


**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: Debetz Pit	MINE/PROSPECTING ID#: M-1977-283	MINERAL: Sand and gravel	COUNTY: Adams
INSPECTION TYPE: Monitoring	INSPECTOR(S): Jared L. Ebert	INSP. DATE: April 18, 2019	INSP. TIME: 11:20
OPERATOR: Adams County	OPERATOR REPRESENTATIVE: Kurt Carlson	TYPE OF OPERATION: 112c - Construction Regular Operation	
REASON FOR INSPECTION: Normal I&E Program	BOND CALCULATION TYPE: None	BOND AMOUNT: No Bond Held	
DATE OF COMPLAINT: NA	POST INSP. CONTACTS: None	JOINT INSP. AGENCY: None	
WEATHER: Clear	INSPECTOR'S SIGNATURE: 	SIGNATURE DATE: April 24, 2019	

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>NA</u>	(RD) ROADS----- <u>NA</u>
(HB) HYDROLOGIC BALANCE----- <u>Y</u>	(BG) BACKFILL & GRADING----- <u>Y</u>	(EX) EXPLOSIVES----- <u>NA</u>
(PW) PROCESSING WASTE/TAILING---- <u>NA</u>	(SF) PROCESSING FACILITIES----- <u>NA</u>	(TS) TOPSOIL----- <u>N</u>
(MP) GENL MINE PLAN COMPLIANCE- <u>Y</u>	(FW) FISH & WILDLIFE----- <u>Y</u>	(RV) REVEGETATION---- <u>Y</u>
(SM) SIGNS AND MARKERS----- <u>N</u>	(SP) STORM WATER MGT PLAN---- <u>N</u>	(RS) RECL PLAN/COMP-- <u>Y</u>
(ES) OVERBURDEN/DEV. WASTE----- <u>NA</u>	(SC) EROSION/SEDIMENTATION--- <u>NA</u>	(ST) STIPULATIONS----- <u>N</u>
(AT) ACID OR TOXIC MATERIALS----- <u>N</u>	(OD) OFF-SITE DAMAGE----- <u>Y</u>	

Y = Inspected and found in compliance / N = Not inspected / NA = Not applicable to this operation / PB = Problem cited / PV = Possible violation cited

OBSERVATIONS

This was an inspection of the Debetz Pit, Colorado Division of Reclamation, Mining and Safety (DRMS or Division) permit number M-1977-283 operated by Adams County. I, Jared Ebert with DRMS conducted the inspection. Mr. Kurt Carlson with Adams County accompanied me during the inspection. This is a 40-acre 112c operation located in Adams County. This inspection was conducted to evaluate the corrective action completed that was required from the last DRMS inspection on December 20, 2017. The Division had previously observed erosion on the western shoreline of the site and approved a Technical Revision (TR02) that outlined Adams County's plan to stabilize localized areas where erosion was observed.

Backfilling and Grading:

As discussed above, the Operator was required to repair localized areas of erosion observed along the western pit slope in accordance with the provisions of TR02. The Division received correspondence from Adams County on March 21, 2019 documenting the completion of the shoreline stabilization activities. Specifically, there were three areas along the western shoreline where erosion mitigation was required. The northern portion of the permit area was graded to a gentle 3H:1V slope or less. Erosion control matting was installed on the slope and the area has been seeded. The two southern erosion control areas were stabilized with rip-rap. Given these observations, the Division has found that Adams County has complied with the erosion control and mitigation plan approved with TR02.

Additional shoreline cutting was observed on the south side of the pond. Adams County appears to have recently done some earthwork to begin to address this issue. According to Mr. Carlson, the County may either backfill and grade this slope and seed the area or they may install rip-rap. The Division believes that either option would be appropriate in this scenario.

Gen. Compliance With Mine Plan:

Mining is complete at the site and the pit is in final reclamation.

Reclamation Success:

The majority of the site has been graded, topsoiled and revegetated. Dense vegetation has established around the majority of the pit slopes and the former inert fill area in the northeast part of the site has been seeded and native grasses have begun to establish. DRMS would like to see the vegetation become more established in the inert fill area and on the areas where shoreline erosion has been and will be repaired in the non-rip-rap areas prior to full site release.

Revegetation:

As discussed above, the vegetation at the site has largely well established with the exception of the northeastern inert fill area and the non-rip-rap erosion repair areas. Several small Tamarisk trees were observed along the northeast slope. Adams County will need to continue to treat and/or otherwise mitigate the Tamarisk tree establishment.

PHOTOGRAPHS



Figure 1. Northern part of the northwestern pit slope recently repaired.



Figure 2. Northern part of the northwestern pit slope recently repaired.



Figure 3. Two rip-rap repair areas on the western pit slope.



Figure 4. Northern most rip-rap repair area.



Figure 5. Southern most rip-rap repair area.



Figure 6. Southern slope where additional erosion repair is necessary.



Figure 7. Northeastern inert fill area, from southeast end looking northwest.

Inspection Contact Address

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