




**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> Caliche School Pit	<b>MINE/PROSPECTING ID#:</b> M-1989-023	<b>MINERAL:</b> Sand and gravel	<b>COUNTY:</b> Logan
<b>INSPECTION TYPE:</b> Monitoring	<b>INSPECTOR(S):</b> Jared L. Ebert	<b>INSP. DATE:</b> October 12, 2017	<b>INSP. TIME:</b> 11:15
<b>OPERATOR:</b> Kristine M Couch	<b>OPERATOR REPRESENTATIVE:</b> Kristine Couch	<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> \$43,000.00	
<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 19, 2017	

**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>NA</u>
(HB) HYDROLOGIC BALANCE----- <u>Y</u>	(BG) BACKFILL & GRADING----- <u>Y</u>	(EX) EXPLOSIVES----- <u>NA</u>
(PW) PROCESSING WASTE/TAILING---- <u>N</u>	(SF) PROCESSING FACILITIES----- <u>NA</u>	(TS) TOPSOIL----- <u>Y</u>
(MP) GENL MINE PLAN COMPLIANCE- <u>Y</u>	(FW) FISH & WILDLIFE----- <u>NA</u>	(RV) REVEGETATION---- <u>N</u>
(SM) SIGNS AND MARKERS----- <u>Y</u>	(SP) STORM WATER MGT PLAN---- <u>NA</u>	(CI) COMPLETE INSP---- <u>Y</u>
(ES) OVERBURDEN/DEV. WASTE----- <u>NA</u>	(SC) EROSION/SEDIMENTATION--- <u>Y</u>	(RS) RECL PLAN/COMP-- <u>N</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 a monitoring inspection of the Caliche School Pit, DRMS Permit No. M-1989-023 operated by Kristine M. Couch. I, Jared Ebert with the Colorado Division of Reclamation, Mining and Safety (DRMS or Division) conducted the inspection. Mrs. Kristine Couch accompanied me during the inspection. The weather was clear and warm.

This is a 9.5 acre 110c mining operation in Logan County.

### **Backfilling and Grading:**

According to Mrs. Couch, she has considered using material from her land west of the permit area to backfill the pit to the required 3H:1V angle. Prior to conducting this activity, the proposed area to be excavated will need to be included in the permit area.

### **Financial Warranty:**

The Division currently holds a financial warranty in the amount of \$43,000.00. This amount is adequate to fulfill the requirements of the Reclamation Plan.

### **Hydrologic Balance:**

Mrs. Couch owns an augmentation pond that is adjacent to the permit area. Given the hydrologic conditions of the site it appears water from her pond has seeped into the pit area. It appears a small trench has been created on the south end of the site to help drain the pond to the adjacent ditch. However the inlet to the trench is above the pooled water in the pit. Mrs. Couch indicated that they intend to excavate the trench deeper to help drain the water collected in the bottom of the pit.

### **Gen. Compliance With Mine Plan:**

Mining at the site has created a 30 foot pit excavation that daylights to the south. The highwall was measured using the ArcCollector application and found to be about 670 feet in length. The highwall is near vertical. There is some space between the top of the highwall and the northern permit boundary. However there is not a lot of room to cut and fill the highwall on the north side. The Division highly recommends that the Operator take care not to affect land outside of the permit area when they conduct reclamation.

### **Reclamation Success:**

The Operator is still actively mining the site, so reclamation has not been initiated.

### **Signs and Markers:**

The mine entrance sign was in place and the boundary was marked with t-posts. However the northeast corner marker was missing. The Operator will need to replace this boundary marker.

### **Topsoil:**

Topsoil has been stripped from the pit area and it is stockpiled on the northwest corner of the site. The topsoil pile is stable and vegetated.

**PHOTOGRAPHS**



Figure 1. From the northeast corner of the pit looking west.



Figure 2. From the top of the pit looking south.





Figure 3. From the west end of the pit looking northeast.



Figure 4. Water pooled at the base of the pit.




Figure 5. Trench from bottom of the pit, view from the south end looking north.



## Caliche School Pit, M-1989-023



### Legend


 CalicheSchool\_M1989023\_PermitBoundary

N



19 October 2017  
Jared Ebert, DRMS

0 250 500 1,000 Feet



**Inspection Contact Address**

Kristine M Couch  
6963 S. Olive Way  
Centennial, CO 80112

Enclosure: None

CC: None