

# 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:	MINE/PROSPECTING ID#:	MINERAL:	COUNTY:
Bedrock Mine #1	M-1997-086	Stone and stone	Pueblo
INSPECTION TYPE:	WEATHER:	INSP. DATE:	INSP. TIME:
Monitoring	Clear	December 5, 2024	12:45
OPERATOR:	<b>OPERATOR REPRESENTATIVE:</b>	TYPE OF OPERAT	FION:
Siloam Stone, Inc.	Mr. Matthew Mueller	112c - Construction	Regular Operation
<b>REASON FOR INSPECTION:</b>	BOND CALCULATION TYPE:	<b>BOND AMOUNT:</b>	
Normal I&E Program	Complete Bond	\$108,619.06	
DATE OF COMPLAINT:	POST INSP. CONTACTS:	JOINT INSP. AGE	NCY:
NA	None	None	
INSPECTOR(S):	INSPECTOR'S SIGNATURE:	SIGNATURE DAT	Е:
Jocelyn Carter	1 DAL	January 6, 2025	
Ursula Armstrong	C/mit the		
-			

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

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

# **OBSERVATIONS**

The inspection of the Bedrock Mine #1, Permit No. M-1997-086, was conducted by Jocelyn Carter and Ursula Armstrong on behalf of the Division of Reclamation, Mining, and Safety (Division/DRMS). Bedrock Mine #1 is operated by Siloam Stone, Inc. and Matthew Mueller was present for the inspection of their behalf. The inspection took place during the afternoon and the weather was clear with cool temperatures and some snow on the ground.

Bedrock Mine #1 is a 112c permit with 329.70 acres, they extract sandstone material for rip-rap, decorative stone, and building stone. The post mine land use is rangeland for the permit area. The site is located about 8.5 miles southeast of Wetmore in Pueblo County. To access the site from the intersection of Colorado 67 (CO-67) and Colorada 96 (CO-96) in Wetmore, travel east on CO-96 for 6.8 miles, turn south on Siloam Rd and continue on Siloam Rd for 8 miles, the entrance to the site is on the east side of the road. The Bedrock Mine #1 mine sign can be seen at the entrance of the site. There are two active mining operations that are located within the permit boundary: the Siloam Mine, Permit No. M-1977-326, operated by General Shale Brick, Inc., and the Pinion Mine, Permit No. M-1997-096 operated by Siloam Stone, Inc. The two operators involved have a working relationship.

At the time of the inspection, the mine was active with two loaders collecting material from the recent openings to the north of the pit and staging it for processing. The operation extracts the usable material at a depth between 15 and 20 feet with various strata being targeted. Layers between the target strata are stockpiled and kept as overburden that will be used as backfill during reclamation operations. There is a clay layer that General Shale Brick, Inc. extracts as their target material for producing bricks. All processing of the extracted stone is done by sorting the stone based on the desired end use. There are no processing facilities on site. The operation breaks up the material and then processes the material and then appears to store the material based on the end use, i.e. decorative stone, building stone, pavers, rip-rap, etc.

Current mining occurring on the site is located north of the other two permit areas. There are several highwalls in this area that average to about 12 feet in height and about 1,400 feet in length. There is another highwall within the Siloam Mine permit area where material has been extracted down to a grey clay layer that General Shale Brick, Inc. extracts. This highwall measures about 14 feet in height and is 1,096 feet in length. This area has not been actively mined for a number of years and will not be active again until after the grey clay layer has been removed. Material that has been extracted and processed is stored on the stone yard and temporary stone storage area in the southern portion of the permit area.

During the inspection of the current extraction area, some tires appeared to have been discarded on a stockpile of broken up material that has not been processed yet. The Operator was advised that the tires need to be removed from the site and properly discarded. Mr. Mueller stated that he would have the tires removed as soon as possible.

The financial warranty held by the Division for this permit is \$108,619. An updated reclamation cost estimate was calculated for this inspection and the current financial warranty is no longer adequate. The updated reclamation cost estimate is attached with this inspection report.

Photos taken during the inspection are included in this report. Questions regarding this inspection should be directed to me, Jocelyn Carter, by email at Jocelyn.carter@state.co.us or by phone at (720) 666-1065.

## **Records**

A records review was performed for this inspection. There are no open violations or enforcement issues with the permit. The last inspection of the site was completed by Patrick Lennberg on July 14, 2020. The 2024 annual report, map, and fees were submitted on May 18, 2024.

## Signs and Markers

There is a sign at the entrance of the mine site in accordance with Rule 3.1.12(1), see Photo #1. Markers were not verified during the inspection.

## **Financial Warranty**

The current financial warranty held for this permit is \$108,619. The updated reclamation cost estimate for the current disturbances observed on site was recalculated to be \$164,503. This is an increased amount of \$55,884. The Division will issue a Surety Increase to the Operator.

## <u>Roads</u>

The internal roads for this permit are shared with the other two permits and appear to be stable and in good condition.

### **Explosives**

The permit does have a blasting plan in place, approved through technical revision TR-1 in July of 1999. Mr. Mueller stated that the last time explosives were used at the site had been years but was unable to say for sure when.

## <u>Topsoil</u>

There are numerous topsoil stockpiles for this permit and the other two permits, all within this permit boundary. The amount of topsoil/overburden that has been stored appears to be adequate in quantity for reclamation of the currently disturbed areas, see Photos #3 and #4.



Photo #1: Mine sign at the entrance of the site, the lower sign seen on this post s for this permit.



Photo #2: Store product material located to the north of the Pinion Mine permit area and south of the northern extraction area. View looking to the north from the road.



Photo #3: One of the topsoil/overburden stockpiles, seen with snow cover, situated next to a material stockpile located to the southeast of the northern extraction area where current mining is occurring. Looking to the east from the road north of the Pinion Mine permit area.



Photo #4: View of the current mining area, looking to the northeast. A wheel loader can be seen working on the pit floor next to a highwall. The large stockpile of material on the far right of the photo is another topsoil/overburden stockpile.



Photo #5: View of the west side of the current extraction area, broken up material can be seen in piles that will be processed and stored accordingly. Tires can be seen in this photo, the Operator stated that those tires would be removed as soon as possible.



2024 annual map submitted for the Bedrock Mine #1 permit.

#### Inspection Contact Address Mr. Matthew Mueller

Mr. Matthew Muelle Siloam Stone, Inc. 3194 Siloam Rd. Beulah, CO 81023

Enclosure: Division Reclamation Cost Estimate 2024

CC: Amy Eschberger, DRMS Ursula Armstrong, DRMS

# COST SUMMARY WORK

Та	sk descrip	tion:	Cost Summary					
Site: _]	Bedrock I	Mine #1	Per	mit Action:	2024 UPDATE	Permit/Job	o#: <u>M1997086</u>	
PR	OJECT 1	IDENTIFIC	ATION					
	Task #:	000	State: County:	Colorado Pueblo		Abbreviation: Filename:	None M086-000	
	User:		County.	r uebio		Phename.	W1080-000	

Agency or organization name: DRMS

# TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Grade Highwall to 3H:1V Slope	DOZER	1	3.10	\$694
002	Backfill Slab Stone Pit Areas	DOZER	1	7.18	\$1,587
003	Spread TS 1' on 29 acres	LOADER	1	132.20	\$24,645
004a	Rip 36 acres of TSSA and Stone Yard	GRADER	1	29.02	\$4,617
005	Spread and Shape TS 29.4 acres	GRADER	1	22.64	\$4,405
006	Revegetation of 29.4 acres related to mining areas	REVEGE	1	15.00	\$54,501
006a	Revegetation of 36.2 acres TSSA, Stone Yard and misc	REVEGE	1	18.00	\$28,339
006b	Weed Control 5.7 acres	REVEGE	1	0.00	\$1,931
007	Mob/Demob	MOBILIZE	1	3.85	\$4,748
		<u>SUBTC</u>	DTALS:	230.99	\$125,467

# **INDIRECT COSTS**

#### OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$2,534
Performance bond:	1.05	Total =	\$1,317
Job superintendent:	104.10	Total =	\$8,252
Profit:	10.00	Total =	\$12,547
		TOTAL O & P =	\$24,651
		CONTRACT AMOUNT (direct + O & P) = $($	\$150,118

### LEGAL - ENGINEERING - PROJECT MANAGEMENT:

TOTAL BO	ND AMOUNT (d	irect + indirect) =	\$164,503
	TOTAL IN	DIRECT COST =	\$39,036
CONTINGENCY:	0.00	Total =	\$0
Reclamation management and/or administration:	5.00	-	\$7,506
Engineering work and/or contract/bid preparation:	4.25	Total =	\$6,380
Financial warranty processing (legal/related costs):	\$500	Total =	\$500

# BULLDOZER WORK

Task description:	Grade Highwall	to 3H:1V S	lope		
: Bedrock Mine #1	Peri	mit Action:	2024 UPDATE	Permit/Job#:	M1997086
PROJECT IDENTI	<b>IFICATION</b>				
Task #: 001	State:	Colorado		Abbreviation:	None
Date: 1/2/2025	County:	Pueblo		Filename:	001
User: JLC					
Agency or or	ganization name: DR	RMS			
HOURLY EQUIPM	MENT COST				
Basic Machine:	Cat D7R DS XR Series	II			
	240				
• • •	Semi-Universal				
	3-shank ripper				
	per day				
Data Source:(	CRG)				
Cost Breakdown:			I		
0 11 7 7-		<b>*** *</b>	<u>Utilization %</u>		
Ownership Cost/Hour		\$90.24	NA		
Operating Cost/Hour		<u>\$78.95</u> \$9.25	100 NA		
Ripper own. Cost/Hour Ripper op. Cost/Hour		\$9.25 \$5.20	NA 100		
Operator Cost/Hour		\$40.04	NA		
operator cost/fiou		φ+0.0+	INA		
MATERIAL QUAN					
	500				
	215 823 LCY	_			
Source of estimated vo		alculation			
Source of estimated sw	vell factor: Cat Hand	book			
HOURLY PRODU	CTION				
Average puch distance	: 50 feet				
Average push distance Unadjusted hourly pro-		Y/hr			
Unaujusieu nourry pro	1,022.9 LU	1/111			
Materials consistency of	description: <u>Compa</u>	cted fill or e	mbankment 0.9		
Average push gradient					
Average site altitude:	5,800 feet				
Material weight:	3,300 lbs/LCY				
Weight description:	Decomposed rock	- 75% Rock			
Job Condition Correcti		750	Source		
Operate Material cons		750 900	(AVG.)		
Dozing i		<u>900</u> 200	(CAT HB)) (SLOT)		
		000	(AVG.)		
VI		000	(A V O.)		

Task # 001

Job efficient	cy: 0.830	(1 SHIFT/DAY)
Spoil pi	le: 1.000	(DOZ-OC)
Push gradie	nt: 1.225	(CAT HB)
Altitud	le: 1.000	(CAT HB)
Material Weig	ht: 0.697	(CAT HB)
Blade typ	be: 1.000	(PAT)
Net correction		
Adjusted unit production:	ed unit production: 587.14 LCY/hr	
Adjusted fleet production:	587.14 LCY/hr	

# JOB TIME AND COST

Fleet size:	1 Dozer(s)
Unit cost:	\$0.381/LCY

Total job time:	<b>3.10</b> Hours
Total job cost:	\$694

# BULLDOZER WORK

Task description:	Backfill Slab Sto	ne i ne mi cub			
Bedrock Mine #1	Peri	nit Action:	2024 UPDATE	Permit/Job#:	M1997086
PROJECT IDENTI	<b>FICATION</b>				
Task #: 002	State:	Colorado		Abbreviation:	None
Date: $1/2/2025$	County:	Pueblo		Filename:	M086-002
User: JLC					
Agency or org	anization name: DR	MS			
HOURLY EQUIPM	ENT COST				
Basic Machine: C	at D7R DS XR Series	П			
	40				
	emi-Universal		_		
	-shank ripper				
	per day				
Data Source: (0	CRG)				
Cost Breakdown:		1			
		<b>*•</b> • <b>••••••••••••</b>	<u>Utilization %</u>		
Ownership Cost/Hour		\$90.24	NA		
Operating Cost/Hour		\$78.95 \$9.25	100 NA		
Ripper own. Cost/Hour Ripper op. Cost/Hour		\$9.23 \$2.60	<u> </u>		
Operator Cost/Hour		\$40.04			
Operator Cost/Hour	•	\$40.04	NA		
MANDDIAL OTIAN					
MATERIAL QUAN Initial Volume: 4,0	000				
Initial Volume: 4,0 Swell factor: 1.0	000				
Initial Volume: 4,0 Swell factor: 1.0 Loose volume: 4,0 Source of estimated vol	000 000 000 LCY ume:TR2 Volu		and DRMS Site Visit		
Initial Volume:4,0Swell factor:1.0Loose volume:4,0	000 000 000 LCY ume:TR2 Volu		and DRMS Site Visit		
Initial Volume: 4,0 Swell factor: 1.0 Loose volume: 4,0 Source of estimated vol Source of estimated swe HOURLY PRODUC	000 000 000 LCY ume: <u>TR2 Volu</u> ell factor: <u>Cat Hand</u>		and DRMS Site Visit		
Initial Volume: 4,0 Swell factor: 1.0 Loose volume: 4,0 Source of estimated vol Source of estimated swe HOURLY PRODUC Average push distance:	000 000 000 LCY ume: TR2 Volu ell factor: Cat Hand CTION _50 feet	book	and DRMS Site Visit		
Initial Volume: 4,0 Swell factor: 1.0 Loose volume: 4,0 Source of estimated vol Source of estimated swe HOURLY PRODUC	000 000 000 LCY ume: <u>TR2 Volu</u> ell factor: <u>Cat Hand</u> <u>CTION</u> 50 feet	book	and DRMS Site Visit		
Initial Volume: 4,0 Swell factor: 1.0 Loose volume: 4,0 Source of estimated vol Source of estimated swe HOURLY PRODUC Average push distance:	000 000 LCY ume: TR2 Volu ell factor: Cat Hand CTION uction: 50 feet 1,022.9 LC	book			
Initial Volume: 4,0 Swell factor: 1.0 Loose volume: 4,0 Source of estimated vol Source of estimated swo HOURLY PRODUC Average push distance: Unadjusted hourly prod Materials consistency d Average push gradient:	000 000 LCY ume: <u>TR2 Volu</u> ell factor: <u>Cat Hand</u> <u>50 feet</u> uction: <u>1,022.9 LC</u> escription: <u>Consol</u>	book Y/hr			
Initial Volume: 4,0 Swell factor: 1.0 Loose volume: 4,0 Source of estimated vol Source of estimated swo HOURLY PRODUC Average push distance: Unadjusted hourly prod Materials consistency d	000 000 LCY ume: <u>TR2 Volu</u> ell factor: <u>Cat Hand</u> <u>CTION</u> uction: <u>50 feet</u> 1,022.9 LC escription: <u>Consol</u>	book Y/hr			
Initial Volume: 4,0 Swell factor: 1.0 Loose volume: 4,0 Source of estimated vol Source of estimated swo HOURLY PRODUC Average push distance: Unadjusted hourly prod Materials consistency d Average push gradient:	000 000 LCY ume: <u>TR2 Volu</u> ell factor: <u>Cat Hand</u> <u>50 feet</u> uction: <u>1,022.9 LC</u> escription: <u>Consol</u>	book Y/hr			
Initial Volume: 4,0 Swell factor: 1.0 Loose volume: 4,0 Source of estimated vol Source of estimated vol Source of estimated swe HOURLY PRODUC Average push distance: Unadjusted hourly prod Materials consistency d Average push gradient: Average site altitude:	000 000 LCY ume: TR2 Volu ell factor: Cat Hand CTION uction: 50 feet 1,022.9 LC escription: Consol: -5 % 5,800 feet	book Y/hr idated stockp	 ile 1.0		
Initial Volume: 4,0 Swell factor: 1.0 Loose volume: 4,0 Source of estimated vol Source of estimated vol Source of estimated swo HOURLY PRODUC Average push distance: Unadjusted hourly prod Materials consistency d Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction	000 000 LCY ume: TR2 Volu ell factor: Cat Hand CTION uction: 1,022.9 LC escription: Consol: <u>-5 %</u> <u>5,800 feet</u> 2,900 lbs/LCY Decomposed rock on Factor	book Y/hr idated stockp - 50% Rock,			
Initial Volume: 4,0 Swell factor: 1.0 Loose volume: 4,0 Source of estimated vol Source of estimated swo HOURLY PRODUC Average push distance: Unadjusted hourly prod Materials consistency d Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operato	$\begin{array}{c c} \hline 000 \\ \hline LCY \\ \hline \\ \hline 000 \\ \hline LCY \\ \hline \\ \hline \\ \hline 000 \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline$	book Y/hr idated stockp - 50% Rock, 750			
Initial Volume: 4,0 Swell factor: 1.0 Loose volume: 4,0 Source of estimated vol Source of estimated swo HOURLY PRODUC Average push distance: Unadjusted hourly prod Materials consistency d Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operato Material consi	000           000 LCY           ume:         TR2 Volu           ell factor:         Cat Hand           CTION         50 feet           uction:         1,022.9 LC           escription:         Consolition:           -5 %         5,800 feet           2,900 lbs/LCY         Decomposed rock           on Factor         r           r Skill:         0.           stency:         1.	book Y/hr idated stockp - 50% Rock, 750 000	50% Earth <u>Source</u> (AVG.) (CAT HB)		
Initial Volume: 4,0 Swell factor: 1.0 Loose volume: 4,0 Source of estimated vol Source of estimated swo HOURLY PRODUC Average push distance: Unadjusted hourly prod Materials consistency d Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operato Material consi. Dozing m	$\begin{array}{c c} \hline 000 \\ \hline LCY \\ \hline \\ ume: \underline{TR2 Volu} \\ \hline \\ Cat Hand \\ \hline$	book Y/hr idated stockp - 50% Rock, 750			

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.900	(SSD-FC)
Push gradient:	1.115	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.5449	
Adjusted unit production: 5:	57.38 LCY/hr	
Adjusted fleet production: 5	57.38 LCY/hr	

# JOB TIME AND COST

Fleet size:	1 Dozer(s)
Unit cost:	\$0.397/LCY

Total job time:	<b>7.18</b> Hours
Total job cost:	\$1,587

## WHEEL LOADER - LOAD AND CARRY WORK

Task description:	Spread TS 1' or	n 29 acres				
te: Bedrock Mine #1	Pe	rmit Action	: <u>2024 UPD</u>	ATE	Permit/Job#:	M1997086
PROJECT IDENTI	<b>FICATION</b>					
Task #: 003	State:	Colorad	0		Abbreviation:	None
Date: $1/2/2025$	County:	-	0		Filename:	003
User: JLC	·					
Agency or org	ganization name: <u>D</u>	RMS				
HOURLY EQUIPM	IENT COST					
Basic Machine:	CAT 980H			Horsepo	wer:	315
Attachment 1:	ROPS Cab			Shift Ba		ber day
						CRG)
Cast Drashdarma					,	· · · · · ·
Cost Breakdown:			Utilization	0/2		
Ownership Cos	t/Hour: \$69	.00	NA	70		
Operating Cos			100			
Operator Cos			NA			
Total Unit Cos	t/Hour: \$186	5.41				
Total Fleet Co	st/Hour: \$18	6.41	_			
MATERIAL QUAN Initial volume:	46,787	CCY	Swell	factor: 1.0	00	
Loose volume:	46,787	LCY	Bwei	1.0		
	ř.					
	e of estimated volume estimated swell factor	-	Estimate ndbook			
Source of	estimated swell factor		IIddook			
HOURLY PRODU	TION					
Loader Cycle Time:	Unadjusted Basic	c Cycle Tim	ne (load, dump,	maneuver):	0.550	minutes
Cycle Time Fac	ctors				Factor (min.)	Source
Mate		to 6" diame	ter 0.00		0.000	(Cat HB)
Stock			10 ft. high or le	ss 0.01	0.010	(Cat HB)
Truck Owners	hip: No adjustmen	t - factor no	t applicable 0.0	00	0.000	(Cat HB)
Operat	<i>v</i>		ot applicable 0.	00	0.000	(Cat HB)
Dump Tai	rget: Nominal targe				0.000	(Cat HB)
			Cycle Time Adj		0.010	minutes
		Adju	sted Basic Cyc	le Time:	0.560	minutes
Rolling Resistance – Ro	oad Conditions					
Hau						
Retur	n: Firm, smooth, ro	olling, dirt/lt	t. surfaced, wat	ered, maintain	ed 3.0	
Haul and Return Time						
main and Return Thile		1	!			I
	Length Grad	e Res.	Rolling	Total Res.	Travel Time	Source

		-	otal Travel T Total Cycle T		minutes minutes
Load Bucket Capacity					
Rated Capacity Bucket Fill Facto Adjusted Capacity	r: 1.100	LCY (heaped) Other - rock/d LCY		(100-120%) 1.100	
Job Condition Correction Site Altitude: <u>5800</u> feet		-			
		Source			
Altitude Adj:	1.00	(CAT HB)			
Job Efficiency:	0.83	(1 shift/day)			
Net Correction:	0.83	multiplier			
Una	adjusted Hourly Unit H	Production:	426.37	LCY/Hour	
A	djusted Hourly Unit I	Production:	353.89	LCY/Hour	
А	djusted Hourly Fleet I	Production:	353.89	LCY/Hour	
JOB TIME AND CO	<u>ST</u>				

Fleet size:	1	Loader(s)	Total job time:	132.21	Hours
Unit cost:	\$0.527	/LCY	Total job cost:	\$24,645	_

# MOTOR GRADER WORK

Task description:	<b>Rip 36 acres of TSSA and</b>	d Stone Yard		
Bedrock Mine #1	Permit Actio	on: 2024 UPDATE	E Perm	it/Job#: <u>M1997086</u>
PROJECT IDENTI	<b>FICATION</b>			
Task #: 004A	State: Colora	do	Abbrevi	ation: None
Date: 1/2/2025	County: Pueblo	)	File	name: M086-004a
User: JLC	5			
Agency or org	ganization name:			
HOURLY EQUIPM	IENT COST			
Basic Machi	ne: CAT 120M		Horsepower:	138
Ripper Attachme			Shift Basis:	1 per day
11			Data Source:	(CRG)
Cost Breakdown:		1		
		<b>* * *</b> * * *	Utilization %	
	nership Cost/Hour:	\$52.82	NA	
	erating Cost/Hour:	\$43.76	100 NA	
	nership Cost/Hour:	\$3.06	<u>NA</u>	
	erating Cost/Hour: perator Cost/Hour:	\$2.73 \$56.70	100 NA	
	al Unit Cost/Hour:	\$159.07	INA	
10		\$139.07		
Tot	al Fleet Cost/Hour:	\$159.07		
Sou	rce of estimated acreage: <u>An</u>	nual Report and site	inspection	
HOURLY PRODU				
	Average Grader Speed:	1.50	mph	
	Selected Application:		ping (0-3 mph) - 1.5	0
	Selected Blade Angle:	-1	degrees	
Wi At	Effective Blade Length:	0.00 2.00	feet feet	
	g or ripping width per pass:	7.58	feet	
	ed Hourly Unit Production:	1.3782	acres/hour	
Job Condition Correction			e Altitude: <u>5800</u> fee	t
	Sou	irce		
Altitude Adj:	1.00 (CAT			
Job Efficiency:	0.90 (1sh/d			
Net Correction:	0.9000 multip	olier		
	Adjusted Hourly Unit Producti	on: 1.2404	acres/Hour	
	Adjusted Hourly Fleet Producti		acres/Hour	
JOB TIME AND CO	<u>DST</u>			
Fleet size:	1 Grader(s)	Total job time	29.02	Hours
Unit cost: \$1	28.24 per acre	Total job cost	\$4,617	

# MOTOR GRADER WORK

PROJECT IDENTIFICATION         Task #       .005       State: Colorado       Abbreviation: None         Date:       1/2/2025       County: Pueblo       Filename: Mone         Date:       1/2/2025       County: Pueblo       Filename: Mone         Agency or organization name:       DRMS         HOURLY EOUIPMENT COST       Basic Machine:       CAT 140M       Horsepower:       183         Ripper Attachmen:       Multi-Shank Ripper       Data Source:       (CCG)         Ownership Cost/Hour:       \$77.29       NA       Dopataling Cost/Hour:       \$65.87       100         Ripper Operating Cost/Hour:       \$57.29       NA       Dopataling Cost/Hour:       \$57.29       NA         Total Unit Cost/Hour:       \$194.51       Total Unit Cost/Hour:       \$194.51       Total Unit Cost/Hour:       \$194.51         Total Teet Cost/Hour:       \$194.51       Goree of estimated acreage:       Annual Report and Site Inspection       acres         Bource of estimated acreage:       Annual Report and Site Inspection       Goree of estimated acreage:       1.00       feet         Liftcrive Blade Length:       10.40       feet       feet       Solected Application:       1.527.3       acres/hour         Selected Aperes of acree speed:       1.527.3       <	Task description:	Spread and Shape TS	29.4 acres		
Date:       1/2/2025       County:       Pueblo       Filename:       M086-0         User:       JLC	Bedrock Mine #1	Permit A	ction: 2024 UPDA	<u>FE</u> Per	mit/Job#: <u>M1997086</u>
Date:       1/2/2025       County:       Pueblo       Filename:       M086-0         User:       JLC	PROJECT IDENTI	<b>FICATION</b>			
User:       JLC         Agency or organization name:       DRMS         HOURLY EQUIPMENT COST       Basic Machine:       CAT 140M         Ripper Attachment:       Multi-Shank Ripper       Shift Basis:       1 per day         Data Source:       (CRG)         Cost Breakdown:       Vultization %         Operating Cost/Hour:       \$77.29       NA         Operating Cost/Hour:       \$55.637       100         Ripper Operating Cost/Hour:       \$30.66       NA         Ripper Operating Cost/Hour:       \$57.29       NA         Operating Cost/Hour:       \$57.29       NA         Total Unit Cost/Hour:       \$194.51       Total Unit Cost/Hour:       \$194.51         Total Pleet Cost/Hour:       \$194.51       acres       Source of estimated acreage:       Annual Report and Site Inspection         MOURLY PRODUCTION	Task #: 005	State: Col	orado	Abbre	viation: None
Agency or organization name:       DRMS         HOURLY EQUIPMENT COST       Basic Machine:       CAT 140M       Horsepower:       183         Ripper Attachment:       Multi-Shank Ripper       Shift Basis:       1 per day.         Oct Breakdown:       Statist Basis:       1 per day.         Operating Cost/Hour:       \$56.87       100         Operating Cost/Hour:       \$56.87       100         Operating Cost/Hour:       \$50.00       0         Operating Cost/Hour:       \$51.04       0         Ripper Operating Cost/Hour:       \$194.51       0         Total Unit Cost/Hour:       \$194.51       1         Total Area to be graded or ripped:       29.40       acres         Source of estimated acreage:       Annual Report and Site Inspection       acres         Source of estimated acreage:       1.50       mph) - 1.5       selected Blade Angle:       30       degreese         Effective Blade Length:       10.40       feet       10.40       feet       10.40       feet       1.5273       acres/hour         De Condition Correction Factor       Site Altitude: \$800 feet       1.5273       acres/hour       1.5273       acres/hour         Job Efficiency:       0.850       (1sh/d, mod.)       1.2982 <th>Date: 1/2/2025</th> <th>County: Pue</th> <th>eblo</th> <th>Fi</th> <th>lename: M086-005</th>	Date: 1/2/2025	County: Pue	eblo	Fi	lename: M086-005
HOURLY EOUIPMENT COST         Basic Machine:       CAT 140M       Horsepower:       183         Ripper Attachment:       Multi-Shank Ripper       Shift Basis:       1 per day         Ownership Cost/Hour:       \$\$17.29       NA       Operating Cost/Hour:       \$\$(CRG)         Ownership Cost/Hour:       \$\$56.87       100       Source:       (CRG)         Na       Operating Cost/Hour:       \$\$3.06       NA       Operating Cost/Hour:       \$\$194.51         Total Unit Cost/Hour:       \$\$194.51       Total Teet Cost/Hour:       \$\$194.51       acres         Source of estimated acreage:       Annual Report and Site Inspection       acres         Busice Machine:       Selected Application:       Finish grading (0-2.5 mph) - 1.5       \$\$200 feet         Selected Application:       Selected Application:       Selected Application:       \$\$10.40       feet         Selected Blade Angle:       0.00       feet       \$\$100       feet       \$\$100       feet         Width of blade overlap per pass:       2.00       feet       \$\$200       feet       \$\$200       feet         Selected Blade Angle:       0.850       IIII for (CAT HB)       feet       \$\$200       feet       \$\$200       feet         Width of bl	User: JLC	·			
HOURLY EQUIPMENT COST         Basic Machine:       CAT 140M       Horsepower:       183         Ripper Attachment:       Multi-Shank Ripper       Shift Basis:       1 per day         Out Source:       (CRG)         Ownership Cost/Hour:       \$55.87       100         Na       Operating Cost/Hour:       \$55.87       100         Ripper Operating Cost/Hour:       \$53.06       NA         Operator Cost/Hour:       \$57.29       NA         Operator Cost/Hour:       \$194.51       Total Unit Cost/Hour:       \$194.51         Total Fleet Cost/Hour:       \$194.51       acres         Source of estimated acreage:       Annual Report and Site Inspection       acres         Busice Grader Speed:       1.50       mph       ns         Selected Application:       Finish grading (0-2.5 mph) - 1.5       Selected Application:       Selected Application:         Selected Application:       10.40       feet       10.40       feet         Width of blade overlap per pass:       2.00       feet       1.273       acres/hour         Selected Application:       1.5273       acres/hour       Site Altitude: S800 feet       Stie Altitude: S800 feet         Width of blade overlap per pass:       2.00       feet	A concer on on	DDMS			
Basic Machine:       CAT 140M       Horsepower:       183         Ripper Attachment:       Multi-Shank Ripper       Shift Basis:       1 per day         Cost Breakdown:       Utilization %       (CRG)         Ownership Cost/Hour:       \$77.29       NA         Operating Cost/Hour:       \$3.06       NA         Ripper Ownership Cost/Hour:       \$3.00       0         Operating Cost/Hour:       \$194.51         Total Unit Cost/Hour:       \$194.51         Total Fleet Cost/Hour:       \$194.51         Total Fleet Cost/Hour:       \$194.51         Total Area to be graded or ripped:       29.40       acres         Source of estimated acreage:       Annual Report and Site Inspection       acres         HOURLY PRODUCTION       Selected Application:       Finish grading (0-2.5 mph) - 1.5       selected Application:         Selected Blade Angle:       30       degrees       degrees         Effective Blade Length:       10.040       feet       stitude: 5800 feet         Net grading or ripping width per pass:       2.00       feet       stitude: 5800 feet         Mutadjusted Hourly Unit Production:       1.5273       acres/hour       dijusted Hourly Fleet Production:       1.2982       acres/hour         Job Efficiency:<	Agency of org	gamzation name. DRMS			
Ripper Attachment:       Multi-Shank Ripper       Shift Basis:       1 per day Data Source:         Cost Breakdown:       Utilization %         Operating Cost/Hour:       \$77.29       NA         Operating Cost/Hour:       \$56.87       100         Ripper Ownership Cost/Hour:       \$53.66       NA         Ripper Ownership Cost/Hour:       \$53.66       NA         Ripper Ownership Cost/Hour:       \$57.29       NA         Operator Cost/Hour:       \$57.29       NA         Total Unit Cost/Hour:       \$194.51         Total Fleet Cost/Hour:       \$194.51         MATERIAL QUANTITIES       Total Area to be graded or ripped:       29.40         Source of estimated acreage:       Annual Report and Site Inspection         HOURLY PRODUCTION       Average Grader Speed:       1.50         Mation blade overlap per pass:       20.00       feet         Selected Blade Angle:       30       degrees         Effective Blade Length:       10.40       feet         Width of blade overlap per pass:       2.00       feet         Net grading or ripping width per pass:       8.40       feet         Job Efficiency:       0.85       (Ish/d, mod.)         Job Efficiency:       0.85       (Ish/d, mod.) </td <td>HOURLY EQUIPM</td> <td>IENT COST</td> <td></td> <td></td> <td></td>	HOURLY EQUIPM	IENT COST			
Cost Breakdown:       Data Source:       (CRG)         Ownership Cost/Hour:       \$77.29       NA         Operating Cost/Hour:       \$3.06       NA         Ripper Ownership Cost/Hour:       \$3.06       NA         Ripper Ownership Cost/Hour:       \$3.06       NA         Ripper Ownership Cost/Hour:       \$3.06       NA         Operator Cost/Hour:       \$3.06       NA         Total Unit Cost/Hour:       \$57.29       NA         Total Init Cost/Hour:       \$194.51       acres         MATERIAL OUANTITIES       Total Area to be graded or ripped:       29.40       acres         Source of estimated acreage:       Annual Report and Site Inspection       acres         HOURLY PRODUCTION       Selected Application:       Finish grading (0-2.5 mph) - 1.5         Selected Application:       Finish grading (0-2.5 mph) - 1.5         Selected Blade Angle:       30       degrees         Effective Blade Length:       10.40       feet         Width of blade overlap per pass:       2.00       feet         Unadjusted Hourly Unit Production:       1.5273       acres/hour         Job Efficiency:       0.85       (1sh/d, mod.)         Net Correction:       0.850       multiplier <td< td=""><td>Basic Machi</td><td>ne: CAT 140M</td><td></td><td>Horsepower:</td><td>183</td></td<>	Basic Machi	ne: CAT 140M		Horsepower:	183
Cost Breakdown:       Utilization %         Ownership Cost/Hour:       \$77.29       NA         Operating Cost/Hour:       \$3.06       NA         Ripper Ownership Cost/Hour:       \$3.00       0         Operating Cost/Hour:       \$3.06       NA         Ripper Operating Cost/Hour:       \$3.00       0         Operator Cost/Hour:       \$3.00       0         Operator Cost/Hour:       \$57.29       NA         Total Unit Cost/Hour:       \$194.51	Ripper Attachme	ent: Multi-Shank Ripper		Shift Basis:	1 per day
Image: Control of the state of the stat				Data Source:	(CRG)
Ownership Cost/Hour:       \$77.29       NA         Operating Cost/Hour:       \$33.06       NA         Ripper Ownership Cost/Hour:       \$33.06       NA         Ripper Ownership Cost/Hour:       \$30.00       0         Operator Cost/Hour:       \$57.29       NA         Total Unit Cost/Hour:       \$194.51       \$194.51         Total Cost/Hour:       \$194.51       \$194.51         MATERIAL QUANTITIES       Total Area to be graded or ripped:       29.40       acres         Source of estimated acreage:       Annual Report and Site Inspection       acres         HOURLY PRODUCTION       Selected Application:       Finish grading (0-2.5 mph) - 1.5         Selected Blade Angle:       30       degrees         Effective Blade Length:       10.40       feet         Width of blade overlap per pass:       2.40       feet         Net grading or ripping width per pass:       8.40       feet         Vidth of blade overlap per pass:       8.40       feet         Job Condition Correction Factors       Source       Site Altitude: 5800 feet         Job Efficiency:       0.85       (1sh/d, mod.)       ners/hour         Job Efficiency:       0.850       (1sh/d, mod.)       acres/Hour         Adjusted Ho	Cost Breakdown:				
Operating Cost/Hour:       \$\$56.87       100         Ripper Ownership Cost/Hour:       \$\$3.06       NA         Ripper Operating Cost/Hour:       \$\$0.00       0         Operator Cost/Hour:       \$\$194.51         Total Unit Cost/Hour:       \$\$194.51         Total Fleet Cost/Hour:       \$\$194.51         Total Area to be graded or ripped:       29.40         Source of estimated acreage:       Annual Report and Site Inspection         HOURLY PRODUCTION       Average Grader Speed:       1.50         Selected Application:       Finish grading (0-2.5 mph) - 1.5         Selected Blade Angle:       30       degrees         Effective Blade Length:       10.40       feet         Width of blade overlap per pass:       2.00       feet         Width of blade overlap per pass:       8.40       feet         Unadjusted Hourly Unit Production:       1.5273       acres/hour         Job Efficiency:       0.85       (1sh/d, mod.)         Net Correction:       0.8500       multiplier         Adjusted Hourly Unit Production:       1.2982       acres/Hour         Adjusted Hourly Unit Production:       1.2982       acres/Hour         Job Efficiency:       0.8500       multiplier       acres/Hour				Utilization %	
Ripper Ownership Cost/Hour:       \$3.06       NA         Ripper Operating Cost/Hour:       \$50.00       0         Operator Cost/Hour:       \$57.29       NA         Total Unit Cost/Hour:       \$194.51         Total Fleet Cost/Hour:       \$194.51         MATERIAL QUANTITIES         MATERIAL OUANTITIES         Total Area to be graded or ripped:       29.40         Source of estimated acreage:       Annual Report and Site Inspection         HOURLY PRODUCTION       Average Grader Speed:       1.50         Selected Application:       Finish grading (0-2.5 mph) - 1.5         Selected Blade Angle:       30       degrees         Effective Blade Length:       10.40       feet         Width of blade overlap per pass:       2.00       feet         Net grading or ripping width per pass:       8.40       feet         Unadjusted Hourly Unit Production:       1.5273       acres/hour         Job Efficiency:       0.85       (1sh/d, mod.)         Net Correction:       0.8500       multiplier         Adjusted Hourly Unit Production:       1.2982       acres/Hour         Adjusted Hourly Fleet Production:       1.2982       acres/Hour         JOB TIME AND COST       Image frager(s)       Total job ti			-		
Ripper Operating Cost/Hour:       \$0.00       0         Operator Cost/Hour:       \$57.29       NA         Total Unit Cost/Hour:       \$194.51         Total Fleet Cost/Hour:       \$194.51         Total Fleet Cost/Hour:       \$194.51         MATERIAL QUANTITIES         Total Area to be graded or ripped:       29.40         Source of estimated acreage:       Annual Report and Site Inspection         HOURLY PRODUCTION       Average Grader Speed:       1.50         Selected Application:       Finish grading (0-2.5 mph) - 1.5         Selected Blade Angle:       30       degrees         Effective Blade Length:       10.40       feet         Width of blade overlap per pass:       2.00       feet         Width of blade overlap per pass:       8.40       feet         Unadjusted Hourly Unit Production:       1.5273       acres/hour         Job Condition Correction Factors       Site Altitude: <u>5800</u> feet         Source       Altitude Adj:       1.00       (CAT HB)         Job Efficiency:       0.85       (1sh/d, mod.)       Net Correction:         Net Correction:       0.8500       multiplier       acres/Hour         Adjusted Hourly Unit Production:       1.2982       acres/Hour					
Operator Cost/Hour:       \$57.29       NA         Total Unit Cost/Hour:       \$194.51         Total Fleet Cost/Hour:       \$194.51         MATERIAL QUANTITIES			-		
Total Unit Cost/Hour:       \$194.51         Total Fleet Cost/Hour:       \$194.51         MATERIAL QUANTITIES       acres         Source of estimated acreage:       Annual Report and Site Inspection         HOURLY PRODUCTION       Average Grader Speed:       1.50         Matter and the overlap per pass:       30       degrees         Effective Blade Angle:       30       degrees         Bade overlap per pass:       2.000       feet         Unadjusted Hourly Unit Production:       1.5273       acres/hour         Job Condition Correction Factors       Site Altitude: 5800 feet       5800 feet         Adjusted Hourly Unit Production:       1.2982       acres/Hour         Adjusted Hourly Unit Production:       1.2982       acres/Hour         Job Efficiency:       0.8500       multiplier         Adjusted Hourly Unit Production:       1.2982       acres/Hour         JOB TIME AND COST       Total job time:       22.65       Hours					
Total Fleet Cost/Hour:       \$194.51         MATERIAL QUANTITIES       Total Area to be graded or ripped:       29.40       acres         Source of estimated acreage:       Annual Report and Site Inspection       acres         HOURLY PRODUCTION       Average Grader Speed:       1.50       mph         Selected Application:       Finish grading (0-2.5 mph) - 1.5       Selected Blade Angle:       30       degrees         Effective Blade Length:       10.40       feet       Kith of blade overlap per pass:       2.00       feet         Net grading or ripping width per pass:       8.40       feet       Steet date       feet         Unadjusted Hourly Unit Production:       1.5273       acres/hour       acres/hour         Job Enfficiency:       0.850       (1sh/d, mod.)       Ket Grader Speet       Steet CAT HB)         Job Efficiency:       0.850       multiplier       acres/Hour         Adjusted Hourly Unit Production:       1.2982       acres/Hour         Adjusted Hourly Fleet Production:       1.2982       acres/Hour         Job Efficiency:       1       Grader(s)       Total job time:       22.65       Hours				NA	
MATERIAL QUANTITIES         Total Area to be graded or ripped:       29.40         Source of estimated acreage:       Annual Report and Site Inspection         HOURLY PRODUCTION       Average Grader Speed:       1.50       mph         Selected Application:       Finish grading (0-2.5 mph) - 1.5       Selected Blade Angle:       30       degrees         Effective Blade Length:       10.40       feet       Selected Blade verlap per pass:       2.00       feet         Width of blade overlap per pass:       2.00       feet       feet       Selected Hourly Unit Production:       1.5273       acres/hour         Job Condition Correction Factors       Source       Source       Source       Source         Altitude Adj:       1.00       (CAT HB)       job Efficiency:       0.85       (1sh/d, mod.)         Net Correction:       0.8500       multiplier       acres/Hour         Adjusted Hourly Unit Production:       1.2982       acres/Hour         Job Efficiency:       0.8500       multiplier         Adjusted Hourly Fleet Production:       1.2982       acres/Hour         Job Efficiency:       1       Grader(s)       Total job time:       22.65       Hours	10	tal Unit Cost/Hour:	\$194.51	-	
MATERIAL QUANTITIES         Total Area to be graded or ripped:       29.40         Source of estimated acreage:       Annual Report and Site Inspection         HOURLY PRODUCTION       Average Grader Speed:       1.50       mph         Selected Application:       Finish grading (0-2.5 mph) - 1.5       Selected Blade Angle:       30       degrees         Effective Blade Length:       10.40       feet       Selected Blade verlap per pass:       2.00       feet         Width of blade overlap per pass:       2.00       feet       feet       Selected Hourly Unit Production:       1.5273       acres/hour         Job Condition Correction Factors       Source       Source       Source       Source         Altitude Adj:       1.00       (CAT HB)       job Efficiency:       0.850       (1sh/d.mod.))         Net Correction:       0.8500       multiplier       acres/Hour         Adjusted Hourly Unit Production:       1.2982       acres/Hour         JOB TIMEE AND COST       Total job time:       22.65       Hours	Tot	al Fleet Cost/Hour:	\$194.51		
Average Grader Speed:       1.50       mph         Selected Application:       Finish grading (0-2.5 mph) - 1.5         Selected Blade Angle:       30       degrees         Effective Blade Length:       10.40       feet         Width of blade overlap per pass:       2.00       feet         Net grading or ripping width per pass:       8.40       feet         Unadjusted Hourly Unit Production:       1.5273       acres/hour         Job Condition Correction Factors       Site Altitude: 5800 feet         Altitude Adj:       1.00       (CAT HB)         Job Efficiency:       0.85       (1sh/d, mod.)         Net Correction:       0.8500       multiplier         Adjusted Hourly Unit Production:       1.2982       acres/Hour         JOB TIME AND COST       Total job time:       22.65       Hours	Sou	rce of estimated acreage:	Annual Report and S	ite inspection	
Selected Application:       Finish grading (0-2.5 mph) - 1.5         Selected Blade Angle:       30       degrees         Effective Blade Length:       10.40       feet         Width of blade overlap per pass:       2.00       feet         Net grading or ripping width per pass:       8.40       feet         Unadjusted Hourly Unit Production:       1.5273       acres/hour         Job Condition Correction Factors       Source       Site Altitude: 5800 feet         Altitude Adj:       1.00       (CAT HB)         Job Efficiency:       0.85       (1sh/d, mod.)         Net Correction:       0.8500       multiplier         Adjusted Hourly Unit Production:       1.2982       acres/Hour         JOB TIME AND COST       Fleet size:       1       Grader(s)       Total job time:       22.65       Hours	HOURLY PRODU	<u>CTION</u>			
Selected Blade Angle:       30       degrees         Effective Blade Length:       10.40       feet         Width of blade overlap per pass:       2.00       feet         Net grading or ripping width per pass:       8.40       feet         Unadjusted Hourly Unit Production:       1.5273       acres/hour         Job Condition Correction Factors       Site Altitude: 5800 feet         Altitude Adj:       1.00       (CAT HB)         Job Efficiency:       0.85       (1sh/d, mod.)         Net Correction:       0.8500       multiplier         Adjusted Hourly Unit Production:       1.2982       acres/Hour         JOB TIME AND COST       Total job time:       22.65       Hours			-		
Effective Blade Length:       10.40       feet         Width of blade overlap per pass:       2.00       feet         Net grading or ripping width per pass:       8.40       feet         Unadjusted Hourly Unit Production:       1.5273       acres/hour         Job Condition Correction Factors       Site Altitude: 5800 feet         Altitude Adj:       1.00       (CAT HB)         Job Efficiency:       0.85       (1sh/d, mod.)         Net Correction:       0.8500       multiplier         Adjusted Hourly Unit Production:       1.2982       acres/Hour         JOB TIME AND COST       Total job time:       22.65					n) - 1.5
Width of blade overlap per pass:       2.00       feet         Net grading or ripping width per pass:       8.40       feet         Unadjusted Hourly Unit Production:       1.5273       acres/hour         Job Condition Correction Factors       Site Altitude: 5800 feet         Source       Altitude Adj:       1.00       (CAT HB)         Job Efficiency:       0.85       (1sh/d, mod.)         Net Correction:       0.8500       multiplier         Adjusted Hourly Unit Production:       1.2982       acres/Hour         JOB TIME AND COST       Total job time:       22.65       Hours				-	
Net grading or ripping width per pass:       8.40       feet         Unadjusted Hourly Unit Production:       1.5273       acres/hour         Job Condition Correction Factors       Site Altitude: 5800 feet         Altitude Adj:       1.00       (CAT HB)         Job Efficiency:       0.85       (1sh/d, mod.)         Net Correction:       0.8500       multiplier         Adjusted Hourly Unit Production:       1.2982       acres/Hour         Adjusted Hourly Fleet Production:       1.2982       acres/Hour         JOB TIME AND COST       Grader(s)       Total job time:       22.65       Hours	W7:44				
Unadjusted Hourly Unit Production:       1.5273       acres/hour         Job Condition Correction Factors       Site Altitude: 5800 feet         Altitude Adj:       1.00       (CAT HB)         Job Efficiency:       0.85       (1sh/d, mod.)         Net Correction:       0.8500       multiplier         Adjusted Hourly Unit Production:       1.2982       acres/Hour         JOB TIME AND COST       Fleet size:       1       Grader(s)       Total job time:       22.65       Hours					
Job Condition Correction Factors       Site Altitude: 5800 feet         Source         Altitude Adj:       1.00       (CAT HB)         Job Efficiency:       0.85       (1sh/d, mod.)         Net Correction:       0.8500       multiplier         Adjusted Hourly Unit Production:       1.2982       acres/Hour         Adjusted Hourly Fleet Production:       1.2982       acres/Hour         JOB TIME AND COST         Fleet size:       1       Grader(s)       Total job time:       22.65       Hours					r
Source         Altitude Adj:       1.00       (CAT HB)         Job Efficiency:       0.85       (1sh/d, mod.)         Net Correction:       0.8500       multiplier         Adjusted Hourly Unit Production:       1.2982       acres/Hour         Adjusted Hourly Fleet Production:       1.2982       acres/Hour         JOB TIME AND COST       Fleet size:       1       Grader(s)       Total job time:       22.65       Hours		-			
Altitude Adj:       1.00       (CAT HB)         Job Efficiency:       0.85       (1sh/d, mod.)         Net Correction:       0.8500       multiplier         Adjusted Hourly Unit Production:       1.2982       acres/Hour         Adjusted Hourly Fleet Production:       1.2982       acres/Hour         JOB TIME AND COST       Fleet size:       1       Grader(s)       Total job time:       22.65       Hours					
Job Efficiency:       0.85       (1sh/d, mod.)         Net Correction:       0.8500       multiplier         Adjusted Hourly Unit Production:       1.2982       acres/Hour         Adjusted Hourly Fleet Production:       1.2982       acres/Hour         JOB TIME AND COST       Fleet size:       1       Grader(s)       Total job time:       22.65       Hours	Altitude Adj:				
Adjusted Hourly Unit Production:       1.2982       acres/Hour         Adjusted Hourly Fleet Production:       1.2982       acres/Hour         JOB TIME AND COST       Fleet size:       1       Grader(s)       Total job time:       22.65       Hours	Job Efficiency:				
Adjusted Hourly Fleet Production:       1.2982       acres/Hour         JOB TIME AND COST	Net Correction:	0.8500 mu	ıltiplier		
Adjusted Hourly Fleet Production:       1.2982       acres/Hour         JOB TIME AND COST		Adjusted Hourly Unit Produ	iction: 1 2982	acres/Hour	
JOB TIME AND COST       Fleet size:     1       Grader(s)     Total job time:       22.65     Hours					
Fleet size:   1   Grader(s)   Total job time:   22.65   Hours			1.2/02		
	JOB TIME AND C	<u>OST</u>			
	Fleet size:	1 Grader(s)	Total job tim	ne: 22.65	Hours
Unit cost: \$149.83 per acre Total job cost: \$4,405	Unit cost: \$1	49.83 per acre	Total job co	st: <b>\$4,405</b>	

# **REVEGETATION WORK**

Task descrip	otion:	Revegetation of	29.4 acres re	elated to mining areas	5	
ite: Bedrock	Mine #1	Pe	rmit Action:	2024 UPDATE	Permit/Jo	b#: <u>M1997086</u>
PROJECT			Calanada		Abbassisticas	Nana
Task #: Date:	006 1/2/2025	State: County:	Colorado Pueblo		Abbreviation: Filename:	None M086-006
User:	JLC					

# **FERTILIZING**

#### Materials

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

# Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

# **TILLING**

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
Weed control spraying (MEANS 31 31 16.13 3100)	\$338.80
Total Tilling Cost/Acre	\$456.41

# **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Orchardgrass - Paiute	1.00	12.40	\$4.59
Rye, Perennial Tetraploid - Tetra-Plus	1.00	5.67	\$2.28
Crested Wheatgrass - Hy-Crest	1.00	4.59	\$5.05
Russian Wildrye - Bozoisky	2.00	8.03	\$22.15
Smooth Brome - Lincoln	2.00	6.66	\$9.71
Intermediate Wheatgrass - Oahe	2.00	4.27	\$9.29
Slender Wheatgrass - Native	1.00	3.65	\$7.06
		45.27	\$60.13

Totals Seed Mix	10.00
I otulo becu tritta	10.00

#### Application

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$236.64
	Total Seed Application Cost/Acre	\$236.64

# **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Hay, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$492.78	\$985.56
Total Mulch Materials Cost/Acre				\$985.56

## Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$85.37
	<b>Total Mulch Application Cost/Acre</b>	\$85.37

## **NURSERY STOCK PLANTING**

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

## JOB TIME AND COST

Estimate *Selected Replanti	No. of Acres: ed Failure Rate: ng Work Items:	10%	Cost /Acre: Cost /Acre*:	
Initial Job Cost: Reseeding Job Cost: Total Job Cost: Job Hours:	\$872.50 \$54,501		-	

# **REVEGETATION WORK**

Ta	sk descrip	tion:	Revegetation of	36.2 acres T	SSA, Stone Yard an	nd misc	
Site: _]	Bedrock I	Mine #1	Per	mit Action:	2024 UPDATE	Permit/Job	o#: <u>M1997086</u>
PR	OJECT 1	<b>IDENTIFIC</b>	ATION				
	Task #:	006A	State:	Colorado		Abbreviation:	None
	Date:	1/2/2025	County:	Pueblo		Filename:	M086-006a
	User:	JLC					
	Age	ncy or organiz	zation name: DR	MS			

# **FERTILIZING**

#### Materials

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

# Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

# **TILLING**

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
Weed control spraying (MEANS 31 31 16.13 3100)	\$338.80
Total Tilling Cost/Acre	\$456.41

# **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Orchardgrass - Paiute	1.00	12.40	\$4.59
Rye, Perennial Tetraploid - Tetra-Plus	1.00	5.67	\$2.28
Crested Wheatgrass - Hy-Crest	1.00	4.59	\$5.05
Russian Wildrye - Bozoisky	2.00	8.03	\$22.15
Smooth Brome - Lincoln	2.00	6.66	\$9.71
Intermediate Wheatgrass - Oahe	2.00	4.27	\$9.29
Slender Wheatgrass - Native	1.00	3.65	\$7.06
		45.27	\$60.13

Totals Seed Mix	10.00
	10.00

### Application

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$236.64
	Total Seed Application Cost/Acre	\$236.64

# **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

Application

Description	Cost /Acre
	\$
Total Mulch Application Cost/Acre	\$0.00

## **NURSERY STOCK PLANTING**

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

## JOB TIME AND COST

Estimate *Selected Replantin	No. of Acres: d Failure Rate: g Work Items:	10%	Cost /Acre: Cost /Acre*:	
Initial Job Cost: Reseeding Job Cost: Total Job Cost: Job Hours:	\$1,074.31 \$28,339			

# **REVEGETATION WORK**

Task descrip	otion:	Weed Control 5.7 acres			
Site: Bedrock	Mine #1	Permit Action:	2024 UPDATE	Permit/Job	o#: <u>M1997086</u>
	<u>IDENTIFIC</u>				
Task #:	006B	State: Colorado		Abbreviation:	None
Date:	1/2/2025	County: Pueblo		Filename:	M086-006b
User:	JLC				
User:	JLC	County: <u>Pueblo</u>  zation name: DRMS		Filename:	M086-00

# **FERTILIZING**

#### Materials

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

# Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

# **TILLING**

Description	Cost /Acre
Weed control spraying (MEANS 31 31 16.13 3100)	\$338.80
Total Tilling Cost/Acre	\$338.80

# **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
			\$
Totals Seed Mix	0.00	0.00	\$0.00

# Application

Description	Cost /Acre
	\$

### **Total Seed Application Cost/Acre**

\$0.00

### **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

#### Application

Description	Cost /Acre
	\$
Total Mulch Application Cost/Ac	re \$0.00

## **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:	5.7	Cost /Acre:	\$338.80
Estimated Failure Rate:	0%	Cost /Acre*:	\$338.80
*Selected Replanting Work Items:	TILLING		
Initial Job Cost: <b>\$1,931.16</b>			
Reseeding Job Cost: <b>\$0.00</b>			

Total Job Cost: \$1,931 Job Hours: 0.00

# EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description	: <u>Mo</u>	b/Demob					
: Bedrock Min	e #1	Permit	Action: 2024	UPDATE		Permit/Job#: <u>M</u>	1997086
PROJECT IDE	NTIFICATI	<u>ON</u>					
Task #: 00	7	State: Co	olorado		Abbro	eviation: None	
Date: 1/2 User: JL	2/2025 C	County: <u>Pu</u>	eblo		F	lename: M086	-007
Agency	or organization	n name: DRMS					
EQUIPMENT '	TRANSPOR	<u>T RIG COST</u>					
					Shift ba	sis: 1 per da	у
					Cost Data Sou		
Truc	k Tractor Desc	ription: GENE	RIC ON-HIGH	WAY TR	UCK TRACTO	DR, 6X4, DIESEL	POWERED.
1140	R Huetor Debe				(2ND HALF,		row Erceb,
True	ck Trailer Desc	ription: G	ENERIC FOLD		· · · · · · · · · · · · · · · · · · ·	ROP DECK EQU	IPMENT
110		inputtini C			(25T, 50T, Al		
					- 1 1		
Cost Breakdown:							
Available Rig (		0-25 Tons	26-50 Tons		+ Tons		
Ownershi	p Cost/Hour:	\$10.44	\$22.18		23.94		
Operatin	g Cost/Hour:	\$26.48	\$54.55	\$	55.65		
Operato	or Cost/Hour:	\$22.52	\$22.52	\$	22.52		
Helpe	er Cost/Hour:	\$0.00	\$23.53	\$	23.53		
	it Cost/Hour:	\$59.44	\$122.78		25.64		
NON ROADAE	BLE EQUIPN	<u>/IENT:</u>					
NON ROADAE Machine			Haul Rig	Fleet	Haul Trip	Return Trip	DOT Permit
Machine	BLE EQUIPN Weight/ Unit	MENT: Owner ship Cost/hr/ unit	Haul Rig Cost/hr/uni	Fleet Size	Haul Trip Cost/hr/	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
	Weight/ Unit	Owner ship			Cost/hr/	Return Trip Cost/hr/ fleet	
Machine Description Cat D7R DS XR	Weight/	Owner ship	Cost/hr/uni			Return Trip Cost/hr/ fleet \$122.78	
Machine Description Cat D7R DS XR Series II	Weight/ Unit (TONS) 35.93	Owner ship Cost/hr/ unit \$99.49	Cost/hr/uni t	Size	Cost/hr/ fleet \$222.27	Cost/hr/ fleet	Cost/ fleet \$250.00
Machine Description Cat D7R DS XR	Weight/ Unit (TONS)	Owner ship Cost/hr/ unit	Cost/hr/uni t \$122.78	Size	Cost/hr/ fleet	Cost/hr/ fleet \$122.78	Cost/ fleet
Machine Description Cat D7R DS XR Series II CAT 980H	Weight/ Unit (TONS) 35.93 33.12	Owner ship       Cost/hr/ unit       \$99.49       \$69.00	Cost/hr/uni t \$122.78 \$122.78	Size	Cost/hr/ fleet \$222.27 \$191.78	Cost/hr/ fleet \$122.78 \$122.78	Cost/ fleet \$250.00 \$250.00

 Subtotals:
 \$754.76
 \$423.88
 \$1,000.00

## **ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Light Duty Pickup, 4x4, 1 T. Crew	\$108.47	1	\$108.47	\$108.47
		Subtotals:	\$108.47	\$108.47

# **EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region: Total one-way travel distance: Average Travel Speed:	PUEBLO 20.00 55.00	miles mph
Total Non-Roadable Mob/Demob Cost *	\$4,668.62	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$78.89	

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.36	0.36
Return Time (Hours):	0.36	0.36
Loading Time (Hours):	0.70	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.93	0.73

## JOB TIME AND COST

Total job time: **3.85** Hours

Total job cost: \_\_\_\_\_\_\$4,748\_\_\_\_\_