



COLORADO

Division of Reclamation,  
Mining and Safety


Department of Natural Resources

## 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> Berthoud Sunset	<b>MINE/PROSPECTING ID#:</b> M-1994-080	<b>MINERAL:</b> Sandstone (silica, stone quartzite)	<b>COUNTY:</b> Larimer
<b>INSPECTION TYPE:</b> Monitoring	<b>INSPECTOR(S):</b> Jared L. Ebert	<b>INSP. DATE:</b> April 17, 2017	<b>INSP. TIME:</b> 12:00
<b>OPERATOR:</b> ARKINS PARK STONE CORPORATION	<b>OPERATOR REPRESENTATIVE:</b> Dewey Chandler and David Sprague	<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> \$35,300.00
<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> April 19, 2017

**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:** The affected area boundary markers are missing or 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:** 6/16/17

## **OBSERVATIONS**

This was a monitoring inspection of the Berthoud Sunset mine site, DRMS permit number M-1994-080, operated by Arkins Park Stone Corporation (Arkins). I, Jared Ebert of the Colorado Division of Reclamation, Mining and Safety (Division) conducted the inspection. Mr. Dewey Chandler and David Sprague with Arkins accompanied me during the inspection.

This is a 9.998 acre 110c sandstone quarry. The site was inactive at the time of the inspection. The operator has stacked a series of pallets loaded with sandstone blocks along the access road to the site. Based on an aerial photograph of the site dated September 7, 2016 on Google™ earth and the Division's on the ground observations, it appears about 5 acres of land has been affected by the quarry. The site consists of a working face with a sandstone rock highwall about 200 feet in length and about 5 to 10 feet in height. The highwall faces east of north east and appears to be advancing slowly to the west. The operator has created three small working "benches" with soil and rock.

### **Backfilling and Grading:**

In order to backfill and grade the site, the operator will need to push/spread the rock and soil contained within the work benches up the slope.

### **Explosives:**

The mine is inactive at the time of the inspection and blasting was not occurring.

### **Financial Warranty:**

The Division last updated the reclamation cost estimate for the site in 2006. The current required surety is set at \$34,800.00. The Division has recalculated the cost to reclaim the site based on the current site conditions and found that the required surety will need to be increased. The Division estimates the cost to reclaim the site to be \$38,122.32. The Division's cost estimate is enclosed for your review. **The Division requests that Arkins review the cost estimate and provide the Division comments or questions regarding the estimate by April 28, 2017. The Division may issue a surety increase revision by April 28, 2017. If a surety increase revision is issued, the Division will send Arkins a separate notice. Arkins will have sixty days from this notice to provide the additionally required financial warranty.**

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

The permit boundary was not marked with markers so it is not possible to determine if off-site damage has occurred. The affected area is estimated to be about 5 acres. The permit area is 9.98 acres.

### **Reclamation Success:**

No reclamation has occurred to date.

### **Signs and Markers:**

The required affected area boundary markers are missing or incorrectly placed. Two T-Posts were observed near the pit area, however their locations do not appear to correspond to the approved permit boundary. Arkins will need to conduct a survey and replace the boundary markers at the site. This issue is cited as a problem at the beginning of the report.

## PHOTOGRAPHS



Figure 1. Working face at the west end of the affected area.



Figure 2. From the east end of the affected area looking south at the base of the 1st bench.





Figure 3. From the base of the 2nd bench on the access road looking south.



Figure 4. From on top of the 3rd bench looking south.

### **GENERAL INSPECTION TOPICS**

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

(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>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>Y</u>	(RV) REVEGETATION---- <u>NA</u>
(SM) SIGNS AND MARKERS----- <u>PB</u>	(SP) STORM WATER MGT PLAN---- <u>NA</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>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

#### **Inspection Contact Address**

Judy Sprague  
ARKINS PARK STONE CORPORATION  
5975 NCR 27  
Loveland, CO 80538

Enclosure: 1.) April 19, 2017 Reclamation Cost Estimate.

CC: Dewey Chandler via e-mail