



STATE OF
COLORADO

Drinkard - DNR, Connor <connor.drinkard@state.co.us>

Stonewall #1, M-2013-053, Inspection Report and Reclamation Cost Estimate

1 message

Drinkard - DNR, Connor <connor.drinkard@state.co.us>

Wed, Jun 8, 2022 at 9:02 AM

To: Jodi Schreiber <jodi@arycorp.com>

Good morning Jodi,

Please see the attached inspection report and reclamation cost estimate and let me know if you have any questions. We are no longer sending hard copies unless they are requested.

Best regards,

--

Connor Drinkard

Environmental Protection Specialist Intern



COLORADO
Division of Reclamation,
Mining and Safety
Department of Natural Resources

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2 attachments



INSP-REPORTM_M2013053_CJD_05162022113620.pdf
2584K




M2013053_CostEstimate_2022April.pdf
336K



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: Stonewall #1	MINE/PROSPECTING ID#: M-2013-053	MINERAL: Borrow material for construction and aggregate	COUNTY: Las Animas
INSPECTION TYPE: Monitoring	INSPECTOR(S): Connor Drinkard	INSP. DATE: April 13, 2022	INSP. TIME: 15:00
OPERATOR: All-Rite Paving & Redi-Mix, Inc.	OPERATOR REPRESENTATIVE: Mr. John Paul Ary and Ms. Jodi Schreiber	TYPE OF OPERATION: 112c - Construction Regular Operation	
REASON FOR INSPECTION: Normal I&E Program	BOND CALCULATION TYPE: Complete Bond	BOND AMOUNT: \$13,150.00	
DATE OF COMPLAINT: NA	POST INSP. CONTACTS: None	JOINT INSP. AGENCY: None	
WEATHER: Clear	INSPECTOR'S SIGNATURE: 	SIGNATURE DATE: June 8, 2022	

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

OBSERVATIONS

This was a monitoring inspection of the Stonewall #1 site, Division of Reclamation, Mining and Safety (DRMS or Division) permit number M-2013-053, operated by All-Rite Paving Redi Mix, Inc. I, Connor Drinkard and Jared Ebert with DRMS conducted the inspection. Mr. John Paul Ary and Ms. Jodi Schreiber with All-Rite Paving Redi Mix, Inc. accompanied us during the inspection.

Hydrologic Balance:

No water observed. Exposure of groundwater must not occur during or after mining operations.

Gen. Compliance with Mine Plan:

According to the 12/06/2021 annual reclamation report the last activity at the site occurred 11/01/21 with 9 acres reported affected. Mr. Ary indicated the site will likely be active again soon. **According to the mine plan, mining is to take place in three (5 acres) phases with each phase being reclaimed before developing a new phase. The current affected area was plotted during the inspection and shown to be approximately 6.09 acres. It appears the first phase of mining is complete and the second phase of mining is developing. Please reclaim the first phase.** Also according to the mine plan, mining proceeds in a southerly direction from the northern end of the permit area. Mining will proceed to a depth of approx. 30 feet below the ground surface with highwalls no steeper than 3H:1V. Reclamation is concurrent and final reclaimed slopes shall be 3H:1V or flatter. All of the slopes from the pit excavation appeared to be graded to 3H:1V or flatter.

Signs and Markers:

The mine identification sign and permit boundary markers were observed.

Financial Warranty:

The current required financial warranty for the site is \$13,150.00, the Division currently holds a financial warranty in the amount of \$13,150.00 in the form of the Bond from Travelers Casualty and Surety Company of America. The Division has evaluated the reclamation liability for the site and calculated it to be \$30,299.00. This amount is \$17,149.00 more than the financial warranty currently held. The Division requests the operator review the enclosed reclamation cost estimate and provide the Division any questions or comments by July 8, 2022. The Division may issue a required surety increase notice after this date in accordance with Rule 4.2.1(2). If so, All-Rite Paving Redi Mix, Inc. will have sixty days from the date of the notice to provide the additionally required surety.

Storm Water MGT Plan:

If storm water is contained on-site, it must percolate within 72 hours. Best Management Practices will be used to limit the discharge of storm water sediment onto adjacent lands and waterways. The storm water diversion berms appeared adequate.

Erosion/Sedimentation:

Overall very little erosion present at the site.

Off-Site Damage:

No off-site damage was observed.

PHOTOGRAPHS



Figure 1. Permit sign at entrance.



Figure 2. Access road. Looking southwest at entrance.



Figure 3. Eastern side of affected area. Looking south from northeast corner of affected area.



Figure 4. Western side of affected area. Looking southwest from northeast corner of affected area.



Figure 5. Grubbed vegetation. Looking south.



Figure 6. Looking at east side of affected area.



Figure 7. Looking southwest from south side of affected area.

Stonewall #1, M-2013-053
April 13, 2022 DRMS Inspection



Figure 8. Map of Stonewall #1. Affected Area approx. 6.09 acres.

Inspection Contact Address

Ms. Jodi Schreiber
All-Rite Paving & Redi-Mix, Inc.
P.O. Box 165
Canon City, CO 81215

Enclosure: **Cost Estimate**

CC: None

COST SUMMARY WORK

Task description: Reclaim Stonewall #1

Site: Stonewall #1

Permit Action: 2022 April Inspection

Permit/Job#: M2013053

PROJECT IDENTIFICATION

Task #: 022

State: Colorado

Abbreviation: None

Date: 6/3/2022

County: Las Animas

Filename: M053-022

User: CJD

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001a	Remove scale and scalehouse	DEMOLISH	1	8.00	\$1,444
002	Spread fines ~10 inches over 6.1 acres	SCRAPER1	1	8.64	\$6,974
003	Revegetation	REVEGE	1	8.00	\$6,190
004	Equipment Mobilization	MOBILIZE	1	6.80	\$8,217
<u>SUBTOTALS:</u>				31.44	\$22,825

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02
Performance bond: 1.05
Job superintendent: 20.38
Profit: 10.00

Total = \$461

Total = \$240

Total = \$1,468

Total = \$2,282

TOTAL O & P = \$4,451

CONTRACT AMOUNT (direct + O & P) = \$27,276

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): \$500

Total = \$500

Engineering work and/or contract/bid preparation: 4.25

Total = \$1,159

Reclamation management and/or administration: 5.00

\$1,364

CONTINGENCY: 0.00

Total = \$0

TOTAL INDIRECT COST = \$7,474

TOTAL BOND AMOUNT (direct + indirect) = \$30,299

DEMOLITION WORKTask description: **Remove scale and scalehouse**Site: **Stonewall #1**Permit Action: 2022 April InspectionPermit/Job#: M2013053**PROJECT IDENTIFICATION**Task #: 001AState: ColoradoAbbreviation: NoneDate: 6/7/2022County: Las AnimasFilename: M053-001aUser: CJDAgency or organization name: DRMS**UNIT COSTS****Location adjustment: 88.00 %**

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Remove Scale	90 x15 feet	Loading and 5 mile haul, salvage allowed - Steel frame structures	150.00	CY	\$10.85	\$1,627.50
Demolish Scale House	10x10x12	Bldg. (SN) demo./off-site disposal in approved landfill - Max. 5 mile haul	44.00	CF	\$0.29	\$12.85

Job Hours: 8.00
Subtotal
 (unadjusted): \$1,640.35
Total Cost
(adjusted for location): \$1,443.51

SCRAPER TEAM WORKTask description: Spread fines ~10 inches over 6.1 acresSite: Stonewall #1Permit Action: 2022 April InspectionPermit/Job#: M2013053**PROJECT IDENTIFICATION**Task #: 002State: ColoradoAbbreviation: NoneDate: 6/3/2022County: Las AnimasFilename: M053-002User: CJDAgency or organization name: DRMS**HOURLY EQUIPMENT**COSTShift basis: 1 per day

Equipment Description	
-Scraper:	Cat 627G
-Dozer:	NA
Support Equipment -Load Area:	NA
-Dump Area:	NA
Road Maintenance -Motor Grader:	CAT 12M
-Water Truck:	Water Tanker, 5,000 Gal.

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	25	25
Ownership cost/hour:	\$154.27	NA	NA	NA	\$47.01	\$33.45
Operating cost/hour:	\$153.83	NA	NA	NA	\$9.42	\$10.49
%Utilization-ripper:	NA	NA	NA	NA	NA	NA
Ripper own. cost/hour:	NA	NA	NA	NA	\$0.00	\$0.00
Ripper op. cost/hour:	NA	NA	NA	NA	\$0.00	\$0.00
Operator cost/hour:	\$30.90	NA	NA	NA	\$28.56	\$0.00
Unit Subtotals:	\$339.00	NA	NA	NA	\$84.98	\$43.94
Number of Units:	2	0	0	0	1	1
Group Subtotals:	Work:	\$678.00	Support:	\$0.00	Maint:	\$128.92

Total work team cost/hour: **\$806.92****MATERIAL QUANTITIES**Initial volume: 8,201

CCY

Swell factor: 1.000Loose volume: **8,201**

LCY

Source of estimated volume: Division of Reclamation, Mining & SafetySource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION****Scraper Bowl (volume) Basis:**

Material weight:	<u>1,600 lbs/LCY</u>	Struck Volume:	<u>15.70</u>	LCY
Material description:	<u>Top Soil</u>	Heaped Volume:	<u>22.00</u>	LCY
Rated Payload:	<u>52,800 pounds</u>	Average Volume:	<u>18.85</u>	LCY
Payload Capacity:	<u>33.00 LCY</u>	Adjusted Capacity:	<u>18.85</u>	LCY

Cycle Time:Scraper Loading Time: 0.70 MinutesManeuver and Spread Time: 0.60 MinutesJob Condition Correction:

Site Altitude: 8142 feet

	Scraper	Push Dozer	Source
Altitude Adj:	0.960	NA	(CAT HB)
Job Efficiency:	0.830	NA	(CAT HB)
Net Correction:	0.797	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	450.00	0.00	3.00	3.00	2824	0.33

Haul Time: 0.33 minutesReturn Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	450.00	0.00	3.00	3.00	2874	0.27

Return Time: 0.27 minutesTotal Scraper team cycle time: 1.90 minutesAdjusted for job conditions: 474.42 LCY/HourSelected Number of Scrapers: 2 Scraper(s)Adjusted single scraper team (unit) hourly production: 948.85 LCY/HourAdjusted multiple scraper team (fleet) hourly production: 948.85 LCY/HourUnadjusted unit production/hour: 595.26 LCY/HourOptimal Number of Scrapers per push
dozer: _____JOB TIME AND COSTFleet size: 1 Team(s)Total job time: 8.64 HoursUnit cost: \$0.850 /LCYTotal job cost: \$6,974

REVEGETATION WORKTask description: **Revegetation**Site: **Stonewall #1**Permit Action: **2022 April Inspection**Permit/Job#: **M2013053****PROJECT IDENTIFICATION**Task #: **003**State: **Colorado**Abbreviation: **None**Date: **6/3/2022**County: **Las Animas**Filename: **M053-003**User: **CJD**Agency or organization name: **DRMS****SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indiangrass - Cheyenne	4.00	12.19	\$45.20
Big Bluestem - Native	4.40	13.13	\$51.99
Canada Wildrye	4.00	10.56	\$43.36
Little Bluestem - Native	2.80	16.71	\$37.99
Mountain Brome - Bromar	8.00	12.86	\$30.40
Totals Seed Mix	23.20	65.45	\$208.94

Application

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

JOB TIME AND COST

No. of Acres:	10	Cost /Acre:	\$476.16
Estimated Failure Rate:	30%	Cost /Acre*:	\$476.16
*Selected Replanting Work Items:	<u>SEEDING</u>		

Initial Job Cost: **\$4,761.60**
 Reseeding Job Cost: **\$1,428.48**
 Total Job Cost: **\$6,190**
 Job Hours: **8.00**

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Equipment Mobilization**Site: **Stonewall #1**Permit Action: **2022 April Inspection**Permit/Job#: **M2013053****PROJECT IDENTIFICATION**Task #: **004**State: **Colorado**Abbreviation: **None**Date: **6/3/2022**County: **Las Animas**Filename: **M053-004**User: **CJD**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:**

Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons
Ownership Cost/Hour:	\$21.28	\$37.94	\$47.67
Operating Cost/Hour:	\$26.55	\$50.48	\$56.21
Operator Cost/Hour:	\$20.54	\$20.54	\$20.54
Helper Cost/Hour:	\$0.00	\$23.53	\$23.53
Total Unit Cost/Hour:	\$68.37	\$132.49	\$147.95

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
Cat 627G	41.80	\$154.27	\$132.49	2	\$573.52	\$264.98	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$7.98	\$68.37	1	\$76.35	\$68.37	\$250.00
CAT 12M	16.01	\$47.01	\$68.37	1	\$115.38	\$68.37	\$250.00
CAT 963D	22.29	\$94.78	\$68.37	1	\$163.15	\$68.37	\$250.00

Subtotals: **\$928.40** **\$470.09** **\$1,000.00****ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Lube Truck, 4x2, 190 HP	\$35.20	1	\$35.20	\$35.20
Fuel Tanker, 4x2, 170 HP	\$29.70	1	\$29.70	\$29.70
Water Tanker, 5,000 Gal.	\$75.41	1	\$75.41	\$75.41
Light Duty Pickup, 4x4, 3/4 T.	\$12.93	1	\$12.93	\$12.93
Generic 15-18 cy, 6x4	\$118.17	2	\$236.34	\$236.34

Subtotals: **\$389.58** **\$389.58**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	TRINIDAD	
Total one-way travel distance:	35.00	miles
Average Travel Speed:	50.00	mph

Total Non-Roadable Mob/Demob Cost *	\$7,671.49
** two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	\$545.41
** one round trip, no haul rig:	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.70	0.70
Return Time (Hours):	0.70	0.70
Loading Time (Hours):	1.00	NA
Unloading Time (Hours):	1.00	NA
Subtotals:	3.40	1.40

JOB TIME AND COST

Total job time:	6.80	Hours
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Total job cost:	\$8,217
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