Minerals 3600 Mine and Reclamation Inspection

U.S. Department of the Interior
Bureau of Land Management
Royal Gorge Field Office

The BLM has conducted an inspection of your operations, which concludes whether the documented operations on file with BLM are compliant or noncompliant. Any non-compliance issues are reported in the Additional Actions Necessary section of this inspection.

Operation Type: ☑ Surface – continual ☐ Surface – intermittent ☐ Underground

Date: Mar 7, 2019 **Time:** 10:10 **Weather:** Precipitation , Cloudy	**Operation Name:** CO-Quarries: Mica White **Case Number:** COC-078191 **CDRMS #:** M1992058
Attendees **BLM:**A Sanderson & J. Rambo **Operator(s):** Greg Cleeves **Other(s):** None	**General** **Operation(s) are in compliance with documentation on file** ☑ Yes ☐ No ☐ N/A **Operation(s) and disturbance on-site coincide with the operations and access on file** ☑ Yes ☐ No ☐ N/A

Inspection Purpose: ☐ Pre-Operations ☑ General ☐ Final ☐ Trespass ☐ Complaint

Inspection Items	Compliant	Non-Compliant	N/A
1. Method of Operations Hardrock Quarry, Pit, Other			
a. **Hardrock Quarry**	☑	☐	☐
• Operations Equipment	☑	☐	☐
• Processing Equipment	☑	☐	☐
• Blasting ☐ Internal ☐ External	☐	☐	☑
• Interim Benches	☑	☐	☐
• Final Benches	☑	☐	☐
• Working Floor	☑	☐	☐
b. Pit	☐	☐	☑
• Operations Equipment	☐	☐	☐
• Processing Equipment	☐	☐	☐
• Slopes	☐	☐	☐
c. Other	☐	☐	☑
• Operations Equipment	☐	☐	☐
• Processing Equipment	☐	☐	☐
2. Site Conditions			
a. Material/Waste Rock Management	☑	☐	☐
b. Erosion & Stormwater Control	☑	☐	☐
c. Man-made Structures	☑	☐	☐
d. Weed Management	☑	☐	☐
e. Safety Hazards	☑	☐	☐
f. Interim Reclamation	☐	☐	☑

Inspection Items	Compliant	Non-Compliant	N/A
3. Housekeeping			
a. Container Management	☑	☐	☐
b. Spills/Leaks Observed	☑	☐	☐
c. Hazardous Substances/POL Management	☑	☐	☐
d. General Housekeeping	☑	☐	☐
4. Access			
a. Road Management	☑	☐	☐
b. Berms	☑	☐	☐
c. Security	☑	☐	☐
d. Signage	☑	☐	☐
e. Surface Water Controls	☑	☐	☐
5. Quality Assurance/Quality Control			
a. Routine Site Conditions Monitoring	☑	☐	☐
b. Air, Water, Noise, Other Monitoring	☑	☐	☐
c. Monitoring Reporting	☑	☐	☐
d. Regulatory Submittals	☑	☐	☐
e. Other Agency/Entity Permits	☑	☐	☐
7. Final Reclamation	☐	☐	☑
a. Exploration/Sampling Location	☐	☐	☐
b. Access Roads/Trails	☐	☐	☐
c. Grading	☐	☐	☐
d. Revegetation	☐	☐	☐
e. Removal of Structures	☐	☐	☐
f. Free of Trash	☐	☐	☐

Additional Actions Necessary

- If standing water continues to pond on the working floor for extended periods of time, the operator should consider augmenting the on-site conditions to coincide with the Stormwater Management Plan (SWMP) or adjust the SWMP to reflect on-the-ground conditions.

- All federal, state and county permits and corresponding management plans should be available on-site for reference.

Final Notes

General Comments:

- Operations were active during inspection.

- Previous Inspection "Watch" Items addressed:
  - Earthwork was completed to heighten the berms located along the haul/access road.
  - Fugitive dust was not present and mitigation measures are being taken to control fugitive dust

- Catchment ponds along the access/haul road were adequate (ref. image 6). Storm/melt water are being adequately diverted from the access/haul road.

- Approximately 2-3'' of standing water was observed on the working floor beneath the crusher/screener. Due to an abundant amount of precipitation/snow in the general area, the site was experiencing abnormal wet conditions.

- POLs and other chemicals are adequately stored approximately 75’ from the working floor (ref. images 16-17). No spills/leaks were observed. Follow-up conversation with the operator, indicated that the ponding water had dissipated within 48-hours.

Date inspection shared with CDRMS:

Date inspection shared with Operator:

Images

Image 1:

Comment: Entrance is through a locked gate along C.R. 45

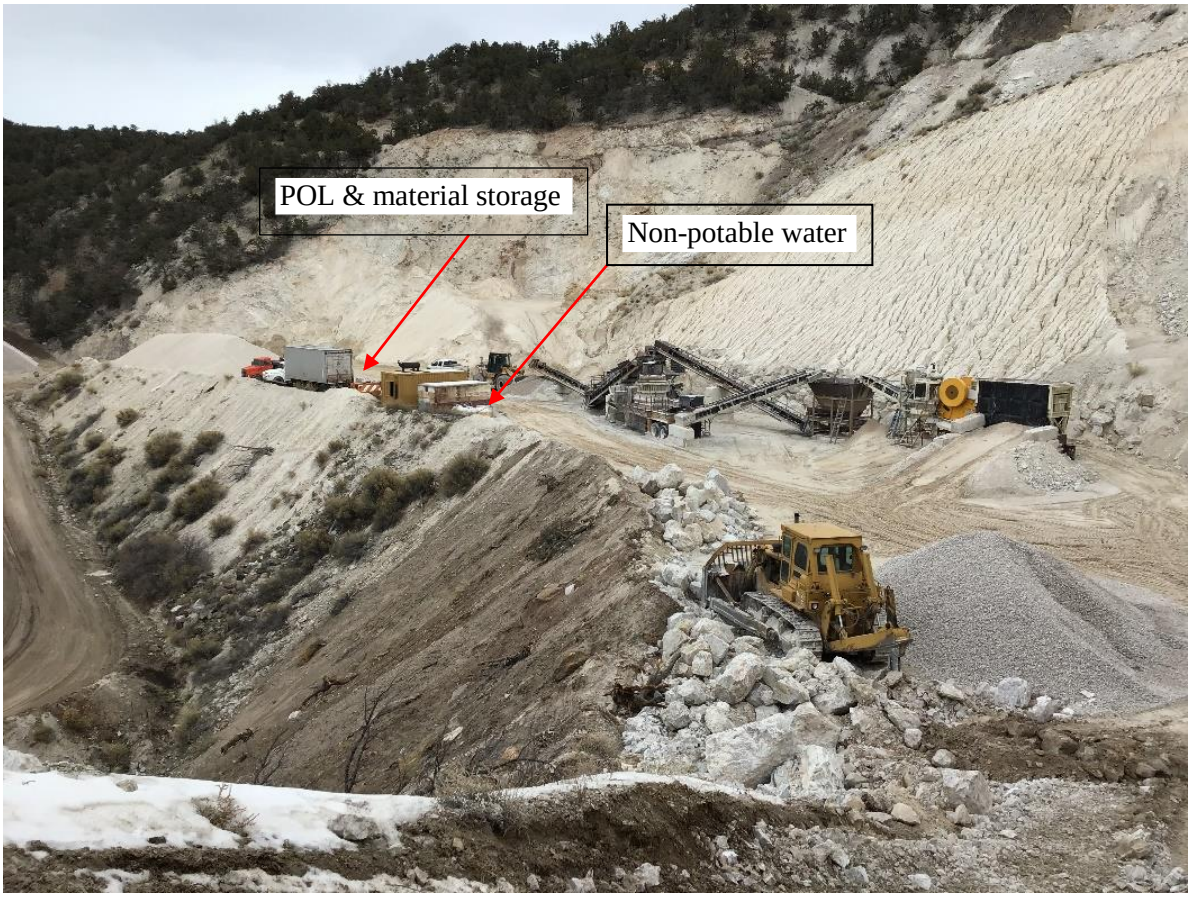
Image 2-5:

Comment: Bermed access/haul road leading to both the active mine site and lower fines staging area. No evidence of significant erosion or abundant sediment accumulation. Drainage channels appear to be adequately diverting all storm/melt water from the access/haul road.

Image 6:

Comment: Catchment pond along the access road emplaced for storm/meltwater management

Image 7:



Comment: Western view from bench 1 of the working floor, various types of equipment, materials storage and parking area

Image 8-10:

Comment: Non-portable water and mining related material stored along the southern boundary of the working floor. All storage containers are labeled. Rubber-lined POL secondary containment is in use.

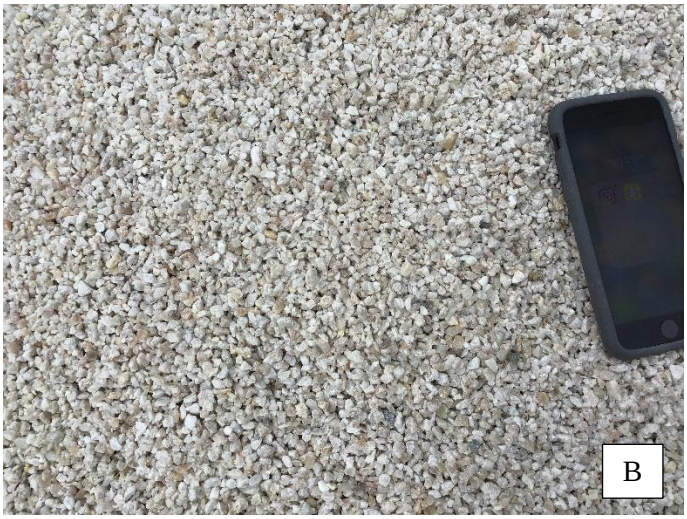
Image 11-16:

Comment: Equipment – Crusher/Screener with grizzly and 2 conveyor belt system, front-end wheel loader, track dozer and articulated haul truck (located along access road).

Image 17-18:

Comment: 2-3” of standing water beneath the crusher/screener

Image 19-22:



Comment: Various sized processed materials – (A) 1 ½“, (B) ¼ to ⅛”, (C) roadbase ¾“and (D) fines stockpiles.

Image 23-26:

Comment: Active highwall – highwall appears to be stable given the type of geologic material. The highwall has been re-enforced with large boulders to prevent sloughing (image C). Multiple benches are in place to access various sections of the highwall. A new bench along the northern face is currently being constructed (image B).

Image 27-32:

Comment: Lower staging area for all fines material. All fines are stockpiled for later use during final reclamation. Stockpiles have adequate angle of repose.