

MINERALS PROGRAM INSPECTION REPORT PHONE: (303) 866-3567

The Division of Reclamation, Mining and Safety 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:		MINE/PROSPECTING ID#:	MINERAL:	COUNTY:
Riverbend Operation		M-2000-016	Sand and gravel	Weld
INSPECTION TYPE:		INSPECTOR(S):	INSP. DATE:	INSP. TIME:
Monitoring		Peter Hays	July 29, 2021	13:00
OPERATOR:		OPERATOR REPRESENTATIVE:	TYPE OF OPERATION:	
Martin Marietta Materials, Inc.		Julie Mikulas	112c - Construction Regular Operation	
REASON FOR INSPECTION:		BOND CALCULATION TYPE:	BOND AMOUNT:	
Normal I&E Program		Partial Bond	\$3,530,500.00	
DATE OF COMPLAINT:		POST INSP. CONTACTS:	JOINT INSP. AGENCY:	
NA		None	None	
WEATHER:	INSPECTOR'S SIGNATURE:		SIGNATURE DATE:	
Clear	6	Any	August 19, 2021	

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 Y	(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>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>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

The Riverbend Operation was inspected by Peter Hays with the Division of Reclamation, Mining and Safety (Division/DRMS) in response to the submittal of a technical revision request by the Operator. Mrs. Julie Mikulas with Martin Marietta Materials, Inc. was present during the inspection. The site was previously inspected by the Division on March 24, 2021.

The Operator submitted technical revision request no. 4 (TR-04) on June 14, 2021. The Division is required to act on a technical revision request within 30 days after being filed pursuant to Rule 1.9. On July 6, 2021 and August 3, 2021 the Operator submitted separate 30-day decision date extension requests. The current decision date is September 13, 2021. The Operators' requests to extend the decision date nullifies the automatically approval provision in Rule 1.9.1.

Permit Stipulation #1 states, prior to mining within 400 feet of the top of the bank of the South Platte River, the Operator will provide and gain approval of a technical revision that includes an evaluation of the stability of riverside berms to remain at the conclusion of mining. The technical revision proposes to allow mining within 300 feet of the South Platte River with the addition of pit side rip-rap on the eastern portion of Cell 1. The required bank stabilization analysis and flood analysis plan for the eastern portion of Cell 1 were submitted with the technical revision. The mining offset and required stabilization for the western portion of Cell 1 will be determined by the Operator at a later date.

The bank stabilization and flood analysis plan from Tetra Tech titled "Riverbend Mind Riverbank Evaluation, Cell 1" dated May 5, 2021 is currently under review by the Division. Any adequacy issues with the report will be sent to the Operator under separate cover.

The site is an 112c construction material regular operation permitted for 1,196 acres with a maximum disturbance acreage of 668 acres. Mining operations started at the site in 2020 in Phase 1/Cell 1. The Phase 1/Cell 1 mining activities are on hold until the powerline dividing the cell is relocated this fall. Mining excavation was occurring in Phase 2/Cell 1 during the inspection. The Operator stated the Phase 5/Cell 3 would be stripped of topsoil and overburden and would be mined after Phase 2/Cell 1.

The approved post-mining land use for the site is developed water resources with the creation of a combination of clay lined reservoirs, open water ponds and silt ponds reclaimed to wetlands. The Operator is evaluating the site to determine if slurry walls should be installed to seal the planned reservoirs and some of the open-water ponds. The current plan is to install a clay liner in Phase 1/Cell 1 and install a slurry wall in Phase 5/Cell 3. The Operator is aware of the requirement to submit an amendment application pursuant to Rule 1.10 to revise the approved Reclamation Plan. The possibility of increasing the maximum disturbed acreage to match the permit boundary acreage was discussed during the inspection. This adjustment would allow the Operator to mine through oil and gas peninsulas as the oil and gas facilities are abandoned without requiring a new amendment for each occurrence.

The Operator stated they intend to submit an acreage reduction request to remove the Morton property located in the northwest corner of the site from the permit boundary.

The overburden and topsoil stockpiled on the western portion of Phase 1/Cell 1 were observed during the inspection. The stockpiles appeared stable and no erosion features was observed during the inspection. The

Operator does not indent to vegetate the stockpiles since the materials will be used for concurrent reclamation in less than 180 days. Volunteered vegetation was observed on the stockpiles during the inspection.

The Division currently holds a financial warranty in the amount of \$3,530,500.00, which is adequate to reclaim the current disturbance in Phase 1/Cell 1, Phase 1/Cell 3 and the anticipated disturbance over the next several years.

Photographs taken during the inspection are attached. If you need additional information or have any questions, please contact me at the Division of Reclamation, Mining and Safety, 1313 Sherman Street, Room 215, Denver, CO 80203, by telephone at 303.866.3567 x 8124, or by email at <u>peter.hays@state.co.us</u>.

Inspection Contact Address

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

PHOTOGRAPHS



Riverbend Operation mine sign



View of the Phase 1/Cell 1 South Reach looking downstream of the Platte River



View of the Phase 1/Cell 1 Northeast Reach sandbar looking south from the Platte River towards Phase 1/Cell 1



View of the Phase 1/Cell 1 Northeast Reach sandbar looking east, upstream of the Platte River



View of a dry channel located in the Phase 1/Cell 1 Northeast Reach sandbar looking east, upstream of the Platte River