




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: Quagmire Creek	MINE/PROSPECTING ID#: M-1990-047	MINERAL: Gravel	COUNTY: Fremont
INSPECTION TYPE: Monitoring	INSPECTOR(S): Timothy Cazier, P.E.	INSP. DATE: November 18, 2021	INSP. TIME: 12:40
OPERATOR: Fremont County	OPERATOR REPRESENTATIVE: Sterling Rife	TYPE OF OPERATION: 110c - Construction Limited Impact	
REASON FOR INSPECTION: Normal I&E Program	BOND CALCULATION TYPE: None	BOND AMOUNT: \$0.00	
DATE OF COMPLAINT: NA	POST INSP. CONTACTS: U.S.BLM	JOINT INSP. AGENCY: None	
WEATHER: Clear	INSPECTOR'S SIGNATURE: 	SIGNATURE DATE: February 25, 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>Y</u>	(FN) FINANCIAL WARRANTY----- <u>NA</u>	(RD) ROADS----- <u>NA</u>
(HB) HYDROLOGIC BALANCE----- <u>Y</u>	(BG) BACKFILL & GRADING----- <u>Y</u>	(EX) EXPLOSIVES----- <u>NA</u>
(PW) PROCESSING WASTE/TAILING---- <u>Y</u>	(SF) PROCESSING FACILITIES----- <u>Y</u>	(TS) TOPSOIL----- <u>NA</u>
(MP) GENL MINE PLAN COMPLIANCE- <u>Y</u>	(FW) FISH & WILDLIFE----- <u>Y</u>	(RV) REVEGETATION---- <u>Y</u>
(SM) SIGNS AND MARKERS----- <u>Y</u>	(SP) STORM WATER MGT PLAN---- <u>Y</u>	(RS) RECL PLAN/COMP-- <u>Y</u>
(ES) OVERBURDEN/DEV. WASTE----- <u>NA</u>	(SC) EROSION/SEDIMENTATION--- <u>Y</u>	(ST) STIPULATIONS----- <u>Y</u>
(AT) ACID OR TOXIC MATERIALS----- <u>Y</u>	(OD) OFF-SITE DAMAGE----- <u>Y</u>	

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

OBSERVATIONS

This inspection was conducted by Tim Cazier (DRMS) as part of the regular monitoring program. The Permittee (Fremont County) was represented by Mr. Sterling Rife during the inspection. The Quagmire Pit is adjacent to Fremont County Rd 12 about 12 miles north of Cotopaxi. This is a 110c gravel mine undergoing final reclamation.

Availability of Records: Annual fees are paid through January 2022. The previous inspection was on April 27, 2017. The approved post-mine land use is wildlife habitat/rangeland. There are no open infractions. Both the surface and minerals are managed by the Bureau of Land Management (BLM).

Acid And Toxic Materials: No acid or toxic materials are involved in this operation or stored on site.

Backfilling and Grading: Backfilling and grading have been completed.

Financial Warranty: As the site is permitted by the County, no bond is required.

Fish and Wildlife: No impact to wildlife was observed.

Hydrologic Balance: No standing water was observed in the pit and no exposed groundwater was observed.

Gen. Compliance with Mine Plan: The operation is in final reclamation. The maximum allowed disturbed area is 6.4 acres. Google Earth was used to measure the disturbed area, which was estimated to be 3.6 acres, based on 2019 imagery.

Off-site Damage: The operation appeared to be confined to the permit boundary, based on Google Earth review and site observations.

Processing Waste: No processing waste was observed.

Right of Entry: Fremont County's permit with the BLM was current at the time of the inspection. However, the BLM confirmed this permit expired on January 20, 2022. The expired permit means no production is allowed, but that the reclamation requirements are still in place.

Reclamation Success: Mr. Rife indicated the entire site had been seeded, and the limited available topsoil that was salvaged had been placed on the flatter areas as required by the approved reclamation plan (pit floor and west side of the south end). The approved reclamation plan allows "Where topsoil is not sufficient in quantity to cover disturbed ground 6 inches in depth, subsoils and weathered bedrock will be ripped, stabilized, and planted with the reclamation seed mix." The reclamation on the north end has followed this approach. Furrows along the contours were observed (see **Photo 1**) and are clearly visible in Google Earth images from 2016 and 2019. Furthermore, no erosion rills or gullies were observed on the north, contoured area, indicating the slope is erosionally stable despite the lack of established vegetation.

Revegetation: Vegetation in the topsoiled areas appeared to be gradually getting established (see **Photos 2 and 3**). A few plants that appeared to be knapweed were observed (see **Photos 3 and 4**). [This is a noxious weed List B species and should be treated before it becomes pervasive and a problem.](#)

Sediment Control: No significant erosion problems were observed, although some minor rilling was observed in the vegetated area on the west side of the south end (see **Photo 2**). No BMPs were needed at the time of the

inspection.

Support Facilities On-site: None observed.

Signs and Markers: The permit sign was properly posted (see **Photo 5**). As the site is in final reclamation and the disturbed area has not increased since the boundary markers were checked during the 2013 inspection, the remote boundary markers were checked.

Permit Stipulations: There are no permit stipulations.

Storm Water MGT Plan: No oil or fuel spills observed. Stormwater drains to the pit and infiltrates.

Topsoil: All salvaged topsoil had been placed.

Please contact Tim Cazier (303)866-3567 ext. 8169 or email at tim.cazier@state.co.us if you have any questions regarding this report.

PHOTOGRAPHS



Photo 1. North end with ripped furrows along the contours (looking north).

PHOTOGRAPHS (cont.)



Photo 2. Topsoiled south end with establishing vegetation and minor rilling (looking SW).

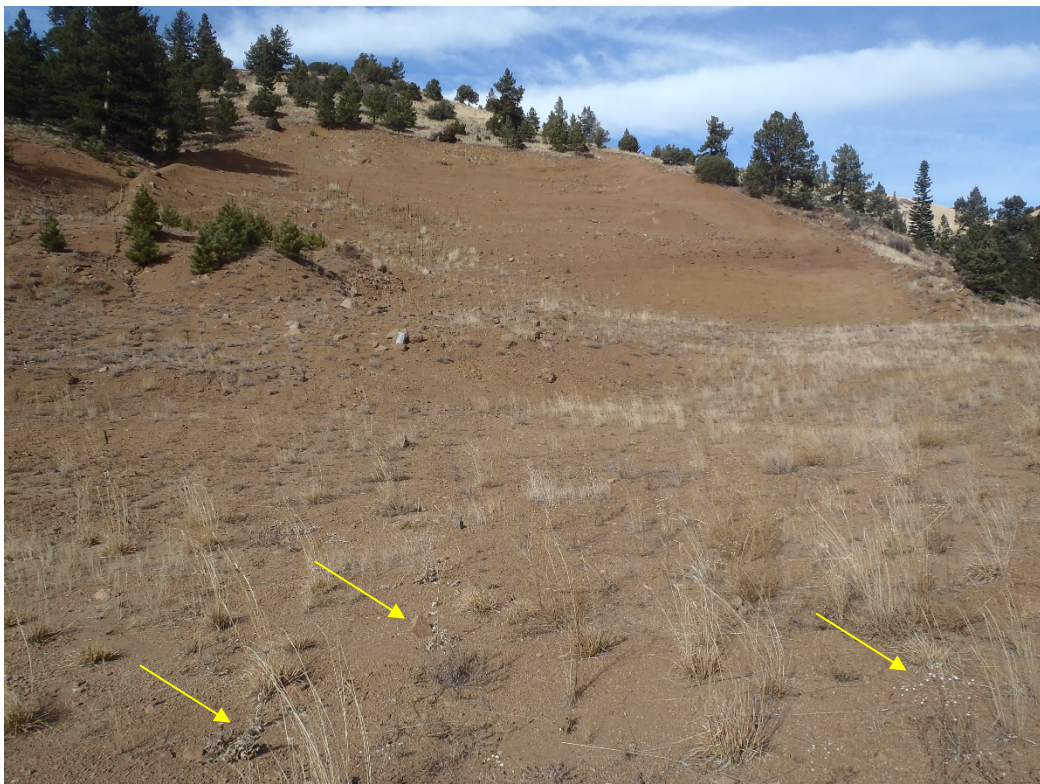


Photo 3. Topsoiled pit floor with establishing vegetation (looking north, possible knapweed in foreground).

PHOTOGRAPHS (cont.)



Photo 4. Possible knapweed observed on pit floor.



Photo 5. Permit sign at entrance.

Inspection Contact Address

Sterling Rife
Fremont County
1170 Red Canyon Road
Canon City, CO 81212

ec: DRMS file
Stephanie Carter, BLM