




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.

MINE NAME: Cross Gold Mine	MINE/PROSPECTING ID#: M-1977-410	MINERAL: Gold, copper, silver, zinc and lead	COUNTY: Boulder
INSPECTION TYPE: Monitoring	WEATHER: Clear	INSP. DATE: November 15, 2024	INSP. TIME: 09:00
OPERATOR: Grand Island Resources LLC	OPERATOR REPRESENTATIVE: Richard Mittasch	TYPE OF OPERATION: 110(2) - Hard Rock Limited Impact	
REASON FOR INSPECTION: Priority	BOND CALCULATION TYPE: None	BOND AMOUNT: \$546,751.00	
DATE OF COMPLAINT: NA	POST INSP. CONTACTS: None	JOINT INSP. AGENCY: None	
INSPECTOR(S): Patrick Lennberg	INSPECTOR'S SIGNATURE: 	SIGNATURE DATE: November 15, 2024	

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>N</u>	(FN) FINANCIAL WARRANTY----- <u>N</u>	(RD) ROADS----- <u>N</u>
(HB) HYDROLOGIC BALANCE----- <u>Y</u>	(BG) BACKFILL & GRADING----- <u>Y</u>	(EX) EXPLOSIVES----- <u>N</u>
(PW) PROCESSING WASTE/TAILING---- <u>Y</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>N</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 August 30, 2024 during the third 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.

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. The Operator did state that they have recently changed the style of filters used in the water treatment plant. The new filters have a larger capacity to hold sediment and still function correctly. The larger capacity results in less waste generated from water treatment.

Mr. Mittasch stated that they were going to ship stockpiled ore to the Sooner Lucky Strike Mill (M1982-020) for processing. They want to generate tailings material (~50 tons) that then can be used by laboratories to evaluate possible mixing ratios to create a paste backfill that may be used in future operations at the site. The Division stated that the Sooner Lucky Strike Mill may not be able to take and process the material as permitting for that site does not allow for Cross Gold material to be imported and processed. Please be aware that as a condition of the approved permit for the Sooner Lucky Strike Mill they must notify the Division prior to receiving ore. The notification will contain information on the source of the ore and the results of geochemical testing to demonstrate that said ore may be processed at the Mill. Mr. Mittasch stated that he was informing the Division, during this inspection, of their intent of shipping material to the Lucky Strike Mill. The Division will require written notification, including the quantity of material, prior to ore material leaving the site along with a demonstration that the Operator of the Sooner Lucky Strike Mill has provided the appropriate notification to the Division.

Currently, the Operator is diverting the Idaho Tunnel effluent into a pipeline that bypasses the series 3 Ponds and discharges to Pond 1. The water can be directed from Pond 1 to Joliet Raise for storage prior to being treated and released. The 3 series Ponds, 3a, 3b and 3c, were observed during this inspection. The ponds are retaining snow and melt water and have not been cleaned out. The Division has stated the 3 series Ponds could be abandoned through a Technical Revision that provided the details on the proper disposal of the sediment, as determined through chemical analysis, and the remaining geomembrane. Once the revision was approved the Operator could proceed.

The Operator has a portable generator at the site. The purpose of the generator is to provide power to the site in the event Xcel Energy shuts off power, as they did earlier this year, during a weather event without warning. The intent is to get the generator wired in a way that it automatically comes online in the event power is lost.

Photographs taken during the inspection are attached.

Please contact Patrick Lennberg by email at patrick.lennberg@state.co.us if you have any questions regarding this report.

Inspection Contact Address

Richard Mittasch
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Nederland, CO 80466

cc: Jared Ebert, DRMS

ec: Je'an-Paul Brewer, Grand Island Resources LLC, jpbrewer@nedmining.com

PHOTOGRAPHS



Photo 1: Mine sign at the primary mine entrance



Photo 2: The Idaho Tunnel at the Caribou Mine



Photo 3: Ponds 3b and 3c



Photo 4: Pond 3a



Photo 5: Pond 1



Photo 6: Looking at the area where the snow shed and water treatment plant are to be located



Photo 7: Pond 2



Photo 8: Cross Tunnel at the Cross Mine



Photo 9: Ore material in the warehouse



Photo 10: Ore material in the warehouse



Photo 11: Used water treatment filters, new style of filter circled



Photo 12: Looking north across the site.