


**COLORADO**Division of Reclamation,
Mining and Safety

Department of Natural Resources

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: Parsons Mine	MINE/PROSPECTING ID#: M-2009-082	MINERAL: Sand and gravel	COUNTY: Weld
INSPECTION TYPE: Monitoring	INSPECTOR(S): Peter S. Hays	INSP. DATE: March 8, 2018	INSP. TIME: 10:30
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: Complete Bond	BOND AMOUNT: \$286,895.00
DATE OF COMPLAINT: NA	POST INSP. CONTACTS: None	JOINT INSP. AGENCY: None
WEATHER: Clear	INSPECTOR'S SIGNATURE: 	SIGNATURE DATE: April 3, 2018

The following inspection topics were identified as having Problems or Possible Violations. OPERATORS SHOULD READ THE FOLLOWING PAGES CAREFULLY IN ORDER TO ASSURE COMPLIANCE WITH THE TERMS OF THE PERMIT AND APPLICABLE RULES AND REGULATIONS. If a Possible Violation is indicated, you will be notified under separate cover as to when the Mined Land Reclamation Board will consider possible enforcement action.

INSPECTION TOPIC: Availability Of Records

PROBLEM: The Parsons Mine permit was approved and issued by the Division with a financial warranty stipulation to cover the cost to reclaim one year's worth of disturbance and to account for the exposure of ground water for a year's worth of mining. The Operator failed to comply with the permit stipulation requirements in the 2017 Annual Report.

CORRECTIVE ACTIONS: The Operator stated they would like to remove the permit stipulation and comply with the long-term groundwater augmentation requirement by submitting a financial warranty to install clay liners around all 10 lakes at the site. The Division will require the Operator to submit a technical revision justifying the request to remove the permit stipulation with an updated financial warranty in compliance with the requirements of Rule 6.4.12.

CORRECTIVE ACTION DUE DATE: 6/4/18

INSPECTION TOPIC: Availability Of Records

PROBLEM: The Division does not have a copy of the signed ditch location agreement between the Whitney Ditch Company and Martin Marietta Materials, Inc. for the relocation of the Whitney Ditch along the north edge of the property boundary.

CORRECTIVE ACTIONS: The Operator shall provide the Division with a copy of the ditch relocation agreement by the corrective action date.

CORRECTIVE ACTION DUE DATE: 5/3/18

INSPECTION TOPIC: Signs & Markers

PROBLEM: The mine identification sign was not posted at the entrance of the mine site. This is a problem for failure to post a mine identification sign as required by Rule 3.1.12(1).

CORRECTIVE ACTIONS: The Operator shall, at the entrance of the mine site, post a sign which shall be clearly visible from the access road with the following: the name of the operator, a statement that a reclamation permit for the operation has been issued by the Colorado Mined Land Reclamation Board; and the permit number. The Operator shall submit photo documentation that a proper sign has been posted by the corrective action date.

CORRECTIVE ACTION DUE DATE: 5/3/18

OBSERVATIONS

The Parsons Mine was inspected by Peter Hays with the Division of Reclamation, Mining and Safety (Division/DRMS) as part of the Division's monitoring inspection program. The site was previously inspected on March 23, 2012 to evaluate the financial warranty as required by the Division's succession of operator process for SO-01. Mrs. Julie Mikulas with Martin Marietta Materials, Inc. was present during the inspection.

As cited as a problem, the mine identification sign was not posted at the entrance of the mine site. The Operator shall, at the entrance of the mine site, post a sign which shall be clearly visible from the access road with the following: the name of the operator, a statement that a reclamation permit for the operation has been issued by the Colorado Mined Land Reclamation Board; and the permit number. The Operator shall submit photo documentation a proper sign has been posted by the corrective action date.

The Division currently hold a financial warranty in the amount of \$286,895.00. The permit was approved and issued by the Division with the following stipulation; prior to affecting any land within the permit area, the Operator shall submit and receive approval from the Division of a financial warranty that will cover the cost to reclaim one year's worth of disturbance. The Operator will not be allowed to expose groundwater until enough financial warranty has been submitted and approved by the Division to account for the exposure of groundwater for a year's worth of mining. Every year for the life of the permit, within the annual report the Operator must submit information necessary to determine the financial warranty. This information shall include but will not be limited to:

- 1.) The Operator's estimate of the financial warranty.
- 2.) Amount of current affected land.
- 3.) An estimate of the amount of land to be affected in the next year.
- 4.) Dimensions of pit excavation(s) currently and projected for the next year (to be lined if below ground water level):
 - a. Acreage
 - b. Depth
 - c. Length of highwall
 - d. Slope ratio of all pit slopes
- 5.) Acres of land to be topsoiled currently and projected.

- 6.) Updated map depicting the mining disturbance, plant site, pit excavation, and the location and amount (volume in cubic yards) of topsoil and overburden piles stockpiled on the site.
- 7.) Any other information the Division may request to determine the financial warranty.

Upon receiving the information, the Division will verify the Operator's financial warranty calculation and initiate a Surety Increase revision if necessary and the Operator will have 60 days to post the additional financial warranty.

In 2016, the Operator submitted a surety increase (SI-01) to increase the financial warranty from the \$15,300 place holder bond to the current warranty amount. The Operator failed to comply with the permit stipulation requirements in the 2017 Annual Report. The current financial warranty amount is based on a bond calculation for the first 100 acres of disturbance as estimated in the original permit application through Phase 2. During the inspection, the Operator stated they would like to remove the permit stipulation and comply with the long-term groundwater augmentation requirement by submitting a financial warranty to install clay liners around all 10 lakes at the site. The Division will require the Operator to submit a technical revision justifying the request to remove the permit stipulation with an updated financial warranty estimate in compliance with the requirements of Rule 6.4.12.

The site is permitted for 381 acres with 296 acres of disturbance. The mining disturbance was accurately described and depicted by the Operator in the 2017 annual report and map. The site is being operated in accordance with the approved Mining Plan. Phases 1A, 1B and 1C and 2 have been disturbed by mining activity. Phase 1A contains the processing plant and current mining excavation. Phase 1B is partially stripped of topsoil and overburden on the north portion of the phase. The Operator is limited on operations in the phase due to an eagles nest within ½ mile of the area. Phase 1C has been mined out and is being used as sedimentation and fresh water ponds. The ponds are connected by a culvert in the berm separating the ponds. The northern half of Phase 2 was being stripped of topsoil and overburden during the inspection. The topsoil and overburden from Phase 2 is being stored to the north of the phase. The southern half for Phase 2 will not be disturbed until the mining of the northern portion is complete and topsoil and overburden from the southern portion can be placed on the northern portion.

Conveyor bridges are installed over CR 25 between Phases 1A and 2 and Phase 1C and 4. The conveyor system was not operational during the inspection. The Operator intends to move a suspension bridge from another mine site and install the bridge over the Cache La Poudre River between Phase 4 and 5.

Three oil and gas well are being removed by the oil and gas company which owns the wells. The elimination of the well pads will alter the Mining and Reclamation Plans for the site. The Division will require the Operator to submit a technical revision to revise the Mining and Reclamation Plans to indicate the effects of the elimination of the wells.

The Whitney Ditch relocation is complete. The ditch relocation was required to install an acceleration / deceleration lane in CR 64.5. The ditch was moved to the south and constructed as a concrete lined trapezoidal channel. As cited as a problem, the Division does not have a copy of the signed ditch location agreement between the Whitney Ditch Company and Martin Marietta Materials, Inc. The Operator is required to provide the Division with a copy of the agreement by the corrective action date.

Photographs taken during the inspection are attached.

PHOTOGRAPHS



View of the sedimentation pond from northeast corner of the pond looking west



View of the dividing berm between the sedimentation pond and fresh water pond looking north



View of dewatering pump and water truck pump located in the southwest corner of the fresh water pond



View of the mining activity looking northwest from the mine office area



View of the mining activity looking west from the mine office area



View of the mining activity looking southwest from the mine office area



View of the mining activity looking south from the mine office area



View of Stage 2 from the northwest corner of the stage looking east



View of Stage 2 from the northwest corner of the stage looking southwest



View of Stage 2 from the northwest corner of the stage looking south



View of relocated Whitney Ditch from CR 64.5 looking east

GENERAL INSPECTION TOPICS

The following list identifies the environmental and permit parameters inspected and gives a categorical evaluation of each

(AR) RECORDS----- PBs	(FN) FINANCIAL WARRANTY----- <u>N</u>	(RD) ROADS----- <u>Y</u>
(HB) HYDROLOGIC BALANCE----- <u>NA</u>	(BG) BACKFILL & GRADING----- <u>N</u>	(EX) EXPLOSIVES----- <u>N</u>
(PW) PROCESSING WASTE/TAILING---- <u>N</u>	(SF) PROCESSING FACILITIES----- <u>Y</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----- PB	(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>Y</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

Inspection Contact Address

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