




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: Lyons Quarry	MINE/PROSPECTING ID#: M-1977-141	MINERAL: Quartz (quartzite/qua sandstone)	COUNTY: Boulder
INSPECTION TYPE: Surety-Related Inspection	INSPECTOR(S): Patrick Lennberg	INSP. DATE: August 26, 2022	INSP. TIME: 09:30
OPERATOR: Holcim - WCR, Inc.	OPERATOR REPRESENTATIVE: Wyatt Webster, Jessica Walker	TYPE OF OPERATION: 112c - Construction Regular Operation	
REASON FOR INSPECTION: Surety Related	BOND CALCULATION TYPE: Complete Bond	BOND AMOUNT: \$9,887,461.00	
DATE OF COMPLAINT: NA	POST INSP. CONTACTS: None	JOINT INSP. AGENCY: None	
WEATHER: Clear	INSPECTOR'S SIGNATURE: 	SIGNATURE DATE: August 31, 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>Y</u>	(RD) ROADS----- <u>Y</u>
(HB) HYDROLOGIC BALANCE----- <u>N</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>N</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>Y</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 was a surety-related inspection of the Lyons Quarry (M1977-141) conducted by Patrick Lennberg of the Division of Reclamation, Mining, and Safety (Division/DRMS) in response to a Succession of Operators application (Revision No. SO-3) that was received by the Division on June 21, 2022 to transfer the permit from Aggregate Industries – WCR, Inc. to Holcim – WCR, Inc. The Division approved SO-3 on July 29, 2022. Wyatt Webster and Jessica Walker representing the successor operator, Holcim – WCR, Inc., were present during the inspection. The site was previously inspected by the Division on April 28, 2021.

The Lyons Quarry is located in Boulder County approximately 2.25 miles southwest of Lyons, Colorado and is situated south of the South Saint Vrain Creek and Hwy 7. The site is accessed from the east via Old St. Vrain Rd. The affected lands are owned by Boulder County. The approved post-mining land use is rangeland. A mine sign was observed at the entrance to the mine as required by Rule 3.1.12. It should be noted the mine sign needs to be updated to reflect the new permittee.

This is a 112c operation permitted for 71 acres to mine quartz monzonite for construction material use. Pre-law disturbances were present in the area, the majority of which were included within the permit area. The approved mining plan includes six mining areas and a non-mining disturbance area for material processing, stockpiling, and equipment storage located adjacent to the creek. The last mining activity at the site was in 2009. The Division estimates total disturbance to the site consists of 54.2 acres split between two reclamation areas. Reclamation Area 1 is 17 acres in area and Reclamation Area 2 is approximately 37.2 acres in size.

The site was not active at the time of inspection aside from a drill rig advancing boreholes for blasting. The site is in active reclamation with approximately 40% of total site reclamation being completed to date. Technical Revision 5 (TR-5) approved in July 2021 updated the reclamation plan for Reclamation Area 1 consisting of two quarry areas. As a result of TR-5 the bond calculation for reclamation of Area 1 was estimated to be \$5,384,048. Reclamation of Area 2 was updated through the approval of TR-4, approved in December of 2020, and the cost estimate was determined to be \$540,577. The compiled bond estimate for the site was determined to be \$5,924,625.00 in a letter sent to the Operator on July 2, 2021. Currently, the Division holds \$9,887,461.00 in surety for the site which is an excess of \$3,962,836.00. Given the state of reclamation at the site and an estimated completion date of most activities in the next 8-9 months the cost estimate approved in 2021 is sufficient at this time. It is recommended the Operator submit a Surety Reduction request to reduce the currently held amount to the amount approved in TR-5. Once all reclamation activities at the site have been completed the Operator make seek another surety reduction to reduce the required bond amount even further.

Photographs taken during the inspection are attached.

Please contact Patrick Lennberg (303)866-3567 ext. 8114 or email at patrick.lennberg@state.co.us if you have any questions regarding this report.

Inspection Contact Address

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PHOTOGRAPHS



Photo 1: Mine sign at entrance to permit



Photo 2: Signage at gated entrance to mine areas



Photo 3: Scour berm in place, partially complete



Photo 4: Quarry area 2 backfill progress, ~50% complete



Photo 5: Wildlife present at the site during reclamation activities



Photo 6: Quarry 1 in the background and the pond has been backfilled and was located under stockpile to right of photo



Photo 7: Quarry 2 backfill progress



Photo 8: Overview of Reclamation Area 2, looking west



Photo 9: Overview of Reclamation Area 2, looking north



Photo 10: Overview of Reclamation Area 2, looking northeast