



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: Shaffers Crossing	MINE/PROSPECTING ID#: M-1978-208	MINERAL: Sand and gravel	COUNTY: Jefferson
INSPECTION TYPE: Monitoring	INSPECTOR(S): Tom Kaldenbach	INSP. DATE: October 16, 2012	INSP. TIME: 15:00
OPERATOR: Elk Creek Sand & Gravel, LLC	OPERATOR REPRESENTATIVE: Juliet Moores	TYPE OF OPERATION: 110c - Construction Limited Impact	

REASON FOR INSPECTION: Normal I&E Program	BOND CALCULATION TYPE: None	BOND AMOUNT: \$10,400.00
DATE OF COMPLAINT: NA	POST INSP. CONTACTS: None	JOINT INSP. AGENCY: None
WEATHER: Clear	INSPECTOR'S SIGNATURE: <i>Tom Kaldenbach</i>	SIGNATURE DATE: January 30, 2013

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>NA</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>	(SP) STORM WATER MGT PLAN---- <u>NA</u>	(SB) COMPLETE INSP---- <u>NA</u>
(ES) OVERBURDEN/DEV. WASTE----- <u>NA</u>	(SC) EROSION/SEDIMENTATION--- <u>Y</u>	(RS) RECL PLAN/COMP-- <u>Y</u>
(AT) ACID OR TOXIC MATERIALS----- <u>NA</u>	(OD) OFF-SITE DAMAGE----- <u>Y</u>	(ST) STIPULATIONS----- <u>NA</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 conducted by Tom Kaldenbach of DRMS. The operator was represented by Juliet Moores. The ground was dry and the weather was clear. The site has five main areas: retail material stockpiles, scale/office area, a shop area, processing area, and active mining area. DRMS received an emailed complaint on October 3, 2012 from a neighbor of the mine site regarding impacts from blasting vibration, dust, and noise.

Explosives:

The operator conducts blasting approximately one time each year. During this inspection the operator's most recent blasting report was reviewed. The report was for a blast on October 2, 2012 with ground motion and airblast measured at the entrance gate of the site. The report indicated the blast had ground motion peak particle velocity of 1.03 inches per second and airblast was 127.6 decibels.

The intensity of impacts the blast may have had outside the mine permit area is uncertain, and deserves further investigation. If the seismograph was located 400 feet from the blast, then the peak particle velocity may have exceeded 1.03 inches per second west of West Elk Creek Road. DRMS will conduct a follow-up inspection to focus on blasting impacts.

Hydrologic Balance:

Ditches along roads on the site were in good shape.

There were no signs of excessive erosion on the site.

Gen. Compliance With Mine Plan:

The operation appeared to be following the mine plan with loading and processing at the base of the highwall. Highwalls appear to be about 30 feet high, for a total overall height of approximately 100 feet, with benches that are about 25 feet wide.

Off-site Damage:

There were no signs of off-site damage around the perimeter of the site. No fugitive dust was seen during the inspection, although there was no wind at the time.

Slides and Other Damage:

No areas of slope instability were evident.

Support Facilities On-site:

Fuel was stored within secondary containment.

Signs and Markers:

A mine i.d. sign was properly displayed at the mine entrance gate. The affected area was marked by a fence.

PHOTOGRAPHS



Inspection Contact Address

Juliet Mores
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Conifer, CO 80433

Enclosure

CC: