page	NI/	eds Review
							ceptability of data		The second secon	IT	e Rand Pur			

broke Molan 9/23/24

SURFACE WATER SAMPLING DATA SHEET

DAMMINIE	Field Data S	Sheet (Wate	r Chemistr	y & Discret	e Prohe) - I	EventType=	-WO	FROLBOARD	ol ¹ afsetylyn2i(PaOf	Votate) h	/a	le- 1	-f D.
*StationID:	202	2-0'	7	*Date (mm/do	-		3 174		vase pilkar	roate) re	1 1/1	Pg { Agency:	of Pgs
*Funding:	n	7		ArrivalTime:		123		*Group:	VIIA	10100	2 2 2 2	*Protocol:	nia
*Personnel:	200 1	10			1 10 10		ne:10:25	s FieldMeasure	(1st sample):	*PurposeFaile		F TOLOCOL.	n/a
STATE OF THE PARTY OF THE PARTY.	Pank Thelmor	Midchannel	OpenWeter				_			SHIP TO SHIP T	-	DA.	0.0
GPS Device:	709	MINITE	A CO	*GPS/DGPS	20 07	I.ddddd)	-105.5	dd.ddddd)			Walk-in Bridg		Other
Datum: NAD		POINTS	HH	Target:	30,000	2727		NAC	BOX CORPORATION ROSESSON		lownstream):		
Marie Comment of the		Accuracy (ft (r	1111	*Actual:	39,975	0813	BEAUFORT	69305	DISTANCE	int of Sample	(if Integrated, t		ase)
97.597	,	SampleTyp				WADEABILITY: Y/ N / Unk	SCALE (see	1	FROM BANK	10"	STREAM WII		0"
SITE	ODOR:	None Sulfide:	s,Sewage,Petr	oleum,Mixed,O	ther	0	attachment):	_	(101):		WATER DEP	-	5"
SKY	CODE:	Clear, Partly	Cloudy, Overc	ast, Fog		WIND DIRECTION	mate	AarialZipline, O	ICATION: None,	Bridge, Pipes,	ConcreteChannel LOCATIO	, GradeControl, N (to sample):	US / DS / WI)
OTHERF	PRESENCE:	Vascular, Non	vascular,OilyS	Sheen,Foam,Tra	sh,Other	(from):	1		RB & LB assigned		1: (RB / LB /		
DOMINANT	SUBSTRATE:	Bedrock, Cor	ncrete, Cobble	, Gravel, Sand,	Mud, Unk, Ot	her	-	17	nstream; RENAN e_yyyy_mm_dd_u		2022	-021	P
WATER	CLARITY: (Clear (see bo	ottom), Cloudy	(>4" vis), Murk	y (<4" vis)	PRECIP	ITATION:	AND DESCRIPTION OF THE PERSON	rizzle, Rain, Sr	1	2: (RB / LB /	BB / US / DS	/ ##)
WATE	RODOR:	6		etroleum, Mixe			PITATION (las		Unknown, <1'	1	202	2-02	B
	RCOLOR:		een, Yellow, E		.,	7112011			2,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, , , , , , ,		BB / US / DS	800
	/ED FLOW:			o Obs Flow, Iso	olated Pool. Tr	ickle (<0.1cfs)	0.1-1cfs 1-5c	fs. 5-20cfs 20	-50cfs. 50-200	cfs. >200cfe	202	2-02	C
		TO POST TO STATE OF THE PARTY O	Control of the Contro	Measure; M	The second second second	The second secon		., - 23010, 20	2500, 00-200	, 200013			
arystropo (Thing) (di	DepthCollec	22.5.1040000000000000000000000000000000000						Specific		T	T		
	(pri)	Velocity (fps	Air Temp	Water Temp (°C)	pН	O ₂ (mg/L)	O ₂ (%)	Conductivity (uS/cm)	Salinity (ppt)	Turbidity (ntu)	Stage Ht (units		
SUBSURF/MID. BOTTOM/REP	1"	0,45	51.1°F	7.2°	8.1	nla	nla	0.3	nla	2.6	nla		
SUBSURF/MID BOTTOM/PEP													
SUBSURF/MID BOTTOM/REP			Acret a	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \									
Instrument			traben	Vakto	3/24								
			Glind) M	6h a d-18/a (a	The latest lates	FI-LID G		- 60					
				ethod=Wate					egrated; LABEL_			1	11
SAMPLE TY	PE: Grab / I		COLLE	ECTION EQUIF	MENT:	Indiv bottle (b	y hand, by pole	e, by bucket); Dissolved	Teflon tubing; F		& Beaker, Oth	er@15 POS0	ble cup
	(m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs
Sub/Surface	e "["	nla	nla	nla	1	nla	1	nla	2	nla	nla	nla	nla
Sub/Surface													
COMMENTS	4 co	ntain	ers -	total	Ceach	1 set	-)						
												ordoonati (waxaws	
Run:	-					_		S	ample Processing	Date:			
Sample ID #:		-				\pm	+						
	Site Code:			141				A	2	0 =	Dh		-
	0110 00001		-	TOI		VC.		10 10	2	VE	PUI	21	
					_								
	# Small Wells		- 1			1	1 1						
	# Small Wells # Large Wells			_	_								
	# Large Wells Empty Wells												
Yellow +	# Large Wells												
Yellow +	# Large Wells Empty Wells												
Yellow +	# Large Wells Empty Wells MPN												
Yellow+	# Large Wells Empty Wells MPN # Small Wells # Large Wells False												
	# Large Wells Empty Wells MPN # Small Wells # Large Wells												
Yellow+ Fluorescence	# Large Wells Empty Wells MPN # Small Wells # Large Wells False Positives	4Hr.	Check		14 Hr, Che	ck		18 Hr. Check		22 Hr.	Check, if needed		
Yellow+ Fluorescence (+)	# Large Wells Empty Wells MPN # Small Wells # Large Wells Felse Positives MPN Start			JPLICATES	14 Hr. Cher	ck				22 Hr. LAB DUPLICAT			
Yellow+ Fluorescence (+)	# Large Wells Empty Wells MPN # Small Wells # Large Wells False Positives MPN	# c#		JPLICATES	14 Hr. Cher	ck	Normal Sample Duplicate Sam	e#					
Yellow+ Fluorescence (+)	# Large Wells Empty Wells MPN # Small Wells # Large Wells False Positives MPN Start Normal Sample:			JPLICATES	14 Hr. Che	ck.	Normal Sample	e#	MPN			95% CI	- Upper

Vorogle Morein

e individual corresponding CI's to determine acceptability of da Placed in Incubator By / Date / Time:

9/23/24

Trays Read By: Entered into database

									ā.		
				GROUND	WAT	ER SAMPLIN	G DA	TA SH	IFFT		
Sample Lo Sample Co WEATHE Ambient A Precipitat INITIAL WI Static Wate 2-inch = 0 Well Casing Well purge FINAL WEL Static Wate INSTRUM	ER CONDICATE TEMPORE LEL MEASURE LEVEL - 20 LEVEL -	TIONS rature: Rain REMENTS Total Deptile Casing EVL S MENTS Total Deptile TOTAL DEPTIL	Snow He Measurement Oth 205Top Th = 0.6528 OD # Pro OUMP Total V	°C□ eavy□ Mo ents in feet of Screen gal/ft 6 otective Ca	°Fixodera	Not Measing Light	Sunred E Sunred E Sunref well Intervegal/ft Vell Ca	Statiplers casin casin casing:	wind: Heavy Manual Manu	Noderate □ Light Noderate □ Noderate □ Noderate Noderate □ Noderate □ Noderate □ Noderate Noderate □ Noderate □ Noderate □ Noderate Noderate □ Light	(0-40 ft) 1/8"(40-20
pH Meter:	Meter Nur	nber OAL	TON ()1 2 Temp.12.0	700	Con	ductivity M	eter:	Meter	Number CM1-	2104-014	79
Buffer 4	Measured V	Value 4.0	Temp. 12.1	2°C	Stan	dard 0 44 7	nS/cm	Mea	usured Value 0.5	mS/cm Tem	ip. <u>15</u> °C
Turbidity !	Meter: Not	ry Standar	rd nantu	Measured	i Valı	ie n/a N	ΓU St	andar	dv/ NTU Measu	red Value h/a	NTU
FIELD PARA	AMETER ME	ASUREME	NTS DURING	PURGING	3						
Time	Volume	pH	Cond.	Temp		Turbidit			(Comments	
	(gallons)		(μS/cm)	°C O °F	-LJ	Visual Es Measure	. /				
12:00	a	72	0.3	1	A	6,4	-				
13:00	624	72	0,3	7	1	(7	E	IEI D- EII T	POPO F	-00
17700	UPI	100	000	160		6.	+	200	ETAL CO	EKED	OR
								/11	E IAUS X	MADIU	NACHIDE
		Water to the same of the same						-	000011-6	201150	Marine Prints
								01	AMPLES	COLLECTION OF	I EL
								W	TH DIS	MOURI	E CUPS
							-				

FINAL SAI		The second second				1					
Sample Date	Sampl Time		ischarge I gpm	pН	(Cond. (µS/cm)	Ten (°(Turbidity Visual Est. Measu	p.	
9/23/2	4 13:0	00	7.0	7,3		0.3	7	,10	6.7		
Duplicate Sa	ample-02	(sample co	ontrol numbe	er/time		n/a)	0.000	Latin C
Field Blank-	-	-	ontrol numbe			nlo	1)	QAQC	
Rinsate Sam	1	-	ontrol numbe	200 000000		· N/a))	HVALLA	BLE IN
Matrix Spike	•		ntrol numbe	17.5		w/	(A)	LABK	EPORT
		6 8	ontrol numb			n,	la				

Notes: SAMPLED VIA PORT. * 6 \(\frac{2}{5}''(-1-40 \) \(\frac{1}{2}''(15-205 \) \(\frac{1}{5}''(-1-40 \) \(\frac{1}{2}''(15-205 \) \(\frac{1}{2}

Broke Moran 9/23/24

GROUND WATER SAMPLING DATA SHEET Sample Location COMPLIANCE WELL Date 9/23/24 Start Time 13:00 Stop time 13:45 Page of Sampler Control Number Samplers BM KL **IDENTIFICATION** Ambient Air Temperature: 57.0° °C□ °F□ Not Measured □ Wind: Heavy□ Moderate□ Light□ Precipitation: None□ Rain□ Snow□ Heavy□ Moderate□ Light□ Sunny□ Partly Cloudy□ INITIAL WELL MEASUREMENTS (Measurements in feet made from top of well casing) all (0-50 ft) Static Water Level 39 Total Depth 65 Top of Screen 65 Filter Pack Interval no Borehole Diameter (inches) 6" (50-105 A) 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 Well Casing OD X Protective Casing Stickup N Well Casing Stickup Feet of Water N A Well purged with: WELL PUMP **FINAL WELL MEASUREMENTS** Static Water Level Total Depth Volume Purged 55 Saturated Borehole Volume (gal) Max Pumping Rate n/a INSTRUMENT CALIBRATION Conductivity Meter: Meter Number CMI-2104-01479 pH Meter: Meter Number OAKTONO Buffer 7 Measured Value 7.0 Temp. 12.9°C Standard 0.447 mS/cm Measured Value 0.5 mS/cm Temp. 3 °C Buffer 4 Measured Value 4.0 Temp. 13.0°C Standard 0.447 mS/cm Measured Value 0.5 mS/cm Temp. 13°C Turbidity Meter: Natra Standard NO NTU Measured Value n / NTU Standard no NTU Measured Value n / NTU FIELD PARAMETER MEASUREMENTS DURING PURGING Time Volume pH Cond. Temp. Turbidity Comments °CM °FU (gallons) (µS/cm) Visual Est. Measured 13:00 13:30 554 FINAL SAMPLE PARAMETERS Sample Sample Discharge pH Cond. Temp. Turbidity Date Time cfs□ gpm□ Visual (uS/cm) (°C) Est. D Measu red A 10.4 13:30 Duplicate Sample-02 (sample control number/time COMPLIAN CE (sample control number/time COMPLIANCE 03 (sample control number/time LAB REPORT

Rinsate Sample-04 (sample control number/time COMPLIANCE 03)

Rinsate Sample-04 (sample control number/time n/a)

Matrix Spike-MS (sample control number/time n/a)

(sample control number/time n/a)

Notes: SAMPLED AT WELL. * 6 \frac{5}{8}"(-1-50 \text{ ft}) \text{ k 4\frac{1}{2}"(15-165 \text{ ft})}

Sampler's Signature

GROUND WATER SAMPLING DATA SHEET **IDENTIFICATION** Sample Location CARIBOU WELL Date 9/23/24 Start Time 10:30 Stop time 11:45 Page of 1

WEATHER CONDITIONS 511 70 WEATHER CONDITIONS
Ambient Air Temperature: 54.7° °C□ °FN Not Measured □ Wind: Heavy□ Moderate□ Light□ Precipitation: NoneN Rain□ Snow□ Heavy□ Moderate□ Light□ Sunny □ Partly Cloudy□ INITIAL WELL MEASUREMENTS (Measurements in feet made from top of well casing)
Static Water Level—28 Total Depth 65 Top of Screen 25 Filter Pack Interval 10 Borehole Diameter (inches) 6 26 - 165 F)
2-inch = 0.1632 gal/ft 4-inch = 0.6528 gal/ft 6-inch = 1.4688 gal/ft Casing Volume: 9 gallons Well Casing ID N Well Casing OD * Protective Casing Stickup N Well Casing Stickup 2 Feet of Water N Well purged with: WELL PUMP **FINAL WELL MEASUREMENTS** Static Water Level 28 Total Depth 5 Total Volume Purged Saturated Borehole Volume (gal) 113 Max Pumping Rate n/a INSTRUMENT CALIBRATION pH Meter: Meter Number OAKTONO Conductivity Meter: Meter Number CMI - 2104-01479 Standard 0.447mS/cm Measured Value 0.5 mS/cm Temp. 13°C Standard 0.447mS/cm Measured Value 0.5 mS/cm Temp. 13°C Buffer 7 Measured Value 7.0 Temp. 12.9 °C Buffer 4 Measured Value 4.0 Temp. 13.0°C Turbidity Meter: Newty Standard Mantu Measured Value N/a NTU Standard Mantu Measured Value NTU FIELD PARAMETER MEASUREMENTS DURING PURGING Time Volume рΗ Cond. Temp. Turbidity Comments (gallons) °CØ °F□ (µS/cm) Visual Est. Measured 0 10:30 11:30 494 FINAL SAMPLE PARAMETERS Sample Sample Discharge pH Cond. Temp. Turbidity Date Time cfs gpm 2 (°C) Visual (µS/cm) Est. D Measu red 7.90 10.0 0.2. Duplicate Sample-02 (sample control number/time vi/a - QAQC INFO Field Blank-03 (sample control number/time Rinsate Sample-04 (sample control number/time Matrix Spike-MS (sample control number/time (sample control number/time Notes: SAMPLED VIA PORT, * 65"(-1-26 ft) & 42"(15-165 ft) Sampler's Signature Votoke moran 9/23/24

GROUND WATER SAMPLING DATA SHEET IDENTIFICATION Project Number:

Sample Lo	ocation_ C	ROSS	PORT	AL	Ι	Date 9/2	3/21	# Star	Time 12-00 S	Stop time 12:30	Page of /
Sample Co	ontrol Numb	er	n/a				Sam	plers	BM, KL	The state of the s	
WEATH	ER CONDIT	CIONS					_	1	DIII		_
Ambient.	Air Temper	ature: _		°C□	°F□	Not Meast	ured [J V	Vind: Heavy□ M	Ioderate□ Light	5
Precipitat	tion: NoneL	Rain	Snow□ He	avy M	oderat	e□ Light□	Sun	ny□ I	artly Cloudy		
INITIAL W	ELL MEASUR	EMENTS (Measureme	nts in feet	made	e from top o	fwell	casing			
Static Wat	er Level	Total Dep	othTop	of Sereen		Filter Pack	interv	al	Borehole Dian	neter(inches)	
2-inch =	0.1632 gal,	ft 4-inc	h = 0.6528	gal/ft 6	-inch	14688	gal/ft	Casi	ing Volume:	gallons	
Well Casin	g ID W	ell Casing	ODPro	teetive Ca	asing S	itickup \	Vell-G	asing S	tickup Feet of	Water	
Well purge	ed with:										
	LL MEASURE										
Static Wat	er Level T	otal Depth	Total V	olume Pur	ged_	Saturated	Boreh	ole Vo	lume (gal) Max	Rate Rate	
INSTRUM	MENT CAL	BRATIO	N							, ,	
	: Meter Num				Con	ductivity M	eter:	Meter	Number CM1-	2104-014	179
	Measured V				Stan	dard <u>0,447</u> 1	nS/cm	Meas	sured Value O	5 mS/cm Temp	.13°C
Buffer 🖳	Measured V	Value 4,0	7 Temp. 13)°C	Stan	dard(),447	nS/cm	Meas	sured Value	5 mS/cm Temp	1300
Turbidity	Meter: New	Tg Standar	rd 11/0 NTU	Measure	d Valu	ie n/a N	ru St	andard	NANTU Measu	red Value n/a	NTU
	AMETER ME			PURGING	3						
Time	Volume	pН	Cond.	Temp		Turbidi	ty		C	Comments	
	(gallons)		(μS/cm)	0C/ZJ 01		Visual Es					
				V		Measure	d				
12:15	na	7.9	0.3	6,0)0	20	1				
				1				FII	ELD- FILT	FRED E	18
									TALS &	RADIONIX	TINCS
								TYLE	IMUSA	MUNUNU	1110
								SA	MALES	OLLECT	FD
								10/1-	TH DISON	SARIEC	11105
								101	III DIOPO	NINCE C	010
-											
								-			
						-					
	MPLE PAR		RS					-			
Sample	1		ischarge,	pH		Cond.	Ter	np.	Turbidity		
. Date	Time	cfs[□ gpm □		(μS/cm)	(0)	C)	Visual		
								1	Est.□ Measu		H
~ [-	,								red		
19/23/	2412:11	5	n/a	7,9		0.3	6	00	1200		
Duplicate S				/		CC 00	07	10-1	07		1
-	•		ontrol numbe		ANC	100 M	P		1/6	RARC 1	NFO
Field Blank	:-03 (sample co	ontrol numbe	er/time		n/a)	The second secon	
Rinsate San	nple-04	(sample co	ontrol numb	er/time		n la)	AVAILA	TOLE
	-					1-				INLAR	BLE
Matrix Spik	re-MS (sample co	ontrol numbe	er/time		NIO)	114 0110	
		(sample c	ontrol numb	er/time_		nla)		
Notes:		_									
Compler's	·										
SUMMIATE C	TOMOTHER										

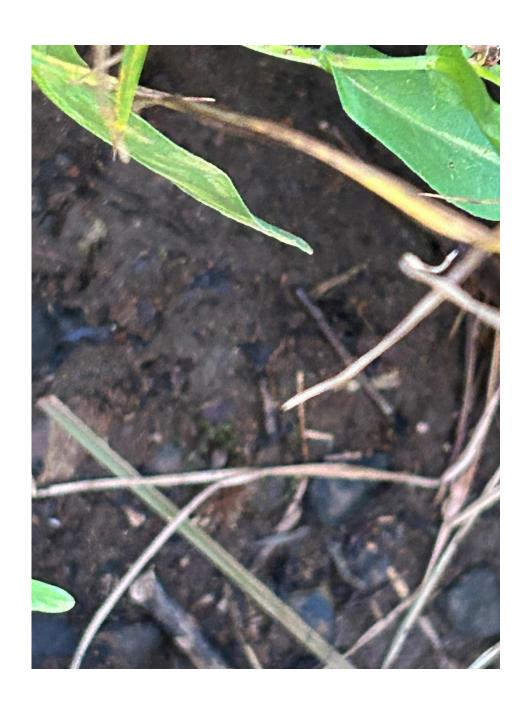
Brooke Moran 9/23/24

GROUND WATER SAMPLING DATA SHEET **IDENTIFICATION** Project Number: PORTAL Date 9/23/24 Start Time 10:30 Stop time 11:15 Page of 1 Sample Location CARIBOU Sample Control Number 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-ineh = 1.4688 gal/ft Casing Volume: gallons Well Casing ID ____ Well Casing OD ___ Protective Casing Stickup ___ Well Casing Stickup ___ Feet of Water Well purged with: FINAL WELL MEASUREMENTS Static Water Level Total Depth Total Volume Purged Saturated Borehole Volume (gal) Max Pumping Rate INSTRUMENT CALIBRATION pH Meter: Meter Number OAKTON OI Conductivity Meter: Meter Number CMI - Z104 - 01479 Buffer 7 Measured Value 7.0 Temp. 12.0°C Standard O 447mS/cm Measured Value 0.5 mS/cm Temp. 13 °C Buffer 4 Measured Value 4.0 Temp. 13.0°C Standard 0.447mS/cm Measured Value 0.5 mS/cm Temp. 13°C Turbidity Meter: NTU Standard Mantu Measured Value n/a NTU Standard MANTU Measured Value n/a NTU FIELD PARAMETER MEASUREMENTS DURING PURGING Time Volume рН Turbidity Cond. Comments (gallons) (µS/cm) °CZ °FU Visual Est. Measured 11:15 0,3 3.1 FIELD-FILTERED FINAL SAMPLE PARAMETERS Sample Sample Discharge pH Cond. Temp. Turbidity Date Time cfs□ gpm□ (µS/cm) (°C) Visual Est. Measu red 0.3 11:15 5,50 n/a 3. Duplicate Sample-02 (sample control number/time_ nla Field Blank-03 (sample control number/time Rinsate Sample-04 (sample control number/time Matrix Spike-MS (sample control number/time (sample control number/time Notes: Brooke Motan 9/23/24 Sampler's Signature

APPENDIX F PHOTOGRAPHS

APPENDIX F.1 SAMPLE LOCATION 2022-01 PHOTOGRAPHS







APPENDIX F.2 SAMPLE LOCATION 2022-02 PHOTOGRAPHS

