




**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.

<b>MINE NAME:</b> Indio Red Quarry Number 1 & 2	<b>MINE/PROSPECTING ID#:</b> M-1999-062	<b>MINERAL:</b> Sandstone (silica, st quartzite)	<b>COUNTY:</b> Larimer
<b>INSPECTION TYPE:</b> Monitoring	<b>INSPECTOR(S):</b> Robert Zuber, P.E.	<b>INSP. DATE:</b> September 22, 2020	<b>INSP. TIME:</b> 11:45
<b>OPERATOR:</b> Hector Rodriguez	<b>OPERATOR REPRESENTATIVE:</b> Raul Vasquez	<b>TYPE OF OPERATION:</b> 110c - Construction Limited Impact	

<b>REASON FOR INSPECTION:</b> Normal I&E Program	<b>BOND CALCULATION TYPE:</b> Complete Bond	<b>BOND AMOUNT:</b> \$12,400.00
<b>DATE OF COMPLAINT:</b> NA	<b>POST INSP. CONTACTS:</b> None	<b>JOINT INSP. AGENCY:</b> None
<b>WEATHER:</b> Clear	<b>INSPECTOR'S SIGNATURE:</b> 	<b>SIGNATURE DATE:</b> October 23, 2020

**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:** Signs & Markers

**PROBLEM/POSSIBLE VIOLATION:** Problem: The mine identification sign at the entrance of the mine site did not contain all of the necessary information. This is a problem for failure to post an adequate mine identification sign as required by Section 3.1.12(1) of the rule. The Operator shall, at the entrance of the mine site post a sign, which shall be clearly visible from the access road, with a minimum size equaling one hundred and eighty-seven (187) square inches, such as eleven (11) inches in height and seventeen (17) inches in width, with appropriate font size, 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.

**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:** 12/30/20

**INSPECTION TOPIC:** Signs & Markers

**PROBLEM/POSSIBLE VIOLATION:** Problem: The affected area boundary markers are incorrectly placed. This is a problem for failure to maintain boundary markers around the affected area as required by Section 3.1.12(2) of the rule.

**CORRECTIVE ACTIONS:** The operator shall conduct a survey and replace the boundary markers in the correct location(s). The operator shall provide proof to the Division that this has been done by the corrective action date.

**CORRECTIVE ACTION DUE DATE:** 12/30/20

## **OBSERVATIONS**

Rob Zuber of DRMS arrived at the Vasquez family's stone yard on Highway 66 (near the town of Lyons) and then followed Raul Vasquez to the site (in separate vehicles), approximately six miles from Lyons (distance along Stone Canyon Drive). After the Lyon King Quarry and Red Wolf Quarry were inspected, the Indio Red Quarries Number 1 and 2 were inspected.

The weather was clear and seasonably hot. The ground was dry from only limited recent moisture.

### **Backfilling and Grading:**

The primary quarry to be reclaimed, at the south end of Quarry Number 1, is approximately 0.8 acre, as measured with Google Earth. In the field it was measured to be approximately 250 feet by 220 feet (estimated with a Rangefinder), which is 1.3 acres. The Division is using the lower number (0.8 acre) for the reclamation cost estimate, as it is likely more accurate. The average depth was estimated to be eight feet. Mr. Vasquez indicated that no more mining will be done at this quarry, and he said that rubble from the Red Wolf Quarry will be used to fill it.

A smaller quarry north of the large one will also be reclaimed. It is approximately 70 feet by 50 feet (0.08 acre) and seven feet deep (average). Using Google Earth, the Division confirmed that this area is an accurate estimate.

The roads at the site will remain as permanent features as will the historical stone houses. The stone stockpiles appear to be historical disturbance, as viewed in older photos in Google Earth.

### **Financial Warranty:**

**The Division has updated the Reclamation Cost Estimate (RCE) for the Indio Red Quarry Numbers 1 and 2 and is including it with this inspection report as an enclosure. The new estimate is \$17,771. The surety held for this site is \$12,400. The financial warranty is not adequate to reclaim the site in accordance with the approved reclamation plan. This is a failure to maintain the proper financial warranty amount to complete reclamation of the affected lands pursuant to C.R.S. 34-32.5-117(4)(b) of the Act.**

**Your company must submit additional financial warranty to match the RCE, or provide justification to support a lower estimate of the cost by November 9, 2020. The Division will be sending a separate surety increase notice to your company regarding the increase of the financial warranty. Your company will have 60 days from the date on the surety increase notice to post the additional financial warranty.**

### **Hydrologic Balance:**

No erosion or other hydrology problems were seen at the site.

### **Off-site Damage:**

It did not appear that off-site damage is an issue, but (as noted elsewhere in this report) the boundaries are not clear, so it is difficult to definitively say there is no off-site damage.

Revegetation:

At the north side of Quarry Number 2, the reclaimed area contains many small buildings, storage of vehicles, and storage of other equipment/material. Also, the reclaimed area has scarce vegetation due to grazing of cattle. Many mullein plants were seen in the area around the reclaimed area.

Mr. Vasquez indicated that he has been using weevils to control knapweed. Nearly all of the knapweed that was observed at the Indio Red quarries was very dry, likely from the weevils, although the dryness of the summer of 2020 and lateness in the season could also be factors.

Signs and Markers:

The mine entrance sign was seen at the scale house, near the south end of the permit boundary. It contained the quarry name and DRMS permit number. It did not list the name of the operator or mention DRMS. This information should be added to the sign.

Permit boundary markers were found at the corners of the two areas that make up the site, and these were checked using GPS and by comparing to the boundary outline in the site plan from the permit application. There appears to be one or more issues with the marking of the boundary. The shapes of the areas based on the on-the-ground markers are different than the shapes in the site plan. Also, the dimensions may be off. For example at Quarry Number 2, the south side is about 350 feet long per Google Earth, but the site plan indicates that it should be 445 feet.

Topsoil:

Mr. Vasquez indicated that no topsoil has been salvaged and stockpiled for the reclamation. He also indicated that naturally there is very little topsoil at any of the quarry sites in the vicinity of the Indio Red Quarry (on the Beech Hill ridge).





**Figure 1. Boundary of Indio Red Quarries Number 1 and 2 per Markers on the Ground**

*Purple crosshair symbols are from DRMS GPS data collection at on-the-ground markers.*

*(symbols in the middle are for Red Wolf Quarry)*

*Yellow lines are estimate of boundary from connecting the GPS points.*

*(Note that the northeast corner of Indio Red Quarry Number 2 is estimated, as the GPS device was not working well at the time this point was collected.)*

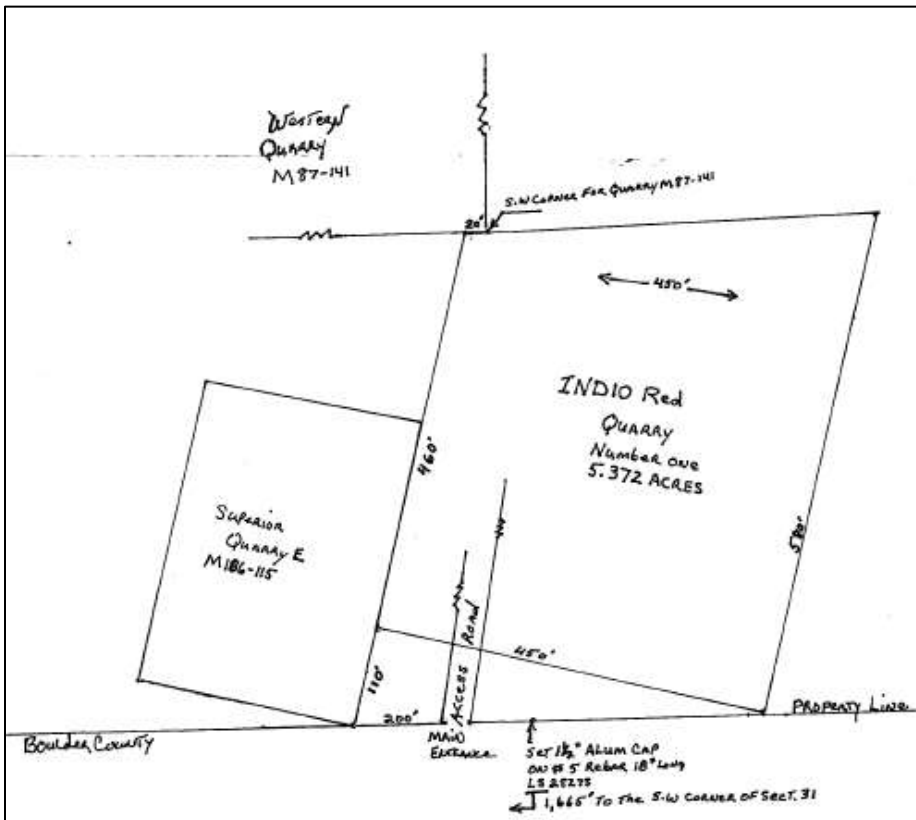


Figure 2. Permit Site Plan for Indio Red Quarry Number 1 from Permit Application

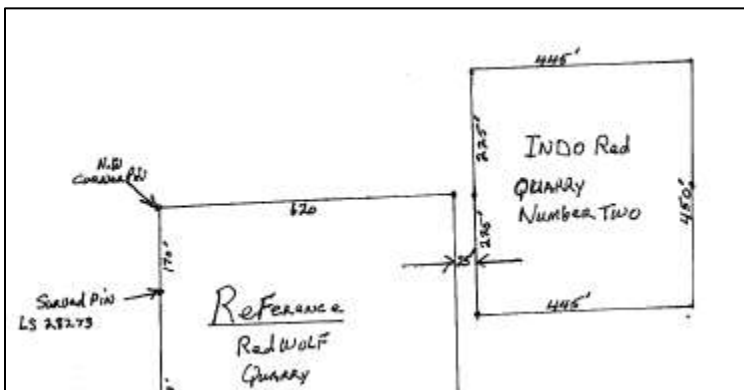


Figure 3. Permit Site Plan for Indio Red Quarry Number 2 from Permit Application



## **PHOTOGRAPHS**



**Entrance sign for Indio Red Quarry #1 and #2  
(and signs for other permits)**



**Large quarry to be reclaimed on Quarry Number 1 site**



**Small quarry to be reclaimed on Quarry Number 1 site**



**Reclaimed area on Quarry Number 2**



### GENERAL INSPECTION TOPICS

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

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

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

#### Inspection Contact Address

Raul Vasquez  
Hector Rodriguez  
P.O. Box 1504  
Lyons, CO 80540