




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: Riverbend Operation	MINE/PROSPECTING ID#: M-2000-016	MINERAL: Sand and gravel	COUNTY: Weld
INSPECTION TYPE: Monitoring	INSPECTOR(S): Peter S. Hays	INSP. DATE: August 29, 2016	INSP. TIME: 13:00
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: IT.Bondcalculationtype.CD.Desc	BOND AMOUNT: \$3,450,600.00	
DATE OF COMPLAINT: NA	POST INSP. CONTACTS: None	JOINT INSP. AGENCY: None	
WEATHER: Clear	INSPECTOR'S SIGNATURE: 	SIGNATURE DATE: September 28, 2016	

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>N</u>	(RD) ROADS----- <u>N</u>
(HB) HYDROLOGIC BALANCE----- <u>N</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>N</u>	(SP) STORM WATER MGT PLAN---- <u>N</u>	(CI) COMPLETE INSP---- <u>N</u>
(ES) OVERBURDEN/DEV. WASTE----- <u>N</u>	(SC) EROSION/SEDIMENTATION--- <u>N</u>	(RS) RECL PLAN/COMP-- <u>N</u>
(AT) ACID OR TOXIC MATERIALS----- <u>N</u>	(OD) OFF-SITE DAMAGE----- <u>N</u>	(ST) STIPULATIONS----- <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 Riverbend Operation was inspected by Peter Hays with the Division of Reclamation, Mining and Safety (Division/DRMS) as part of the Division's monitoring inspection program. Mrs. Julie Mikulas with Martin Marietta was present during the inspection. The site was previously inspected by the Division on March 20, 2012. The mine site was generally inspected from south to north.

The site is inactive and mining operations have not begun at the site. The site is expected to start mining following the completion of mining at the Riverbend East site. The site is currently used as pasture, agriculture fields and oil and gas development. The Operator will need to revise the mining and reclamation plan maps to account for the oil and gas well facilities installed since the first permit amendment was issued. The maps must be updated with a submittal of a technical revision prior to commencement of mining activity at the site. The structure agreements, mining offsets and stability analysis may also need to be revised to account for the oil and gas facilities and infrastructure.

The long-term groundwater augmentation plan for the site has not been address by the Operator. The Operator will need to comply with the Division's letter dated April 30, 2010 addressing operations with exposed groundwater prior to exposing groundwater at the site. The short-term groundwater exposure at the old Ft. Lupton Pit is covered by a well permit and substitute water supply plan.

The Division currently holds a financial warranty in the amount of \$3,450,600.00 for the site.

No problems were noted during the inspection. Photographs taken during the inspection are attached. Photograph location descriptions based on Existing Conditions Map, dated 6/05, submitted with AM-01.

Inspection Contact Address

Mrs. Julie Mikulas
Martin Marietta Materials, Inc.
1800 N. Taft Hill Road
Fort Collins, CO 80251

Ec: Wally Erickson; DRMS

PHOTOGRAPHS



View of Rittenhouse parcel looking south from north side



View of Martin Marietta owned parcel from CR 8 looking south



View of Stevens parcel (Aurora owned) from CR 8 looking south



View of Martin Marietta owned parcel from CR 8 looking north



View of Chikuma parcel at end of CR 10.5 looking NE



View of Chikuma parcel from gate to Thornton parcel looking west



View of Chikuma parcel from gate to Thornton parcel looking south



View of Thornton parcel from middle looking east



View looking south from corner of MM parcel near Section 12



View looking east from corner of MM parcel near Section 12



View of Old Ft. Lupton Pit lake



View of Old Ft. Lupton Pit stockpiles