




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: March 12, 2024	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: March 20, 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>Y</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>Y</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>Y</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>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 by Zach Trujillo and Hunter Ridley of the Colorado Division of Reclamation 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. David Deitemeyer of the City of Colorado Springs also attended the inspection. Weather during the inspection was sunny with a high temperature of 55 degrees Fahrenheit. Ground conditions were dry.

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 records were reviewed back to the previous inspection (February 28, 2024). All tests in this period (February 29, 2024 to March 12, 2024) demonstrated at least 90 percent compaction which meets or exceeds the approved specification.

Prism data from the GEOMOS system which tracks the slide area movement was also presented during the inspection. Lines generated from data points along the constructed buttress shows a flat pattern which indicates stability with minimal or no movement. Previous inspections noted that data associated with a newly installed prism, BR-3, showed signs of settlement. Current monitoring data trend line for BR-3 has leveled off indicating settlement has reduced from compaction efforts and expected natural settlement from additional backfill placement in the surrounding area. Monitoring data for elevation 7400' has shown some settlement however this is expected as ongoing placement of backfill material and compaction efforts continue at this bench elevation. Overall, the monitoring data shows little to no settlement and no horizontal displacement indicating global stability of the buttress and backfilled slope.

Backfill

Backfill operations were occurring during the inspection. Current operations included excavator and haul truck teams taking backfill material from the Lower Borrow Area and staging it along the upper portions of the backfilled slope. Dozers were then grading the material in lifts. A circular traffic pattern was being used to ensure safety along the narrow travel corridor of the upper portion of the slope. While material was primarily being taken from the Lower Borrow Area, additional material exists within the other two borrow areas, the Shop Borrow Area and South Borrow Area. During the inspection it was discussed that the primary backfill material will come from the Lower Borrow and the South Borrow Areas. If necessary, additional material will be used from the Shop Borrow Area as needed in a limited manner due to a lack of suitable backfill material.



Lower and Shop Borrow Areas.



Backfill placement and regarding.

Topsoil

Topsoil placement and grading was occurring during the inspection along the completed benches of the backfilled slope. A primary stockpile for topsoil is observed along the staging area near the survey building.



Topsoil placement.

Hydrology

Collection ditches along the face of the backfilled slope were inspected. All collection ditches along the face of the backfilled are sloped to north where it intersects with the North Ditch. It has been previously discussed that rock outcroppings have been encountered that will potentially impact the current hydrology design along the upper portions of the backfill. Currently the Mine is evaluating potential options and will submit a Technical Revision to update the hydrology of the site based on site conditions encountered. Additionally, as continued regrade work occurs along the North Ditch, the large bedrock feature ("Dragon's Back") that was encountered along the North Ditch pathing was discussed. Current plans are to remove as much of the bedrock feature as possible by mechanical means and will incorporate blasting as needed to establish the North Ditch route.

The remaining culvert that used to take the upper drainage flow below the upper access road to the North Ditch has been dugout and dismantled. Currently the culvert is staged on site and is to be removed from the site and disposed of per discussions with the Operator.



"Dragon Back"

Revegetation

Tree planting and the associated irrigation system was observed. Tree plantings have occurred along the north-eastern portion of the mine site. Above the trees are water storage tanks which gravity feed water through an irrigation line to the trees. Some of the previously planted trees have been removed due to failure and the need for additional backfill material along the Shop Area. Mine personnel discussed future tree plantings prior to the site inspection during the pre-inspection meeting. Future seeding efforts were also discussed and are expected to occur following topsoil placement this spring.

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Enclosure

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