




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: Parkdale Quarry	MINE/PROSPECTING ID#: M-1997-054	MINERAL: Sandstone (silica, stone quartzite), gravel and granite, granite gneiss	COUNTY: Fremont
INSPECTION TYPE: Preoperation Inspection	INSPECTOR(S): Timothy Cazier, P.E.	INSP. DATE: August 9, 2021	INSP. TIME: 11:15
OPERATOR: Front Range Aggregates, LLC	OPERATOR REPRESENTATIVE: Dave Bieber, Phil Courtney, Josh Esquivel	TYPE OF OPERATION: 112c - Construction Regular Operation	
REASON FOR INSPECTION: Surety Related	BOND CALCULATION TYPE: Partial Bond	BOND AMOUNT: \$1,174,724.00	
DATE OF COMPLAINT: NA	POST INSP. CONTACTS: None	JOINT INSP. AGENCY: None	
WEATHER: Clear	INSPECTOR'S SIGNATURE: 	SIGNATURE DATE: October 26, 2021	

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----- Y	(FN) FINANCIAL WARRANTY----- Y	(RD) ROADS----- Y
(HB) HYDROLOGIC BALANCE----- Y	(BG) BACKFILL & GRADING----- Y	(EX) EXPLOSIVES----- Y
(PW) PROCESSING WASTE/TAILING---- Y	(SF) PROCESSING FACILITIES----- Y	(TS) TOPSOIL----- Y
(MP) GENL MINE PLAN COMPLIANCE- Y	(FW) FISH & WILDLIFE----- Y	(RV) REVEGETATION---- Y
(SM) SIGNS AND MARKERS----- Y	(SP) STORM WATER MGT PLAN---- Y	(RS) RECL PLAN/COMP-- Y
(ES) OVERBURDEN/DEV. WASTE----- Y	(SC) EROSION/SEDIMENTATION--- Y	(ST) STIPULATIONS----- Y
(AT) ACID OR TOXIC MATERIALS----- Y	(OD) OFF-SITE DAMAGE----- Y	

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

OBSERVATIONS

This inspection was conducted by Tim Cazier (DRMS) as a pre-operational/surety related inspection in support of the amendment (AM2) application currently under review by the DRMS. The Permittee (Front Range Aggregates) was represented by Messrs. Dave Bieber, Phil Courtney and Josh Esquivel of Martin Marietta Materials (MMM). The Parkdale Quarry site access road entrance is located off US 50, approximately 10 miles west of Cañon City. This is permitted as a 112c aggregate mine. It was active at the time of the inspection.

The previous inspection was on July 24, 2019. There are no open infractions.

The primary focus of this inspection was as follows:

- Observe the status of the reclamation for the existing alluvial and granite quarries for the purpose of evaluating the bond for the proposed expansion;
- Determine if any additional structures might be impacted by the proposed expansion;
- Observe Webster Park drainages as the proposed expansion area reclamation drainage channels are to be similar.

Alluvial Quarry Reclamation Status: Mr. Bieber confirmed the AM2 reclamation plan in to backfill the alluvial pit with the exception of a 15-acre (Reference Exhibit L) water storage area in the northwest corner. The alluvial quarry was observed to have backfill placed both via discharged wash fines (see **Image 1**) and combination of solid crusher fines and oversize rock (see **Image 2**). Based on site observations and Google Earth measurements, the DRMS estimates a little more than 40 acres of the alluvial pit requires backfill. The average 15-foot depth of fill stated in Exhibit L is acceptable. The Permittee is required to backfill at least two feet above the seasonal high groundwater elevation. Mr. Bieber indicated MMM plans to fill the alluvial quarry to at or near the surrounding area elevation.

Existing Granite Quarry Reclamation Status: The DRMS was concerned about erosion on the reclaimed portion of the highwall (see **Image 3**). Mr. Bieber explained this area is under temporary reclamation as Phase 6 of the proposed AM2 mine plan will re-disturb this area. As this area is not under final reclamation and MMM is onsite to perform maintenance as necessary, the erosion (from which no offsite impact was observed) was not cited as a problem. [The DRMS recommends MMM recover any eroded growth media and stockpile it for future reclamation.](#)

Additional Structures: Southeast of the existing Granite Quarry, Black Hills Energy has extended a power line (see **Image 4**). MMM is currently in the process of addressing this structure in accordance with Rule 6.4.19.

Webster Park Drainages: Photos of the drainages in Webster Park near the intersection of FCR 3 and FCR 3 were taken prior to the inspection (see **Image 5**). Site representatives pointed out Webster Park drainages just south of the Arkansas River and Hwy 50, after the inspection (see **Image 6**).

Affected Area Boundary Discrepancy: There are two access roads to the existing Granite Quarry: one over a bridge crossing Tallahassee Creek; the other is a low water crossing through Tallahassee Creek (see **Image 7**). Based on mapping from Amendment 1 (AM1), and carried over to AM2, the segment north of Tallahassee Creek and the segment immediately south of the Creek does not appear to be constructed where perhaps intended in AM1 (see **Image 8**). [Current AM2 maps \(Exhibit C6, D1 through D7, and F\) will need to be revised to show the entire length of the low water crossing is affected area.](#)

Signs and Markers: The required site public notice was properly posted (see **Image 9**).

Please contact Tim Cazier (303)866-3567 ext. 8169 or email at tim.cazier@state.co.us if you have any questions regarding this report.

IMAGES



Image 1. NW area of Alluvial Pit with washer fines discharge/backfill (looking NW).

IMAGES (cont.)



Image 2. SE area of Alluvial Pit with crusher fines/oversize backfill (looking NE).



Image 3. Erosion in reclaimed existing Granite Quarry (Looking NE).

IMAGES (cont.)



Image 4. New Black Hills power line SE of existing Granite Quarry (looking SW).



Image 5. Webster Park drainage south of FCR 3 & ~1/4 mile west of FCR 3A (looking south).

IMAGES (cont.)



Image 6. Webster Park drainage south of HWY 50, ~3/4 mile east of FCR 157 (looking south).



Image 7. Low water crossing near existing Granite Quarry (looking south).

IMAGES (cont.)

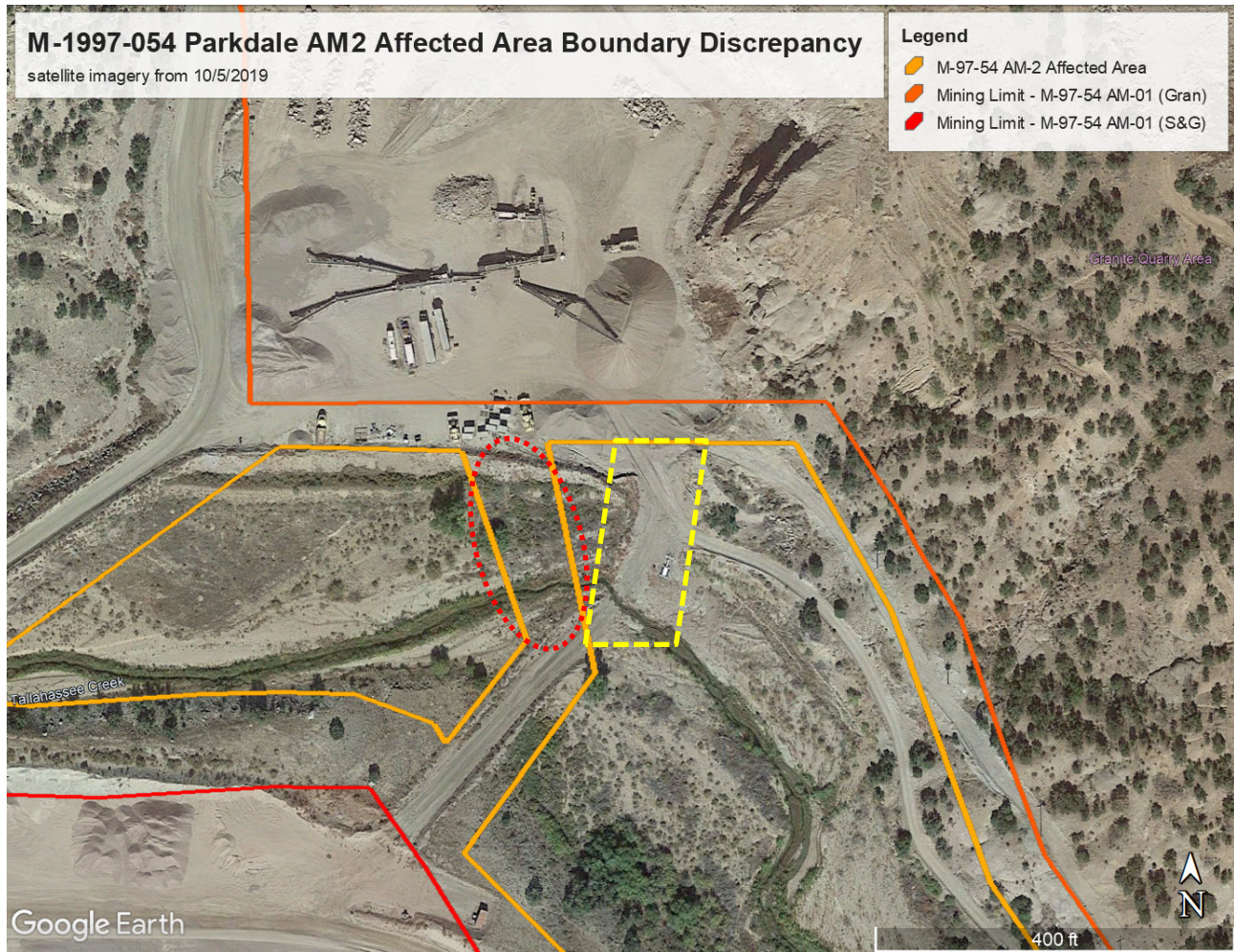


Image 8. Low water crossing segments requiring inclusion in affected area boundary (outlined by yellow dashed line). {red dotted line outlines unaffected area included in affected area boundary}



Image 9. Posted site public notice (north side of railroad tracks).

Inspection Contact Address

Dave Bieber
Front Range Aggregates, LLC
c/o Martin Marietta Materials, Inc.
1627 Cole Boulevard, Suite 200
Lakewood, CO 80401

ec: DRMS file
Stephanie Carter, BLM