




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: Pikeview Quarry	MINE/PROSPECTING ID#: M-1977-211	MINERAL: Limestone (general), granite gneiss and do	COUNTY: El Paso
INSPECTION TYPE: Monitoring	WEATHER: Clear	INSP. DATE: September 19, 2023	INSP. TIME: 10:00
OPERATOR: Riverbend Industries Inc.	OPERATOR REPRESENTATIVE: Jerry Schnabel	TYPE OF OPERATION: 112c - Construction Regular Operation	
REASON FOR INSPECTION: Normal I&E Program	BOND CALCULATION TYPE: None	BOND AMOUNT: \$13,389,784.00	
DATE OF COMPLAINT: NA	POST INSP. CONTACTS: None	JOINT INSP. AGENCY: None	
INSPECTOR(S): Zach Trujillo	INSPECTOR'S SIGNATURE: 	SIGNATURE DATE: September 26, 2023	

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>Y</u>	(EX) EXPLOSIVES----- <u>N</u>
(PW) PROCESSING WASTE/TAILING---- <u>N</u>	(SF) PROCESSING FACILITIES----- <u>N</u>	(TS) TOPSOIL----- <u>Y</u>
(MP) GENL MINE PLAN COMPLIANCE- <u>N</u>	(FW) FISH & WILDLIFE----- <u>N</u>	(RV) REVEGETATION---- <u>Y</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>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 by Zach Trujillo of the Colorado Division of Reclamaing Mining and Safety (Division) as part of the continuing planned monthly inspections to observe the backfill placement for the final reclamation of the Pikeview Quarry. Jerry Schnabel representing Riverbend Industries and Paul Kos of Stantec were present during the inspection. Julie Spawn and Madison Banks of USFS also attended the inspection.

The Pikeview Quarry is accessed from near the intersection of Centennial Blvd. and Vindicator Dr. north of Colorado Springs. The quarry has ceased extraction of mined product and is actively focused on final reclamation. The focus of this inspection was to observe backfill placement and compaction efforts along with additional reclamation activities. This included reviewing compaction testing records and slope monitoring data.

Records

Compaction testing were discussed but not reviewed during the inspection. Backfill placement only begun the day prior to the inspection and records of compaction testing from the day had not yet been physically documented yet. However, mine representatives stated a total of 7 areas received compaction testing. 6 of the 7 areas met or exceeded the minimum required compaction and the remaining test area was going to be recompacted and tested.

Prism data from the GEOMOS system which tracks the slide area movement was also presented during the inspection. Trend lines generated from data points along the constructed buttress shows a flat pattern which indicates stability with minimal or no movement. Data associated with two of the prisms (BR1 and BR2) located along the large boulder in the upper portions of the slide region showed signs of minimal settlement. While there has been minor settlement, the overall trend has flattened which correlates to less settlement occurring over time. After discussions regarding the trend lines, it is believed that the settlement is most likely due to the mass of the boulder over unconsolidated material. The settlement due to the boulder is isolated and does not indicate mass slope stability issues. This is also backed by the prism data provided for the slope buttress.

Backfill

Backfill and compaction efforts were occurring during the inspection. The new contractor is now in place and begun backfilling operations the day prior to the inspection. Backfill is currently coming from the northern borrow area by scrapers and truck/excavator operations. Overall, the backfill remains stable.

Topsoil

The first bench of the buttress has been fully topsoiled and roughened by cross-ripping to help minimize the potential for erosion. The north-eastern portion of the side has also been fully topsoiled as well. Small terrace like benches have been created for future tree planting along the slope.

Two topsoil piles were observed on site. One was along the lower bench below the buttress and the other was staged along the bench created along the north. The mine representative stated that the two piles were to be

blended to create a more suitable growth media prior to placement along the regraded areas.

Hydrology

A Technical Revision (TR) was recently received by the Division to update the reclamation plan to match the current construction of the buttress ditch. The TR adjusts the drainage from the buttress area to route to the north and eliminate the southern channel. Rip-rap has been staged below the buttress in varying sizes in preparation for lining of the finalized ditches. No placement has occurred to the date of this inspection.

The gully that formed along the face of the buttress has been repaired. The area has been backfilled and topsoiled and conforms to the slope.

Revegetation

While not within the Pikeview Quarry permitted area, the revegetation along the northern slopes of the Colorado Springs property boundary has become more established. The region that was matted shows good cover and the region that was hydromulched has begun to show more establishment.

The mine representative stated that seeding operations along the lower section of the buttress was going to occur the day after the inspection. The area was to be drill seeded along with hydromulch based on discussions. Future reseeding methods will depend on the slope of the area with steeper regions having a mat installed while shallower slopes being hydromulched.

Weed spraying and weed removal occurred prior to the inspection. Dead and wilted weeds were observed throughout the site. Additional hand removal was also used along the areas with myrtle spurge. The mine representative also stated future additional spraying and hand removal will occur in areas as needed.

PHOTOGRAPHS



North borrow area.



Gully repair along buttress slope.



Northern slope topsoiled and benched for future trees.



Riprap segregation and storage.

Inspection Contact Address

Jerry Schnabel
Riverbend Industries Inc.
425 South Financial Place , Suite 3100
Chicago, IL 60605

Enclosure

CC: Tim Cazier, DRMS
Michael Cunningham, DRMS
Amy Titterington, USFS