




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 Pit	MINE/PROSPECTING ID#: M-1974-015	MINERAL: Sand and gravel	COUNTY: Boulder
INSPECTION TYPE: Monitoring	INSPECTOR(S): Peter S. Hays	INSP. DATE: March 8, 2018	INSP. TIME: 09:00
OPERATOR: Martin Marietta Materials, Inc.	OPERATOR REPRESENTATIVE: Julie Mikulas	TYPE OF OPERATION: 112c - Construction Regular Operation	

REASON FOR INSPECTION: Normal I&E Program	BOND CALCULATION TYPE: Partial Bond	BOND AMOUNT: \$1,684,500.00
DATE OF COMPLAINT: NA	POST INSP. CONTACTS: None	JOINT INSP. AGENCY: None
WEATHER: Clear	INSPECTOR'S SIGNATURE: 	SIGNATURE DATE: April 5, 2018

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>Y</u>	(RD) ROADS----- <u>N</u>
(HB) HYDROLOGIC BALANCE----- <u>Y</u>	(BG) BACKFILL & GRADING----- <u>N</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>N</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>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 and found in compliance / N = Not inspected / NA = Not applicable to this operation / PB = Problem cited / PV = Possible violation cited

OBSERVATIONS

The Lyons Pit was inspected by Peter Hays with the Division of Reclamation, Mining and Safety in response to two email comments received by the Division from Ms. Amanda Dumenigo and Ms. Anne Whitehurst on February 13 and 14, 2018, respectively. The comments were forwarded to the Operator by the Division. Mrs. Julie Mikulas with Martin Marietta Materials, Inc. was present during the inspection. The site was previously inspected by the Division on March 22, 2017. Two problems were cited by the Division during the previous inspection for hydrologic balance and sediment control.

Ms. Whitehurst's comments concerned possible effects on flooding, air and noise pollution and traffic concerns due to the approved mining activity at the site. The issues of air and noise pollution and traffic impacts are not within the jurisdiction of the Division and the Mined Land Reclamation Board. The Colorado Department of Public Health and Environment (CDPHE) has authority over air pollution issues and Boulder County is responsible for reviewing noise and traffic impacts from the mining operation. The Operator was required to evaluate the site for flooding impacts through the Division's permit review process. The Division accepted the Operator's Floodplain Impact Analysis dated December 10, 1999 as part of the last amendment to the permit. Additionally, the Operator is required to comply with all FEMA requirements as administered by Boulder County to any alterations to the floodplain.

Ms. Dumenigo's comments regarded the Boulder County Special Use Permit status and process for the site and site compliance with the Office of the State Engineer (SEO) and adequate flood protection plan for the site. As discussed in this report, the Operator has demonstrated the site is currently in compliance with the SEO and has committed to comply with the requirements of the SEO in the future. As stated above, the Operator was required to evaluate the site for flooding impacts through the Division's permit review process. The Division accepted the Operator's Floodplain Impact Analysis dated December 10, 1999 as part of the last amendment to the permit. Additionally, the Operator is required to comply with all FEMA requirements as administered by Boulder County to any alterations to the floodplain. The Operator is in the process of determining the site restoration plans with Boulder County. The flood mitigation plan may need to be updated to include inlet/outlet structures depending on the final flood restoration plan developed by Boulder County and the Operator.

The Operator emailed a copy of the augmentation agreement with St. Vrain and Left Hand Water Conservancy District dated August 15, 1977 and a copy of the well permit, 038110-F, for the site. The Operator stated during the inspection a Substitute Water Supply Plan (SWSP) was not required by the Division of Water Resources until the site was active. The Operator stated a SWSP would be obtained prior to restating mining operations at the site. The hydrologic balance problem cited during the last inspection is considered resolved by the Division.

On February 2, 2018, the Operator requested an extension to the corrective action due date to complete the sediment control corrective action cited during the last inspection until June 25, 2018. The Division will approve the extension request. The property is owned by Boulder County. The County has begun flood reconstruction activities in the northwest corner of Lake #2. The extension request will allow Boulder County to complete the immediate regrading work for slope stabilization in Lake #2 and allow the County and Martin Marietta Materials, Inc. to determine the future mining and reclamation plans for the site. The Division will require the Operator to submit a technical revision to update the mining and reclamation plans for the site depending how the site will be mined and reclaimed to complete the flood impact reconstruction.

The 2009 amendment application for the site included a flood impact mitigation plan. As previously stated, the Operator is in the process of determining the site restoration plans with Boulder County. The flood mitigation plan may need to be updated through the technical revision process to include inlet/outlet structures depending on the final flood restoration plan developed by Boulder County and the Operator.

The slurry wall around Lake 4 was breached in two locations along the western bank and in the southeast corner. The Operator stated Boulder County is in the bid process to have the slurry wall repaired.

Photographs taken during the inspection are attached.

Inspection Contact Address

Mrs. Julie Mikulas
Martin Marietta Materials, Inc.
1800 N. Taft Hill Road
Fort Collins, CO 80521

Ec: Wally Erickson, DRMS

PHOTOGRAPHS



Lyons Pit mine sign



View of partially graded northwest corner of Lake 2 looking southeast from breach location



View of partially graded northwest corner of Lake 2 looking south from breach location



View of partially graded northwest corner of Lake 2 looking east from the breach location



View of Lake 3 from the southwest corner of the lake looking at flood damage



View of Lake 3 from the southwest corner of the lake looking at flood damage



View of the south slurry wall breach in Lake 4 looking north



View of the south slurry wall breach in Lake 4 looking northeast



View of the north slurry wall breach in Lake 4 looking northwest



View of flood damage in Lake 4 from the southwest corner looking north