




COLORADO DIVISION OF RECLAMATION, MINING AND SAFETY
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: Coaldale Quarry	MINE/PROSPECTING ID#: M-1977-247	MINERAL: Anhydrite, gypsum	COUNTY: Fremont
INSPECTION TYPE: Monitoring	INSPECTOR(S): Timothy A. Cazier	INSP. DATE: April 28, 2015	INSP. TIME: 13:30
OPERATOR: Holcim (US) Inc.	OPERATOR REPRESENTATIVE: Joe Lamanna	TYPE OF OPERATION: 112c - Construction Regular Operation	

REASON FOR INSPECTION: Normal I&E Program	BOND CALCULATION TYPE: Partial Bond	BOND AMOUNT: \$707,000.00
DATE OF COMPLAINT: NA	POST INSP. CONTACTS: None	JOINT INSP. AGENCY: None
WEATHER: Clear	INSPECTOR'S SIGNATURE: 	SIGNATURE DATE: February 19, 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>Y</u>	(FN) FINANCIAL WARRANTY----- <u>Y</u>	(RD) ROADS----- <u>Y</u>
(HB) HYDROLOGIC BALANCE----- <u>Y</u>	(BG) BACKFILL & GRADING----- <u>Y</u>	(EX) EXPLOSIVES----- <u>Y</u>
(PW) PROCESSING WASTE/TAILING---- <u>Y</u>	(SF) PROCESSING FACILITIES----- <u>Y</u>	(TS) TOPSOIL----- <u>Y</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>Y</u>	(SW) STORM WATER MGT PLAN---- <u>Y</u>	(CI) COMPLETE INSP---- <u>Y</u>
(ES) OVERBURDEN/DEV. WASTE----- <u>Y</u>	(SC) EROSION/SEDIMENTATION--- <u>Y</u>	(RS) RECL PLAN/COMP-- <u>NA</u>
(AT) ACID OR TOXIC MATERIALS----- <u>NA</u>	(OD) OFF-SITE DAMAGE----- <u>Y</u>	(ST) STIPULATIONS----- <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 inspection was conducted as part of the regular monitoring program. The Operator (Holcim (US) Inc.) was represented by Mr. Joe Lamanna who was present for the inspection. Tim Cazier represented the Division.

The Coaldale Quarry access road entrance is located off Fremont Co Rd 6, about 0.5 miles off Hayden Creek Rd south of Highway 50 at Coaldale. This is a 112c gypsum mine. The mine was not operating at the time of the inspection.

Inspection:

Markers & Boundary – A permit sign was displayed at the site entrance (see **Photo 1**). Mr. Lamanna pointed out a typical survey lath marking a boundary corner (see **Photo 2**). This inspector suggested a more durable marker might be advantageous for long term use.

Blasting Plan – Mr. Lamanna showed this inspector a typical blast report. The air blast and peak particle velocity were below acceptable limits.

Mining Plan – The mine operation appeared to be following the approved mine plan. Stockpiled product was observed (see **Photo 3**) near the pit entrance on the east end of the mine. Most highwalls appeared stable (see **Photo 4**), however excavations in the Copper Hill pit (west end) appear to be undermining areas reclaimed in the 1980's above the highwall (see **Photo 5**). Mr. Lamanna explained the mine intends to expand this pit and it is expected to disturb previously reclaimed areas.

Reclamation – No reclamation had been initiated or completed since the 1980's. This area was reclaimed with deep furrows and appeared well vegetated and stable (see **Photo 6**).

Environmental – Some minor road erosion was observed. Mr. Lamanna explained that runoff is directed to sediment ponds to control sedimentation. No noxious weeds were observed.

Records:

- Revisions: Permit transfer to Holcim in 2006 (SO-04); Amendments in 1998 to modify the reclamation plan (AM-01), and in 2007 to reactivate the mine (AM-02); and a surety reduction in 2006 (SR-04).
- Commitments/Stipulations: None
- Other Records
 - a) The total permitted area is 100 acres, with a maximum allowed disturbed area (at one time) of **100 acres**.
 - b) The previous inspection was performed on 7/23/2009. No problems were cited.
 - c) The anniversary date is April 28. Annual reports and fees are current through 2015. The reported affected area for 2014 was 31.6 acres. This is consistent with that measured using Google Earth Pro, based on 2011 imagery.
 - d) The post-mine land use is wildlife habitat.

Bond:

The currently held bond is \$707,000. Given the maximum allowed disturbance of 100 acres, the Division considers \$7,070 per acre adequate at this time.

Summary and Recommendations:

1. The Division recommends the mine use more durable boundary markers than survey lath.
2. No problems or concerns were observed during the inspection.
3. The bond appears adequate for the current disturbance.

Please contact Tim Cazier (303-866-3567, ext. 8169) if you have any questions regarding this report.

PHOTOGRAPHS



Photo 1. Permit identification sign.

PHOTOGRAPHS (cont.)



Photo 2. North corner boundary marker (looking NE).



Photo 3. Product stockpile (south end, looking south).

PHOTOGRAPHS (cont.)



Photo 4. Highwall – near center of active pit (looking SW).



Photo 5. Highwall undermining 1980's reclaimed area (looking south).

PHOTOGRAPHS (cont.)



Photo 6. 1980's reclaimed area (looking south).

Inspection Contact Address

Joe Lamanna
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Florence, CO 81226

EC: Wally Erickson, DRMS
DRMS file