




**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> Black Cloud Mine	<b>MINE/PROSPECTING ID#:</b> M-2008-083	<b>MINERAL:</b> Lead and zinc	<b>COUNTY:</b> Lake
<b>INSPECTION TYPE:</b> Monitoring	<b>WEATHER:</b> Clear	<b>INSP. DATE:</b> October 18, 2022	<b>INSP. TIME:</b> 08:10
<b>OPERATOR:</b> Resurrection Mining Company	<b>OPERATOR REPRESENTATIVE:</b> Julio Madrid, Will Santos	<b>TYPE OF OPERATION:</b> 112d-2 - Designated Mining Operation	
<b>REASON FOR INSPECTION:</b> Normal I&E Program	<b>BOND CALCULATION TYPE:</b> None	<b>BOND AMOUNT:</b> \$504,790.00	
<b>DATE OF COMPLAINT:</b> NA	<b>POST INSP. CONTACTS:</b> None	<b>JOINT INSP. AGENCY:</b> None	
<b>INSPECTOR(S):</b> Lucas West	<b>INSPECTOR'S SIGNATURE:</b> 	<b>SIGNATURE DATE:</b> October 26, 2022	

**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>Y</u>
(HB) HYDROLOGIC BALANCE----- <u>Y</u>	(BG) BACKFILL & GRADING----- <u>Y</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>Y</u>
(SM) SIGNS AND MARKERS----- <u>N</u>	(SP) STORM WATER MGT PLAN---- <u>N</u>	(RS) RECL PLAN/COMP-- <u>Y</u>
(ES) OVERBURDEN/DEV. WASTE----- <u>N</u>	(SC) EROSION/SEDIMENTATION--- <u>N</u>	(ST) STIPULATIONS----- <u>N</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**

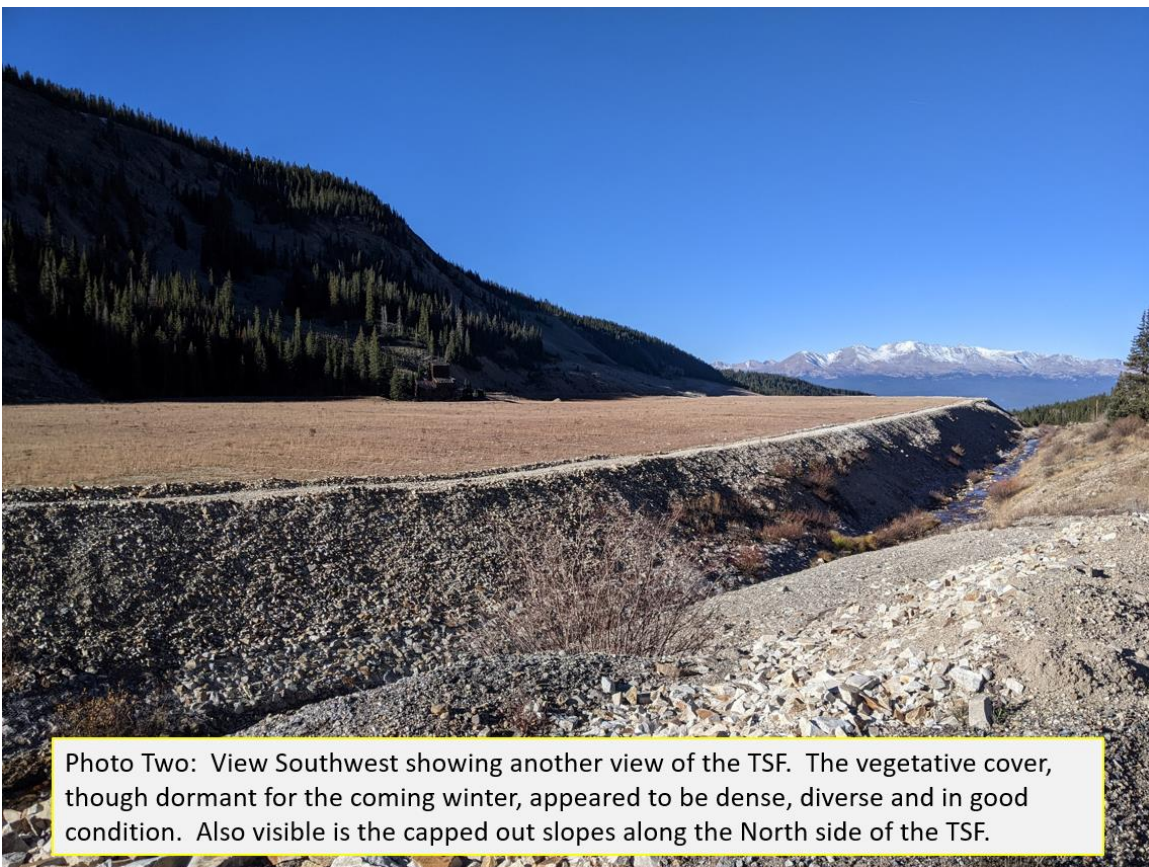
This inspection was conducted as part of the normal monitoring program established by the Colorado Division of Reclamation, Mining and Safety's Active Mines Program. The Black Cloud Mine is a 112d-2 Operation that is in final reclamation and also under the jurisdiction of a Consent Decree implemented by the Federal Environmental Protection Agency. The main areas under the DRMS jurisdiction are the Tailings Storage Facility and surrounding Black Cloud Area as well as the Irene Area. The Irene Area was not observed during this inspection. Other support facilities including the water treatment facility used to treat discharge waters from the Black Cloud as well as the Yak Tunnel was observed however are not under DRMS Jurisdiction. The site is located approximately 5 miles southeast of Leadville, CO in Lake County at an elevation of 10,960. The Division currently holds \$504,790.00 in Financial Warranty for the site. A Reclamation Cost Estimate Update was not performed as a result of this inspection. Six Photos accompany this report to illustrate the observed conditions.

The main purpose of this inspection was to observe the conditions at the Tailings Storage Facility as well as water treatment operations and general area conditions. The Tailings Storage Facility (TSF) consists of a footprint of approximately 52 Acres in Iowa Gulch that includes the storage facility, seepage collection pond, pump houses and emergency Reverse Osmosis Treatment Facility. The TSF has had the out slopes armored with rip rap along the west and north sides, capped with topsoil and seeded for revegetation. Examples of the TSF can be seen in Photos One through Three. The out slopes appeared to be stable at the time of the inspection and no evidence of settling or slumping was noted. The vegetative cover appeared to be dense and diverse and in good condition. No significant barren areas or areas lacking vegetation were noted. Located at the base of the embankment is the seepage collection pond shown in Photo Four. The purpose of this pond is to collect seep water from the TSF, co-mingle it with discharge water from the Black Cloud and send it to the Water Treatment Facility. This water can also be directed to the surge pond located at the treatment facility or in an emergency situation be treated at the TSF area by way of Reverse Osmosis. Flow from the seepage collection pond is highly variable based on seasonal conditions. A new pump house has been installed recently adjacent to the old, to increase capacity, reliability and safety. The new pump houses can be seen in Photo Five. Adjacent to the TSF are two other buildings, one housing the emergency Reverse Osmosis Treatment System, shown in Photo Six, which is tested regularly and placed on standby and the other housing various equipment needed for on-site operations. All buildings were in excellent condition and showed no signs of vandalism or attempted unauthorized entry.

The Black Cloud Area was observed from the vantage of the TSF however access directly to the area was not possible at the time of the inspection. The area appeared to be in good condition and well maintained.

Throughout all areas observed no signs of significant erosion, settling or slumping was observed. No State Listed Noxious Weeds were noted at the time of the inspection and all areas are free from excessive trash and debris. The site appears to be incredibly well managed and maintained in accordance with the Consent Decree. No problems or possible violations were noted during the inspection. All responses to this report should be directed to Lucas West at the Colorado Division of Reclamation, Mining and Safety at 1001 E 62<sup>nd</sup> Ave. Room 215, Denver CO 80216. Direct contact can be made at the Division's Grand Junction Field Office, by phone at 303-866-3567 Ext. 8187 or by email at [lucas.west@state.co.us](mailto:lucas.west@state.co.us).

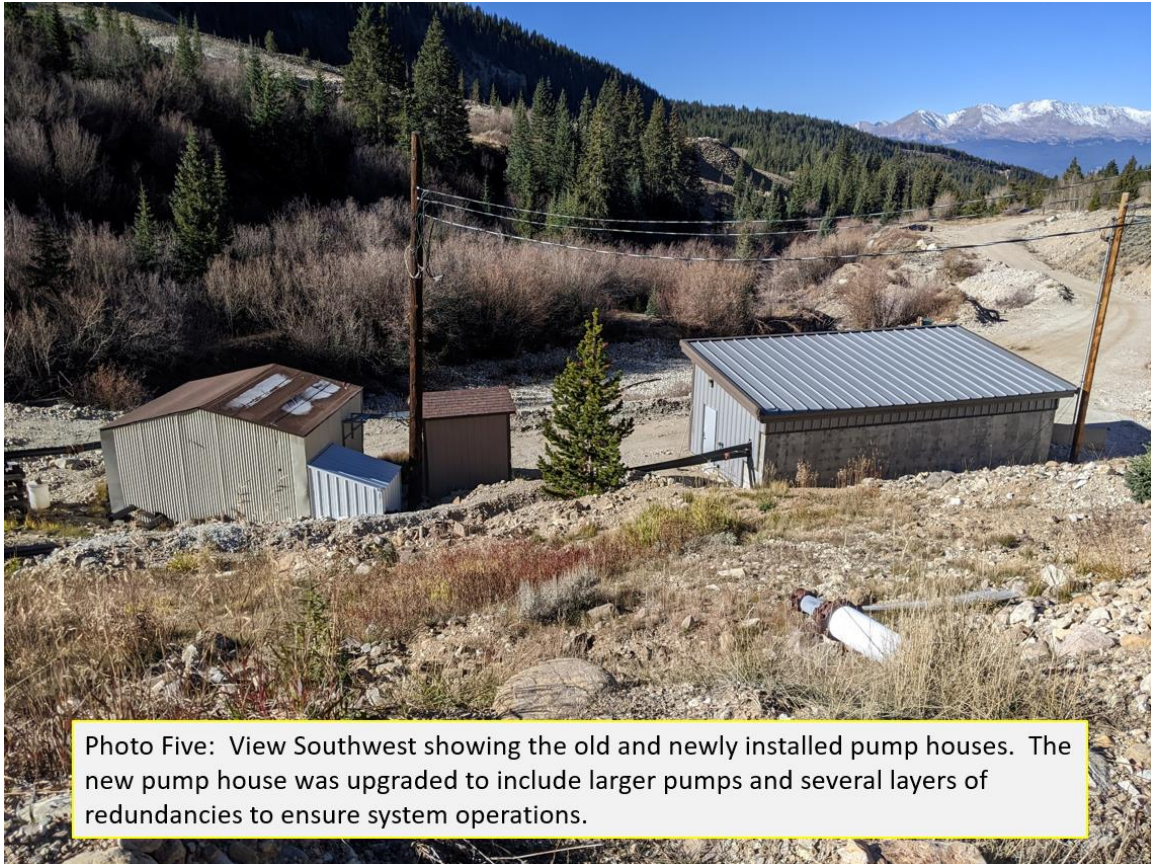
## **PHOTOGRAPHS**











**Inspection Contact Address**

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