




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: Diehl Borrow Pit	MINE/PROSPECTING ID#: M-2018-054	MINERAL: Borrow material for construction	COUNTY: Larimer
INSPECTION TYPE: Preoperation Inspection	INSPECTOR(S): Amy Eschberger	INSP. DATE: October 23, 2018	INSP. TIME: 13:30
OPERATOR: SEMA Construction, Inc.	OPERATOR REPRESENTATIVE: Gavin Madsen	TYPE OF OPERATION: 111 - Construction by Government Agency	

REASON FOR INSPECTION: Preoperation Inspection	BOND CALCULATION TYPE: Complete Bond	BOND AMOUNT: To be determined
DATE OF COMPLAINT: NA	POST INSP. CONTACTS: None	JOINT INSP. AGENCY: None
WEATHER: Clear	INSPECTOR'S SIGNATURE: 	SIGNATURE DATE: October 29, 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>N</u>	(RD) ROADS----- <u>Y</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>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

This was a preoperation inspection of the Diehl Borrow Pit (File No. M-2018-054) conducted by Amy Eschberger of the Division of Reclamation, Mining and Safety (Division). Mr. Gavin Madsen represented the operator during the inspection. A 111c permit application was filed for this site on October 17, 2018. The application decision date has been extended at the request of the applicant to November 8, 2018. The site is located approximately 8.5 miles north of Wellington, Colorado in Larimer County. Access to the site is off of the I-25 frontage road. A proper notice sign was placed at the site entrance in accordance with Rule 1.6.2(1)(b). **Photos 1-8** taken during the inspection are included with this report.

The 111c permit application proposes a permit area of 26.95 acres to mine borrow material for a CDOT roadway project. The rectangular shaped permit area is situated along the eastern edge of I-25, on property owned by Rod Diehl. The permit area is bisected by a northwest-southeast-oriented drainage that empties to Indian Creek offsite. This drainage was dry during the inspection. The southern half of the permit area was a historic borrow site, which left little to no topsoil in this area. Mr. Madsen indicated the operation will begin mining in the southern half of the permit area, and may or may not need to mine the northern half. Existing property fences mark the boundaries of the proposed permit area. A barbed wire fence with a gate near the western permit boundary also separates the two mining areas. This fence was not shown on the maps submitted with the application. It appeared to have been installed fairly recently. The Division notified the applicant in the second adequacy review letter mailed on October 29, 2018 that this fence must be included on the mining plan map in accordance with Rule 6.3.5(2)(e). The application includes a structure agreement for property fencing owned by the landowner. Therefore, if the landowner also owns this fence, a new structure agreement is not necessary. All other structures located within 200 feet of the proposed affected land boundary were accounted for in the application.

The proposed mining plan includes excavating an average depth of 20 feet of material from the two mining areas. However, it was clarified in the first adequacy response that the maximum mining depth could potentially be 38 feet. No on-site processing of material will occur. Salvaged topsoil will be stored along the eastern edges of the two mining areas. Upon completion of the mining operation, all disturbed land will be graded to 3H:1V or flatter, topsoil will be replaced at a depth of 6 inches, and the land will be revegetated with a native grass and forb mixture for a post-mining land use of rangeland. The short access road to the mine site from the frontage road will also be reclaimed. Due to the limited topsoil available on site, the operation may have a deficit in the amount of topsoil needed to replace 6 inches across 26.95 acres, which would require a total of 21,740 cubic yards. The applicant did not include costs for topsoil importation in the bond estimate provided, as the operation proposes augmenting available topsoil by using subsoil material and applying soil amendments per the results of a composite soil sample and analysis. The applicant proposes maintaining 3H:1V mining slopes near the pit perimeter so that highwalls will not require backfilling for reclamation.

The Division sent the applicant a bond estimate on October 29, 2018 that includes costs for ripping the pit floor, stockpiling areas, and haul roads, replacing 6 inches of topsoil across 26.95 acres, and revegetating the site to rangeland. The Division calculated the required financial warranty to be in the amount of \$88,112.00, which is \$20,737.00 more than the financial warranty submitted with the application. The applicant may submit a rider to the financial warranty submitted to cover the additional bond amount. For questions regarding submittal of the financial warranty, the applicant should contact Barbara Coria at 303-866-3567, ext. 8148.

This concludes the report.

PHOTOGRAPHS



Photo 1. View of notice sign posted at main site entrance.



Photo 2. View of existing access road to site off I-25 frontage road.



Photo 3. View looking south across northern half of permit area.



Photo 4. View looking east across northern half of permit area.



Photo 5. View looking east across drainage separating proposed northern and southern mining areas. Note drainage dry during inspection.



Photo 6. View looking east, showing barbed wire fence that separates the two proposed mining areas. This fence was not shown on the maps submitted.



Photo 7. View looking east across southern half of permit area.



Photo 8. View looking southeast toward southern permit boundary, delineated by an existing property fence (indicated with dashed yellow line).

Inspection Contact Address

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