




**MINERALS PROGRAM INSPECTION REPORT**  
**PHONE: (303) 866-3567**

The Division of Reclamation, Mining and Safety has conducted an inspection of the mining operation noted below. This report documents observations concerning compliance with the terms of the permit and applicable rules and regulations of the Mined Land Reclamation Board.

<b>MINE NAME:</b> Cross Gold Mine	<b>MINE/PROSPECTING ID#:</b> M-1977-410	<b>MINERAL:</b> Gold, copper, silver, zinc and lead	<b>COUNTY:</b> Boulder
<b>INSPECTION TYPE:</b> Monitoring	<b>WEATHER:</b> Cloudy	<b>INSP. DATE:</b> March 27, 2025	<b>INSP. TIME:</b> 09:30
<b>OPERATOR:</b> Grand Island Resources LLC	<b>OPERATOR REPRESENTATIVE:</b> Richard Mittasch	<b>TYPE OF OPERATION:</b> 110(2) - Hard Rock Limited Impact	
<b>REASON FOR INSPECTION:</b> Priority	<b>BOND CALCULATION TYPE:</b> None	<b>BOND AMOUNT:</b> \$546,751.00	
<b>DATE OF COMPLAINT:</b> NA	<b>POST INSP. CONTACTS:</b> None	<b>JOINT INSP. AGENCY:</b> None	
<b>INSPECTOR(S):</b> Patrick Lennberg	<b>INSPECTOR'S SIGNATURE:</b> 	<b>SIGNATURE DATE:</b> March 31, 2025	

**GENERAL INSPECTION TOPICS**

This list identifies the environmental and permit parameters inspected and gives a categorical evaluation of each. No problems or possible violations were noted during the inspection. The mine operation was found to be in full compliance with Mineral Rules and Regulations of the Colorado Mined Land Reclamation Board for the Extraction of Construction Materials and/or for Hard Rock, Metal and Designated Mining Operations. Any person engaged in any mining operation shall notify the office of any failure or imminent failure, as soon as reasonably practicable after such person has knowledge of such condition or of any impoundment, embankment, or slope that poses a reasonable potential for danger to any persons or property or to the environment; or any environmental protection facility designed to contain or control chemicals or waste which are acid or toxic-forming, as identified in the permit.

(AR) RECORDS----- <u>Y</u>	(FN) FINANCIAL WARRANTY----- <u>N</u>	(RD) ROADS----- <u>N</u>
(HB) HYDROLOGIC BALANCE----- <u>Y</u>	(BG) BACKFILL & GRADING----- <u>N</u>	(EX) EXPLOSIVES----- <u>N</u>
(PW) PROCESSING WASTE/TAILING---- <u>N</u>	(SF) PROCESSING FACILITIES----- <u>N</u>	(TS) TOPSOIL----- <u>N</u>
(MP) GENL MINE PLAN COMPLIANCE- <u>Y</u>	(FW) FISH & WILDLIFE----- <u>N</u>	(RV) REVEGETATION---- <u>N</u>
(SM) SIGNS AND MARKERS----- <u>Y</u>	(SP) STORM WATER MGT PLAN---- <u>N</u>	(RS) RECL PLAN/COMP-- <u>N</u>
(ES) OVERBURDEN/DEV. WASTE----- <u>N</u>	(SC) EROSION/SEDIMENTATION--- <u>Y</u>	(ST) STIPULATIONS----- <u>Y</u>
(AT) ACID OR TOXIC MATERIALS----- <u>N</u>	(OD) OFF-SITE DAMAGE----- <u>N</u>	

Y = Inspected / N = Not inspected / NA = Not applicable to this operation / PB = Problem cited / PV = Possible violation cited

## **OBSERVATIONS**

The Cross Gold Mine was inspected by Patrick Lennberg with the Division of Reclamation, Mining and Safety (Division/DRMS). The inspection was completed as part of the Division's increased inspection frequency, the permit is to be inspected on a quarterly basis. The site was previously inspected by the Division on November 15, 2024 during the fourth quarter inspection of 2024. Richard Mittasch representing Grand Island Resources, LLC (GIR), the Permittee/Operator, accompanied me during the inspection. The weather was clear.

The Cross Gold Mine is a 110(2) underground mine operation permitted for 9.9 acres for the mining of gold, silver, and other minerals. The permit area includes two discharging mine openings: the Cross Mine portal (at the Cross Mine) and the Idaho Tunnel portal (at the Caribou Mine). Discharge from these mines is directed to a series of plastic-lined ponds (Ponds 1 and 2) prior to being treated and discharged into Coon Track Creek at the permitted discharge point (CO0032751). The mine is located on land owned by the permittee. The site is located approximately 4 miles northwest of Nederland, CO in Boulder County, at an elevation of approximately 9,760 feet. Access to the site is from Caribou Road. A separate entrance exists for each of the two mines at the site, the Cross Mine (to the south) and the Caribou Mine (to the north). The approved post-mining land use is a combination of forestry and residential.

On December 16, 2024 the Operator submitted a conversion application for permit M1977-410. The application is to convert the current 110(2) permit to a 112(d)-3 permit. The application was called complete on February 16, 2025 and the close of the public comment period is April 2, 2025. The designated mining operation (DMO) conversion application was a Board Ordered conversion application that was to be submitted prior to January 2025.

The site was not active during the inspection. The only activities reported to be taking place are related to normal operational activities associated with the water treatment plant and general site maintenance. During the comment period for the DMO conversion application the Division was informed by the public that CDPHE had informed GIR, on July 5, 2024, the water treatment plant needs to operate with the direct supervision of an operator in responsible charge (ORC) certified at the appropriate level. CDPHE stated their records indicate the ORC currently on file does not have the correct certification at the classification level required for the wastewater treatment facility. The Division discussed this item while at the water treatment plant. GIR indicated they are in the process of training the current ORC to get the appropriate level of certification to meet CDPHE requirements. The Division followed up with CDPHE and they acknowledged the letter and stated the matter remained outstanding and they would be following up with the GIR again soon. The Division notes there have been no exceedances of CDPHE discharge limits during 2024.

The Division also discussed the 4Q2024 copper exceedance measured at the Caribou Well. The Caribou Well is in the north of the permitted area upgradient of surface activities at the site. Copper at this location has periodically exceeded Reg 41 Table Value Standards since 2022. It is not clear the source of copper as other constituents measured at this location remain below Reg 41 limits. The well is sampled in a different manner than other wells at the site. The well is the source of water for the offices and shop located adjacent to the Idaho Tunnel. Access during the winter restricts safe access to the well head, so GIR collects a sample from a tap located inside the shop. The piping and well are purged, approximately 400 gallons, prior to sample collection. A possible source of the copper may be the piping in the building. GIR stated they are in the process of trying to determine the source of copper. The Division recommended a review of any well construction

information that might indicate a possible source as well. The two down gradient wells, Cross and Compliance, do not reflect the same exceedances with copper not being detected in a measurable amount at the Compliance well. The Caribou and Cross Portal effluent samples have been below Reg 41 standards as well.

At the time of inspection, the Caribou effluent was being discharged at ~20 gpm to Pond 1 through a pipeline that bypasses the 3-series ponds. Pond 1 was also receiving water from Joliet Raise to create storage capacity in anticipation of runoff beginning. Pond 1 water was being run through the water treatment plant and discharged at the CDPHE discharge location at ~60 gpm.

At the Idaho Tunnel, GIR indicated that over the winter and during recent thaws the shotcrete that was installed to stabilize the hillside is cracking and small seeps have developed. GIR stated they are monitoring the seeps and have plans to reapply another layer of shotcrete when weather conditions allow.

Photographs taken during the inspection are attached.

Please contact Patrick Lennberg by email at [patrick.lennberg@state.co.us](mailto:patrick.lennberg@state.co.us) if you have any questions regarding this report.

**Inspection Contact Address**

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## PHOTOGRAPHS



Photo 1: Notice sign for CN-1 at the primary mine entrance



Photo 2: Mine sign at the primary mine entrance





**Photo 3:** Idaho Tunnel entrance



**Photo 4:** 3-Series ponds filled with snow and melt water





**Photo 5:** Pipeline conveying effluent water to Pond 1. Heat tape in the pipeline prevent freezing.



**Photo 6:** Pond 1.





**Photo 7:** Pond 2.



**Photo 8:** Cross Well