



# 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> McCumber Hill Pit	<b>MINE/PROSPECTING ID#:</b> M-2000-151	<b>MINERAL:</b> Sand and gravel	<b>COUNTY:</b> Fremont
<b>INSPECTION TYPE:</b> Monitoring	<b>WEATHER:</b> Clear	<b>INSP. DATE:</b> February 23, 2023	<b>INSP. TIME:</b> 09:35
<b>OPERATOR:</b> Fremont Paving & Redi-Mix, Inc.	<b>OPERATOR REPRESENTATIVE:</b> Jodi Schreiber	<b>TYPE OF OPERATION:</b> 112c - Construction Regular Operation	
<b>REASON FOR INSPECTION:</b> Normal I&E Program	<b>BOND CALCULATION TYPE:</b>	<b>BOND AMOUNT:</b> \$64,540.00	
<b>DATE OF COMPLAINT:</b> NA	<b>POST INSP. CONTACTS:</b> None	<b>JOINT INSP. AGENCY:</b> None	
<b>INSPECTOR(S):</b> Timothy Cazier, P.E.	<b>INSPECTOR'S SIGNATURE:</b> 	<b>SIGNATURE DATE:</b> January 2, 2024	

### 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>N</u>
(HB) HYDROLOGIC BALANCE----- <u>N</u>	(BG) BACKFILL & GRADING----- <u>Y</u>	(EX) EXPLOSIVES----- <u>NA</u>
(PW) PROCESSING WASTE/TAILING---- <u>N</u>	(SF) PROCESSING FACILITIES----- <u>Y</u>	(TS) TOPSOIL----- <u>N</u>
(MP) GENL MINE PLAN COMPLIANCE- <u>Y</u>	(FW) FISH & WILDLIFE----- <u>Y</u>	(RV) REVEGETATION---- <u>N</u>
(SM) SIGNS AND MARKERS----- <u>Y</u>	(SP) STORM WATER MGT PLAN---- <u>N</u>	(RS) RECL PLAN/COMP-- <u>Y</u>
(ES) OVERBURDEN/DEV. WASTE----- <u>Y</u>	(SC) EROSION/SEDIMENTATION--- <u>N</u>	(ST) STIPULATIONS----- <u>Y</u>
(AT) ACID OR TOXIC MATERIALS----- <u>N</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

## **OBSERVATIONS**

This inspection was conducted by Tim Cazier (DRMS) as part of the regular monitoring program. The Permittee (Fremont Paving) was represented by Ms. Jodi Schreiber during the inspection. The site entrance is located approximately two miles west of Florence, near the intersection of County Road 11A and Churchill Ave. This is 112c sand and gravel mining operation. The site was not active at the time of the inspection. There was approximately two inches of fresh snow covering the ground, limiting some observations.

Availability of Records: Annual reports are current, having been filed through April 2023, stating the last mining activity was March 24, 2023. The previous inspection was on March 20, 2019. The approved post-mine land use is rangeland. There are no open infractions. Both the surface and minerals are privately owned.

There is a discrepancy in the annual report records related to the amount of total affected area. In 2017, 10 acres of total affected area were reported. The amount reported decreased intermittently to 7.7 acres in the 2022 report (see **Figure 1** below). The DRMS has no record of Fremont Paving having submitted a request for an acreage reduction. As such, [the affected area should still be 10 acres.](#)

M-2000-151 Fremont Paving, Redi-Mix, Inc. / McCumber Hill Pit					
Annual Fees		Application	Archive Permit	Archive System	Bond
		CIRCES			
	Year	Discrepancy	Incomplete	Total Affected Acres	
▶	2017	✓	<input type="checkbox"/>	10	
	2018	✓	<input type="checkbox"/>	8.9	
	2019	✓	<input type="checkbox"/>	8.2	
	2020	✓	<input type="checkbox"/>	8.2	
	2021	<input type="checkbox"/>	<input type="checkbox"/>	8.2	
	2022	<input type="checkbox"/>	<input type="checkbox"/>	7.7	

**Figure 1. Annual Report Total Affected Areas (2017 - 2022)**

Backfilling and Grading: No change was observed relative to backfilling and grading. Exterior highwalls were still approximately 2H:1V (see **Photos 1** and **2**).

Excess Spoil and Dev. Waste: No change was observed relative to overburden piles.

Financial Warranty: The \$64,540 phased bond held by the DRMS was last updated in 2001 and included 32 acres of reseeded. An updated phased bond estimate totaling \$178,119 is included with this report as **Attachment A**. As this bond is for 32 acres and there is only about 10 acres of disturbed area ( $10/32 \times \$178,119 = \$55,662$ ), noting that mobilization costs are not scalable. Therefore, this amount is deemed adequate for the observed mine disturbance. A review of DRMS records shows Fremont Paving's March 1, 2001 responses to our Preliminary Adequacy Letter requested the phased disturbance area be reduced to 20 acres. DRMS records do not include a bond estimate reflecting the reduction in phased affected area. It is also not clear the attached updated bond estimate includes flattening the 2H:1V highwalls to the final approved 3H:1V reclaimed highwalls as it is uncertain this could be accomplished using scrapers. The DRMS [recommends Fremont Paving submit a Technical Revision to clarify the phased bonding area and the reclamation plan details to reduce the highwalls from the active 2H:1V to the final 3H:1V to avoid potential future confusion.](#)

Fish and Wildlife: No impact to wildlife was observed.

Gen. Compliance with Mine Plan: The operation appeared to be in compliance with the approved mine plan. The maximum allowed disturbed area reflected in the **Attachment A** bond estimate is 32 acres. Google Earth historical imagery was used to estimate the disturbed area, which was approximately 10.3 acres, based on older 2005 through 2019 imagery.

Off-site Damage: The operation appeared to be confined to the permit boundary, based on Google Earth review and site observations.

Processing Waste: Snow cover prevented observations.

Roads: Snow cover prevented observations (see **Photo 3**).

Right of Entry: According to Fremont County Assessor records, Fremont Paving owns the property.

Reclamation Success: No reclamation has been initiated. The flattening of the highwalls to 2H:1V was to bring the slopes into compliance with the approved mine plan.

Revegetation: Snow cover prevented observations.

Sediment Control: Snow cover prevented observations.

Support Facilities On-site: No equipment was observed on site.

Signs and Markers: A new permit sign was properly posted (see **Photo 4**) on the entrance gate and boundary markers were still present.

Permit Stipulations: There are no permit stipulations.

Structures: No new structures were observed.

Post Inspection Meeting: No Problems or Possible Violations were observed during the inspection. Ms. Schreiber requested a copy of the draft version of DRMS area definitions. A copy was emailed to her on February 24<sup>th</sup>.

Please contact Tim Cazier (303)328-5229 or email at [tim.cazier@state.co.us](mailto:tim.cazier@state.co.us) if you have any questions regarding this report.

## **PHOTOGRAPHS**



Photo 1. West facing exterior highwall (left side, looking south from pit floor).



Photo 2. SW facing exterior highwall (north end, looking north from pit floor).



**PHOTOGRAPHS (cont.)**

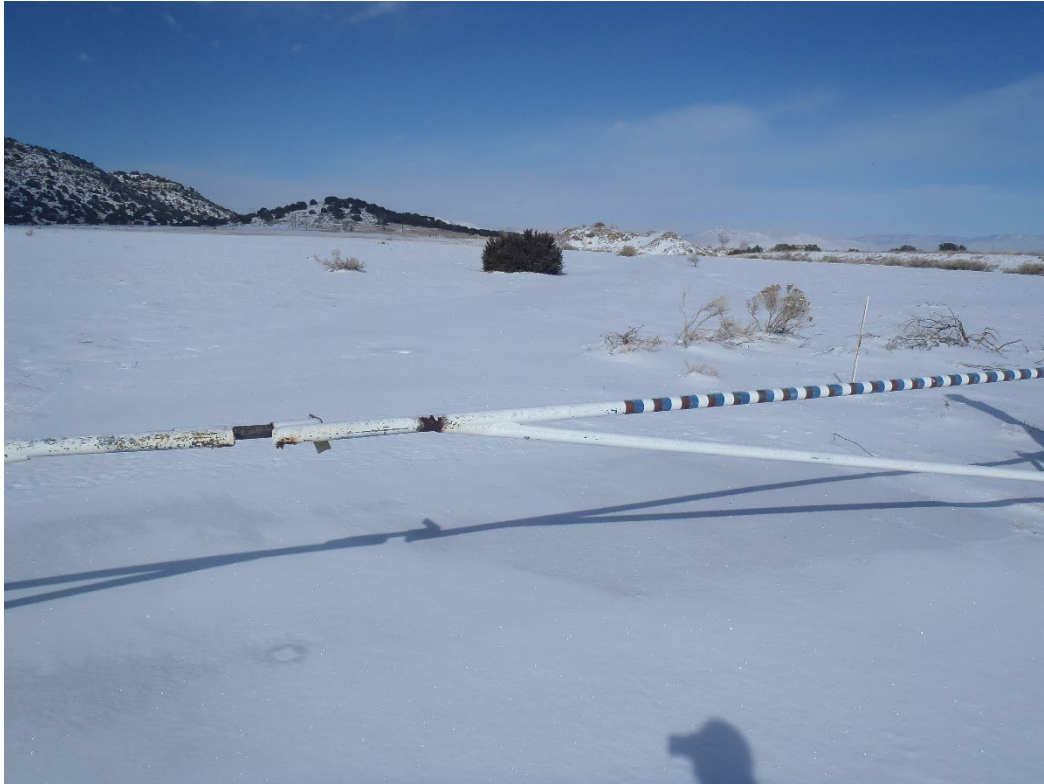


Photo 3. Access road covered in snow (looking west).



Photo 4. Permit sign (on gate off CR 11A).

**Inspection Contact Address**

Jodi Schreiber  
Fremont Paving & Redi-Mix, Inc.  
P.O. Box 841  
Cañon City, CO 81215

Enclosure: Attachment A, Bond Estimate

ec: Hunter Ridley, DRMS  
DRMS file  
Jodi Schreiber, Fremont Paving & Redi-Mix

# ATTACHMENT A

## COST SUMMARY WORK

Task description: \_\_\_\_\_

Site: McCumber Hill Pit

Permit Action: 2023 Update

Permit/Job#: M2000151

### PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 12/29/2023

County: Fremont

Filename: M151-000

User: TC1

Agency or organization name: DRMS

### TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Replace 12 Inches of Overburden/Topsoil to 32 Acres	SCRAPER1	1	77.67	\$88,029
002	Revegetate 32 Acres ( <i>no fertilizer</i> )	REVEGE	1	64.00	\$47,528
003	Mob/Demob Equipment	MOBILIZE	1	3.88	\$4,447
<b><u>SUBTOTALS:</u></b>				<b>145.55</b>	<b>\$140,004</b>

### INDIRECT COSTS

#### OVERHEAD AND PROFIT:

Liability insurance: 2.02

Total = \$2,828

Performance bond: 1.05

Total = \$1,470

Job superintendent: 72.77

Total = \$4,736

Profit: 10.00

Total = \$14,000

TOTAL O & P = \$23,034

CONTRACT AMOUNT (direct + O & P) = \$163,038

#### LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): \$0

Total = \$0

Engineering work and/or contract/bid preparation: 4.25

Total = \$6,929

Reclamation management and/or administration: 5.00

\$8,152

CONTINGENCY: 0.00

Total = \$0

TOTAL INDIRECT COST = \$38,115

**TOTAL BOND AMOUNT (direct + indirect) = \$178,119**

**SCRAPER TEAM WORK**Task description: **Replace 12 Inches of Overburden/Topsoil to 32 Acres**Site: **McCumber Hill Pit**Permit Action: 2023 UpdatePermit/Job#: M2000151**PROJECT IDENTIFICATION**Task #: 001State: ColoradoAbbreviation: NoneDate: 12/29/2023County: FremontFilename: M151-001User: TC1Agency or organization name: DRMS**HOURLY EQUIPMENT**COST Shift basis: 1 per day

Equipment Description	
-Scraper:	Cat 637G w/push-pull
-Dozer:	NA
Support Equipment -Load Area:	NA
-Dump Area:	NA
Road Maintenance -Motor Grader:	NA
-Water Truck:	NA

**Cost Breakdown:****Scraper Work Team****Support Equipment****Maintenance Equipment**

	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	NA	NA	NA	NA	NA
Ownership cost/hour:	\$255.23	NA	NA	NA	NA	NA
Operating cost/hour:	\$280.59	NA	NA	NA	NA	NA
%Utilization-ripper:	NA	NA	NA	NA	NA	NA
Ripper own. cost/hour:	NA	NA	NA	NA	NA	NA
Ripper op. cost/hour:	NA	NA	NA	NA	NA	NA
Operator cost/hour:	\$30.90	NA	NA	NA	NA	NA
Unit Subtotals:	\$566.72	NA	NA	NA	NA	NA
Number of Units:	2	0	0	0	0	0
Group Subtotals:	Work: \$1,133.44		Support:	\$0.00	Maint:	\$0.00

Total work team cost/hour: **\$1,133.44****MATERIAL QUANTITIES**Initial volume: 51,626

CCY

Swell factor: 1.330Loose volume: **68,663**

LCY

Source of estimated volume: Orig. 1/23/2001 CIRCES Estimate {Exh. L}Source of estimated swell factor: Cat Handbook**HOURLY PRODUCTION****Scraper Bowl (volume) Basis:**

Material weight: 2,900 lbs/LCY  
 Material description: Decomposed rock - 50% Rock, 50% Earth  
 Rated Payload: 81,600 pounds  
 Payload Capacity: 28.14 LCY

Struck Volume: 24.00 LCY  
 Heaped Volume: 34.00 LCY  
 Average Volume: 29.00 LCY  
 Adjusted Capacity: **28.14** LCY



Cycle Time:Scraper Loading Time: 1.00 MinutesManeuver and Spread Time: 0.60 MinutesJob Condition Correction:

Site Altitude: 5400 feet

	Scraper	Push Dozer	Source
Altitude Adj:	1.000	NA	(CAT HB)
Job Efficiency:	0.830	NA	(CAT HB)
Net Correction:	0.830	NA	

Travel Time:Road Condition: Firm, smooth, rolling, dirt/lt. surfaced, watered, maintained 3.0Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1500.00	2.00	3.00	5.00	1867	0.95

Haul Time: 0.95 minutesReturn Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1500.00	-2.00	3.00	1.00	2963	0.62

Return Time: 0.62 minutesTotal Scraper team cycle time: 3.17 minutesAdjusted for job conditions: 884.08 LCY/HourSelected Number of Scrapers: 2 Scraper(s)Adjusted single scraper team (unit) hourly production: 884.08 LCY/HourAdjusted multiple scraper team (fleet) hourly production: 884.08 LCY/HourUnadjusted unit production/hour: 1,065.16 LCY/Hour

Optimal Number of Scrapers per push dozer: \_\_\_\_\_

**JOB TIME AND COST**Fleet size: 1 Team(s)Total job time: 77.67 HoursUnit cost: \$1.282 /LCYTotal job cost: \$88,029

REVEGETATION WORKTask description: Revegetate 32 Acres (no fertilizer)Site: McCumber Hill PitPermit Action: 2023 UpdatePermit/Job#: M2000151PROJECT IDENTIFICATIONTask #: 002State: ColoradoAbbreviation: NoneDate: 12/29/2023County: FremontFilename: M151-002User: TC1Agency or organization name: DRMSFERTILIZING**Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			<b>Total Fertilizer Materials Cost/Acre</b>	<b>\$0.00</b>

**Application**

Description	Cost /Acre
	\$
<b>Total Fertilizer Application Cost/Acre</b>	<b>\$0.00</b>

TILLING

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$112.82
<b>Total Tilling Cost/Acre</b>	<b>\$112.82</b>

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Blue Grama - Hachita	0.45	7.35	\$7.19
Indian Ricegrass - Nespar	1.25	4.05	\$11.09
Little Bluestem - Cimarron	1.00	5.97	\$12.48
Sideoats Grama - Butte	1.35	4.43	\$12.15
Burnett, Small (or Little) - Delar	1.00	1.26	\$2.50
Sainfoin - Remont	1.80	0.79	\$5.69
Thickspike Wheatgrass - Critana	2.75	9.72	\$18.91
<b>Totals Seed Mix</b>	<b>9.60</b>	<b>33.56</b>	<b>\$70.01</b>

## Application

Description	Cost /Acre
Broadcast seeding [DMG]	\$267.22
<b>Total Seed Application Cost/Acre</b>	<b>\$267.22</b>

## **MULCHING and MISCELLANEOUS**

## Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$429.79	\$859.57
<b>Total Mulch Materials Cost/Acre</b>				<b>\$859.57</b>

## Application

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$74.46
<b>Total Mulch Application Cost/Acre</b>	<b>\$74.46</b>

## NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
Totals Nursery Stock Cost / Acre					\$0.00

## JOB TIME AND COST

No. of Acres:	<u>32</u>	Cost /Acre:	<u>\$1,384.08</u>
Estimated Failure Rate:	<u>30%</u>	Cost /Acre*:	<u>\$337.23</u>
*Selected Replanting Work Items:	<u>SEEDING</u>		
Initial Job Cost:	<u><b>\$44,290.56</b></u>		
Reseeding Job Cost:	<u><b>\$3,237.41</b></u>		
Total Job Cost:	<u><b>\$47,528</b></u>		
Job Hours:	<b>64.00</b>		

**EQUIPMENT MOBILIZATION/DEMOBILIZATION**Task description: **Mob/Demob Equipment**Site: **McCumber Hill Pit**Permit Action: **2023 Update**Permit/Job#: **M2000151****PROJECT IDENTIFICATION**Task #: **003**State: **Colorado**Abbreviation: **None**Date: **12/29/2023**County: **Fremont**Filename: **M151-003**User: **TC1**Agency or organization name: **DRMS****EQUIPMENT TRANSPORT RIG COST**Shift basis: **1 per day**Cost Data Source: **CRG Data**Truck Tractor Description: **GENERIC ON-HIGHWAY TRUCK TRACTOR, 6X4, DIESEL POWERED,  
400 HP (2ND HALF, 2006)**Truck Trailer Description: **GENERIC FOLDING GOOSENECK, DROP DECK EQUIPMENT  
TRAILER (25T, 50T, AND 100T)****Cost Breakdown:**

<b>Available Rig Capacities</b>	<b>0-25 Tons</b>	<b>26-50 Tons</b>	<b>51+ Tons</b>
Ownership Cost/Hour:	\$20.26	\$36.04	\$47.05
Operating Cost/Hour:	\$39.51	\$76.08	\$82.85
Operator Cost/Hour:	\$22.52	\$22.52	\$22.52
Helper Cost/Hour:	\$0.00	\$23.53	\$23.53
Total Unit Cost/Hour:	\$82.29	\$158.17	\$175.95

**NON ROADABLE EQUIPMENT:**

Machine Description	Weight/ Unit (TONS)	Owner ship Cost/hr/ unit	Haul Rig Cost/hr/unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
Drill/Broadcast Seeder with Tractor	25.00	\$6.73	\$82.29	1	\$89.02	\$82.29	\$250.00
Cat 637G w/push- pull	59.59	\$255.23	\$175.95	2	\$862.36	\$351.90	\$500.00

Subtotals: **\$951.38** **\$434.19** **\$750.00****ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
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Subtotals: **\$0.00** **\$0.00**

**EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region:	<u>PUEBLO</u>	
Total one-way travel distance:	<u>36.00</u>	miles
Average Travel Speed:	<u>50.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$4,446.60</u>
** two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	<u>\$0.00</u>
** one round trip, no haul rig:	

**Transportation Cycle Time:**

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>0.72</u>	<u>0.72</u>
Return Time (Hours):	<u>0.72</u>	<u>0.72</u>
Loading Time (Hours):	<u>0.25</u>	<u>NA</u>
Unloading Time (Hours):	<u>0.25</u>	<u>NA</u>
Subtotals:	<u>1.94</u>	<u>1.44</u>

**JOB TIME AND COST**

Total job time:	<u>3.88</u>	Hours
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Total job cost:	<u>\$4,447</u>
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