




## 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> MMM Partnership Gravel Pit	<b>MINE/PROSPECTING ID#:</b> M-2006-042	<b>MINERAL:</b> Sand, gravel and borrow material	<b>COUNTY:</b> Logan
<b>INSPECTION TYPE:</b> Monitoring	<b>INSPECTOR(S):</b> Jared L. Ebert	<b>INSP. DATE:</b> April 18, 2018	<b>INSP. TIME:</b> 13:30
<b>OPERATOR:</b> MMM Partnership, LLP.	<b>OPERATOR REPRESENTATIVE:</b> Mark Kokes	<b>TYPE OF OPERATION:</b> 112c - Construction Regular Operation	
<b>REASON FOR INSPECTION:</b> Normal I&E Program	<b>BOND CALCULATION TYPE:</b> Complete Bond	<b>BOND AMOUNT:</b> \$67,200.00	
<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 23, 2018	

### 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>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>Y</u>	(RV) REVEGETATION---- <u>Y</u>
(SM) SIGNS AND MARKERS----- <u>Y</u>	(SP) STORM WATER MGT PLAN---- <u>NA</u>	(RS) RECL PLAN/COMP-- <u>NA</u>
(ES) OVERBURDEN/DEV. WASTE----- <u>NA</u>	(SC) EROSION/SEDIMENTATION--- <u>Y</u>	(ST) STIPULATIONS----- <u>NA</u>
(AT) ACID OR TOXIC MATERIALS----- <u>NA</u>	(OD) OFF-SITE DAMAGE----- <u>Y</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 of the MMM Partnership Gravel site, DRMS Permit No. M-2006-042 operated by MMM Partnership, LLP (MMM). I, Jared Ebert with the Colorado Division of Reclamation, Mining and Safety (DRMS or Division) conducted the inspection. Mr. Mark Kokes with MMM accompanied me during the inspection.

This is a 27.8 acre 112c mining operation for sand, gravel and borrow material. The approved post-mining land use is pastureland.

### **Availability Of Records:**

The 2016-2017 annual report map is a fairly accurate depiction of the current site conditions.

### **Backfilling and Grading:**

The primary excavation is occurring in the north/north central portion of the permit area consisting of two primary highwalls. The Division measured the location of these highwalls using the ArcCollector Application. These features are shown on the attached map. The western highwall is about 243 feet in length and the eastern highwall is about 227 feet in length. Both highwalls range in height from 15 to 25 feet and are nearly vertical at the top. These highwalls daylight facing south and the base of the pit is a relatively gentle slope undulating with the natural topography.

The 2016-2017 annual report map depicts a "Preliminary Slope Area", this area is a graded area with native vegetation established. It appears this area was the top of a ridge that has been lowered with 3H:1V to 4H:1V side slopes. Some rills were observed in this area. These rills end at the base of the pit and a berm of topsoil and manure compost keep the sediment contained onsite. According to Mr. Kokes, MMM plans on mining into the area with the rills in the future, so this area will be re-affected.

### **Financial Warranty:**

The Division has evaluated the financial warranty amount held for this site (\$67,200.00) and believe it to be adequate to reclaim the current affected land.

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

The boundary of the site was marked and the affected land appears to be contained within the permit area. Berms of topsoil, manure and compost are placed to keep sediment contained within the site.

### **Revegetation:**

Native vegetation has established within the area previously graded and reclaimed by the Operator.

### **Topsoil:**

Topsoil is stockpiled adjacent to the excavated areas in piles. Also, the Operator has imported manure and has placed it in berms north of the highwalls and in the southern portion of the affected area.

**PHOTOGRAPHS**



Figure 1. Base of the eastern highwall looking northwest.



Figure 2. From on top of the eastern highwall looking southeast.





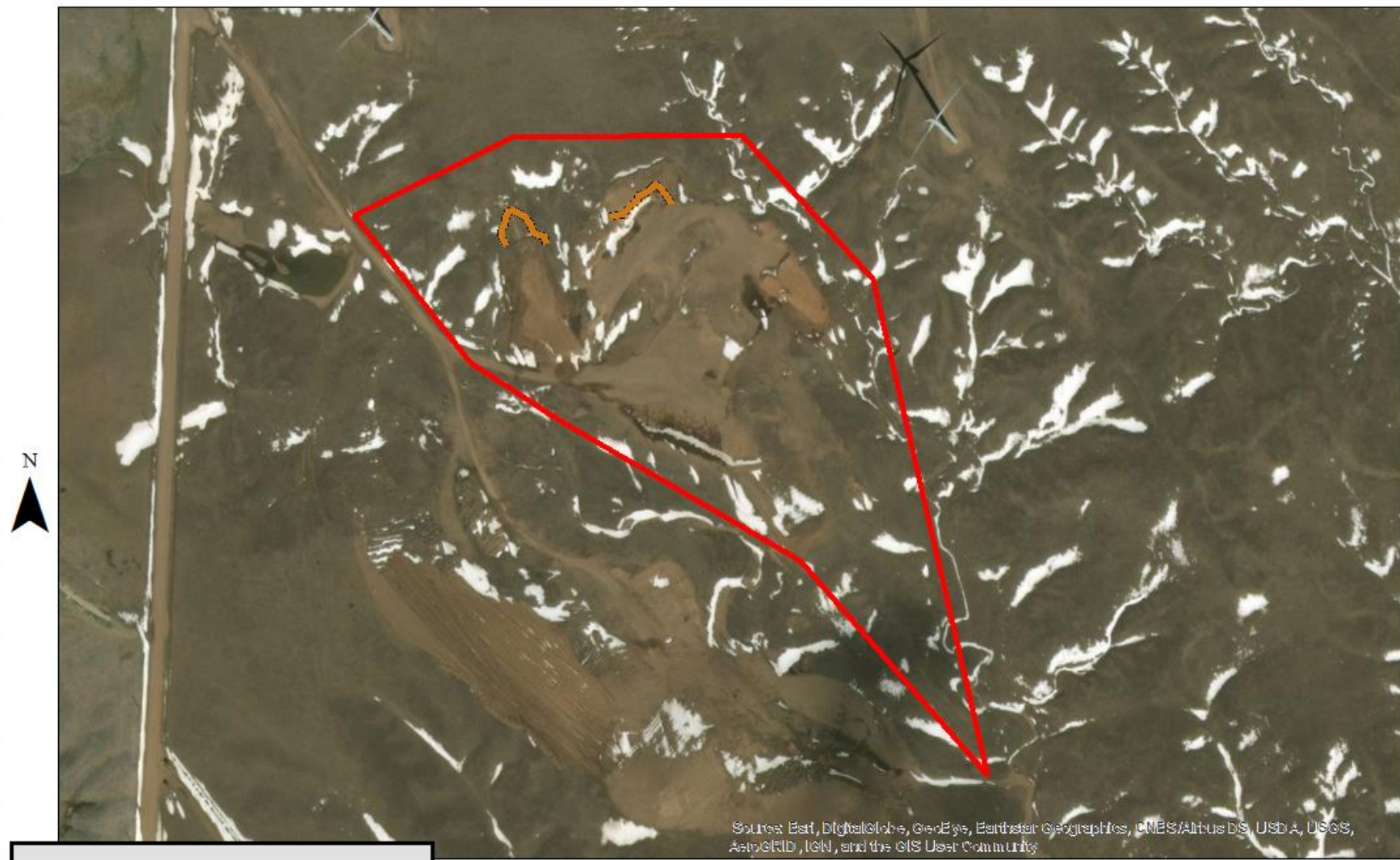
Figure 3. Western highwall



Figure 4. From the base of the highwalls looking southeast. "Preliminary Slope Area" outlined in red-dashed oval.

# MMM Partnership Gravel, M-2006-042

April 18, 2018 DRMS Inspection



## Legend

- 18April2018\_Highwalls
- MMMPartnership\_PermitBoundary

0 250 500 1,000 Feet

Jared Ebert, DRMS  
Data Collected 4/18/2018  
Map Created 4/23/2018

**Inspection Contact Address**

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