

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:
Coaldale Quarry	M-1977-247	Anhydrite, gypsum	Fremont
INSPECTION TYPE:	WEATHER:	INSP. DATE:	INSP. TIME:
Monitoring	Clear	January 29, 2025	08:30
OPERATOR:	OPERATOR REPRESENTATIVE:	TYPE OF OPERAT	FION:
Holcim (US) Inc.	Mr. Josh Pierce & Mr. Eddy Senecal	112c - Construction Regular Operation	
REASON FOR INSPECTION:	BOND CALCULATION TYPE:	BOND AMOUNT:	
Normal I&E Program	Complete Bond	\$1,632,938.00	
DATE OF COMPLAINT:	POST INSP. CONTACTS:	JOINT INSP. AGE	NCY:
NA	None	None	

INSPECTOR'S SIGNATURE:

mighto

SIGNATURE DATE:

March 4, 2025

Possible	Violatio	<u>on is indic</u>	ated, you	<mark>u will be</mark>	notified	<u>d under separat</u>	<u>e cover as to</u>	when the Mined Land
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Reclamation Board will consider possible enforcement action.

INSPECTION TOPIC: Acid And Toxic Materials

INSPECTOR(S):

Jocelyn Carter

PROBLEM #1: A fuel leak/spill has occurred at the site which has impacted soils.

CORRECTIVE ACTIONS: The operator shall immediately remediate the spill and submit a final report to the Division containing at least the following information:

<u>The following inspection topics were identified as having Problems or Possible Violations. OPERATORS</u> SHOULD READ THE FOLLOWING PAGES CAREFULLY IN ORDER TO ASSURE COMPLIANCE

WITH THE TERMS OF THE PERMIT AND APPLICABLE RULES AND REGULATIONS. If a

1.) A description of how the spill was cleaned up containing at a minimum - the appropriate maps, volumes removed, sample locations, analytical data, and photo documentation.

2.) Evidence in the form of a receipt that the contaminated soil was disposed of by an approved method (such as sent to an approved landfill, land farming, recycling center, etc.).

CORRECTIVE ACTION DUE DATE: 4/03/25

INSPECTION TOPIC: Financial Warranty

PROBLEM #2: The financial warranty is not adequate to reclaim the site in accordance with the approved reclamation plan. This is a failure to maintain the proper financial warranty amount to complete reclamation of the affected lands pursuant to C.R.S. 34-32.5-117(4)(b) of the Act.

CORRECTIVE ACTIONS: The operator shall review the Division's calculated required financial warranty attached to this report. Comments and/or proof of completed reclamation activities shall be provided to theDivision by the corrective action date. At that time, if no comments have been received, the Division will be sending a separate surety increase notice to the operator regarding the increase of the financial warranty. The operator will have 60 days from the date on the surety increase notice to post the additional financial warranty.

CORRECTIVE ACTION DUE DATE: 3/21/25

INSPECTION TOPIC: Signs & Markers

PROBLEM #3: The mine identification sign posted at the entrance of the mine site did not contain complete information required by Rule 3.1.12(1). The sign should contain the following information: the name of the Operator, a statement that a reclamation permit for the operation has been issued by the Colorado Mined Land Reclamation Board; and the permit number. The mine identification sign posted did not have a statement that a reclamation permit for the operator shall, at the entrance of the mine site, post a sign which shall be clearly visible from the access road with the following: the name of the operator, a statement that a reclamation permit for the operator shall, at the entrance of the operator, a statement that a reclamation permit for the operator shall be clearly visible from the access road with the following: the name of the operator, a statement that a reclamation permit for the operator shall submit photo documentation that a proper sign has been posted by the corrective action date.

CORRECTIVE ACTION DUE DATE: 4/03/25

OBSERVATIONS

The Coaldale Quarry was inspected by me, Jocelyn Carter, on behalf of the Division or Reclamation, Mining, and Safety (Division/DRMS). Mr. Josh Peirce and Mr. Eddy Senecal were present during the inspection, representing Holcim (US) Inc. The weather was clear with cold temperatures around freezing.

Coaldale Quarry is permitted for 194.20 acres and is located about 17 miles southeast of the town of Salida in Fremont County. The mine entrance is located on the west side of County Road 6/Hayden Creek Road, about 1 mile to the southwest of the intersection with U.S. Highway 50.

Gypsum is the mined material at the Coaldale Quarry. Mining first started in 1907, and the gypsum extracted had been used for production of cement and for drywall boards over the past. Currently, Holcim (US) Inc uses the extracted gypsum for cement production. Depending on product demands, the quarry mines between 70,000 to 100,000 metric tons of raw material per year. Mining activities were not occurring at the time of the inspection; however, some loads of processed material were hauled off the site by a third-party hauling company.

Three problems are being cited in this inspection report, information about the corrective action(s) required for each problem are provided above. Problem #1 is being cited because of an issue with fuel leaking from a storage tank on site that has led to a small spill; Rule 3.1.13 outlines requirements for procedures in the case of a spill of petroleum. Problem #2 is being cited because it was found that the current financial warranty is no longer adequate in accordance with Rule 4.2.5(3). Problem #3 is being cited because of the mine sign missing required information as outlined by Rule 3.1.12(1).

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

Records

The annual report, map, and fee were received April 26, 2024. There are no open enforcement or minor infractions items for the permit. The last DRMS inspection was conducted July 16, 2020. Post mining land use

is for wildlife habitat for the permitted area and the land and mineral rights are both privately owned.

Hydrological Balance

There did not appear to be any disturbance to the hydrologic balance in the area.

General Mine Plan Compliance

The mining plan utilizes drilling and blasting methods, with each blasting events going about 30 feet down. Blasted material is then transported to a portable crushing and screening system located in the central area of the permit area. Processed material are then loaded and hauled by a third party to the Portland Plant, also in Fremont County, about 55 miles east of the Coaldale Quarry. There are three buildings and shop area located on the east side of the permit area, see Photos #10 and #11.

At the time of the inspection, Quarry North had three benches with each bench 30 feet or less in height. There was a pile of last season's blasted material observed at the foot of the highwall on the quarry floor in Quarry North and Quarry South; see Photos #4 and #5. At least two loads of processed materials had been loaded and hauled off site during the duration of the inspection.

The operation is broken down into three primary areas of mining: Quarry North, Quarry South, and Titanium Hill. In the Amendment application approved January 14, 2021 (AM-3), it was stated that exploration activities of Titanium Hill needed to be completed to verify details of the gypsum deposit before mining could be conducted in the area. The exploration bore holes had not been drilled at the time of the inspection and no expected start date of the exploration activities was provided.

Signs and Markers

The mine site sign is not in compliance with Rule 3.1.12(1) as it was missing the MLRB permit number, see Photo #1. This is cited as a problem, see Problem #3 above for information about the corrective action(s) required. Permit boundary markers were in place and marked with white PVC tubes placed over t-post, see Photo #2.

Overburden/Developed Waste

The overburden stockpiles for Quarry North and Quarry South are situated to the northeast of each respective area. Both stockpiles appeared to be stable with decent vegetation established and in adequate volumes for reclamation purposes.

Acid or Toxic Materials

Fuel tanks with secondary containers were located near the building on the east side of the permit area, see Photo #12. There was also a fuel tank on a fifth wheel trailer stored on in the same area. According to Mr. Peirce and Mr. Senecal, the fuel tank was brought in by a third-party contractor. A pump system with a gauge and fuel/water separator is installed on the fuel tank and a five-gallon bucket placed at the foot of the post for the nozzle, assumed to be used to catch any dripping fuel. The pump system was leaking in several areas, primarily the fuel separator and the nozzle attachment. The ground around the area has been affected and the spill needs to be cleaned up and the leaks addressed, see Photos #13 and #14. This is cited as a problem, see Problem #1 above for details on the corrective action(s) required.

Financial Warranty

The financial warranty held by the Division for this permit is \$1,632,938. A complete bond calculation was completed as part of this inspection and the updated required financial warranty is calculated to be \$2,695,166. This amount is \$1,062,228 higher than the amount currently being held. The calculation is done using the tasks developed for the reclamation cost estimate (RCE) during the AM-3 application process with consideration of

the areas that have been reclaimed as reported on the most recent annual map. A copy of the complete RCE is attached with this report. A problem is being cited in this report for an inadequate financial warranty, see Problem #2 above for information about the corrective action(s) required.

Processing Facilities

The processing facility, located in the central portion of the permitted area, appeared to be in good order. Processing was not occurring at the time of the inspection. The operation will start up processing again in March of 2025. There were no issues observed with the crushing and screening system setup. Water supplied for processing was sourced from a portable water tank, see Photos #6 - #8.

Fish & Wildlife

There were no negative impacts on wildlife observed.

Erosion/Sedimentation

There did not appear to be an erosional or sedimentation issue on site at the time of the inspection.

Roads

The roads appeared to be in good condition with no erosional issues, see Photo #1.

Explosives

Blasting is done on site; it is contracted with Southwest Energy. The Explosive plan for the operation is kept at the Portland Plant.

<u>Topsoil</u>

Topsoil for Quarry North and Quarry South are stockpiled adjacent to the overburden stockpiles. The stockpiles appeared to be stable with decent vegetation established and in adequate volumes for reclamation purposes.

Revegetation

There did not appear to be a noxious weed issue on site at the time of the inspection.

Reclamation Plan/ Compliance

Reclamation activities have not yet begun on site, as reported in the annual report. According to Exhibit D: Reclamation Plan submitted with the AM-3 application, reclamation activities will begin in the Quarry North and South areas and is estimated to begin in 2032.

PERMIT #: M-1977-247 INSPECTOR'S INITIALS: JLC INSPECTION DATE: January 29, 2025

PHOTOGRAPHS



Photo #1: Mine sign located on the north side of the entrance road, the operation name and operator's name are provided, but the MLRB permit number is not given. Entrance road is also seen to the left of the sign, looking west.



Photo #2: Example of a permit boundary marker, located east of the overburden and topsoil stockpile of the Quarry South area; looking east.



Photo #3: Topsoil stockpile for the Quarry South area, looking to the west.



Photo #4: Quarry North, blasted material is stockpiled at the foot of the highwall on the pit floor. The three benches can be seen. Looking west-northwest.



Photo #5: Quarry South, blasted material is at the foot of the highwall on the pit floor, looking to the southeast.



Photo #6: Processing facility.



Photo #7: Processing facility.



Photo #8: Portable water tank for the processing facility.



Photo #9: Product stockpile, tracks and freshly disturbance can be seen in the photo where material was loaded and hauled to the Portland Plant.



Photo #10: The three buildings located on the east side of the permit area.



Photo #11: The shop located on the east side of the permit area.



Photo #12: Fuel tanks with secondary storage.



Photo #13: The portable fuel tank, the pump system and the post for the nozzle can be seen. At the base of the 5-gallon bucket, the discoloration of the ground indicates that the leak has been ongoing for some time and has spread.



Photo #14: A closer look at the pump system on the fuel tank. The leak from the fuel/water separator can be seen on the separator and the ground below.

GENERAL INSPECTION TOPICS

The following list identifies the environmental and permit parameters inspected and gives a categorical evaluation of each

(AR) RECORDS <u>Y</u>	(FN) FINANCIAL WARRANTY PB	(RD) ROADS <u>Y</u>
(HB) HYDROLOGIC BALANCE <u>Y</u>	(BG) BACKFILL & GRADING <u>N</u>	(EX) EXPLOSIVES Y
(PW) PROCESSING WASTE/TAILING <u>N</u>	(SF) PROCESSING FACILITIES <u>Y</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>PB</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 Y	(ST) STIPULATIONS <u>NA</u>
(AT) ACID OR TOXIC MATERIALS PB	(OD) OFF-SITE DAMAGE <u>N</u>	

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

Inspection Contact Address

Mr. Josh Pierce & Mr. Eddy Senecal Holcim (US) Inc. 3500 Highway 120 Florence, CO 81226

Enclosure Division's Reclamation Cost Estimation

CC: Amy Eschberger, DRMS

COST SUMMARY WORK

T	Fask descrip	otion:	000				
Site: Coaldale Quarry		Pe	Permit Action: 2025 Inspection		Permit/Jol	o#: <u>M1977247</u>	
P	ROJECT	IDENTIFIC	CATION				
	Task #:	000	State:	Colorado		Abbreviation:	None
	Date:	2/27/2025	County:	Fremont		Filename:	M247-000
	User:	JLC					
	Age	ency or organi	zation name: DI	RMS			

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Backfill pit w/ Scrapers	SCRAPER1	1	249.85	\$1,347,958
002	Pit Wall Blasting (280000 T @ \$0.57/T)	NA	1	40.00	\$159,600
003	North Pit Wall (North Side) Removal Contouring	DOZER	2	47.93	\$19,916
004	Structure Demolition	DEMOLISH	1	80.00	\$99,028
005	North Pit (South Side) Bench Backfill	SCRAPER1	1	14.70	\$63,646
006	Rip 5.9 acres of Haul Road & Building sites	RIPPER	1	9.41	\$2,093
007	Titanium Hill Pit Bench Backfill	SCRAPER1	1	6.42	\$14,577
008	Haul & Spread Growth Media	SCRAPER1	1	21.51	\$96,391
009	Contour Overburden Stockpiles	DOZER	1	212.03	\$44,055
010	Revegetate 101 Acres	REVEGE	1	202.00	\$236,567
012	Mob/Demob from Canon City	MOBILIZE	1	14.08	\$66,097
		897.93	\$2,149,928		

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$43,429
Performance bond:	1.05	Total =	\$22,574
Job superintendent:	448.97	Total =	\$35,589
Profit:	10.00	Total =	\$214,993
		TOTAL O & P =	\$316,585
		CONTRACT AMOUNT (direct + O & P) =	\$2,466,513

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs):	\$500	Total =	\$500
Engineering work and/or contract/bid preparation:	4.25	Total =	\$104,827
Reclamation management and/or administration:	5.00	_	\$123,326
CONTINGENCY:	0.00	Total =	\$0
	TOTAL IN	DIRECT COST =	\$545,238
TOTAL BO	\$2,695,166		

Page 1 of 2

SCRAPER TEAM WORK

Site: Coaldale Quarry		Permit	Action:	2025 Inspection	Perr	nit/Job#: <u>M197</u>	7247
PROJECT IDEN	FIFICATION						
Task #:001	S	tate: 0	Colorado		Abbrev	viation: None	
Date: <u>2/27/20</u> User: JLC	025 Cou	inty: <u>I</u>	Fremont		File	ename: 001	
		עתת	C				
Agency or a	organization name:		.5				
HOURLY EQUIE	<u>PMENT</u>			COSTS	hift basis: <u>1 per d</u>	<u>ay</u>	
				ent Description			
		craper: Dozer:	Cat 657 NA	7G			
Suppo	- ort Equipment -Load		NA				
2 upp 3	-Dump			R DS Series II LO	iΡ		
Road Ma	intenance –Motor C		NA				
	-Water	Truck:	Water	Tanker, 2,500 Gal			
Cost Breakdown:	Scraper Wor	k Team		Support Equip	oment	Maintenance	Equipment
	Scraper	Doz	zer	Load Area	Dump Area	Motor Grader	Water Tr
%Utilization-machine:	100		NA	NA	100	NA	
Ownership cost/hour:	\$578.04		NA	NA	\$90.24	NA	\$1
Operating cost/hour:	\$421.68		NA	NA	\$78.95	NA	\$2
%Utilization-ripper:	NA		NA	NA	NA	NA	
Ripper own. cost/hour:	NA		NA	NA	\$0.00	NA	\$
Ripper op. cost/hour:	NA		NA	NA	\$0.00	NA	\$
Operator cost/hour:	\$30.90		NA	NA	\$38.59	NA	\$
Unit Subtotals:	\$1,030.62		NA	NA	\$207.78	NA	\$3
Number of Units:	5		0	0	1	0	
Group Subtotals:	Work:	\$5,15	3.10	Support:	\$207.78	Maint:	\$34.1
Total work team cost	t/hour: \$5,394.98						
MATERIAL QUA	ANTITIES						
Initial volume:	627,907		CCY	Swell fact	or: 1.165		
Loose volume:	731,512		LCY				
Sou	rce of estimated vo	lume:	Exhibit l	L, task 001B			
Source	of estimated swell fa	actor:	Cat Han				
HOURLY PROD	UCTION						
				Scraper Bo	owl (volume) Basi	is:	
Material weight:	2,900 lbs/LCY			-	Volume: 32.00		СҮ
Material description:	Decomposed rock 50% Earth	x - 50% I	Rock,	Heaped			CY
Rated Payload:	104,000 pounds			Average	Volume: 38.00		CY
	35.86 LCY				Capacity: 35.86		CY

Task # 001

<u>1.00</u> Minutes

0.60 Minutes

Cycle Time:

Scraper Loading Time: Maneuver and Spread Time:

Job Condition Correction:

Site Altitude: 6800 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: Rutted dirt, little maintenance, no water, 1" tire penetration 4.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1200.00	0.00	4.00	4.00	2725	0.86

Haul Time: **0.86** minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1200.00	0.00	4.00	4.00	2920	0.59

Return Time:	0.59	minutes
Total Scraper team cycle time:	3.05	minutes
Adjusted for job conditions:	585.55	LCY/Hour
Selected Number of Scrapers:	5	Scraper(s)
Adjusted single scraper team (unit) hourly production:	2,927.76	LCY/Hour
Adjusted multiple scraper team (fleet) hourly production:	2,927.76	LCY/Hour

Unadjusted unit production/hour: 705.48 LCY/Hour Optimal Number of Scrapers per push dozer:

Fleet size:	1	Team(s)	Total job time:	249.85	Hours
Unit cost:	\$1.843	/LCY	Total job cost:	\$1,347,958	

BULLDOZER WORK

	North Pit Wall (N		U		
Coaldale Quarry	Perm	nit Action:	2025 Inspection	Permit/Job#:	M1977247
PROJECT IDENTIF	ICATION				
Task #: 003	State:	Colorado		Abbreviation:	None
Date: 2/27/2025	County:	Fremont		Filename:	003
User: JLC				-	
Agency or organ	nization name: <u>DR</u>	MS			
HOURLY EQUIPME	ENT COST				
Basic Machine: Cat	t D7R DS Series II LO	3P			
Horsepower: 240)				
Blade Type: Stra	aight				
Attachment: NA	L				
Shift Basis: <u>1 p</u>	er day				
Data Source: (CH	RG)				
Cost Breakdown:					
			<u>Utilization %</u>		
Ownership Cost/Hour:		\$90.24	NA		
Operating Cost/Hour:		\$78.95	100		
Ripper own. Cost/Hour:		\$0.00	NA		
Ripper op. Cost/Hour:		\$0.00	0		
Operator Cost/Hour:		\$38.59	NA		
1 4 1 4 C 4/IT					
Total unit Cost/Hour:	\$207.78				
Total Fleet Cost/Hour:	\$415.55				
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: _ 31,7	\$415.55 <u>TITIES</u> 33				
Total Fleet Cost/Hour: <u>MATERIAL QUANT</u> Initial Volume: <u>31,7</u> Swell factor: <u>1.00</u>	\$415.55 <u>TITIES</u> 33 0				
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: <u>31,7</u> Swell factor: <u>1.00</u> Loose volume: 31,7	\$415.55 TITIES 33 0 33 LCY				
Total Fleet Cost/Hour: <u>MATERIAL QUANT</u> Initial Volume: <u>31,7</u> Swell factor: <u>1.00</u> Loose volume: <u>31,7</u> Source of estimated volu	\$415.55 TITIES 33 0 33 LCY me:Exhibit F-	 2b [9/21/20]]		
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: <u>31,7</u> Swell factor: <u>1.00</u> Loose volume: 31,7	\$415.55 TITIES 33 0 33 LCY me:Exhibit F-]		
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: <u>31,7</u> Swell factor: <u>1.00</u> Loose volume: <u>31,7</u> Source of estimated volum Source of estimated swell	\$415.55 CITIES 33 0 33 LCY me: Exhibit F- 1 factor: Cat Handle]		
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 31,7 Swell factor: 1.00 Loose volume: 31,7 Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT	\$415.55 CITIES 33 0 33 LCY me: Exhibit F- 1 factor: Cat Handle FION]		
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Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 31,7 Swell factor: 1.00 Loose volume: 31,7 Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT	\$415.55 CITIES 33 0 33 LCY me: Exhibit F- 1 factor: Cat Handb FION 100 feet	book]		
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Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 31,7 Swell factor: 1.00 Loose volume: 31,7 Source of estimated volu Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency destribution	\$415.55 STITIES 33 0 33 LCY me: Exhibit F- 1 factor: Cat Handle FION ction: 100 feet 496.4 LCY/I scription: Rock, w	hr			
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 31,7 Swell factor: 1.00 Loose volume: 31,7 Source of estimated volu Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc Materials consistency des Average push gradient: State	\$415.55 33 0 33 LCY me: Exhibit F- 1 factor: Cat Handb FION ction: 100 feet scription: Rock, w -30 %	hr			
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 31,7 Swell factor: 1.00 Loose volume: 31,7 Source of estimated volu Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency destribution	\$415.55 STITIES 33 0 33 LCY me: Exhibit F- 1 factor: Cat Handle FION ction: 100 feet 496.4 LCY/I scription: Rock, w	hr			
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Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: <u>31,7</u> Swell factor: <u>1.00</u> Loose volume: <u>31,7</u> Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction	\$415.55 CITIES 33 0 33 LCY me: Exhibit F- 1 factor: Cat Handle FION ction: 100 feet ction: 496.4 LCY/I scription: Rock, w -30 % 6,800 feet 3,300 lbs/LCY Decomposed rock - Factor 100 feet	hr vell ripped o	<u>r blasted 0.8</u> , 25% Earth <u>Source</u>		
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 31,7 Swell factor: 1.00 Loose volume: 31,7 Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator	\$415.55 CITIES 33 0 33 LCY me: Exhibit F- 1 factor: Cat Handb FION ction: 100 feet ction: 496.4 LCY/I scription: Rock, w -30 % 6,800 feet 3,300 lbs/LCY Decomposed rock - Factor Skill: 0.7	2000k hr 7ell ripped o - 75% Rock, 750	r blasted 0.8 , 25% Earth <u>Source</u> (AVG.)		
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 31,7 Swell factor: 1.00 Loose volume: 31,7 Source of estimated volum 31,7 Source of estimated volum 31,7 Source of estimated volum Source of estimated volum Source of estimated swell MOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency dest Average site altitude: Average site altitude: Material weight: Weight description: Job Condition Correction Operator Operator	\$415.55 33 0 33 LCY me: Exhibit F- 1 factor: Cat Handb FION ction: 100 feet ction: 496.4 LCY/I scription: Rock, w -30 % 6,800 feet 3,300 lbs/LCY Decomposed rock - Factor Skill: 0.7 ency: 0.8	book hr vell ripped o - 75% Rock, 750 800	r blasted 0.8 , 25% Earth 		
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: <u>31,7</u> Swell factor: <u>1.00</u> Loose volume: <u>31,7</u> Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator Material consist Dozing me	\$415.55 33 0 33 LCY me: Exhibit F- 1 factor: Cat Handle FION ction: 100 feet ction: 496.4 LCY/I scription: Rock, w -30 % 6,800 feet 3,300 lbs/LCY Decomposed rock - Factor Skill: 0.7 sthill: 0.7 ency: 0.8 wthod: 1.2	2000k hr 7ell ripped o - 75% Rock, 750	r blasted 0.8 , 25% Earth <u>Source</u> (AVG.)		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	1.000	(DOZ-OC)
Push gradient:	1.601	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.697	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.6669	
Adjusted unit production: 33	1.05 LCY/hr	
Adjusted fleet production: 66	2.1 LCY/hr	

Fleet size:	2 Dozer(s)
Unit cost:	\$0.628/LCY

Total job time:	47.93 Hours
Total job cost:	\$19,916

DEMOLITION WORK

	Task description:	Structure I	Demolition			
Site:	Coaldale Quarry		Permit Action:	2025 Inspection	Permit/J	lob#:M1977247
<u>PROJE</u>	CT IDENTIFICATION	N				
Task #	: 004	State:	Colorado		Abbreviation:	None
Date	: 2/27/2025	County:	Fremont		Filename:	004
User	JLC					
	Agency or organizat	tion name:	DRMS			

UNIT COSTS

Location adjustment: 88.00 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Metal shop building	100 x 66 x 15	Bldg. (SN) demo./off-site disposal in approved landfill - Max. 30 mile haul	99,000.00	CF	\$0.53	\$52,875.90
concrete slab	100 x 66 x 0.5	Floor, concrete, demolition only, average reinforcing - 6 in. thick	6,600.00	SF	\$1.10	\$7,277.16
Metal Bldg #1	56 x 33 x 15	Bldg. (SN) demo./off-site disposal in approved landfill - Max. 30 mile haul	27,720.00	CF	\$0.53	\$14,805.25
concrete slab	56 x 33 x 0.5	Floor, concrete, demolition only, average reinforcing - 6 in. thick	1,848.00	SF	\$1.10	\$2,037.60
Metal Bldg #2	52 x 28 x 15	Bldg. (SN) demo./off-site disposal in approved landfill - Max. 30 mile haul	21,840.00	CF	\$0.53	\$11,664.74
concrete slab	52 x 28 x 0.5	Floor, concrete, demolition only, average reinforcing - 6 in. thick	1,456.00	SF	\$1.10	\$1,605.39
Metal Bldg #3	48 x 33 x 15	Bldg. (SN) demo./off-site disposal in approved landfill - Max. 30 mile haul	23,760.00	CF	\$0.53	\$12,690.22
concrete slab	48 x 33 x 0.5	Floor, concrete, demolition only, average reinforcing - 6 in. thick	1,584.00	SF	\$1.10	\$1,746.52
Concrete loading (4 slabs above, broken)	5,744 CF	Loading only, open areas (unconfined) - Track loader	213.00	CY	\$0.87	\$186.16
Concrete hauling (4 slabs above, broken)	14 60-mile round trips	Hauling only, per mile, 12-18 CY truck - 50 mph average speed	850.00	MI	\$4.43	\$3,768.48
Tank	13 ft x 24 ft	Bldg. (SN) demo./off-site disposal in approved landfill - Max. 30 mile haul	3,185.00	CF	\$0.53	\$1,701.11
Tanks (2)	12 ft x 18 ft each	Bldg. (SN) demo./off-site disposal in approved landfill - Max. 30 mile haul	4,070.00	CF	\$0.53	\$2,173.79

				Total Cost	
		Subtotal		(adjusted for	
Job Hours:	80.00	(unadjusted):	\$112,532.32	location):	\$99,028.44

SCRAPER TEAM WORK

Site: Coaldale Quarry		Permit	Action:	2025 Inspection	Perr	nit/Job#: <u>M197</u>	7247
PROJECT IDENT	TIFICATION						
Task #: 005	Sta	ate: C	Colorado		Abbrev	viation: None	
Date: $2/27/20$	25 Cour	nty: F	remont		Fil	ename: 005	
User: <u>JLC</u>	organization name:	DRM	S				
HOURLY EQUIP				COSTS	hift basis: <u>1 per d</u>	av	
<u>HOUKET EQUI</u>			Equipm	ent Description	init basis. <u>I per u</u>		
	-Sci	raper:	Cat 65				
	-D	ozer:	NA				
Suppo	rt Equipment -Load Dump		NA Cat D7	'R DS Series II LC	2D		
Road Ma	intenance – Motor Gi		NA	K DS Selles II LC	<u>)</u> [
	-Water T	ruck:	NA				
Cost Breakdown:	Scraper Work	Team		Support Equi	oment	Maintenance	Fauinment
Cost Di Caruowii.	Scraper	Doz	zer	Load Area	Dump Area	Motor Grader	Water Tr
%Utilization-machine:	100		NA	NA	100	NA	
Ownership cost/hour:	\$578.04		NA	NA	\$90.24	NA	
Operating cost/hour:	\$421.68		NA	NA	\$78.95	NA	
%Utilization-ripper:	NA		NA	NA	NA	NA	ļ
Ripper own. cost/hour:	NA		NA	NA	\$0.00	NA	
Ripper op. cost/hour:	NA		NA	NA	\$0.00	NA	<u> </u>
Operator cost/hour:	\$30.90		NA	NA	\$38.59	NA	
Unit Subtotals:	\$1,030.62		NA	NA	\$207.78	NA	
Number of Units:	4 Work:	\$4.10	0	0 Sum orti	\$207.78	0 Maint:	\$0.00
Group Subtotals:	work:	\$4,12	2.48	Support:	\$207.78	Maint:	\$0.00
Total work team cost	/hour: \$4,330.26						
MATERIAL QUA	NTITIES						
Initial volume:	22,645		CCY	Swell fact	or: 1.165		
Loose volume:	26,381		LCY				
	rce of estimated volu		Exhibit	F-2b [9/21/20], Ex	hibit E [10/2/20]/	Task 005.1	
Source of	of estimated swell fac	ctor:	Cat Han	dbook			
HOURLY PRODU	UCTION						
				Scraper Bo	owl (volume) Basi	is:	
Material weight:	2,900 lbs/LCY			Struck	Volume: <u>32.00</u>		CY
Material description:	Decomposed rock 50% Earth	- 50% F	Rock,	Heaped	Volume: 44.00	L	CY
Rated Payload:	104,000 pounds			Average	Volume: 38.00	I (CY
Rateu Fayloau.	104,000 pounds			1 I VOI UZO	volume. 50.00	L	<u> </u>

<u>1.00</u> Minutes

0.60 Minutes

Cycle Time:

Scraper Loading Time: Maneuver and Spread Time:

Job Condition Correction:

Site Altitude: 6800 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: Rutted dirt, little maintenance, no water, 1" tire penetration 4.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	2500.00	0.00	4.00	4.00	2725	1.34

Haul Time: **1.34** minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	2500.00	0.00	4.00	4.00	2920	1.04

Return Time:	1.04	minutes
Total Scraper team cycle time:	3.98	minutes
Adjusted for job conditions:	448.73	LCY/Hour
Selected Number of Scrapers:	4	Scraper(s)
Adjusted single scraper team (unit) hourly production:	1,794.91	LCY/Hour
Adjusted multiple scraper team (fleet) hourly production:	1,794.91	LCY/Hour
Unadjusted unit production/hour: <u>540.63</u> LCY/Hour		

Optimal Number of Scrapers per push dozer:

Fleet size:	1	Team(s)	Total job time:	14.70	Hours
Unit cost:	\$2.413	/LCY	Total job cost:	\$63,646	_

BULLDOZER RIPPING WORK

Citat	~ ~						
Sile:	Coaldale Qua	irry	Permit Action:	2025 Inspection	Permit/J	ob#: <u>M19</u>	977247
	PROJECT ID	ENTIFICATIO	<u>ON</u>				
	Task #: 006	6	State: Colorado		Abbreviatio	on: <u>None</u>	•
		27/2025	County: Fremont		Filenan	ne: 006	
	User: JLO	С					
	Agency	or organization	name: DRMS				
	HOURLY EQ	UIPMENT CO	DST				
					II	240	
			D7R DS Series II LGP hank Ripper		Horsepower: Shift Basis:	240 1 per day	
	Ripper Au			_	Data Source:	(CRG)	
	Cast Durals dama					(010)	
	Cost Breakdown	<u>:</u>		1	Utilization %		
		Ownership Co	ost/Hour:	\$90.24	NA		
		Operating Co		\$78.95	100		
		er Ownership Co		\$9.25	NA		
	Ripp	per Operating Co		\$5.20	100		
		Operator Co		\$38.59	NA		
		Total Unit Co	ost/Hour:	\$222.23			
		Total Fleet Co	ost/Hour: \$222	.23			
	MATERIAL (MANTITIFS		. 1	.1 1 4		
			Sele	cted estimating n	nethod: Area		
	Alternate Method	<u>ds:</u>					
nic:	NA		Bank Volume:	NA	BCY	NA	
				101		1111	
rea:	5.90	acres	Rip Depth (ft):	1.00	Volume: 9,519	141	BCY or
rea:	5.90		Rip Depth (ft):	1.00	Volume: 9,519		BCY or
		Source of estin	-	1.00	Volume: 9,519		BCY or
	5.90 HOURLY PRO	Source of estin	Rip Depth (ft):	1.00	Volume: 9,519		BCY or
		Source of estin	Rip Depth (ft):	1.00 IT F-1, dated 9/2	Volume: 9,519 21/20		BCY or
	HOURLY PRO	Source of estin	Rip Depth (ft):	1.00	Volume: 9,519		BCY or
	HOURLY PRO	Source of estin	Rip Depth (ft):	1.00 IT F-1, dated 9/2	Volume: 9,519 21/20		BCY or
	HOURLY PRO	Source of estin ODUCTION S Averag	Rip Depth (ft):	1.00 IT F-1, dated 9/2 NA 2.45	Volume: 9,519 21/20		BCY or
	HOURLY PRO	Source of estin ODUCTION S Averag Averag	Rip Depth (ft):	1.00 IT F-1, dated 9/2 NA 2.45 6.50	Volume: 9,519 21/20 feet/second feet/pass feet/pass		BCY or
	HOURLY PRO	Source of estin ODUCTION S Averag Averag Average	Rip Depth (ft):	1.00 IT F-1, dated 9/2 NA 2.45 6.50 500.00	Volume: 9,519 21/20 feet/second feet/pass feet/pass feet/pass feet/pass		BCY or
	HOURLY PRO	Source of estin ODUCTION S Averag Average Average Average Average	Rip Depth (ft):	1.00 IT F-1, dated 9/2 NA 2.45 6.50 500.00 88.00	Volume: 9,519 21/20 feet/second feet/pass feet/pass feet/pass feet/pass feet/minute		BCY or
	HOURLY PRO	Source of estin ODUCTION S Average Average Average Average Average Average	Rip Depth (ft):	1.00 IT F-1, dated 9/2 NA 2.45 6.50 500.00 88.00 0.25	Volume: 9,519 21/20 feet/second feet/pass feet/pass feet/pass feet/pass feet/minute minutes/pass		BCY or
	HOURLY PRO Seismic: Area:	Source of estin ODUCTION Averag Average Average Average Average Average Product	Rip Depth (ft):	1.00 IT F-1, dated 9/2 NA 2.45 6.50 500.00 88.00	Volume: 9,519 21/20 feet/second feet/pass feet/pass feet/pass feet/pass feet/minute		BCY or
	HOURLY PRO	Source of estin ODUCTION Averag Average Average Average Average Average Product	Rip Depth (ft):	1.00 IT F-1, dated 9/2 NA 2.45 6.50 500.00 88.00 0.25	Volume: 9,519 21/20 feet/second feet/pass feet/pass feet/pass feet/pass feet/minute minutes/pass		BCY or
	HOURLY PRO Seismic: Area: Job Condition Co	Source of estin ODUCTION Average Average Average Average Average Product	Rip Depth (ft):	1.00 IT F-1, dated 9/2 NA 2.45 6.50 500.00 88.00 0.25	Volume: 9,519 21/20 feet/second feet/pass feet/pass feet/pass feet/pass feet/minute minutes/pass		BCY or
	HOURLY PRO Seismic: Area: Job Condition Co	Source of estin ODUCTION Average Average Average Average Average Product	Rip Depth (ft):	1.00 IT F-1, dated 9/2 NA 2.45 6.50 500.00 88.00 0.25 0.755 0.755	Volume: 9,519 21/20 feet/second		BCY or
	HOURLY PRO Seismic: Area: Job Condition Co	Source of estin ODUCTION Average Average Average Average Average Product	Rip Depth (ft):	1.00 IT F-1, dated 9/2 NA 2.45 6.50 500.00 88.00 0.25 0.755	Volume: 9,519 21/20 feet/second		BCY or
	HOURLY PRO Seismic: Area: Job Condition Co	Source of estin ODUCTION Average Average Average Average Average Product	Rip Depth (ft):	1.00 IT F-1, dated 9/2 NA 2.45 6.50 500.00 88.00 0.25 0.755 0.755 6,800	Volume: 9,519 21/20 feet/second		BCY or
	HOURLY PRO Seismic: Area: Job Condition Co	Source of estin ODUCTION Average Average Average Average Average Product	Rip Depth (ft):	1.00 IT F-1, dated 9/2 NA 2.45 6.50 500.00 88.00 0.25 0.755 6,800 1.00	Volume: 9,519 21/20 feet/second		BCY or
	HOURLY PRO Seismic: Area: Job Condition Co	Source of estin <u>ODUCTION</u> Average Average Average Average Product <u>orrection Factors</u> hadjusted Hourly	Rip Depth (ft):	1.00 IT F-1, dated 9/2 NA 2.45 6.50 500.00 88.00 0.25 0.755 6,800 1.00 0.83 0.83	Volume: 9,519 21/20 feet/second		BCY or
	HOURLY PRO Seismic: Area: Job Condition Co	Source of estin ODUCTION Average Average Average Average Product orrection Factors hadjusted Hourly	Rip Depth (ft):	1.00 IT F-1, dated 9/2 NA 2.45 6.50 500.00 88.00 0.25 0.755 6,800 1.00 0.83 0.83 0.63	Volume: 9,519 21/20 feet/second		BCY or
	HOURLY PRO Seismic: Area: Job Condition Co Un	Source of estin ODUCTION Average Average Average Average Product orrection Factors hadjusted Hourly Adjusted Adjusted I	Rip Depth (ft):	1.00 IT F-1, dated 9/2 NA 2.45 6.50 500.00 88.00 0.25 0.755 6,800 1.00 0.83 0.83	Volume: 9,519 21/20 feet/second		BCY or
	HOURLY PRO Seismic: Area: Job Condition Co Un	Source of estin ODUCTION Average Average Average Average Product orrection Factors hadjusted Hourly Adjusted Adjusted I	Rip Depth (ft):	1.00 IT F-1, dated 9/2 NA 2.45 6.50 500.00 88.00 0.25 0.755 6,800 1.00 0.83 0.63	Volume: 9,519 21/20 feet/second		BCY or
	HOURLY PRO Seismic: Area: Job Condition Co Un	Source of estin ODUCTION Average Average Average Average Product orrection Factors hadjusted Hourly Adjusted Adjusted I	Rip Depth (ft):	1.00 IT F-1, dated 9/2 NA 2.45 6.50 500.00 88.00 0.25 0.755 6,800 1.00 0.83 0.83 0.63	Volume: 9,519 21/20 feet/second		BCY or

Task # 007

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SCRAPER TEAM WORK

Site: Coaldale Quarry		Permit Actio	on: 2025 Inspection	n Perr	mit/Job#: <u>M197</u>	7247
PROJECT IDENT	TIFICATION					
Task #: 007	St	ate: Colora	do	Abbrev	viation: None	
Date: 2/27/20	025 Cour	nty: Fremo	nt	Fil	ename: 007	
User: JLC		55175				
	organization name:	DRMS				
HOURLY EQUIP	<u>MENT</u>			hift basis: <u>1 per d</u>	<u>ay</u>	
			oment Description			
		raper: Cat Dozer: NA	657G			
Suppor	rt Equipment -Load					
	-Dump		D7R DS Series II LO	βP		
Road Mar	intenance –Motor G -Water 7					
	- water	TIUCK. INA				
<u>Cost Breakdown</u> :	Scraper Work		Support Equi		Maintenance	Equipm
	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Wate
%Utilization-machine:	100	NA	A NA	100	NA	
Ownership cost/hour:	\$578.04	NA	A NA	\$90.24	NA	
Operating cost/hour:	\$421.68	NA	A NA	\$78.95	NA	
%Utilization-ripper:	NA	NA	A NA	NA	NA	
Ripper own. cost/hour:	NA	NA	A NA	\$0.00	NA	
Ripper op. cost/hour:	NA	NA	A NA	\$0.00	NA	
Operator cost/hour:	\$30.90	NA	A NA	\$38.59	NA	
Unit Subtotals:	\$1,030.62	NA	A NA	\$207.78	NA	
Number of Units:	2		0 0	1	0	
Group Subtotals:	Work:	\$2,061.24	Support:	\$207.78	Maint:	\$
Total work team cost	/hour: <u>\$2,269.02</u>					
MATERIAL QUA	<u>NTITIES</u>					
Initial volume:	6,005	CCY	Swell fact	tor: <u>1.165</u>		
Loose volume:	6,996	LCY				
	rce of estimated vol		oit F-2b [9/21/20], Ex	hibit E [10/2/20]/	Task 007.1	
Source of	of estimated swell fa	ctor: <u>Cat F</u>	landbook			
HOURLY PRODU	UCTION					
			Scraper Bo	owl (volume) Basi	is:	
Material weight:	2,900 lbs/LCY			Volume: <u>32.00</u>		CY
Material description:	Decomposed rock	- 50% Rock,	Heaped	Volume: 44.00	L	CY
Rated Payload:	50% Earth 104,000 pounds		Average	Volume: 38.00	т	CY
Payload Capacity:	35.86 LCY		Average Adjusted (CY

Task # 007

<u>1.00</u> Minutes

0.60 Minutes

Cycle Time:

Scraper Loading Time: Maneuver and Spread Time:

Job Condition Correction:

Site Altitude: 6800 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: Rutted dirt, little maintenance, no water, 1" tire penetration 4.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1500.00	0.00	4.00	4.00	2725	0.98

Haul Time: 0.98 minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1500.00	0.00	4.00	4.00	2920	0.70

Return Time:	0.70	minutes
Total Scraper team cycle time:	3.28	minutes
Adjusted for job conditions:	544.49	LCY/Hour
Selected Number of Scrapers:	2	Scraper(s)
Adjusted single scraper team (unit) hourly production:	1,088.98	LCY/Hour
Adjusted multiple scraper team (fleet) hourly production:	1,088.98	LCY/Hour
Unadjusted unit production/hour: <u>656.01</u> LCY/Hour Optimal Number of Scrapers per push dozer:		

Fleet size:	1	Team(s)	Total job time:	6.42	Hours
Unit cost:	\$2.084	/LCY	Total job cost:	\$14,577	

Page 1 of 2

SCRAPER TEAM WORK

Site: Coaldale Quarry		Permit	t Action:	2025 Inspection	Perr	nit/Job#: <u>M197</u>	7247
PROJECT IDENT Task #: 008 Date: 2/27/20 User: JLC Agency or of	Sta 025 Count		Colorado Fremont			viation: <u>None</u> ename: <u>008</u>	
HOURLY EQUIP	<u>'MENT</u>			COSTS	hift basis: <u>1 per d</u>	ay	
			Equipme	ent Description			
		aper:	Cat 657	G			
Suppo	rt Equipment -Load A	ozer: Area:	NA NA				
	-Dump A	Area:	Cat D7	R DS Series II LC	θP		
Road Ma	intenance –Motor Gra -Water Tr		CAT 12 NA	2M			
			117				
Cost Breakdown:	Scraper Work Scraper	<u>Team</u> Doz	zer	Support Equi Load Area	Dump Area	Maintenance Motor Grader	Equipmen Water T
%Utilization-machine:	100		NA	NA	100	100	_
Ownership cost/hour:	\$578.04		NA	NA	\$90.24	\$69.16	
Operating cost/hour:	\$421.68		NA	NA	\$78.95	\$54.74	
%Utilization-ripper:	NA		NA	NA	NA	NA	
Ripper own. cost/hour:	NA		NA	NA	\$0.00	\$0.00	
Ripper op. cost/hour:	NA		NA	NA	\$0.00	\$0.00	
Operator cost/hour: Unit Subtotals:	\$30.90		NA	NA	\$38.59	\$27.76	
Number of Units:	\$1,030.62		NA 0	NA 0	\$207.78	\$151.66	
Group Subtotals:	Work:	\$4,12		Support:	\$207.78	Maint:	\$151.
Total work team cost			I		· · · ·	I	
Initial volume: Loose volume:	44,367 53,906		CCY LCY	Swell fact	tor: <u>1.215</u>		
	rce of estimated volu of estimated swell fac		Exhibit I Cat Hand	L [55 acres @ 6-ir lbook	ich depth]		
HOURLY PROD	UCTION						
				-	owl (volume) Basi		
Material weight:	1,600 lbs/LCY				Volume: 32.00		CY
Material description: Rated Payload:	Top Soil 104,000 pounds			Heaped Average			CY CY
	LUTIOUU DUUIUS			Average	, oranie	L	~ I

<u>1.00</u> Minutes

<u>0.60</u> Minutes

Cycle Time:

Scraper Loading Time: Maneuver and Spread Time:

Job Condition Correction:

Site Altitude: 6800 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: <u>Rutted dirt, little maintenance, no water, 1" tire penetration 4.0</u>

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1200.00	0.00	4.00	4.00	2725	0.72

Haul Time: 0.72 minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1500.00	0.00	4.00	4.00	2920	0.70
				Return Time:	0.70 r	ninutes
			Total Scrap	er team cycle time:	3.02	minutes
			Adjusted	for job conditions:	626.62	LCY/Hour
			Selected N	umber of Scrapers:	4	Scraper(s)
	Adjuste	d single scra	per team (unit)	hourly production:	2,506.49	LCY/Hour
	Adjusted n	nultiple scra	per team (fleet)	hourly production:	2,506.49	LCY/Hour
Optima	Unadjusted unit pro- al Number of Scrapers pe			LCY/Hour		
JOB TI	ME AND COST					
Flee	t size:1	Team(s)	7	Fotal job time:	21.51	Hours

Unit cost: _____\$1.788 /LCY

Total job cost: **\$96,391**

BULLDOZER WORK

Task description:	Contour Overburden Ste	ockpiles		
Coaldale Quarry	Permit Actio	on: 2025 Inspection	Permit/Job#:	M1977247
PROJECT IDENTIF	<u>'ICATION</u>			
Task #: 009	State: Colora	ado	Abbreviation:	None
Date: 2/27/2025	County: Fremo		Filename:	009
User: JLC				
Agency or orga	nization name: DRMS			
HOURLY EQUIPMI	ENT COST			
Basic Machine: Ca	t D7R DS Series II LGP			
Horsepower: 24				
• • •	raight			
Attachment: <u>NA</u> Shift Basis: 1 r				
	per day RG)			
Cost Breakdown:				
		Utilization 9	<u>⁄o</u>	
Ownership Cost/Hour:	\$90.			
Operating Cost/Hour:	\$78.			
Ripper own. Cost/Hour: Ripper op. Cost/Hour:	\$0. \$0.			
Operator Cost/Hour:	\$38.:			
Total unit Cost/Hour:	\$207.78			
MATERIAL QUANT Initial Volume: 59,8 Swell factor: 1.00	314			
	814 LCY			
Source of estimated volu	me: Exhibit L task 003	3		
Source of estimated swe	Il factor: Cat Handbook			
HOURLY PRODUC	TION			
Average push distance:	100 feet			
Unadjusted hourly produ	action: 496.4 LCY/hr			
Materials consistency de	scription:Rock, well ripp	ed or blasted 0.8		
Average push gradient: Average site altitude:	-25 % 6,800 feet			
Material weight:	3,300 lbs/LCY			
Weight description:	Decomposed rock - 75% R	cock, 25% Earth		
Job Condition Correction		Source		
Operator	Skill: 0.750	(AVG	i.)	
Material consis		(CAT H	/	
Dozing me	1 1 1 1 200		T)	
	ethod: <u>1.200</u> bility: <u>1.000</u>	(SLO) (AVG	· · · · · · · · · · · · · · · · · · ·	

Task # 009

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.900	(SSD-FC)
Push gradient:	1.516	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.697	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.5683	
Adjusted unit production:	282.10 LCY/hr	
Adjusted fleet production:	282.1 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.737/LCY

Total job time:	212.03 Hours
Total job cost:	\$44,055

REVEGETATION WORK

Task descrip	otion:	Revegetate 101 Acres	S			
Site: Coaldale	Quarry	Permit A	Action: _	2025 Inspection	Permit/Job	#: <u>M1977247</u>
PROJECT	<u>IDENTIFIC</u>	CATION				
Task #: Date: User:	010 2/27/2025 JLC	·	olorado emont		Abbreviation: Filename:	None 010
	ency or organi	zation name: DRMS				

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
Total Tilling Cost/Acre	\$117.61

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Blue Grama - Hachita	0.38	6.20	\$10.89
Indiangrass - Cheyenne	1.39	4.24	\$17.10
Sideoats Grama - Vaughn	2.28	7.48	\$56.07
Streambank Wheatgrass - Sodar	1.12	3.65	\$9.30
Western Wheatgrass - Arriba	3.20	8.08	\$28.91
Needlegrass, Green - Lodorm	0.96	3.99	\$8.30
Daisy or Sunflower, Maximillians	3.72	21.08	\$211.41
Flax, Lewis Blue	0.61	4.05	\$25.80
		58.77	\$367.77

Totals Seed Mix 13.66

Application

Description		Cost /Acre
Broadcast seeding [DMG]		\$272.56
	Total Seed Application Cost/Acre	\$272.56

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, 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
	Total Mulch Application Cost/Acre	\$85.37

NURSERY STOCK PLANTING

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

	No. of Acres:	101		Cost /Acre:	\$1,828.87
Estimate	ed Failure Rate:	30%		Cost /Acre*:	\$1,711.26
*Selected Replanti	ng Work Items:	SEEDING,MU	LCHING		
Initial Job Cost:	\$184,715.87				
Reseeding Job Cost:	\$51,851.18				
Total Job Cost:	\$236,567				
Job Hours:	202.00				

EQUIPMENT MOBILIZATION/DEMOBILIZATION

	1010	b/Demob from C	anon City				
e: Coaldale Quar	ry	Permit	Action: <u>2025 I</u>	nspectior	<u> </u>	Permit/Job#: <u>M</u>	1977247
PROJECT IDEN	TIFICATI	<u>ON</u>					
Task #: 012		State: Co	olorado		Abbre	eviation: None	
	/2025		emont			ilename: 012	
User: JLC		J					
Agency of	r organizatior	n name: DRMS					
EQUIPMENT T	RANSPOR	T RIG COST					
					Shift ba	sis: 1 per da	T 7
				(Cost Data Sou		
					Cost Data Sou		lia
Truck	Tractor Desc	ription: GENE	RIC ON-HIGHV	VAY TRU	JCK TRACTO	OR, 6X4, DIESEI	L POWERED,
					(2ND HALF,		
Truck	Trailer Desc	ription: G	ENERIC FOLD	NG GOO	SENECK, DI	ROP DECK EQU	IPMENT
		1			(25T, 50T, Al		
						,	
Cost Breakdown:							
Available Rig Ca	pacities	0-25 Tons	26-50 Tons	51-	- Tons		
Ownership		\$10.44	\$22.18		23.94		
Operating		\$26.48	\$54.55		55.65		
Operator		\$22.52	\$22.52				
operator				D.	22.52		
					22.52		
Helper	Cost/Hour:	\$0.00	\$23.53	\$2	23.53		
	Cost/Hour:			\$2			
Helper (Total Unit (Cost/Hour: Cost/Hour:	\$0.00 \$59.44	\$23.53	\$2	23.53		
Helper (Total Unit (NON ROADABL	Cost/Hour: Cost/Hour: E EQUIPN	\$0.00 \$59.44 1ENT:	\$23.53 \$122.78	\$2 \$1	23.53 25.64	Deturn Trin	DOT Dormit
Helper (Total Unit (NON ROADABL Machine	Cost/Hour: Cost/Hour: LE EQUIPN Weight/	\$0.00 \$59.44 IENT: Owner ship	\$23.53 \$122.78 Haul Rig	\$2 \$1 Fleet	23.53 25.64 Haul Trip	Return Trip	DOT Permit
Helper (Total Unit (Cost/Hour: Cost/Hour: LE EQUIPN Weight/ Unit	\$0.00 \$59.44 1ENT:	\$23.53 \$122.78	\$2 \$1	23.53 25.64 Haul Trip Cost/hr/	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
Helper (Total Unit (NON ROADABL Machine Description	Cost/Hour: Cost/Hour: LE EQUIPN Weight/ Unit (TONS)	\$0.00 \$59.44 IENT: Owner ship Cost/hr/ unit	\$23.53 \$122.78 Haul Rig Cost/hr/unit	\$2 \$1 Fleet Size	23.53 25.64 Haul Trip Cost/hr/ fleet	Cost/hr/ fleet	Cost/ fleet
Helper of Total Unit of NON ROADABL Machine Description Cat 657G	Cost/Hour: Cost/Hour: LE EQUIPN Weight/ Unit (TONS) 78.88	\$0.00 \$59.44 IENT: Owner ship Cost/hr/ unit \$578.04	\$23.53 \$122.78 Haul Rig Cost/hr/unit \$125.64	Fleet Size	23.53 25.64 Haul Trip Cost/hr/ fleet \$3,518.40	Cost/hr/ fleet \$628.20	Cost/ fleet \$1,250.00
Helper (Total Unit (NON ROADABL Machine Description Cat 657G Cat D7R DS	Cost/Hour: Cost/Hour: LE EQUIPN Weight/ Unit (TONS)	\$0.00 \$59.44 IENT: Owner ship Cost/hr/ unit	\$23.53 \$122.78 Haul Rig Cost/hr/unit	\$2 \$1 Fleet Size	23.53 25.64 Haul Trip Cost/hr/ fleet	Cost/hr/ fleet	Cost/ fleet
Helper of Total Unit of NON ROADABL Machine Description Cat 657G Cat D7R DS Series II LGP	Cost/Hour: Cost/Hour: LE EQUIPN Weight/ Unit (TONS) 78.88 38.49	\$0.00 \$59.44 IENT: Owner ship Cost/hr/ unit \$578.04 \$99.49	\$23.53 \$122.78 Haul Rig Cost/hr/unit \$125.64 \$122.78	\$2\$1FleetSize52	23.53 25.64 Haul Trip Cost/hr/ fleet \$3,518.40 \$444.54	Cost/hr/ fleet \$628.20 \$245.56	Cost/ fleet \$1,250.00 \$500.00
Helper of Total Unit of NON ROADABL Machine Description Cat 657G Cat D7R DS Series II LGP ATLAS COPCO	Cost/Hour: Cost/Hour: LE EQUIPN Weight/ Unit (TONS) 78.88	\$0.00 \$59.44 IENT: Owner ship Cost/hr/ unit \$578.04	\$23.53 \$122.78 Haul Rig Cost/hr/unit \$125.64	Fleet Size	23.53 25.64 Haul Trip Cost/hr/ fleet \$3,518.40	Cost/hr/ fleet \$628.20	Cost/ fleet \$1,250.00
Helper of Total Unit of NON ROADABL Machine Description Cat 657G Cat D7R DS Series II LGP ATLAS COPCO ROC D7-11,4.0 in.	Cost/Hour: Cost/Hour: LE EQUIPN Weight/ Unit (TONS) 78.88 38.49 0.00	\$0.00 \$59.44 IENT: Owner ship Cost/hr/ unit \$578.04 \$99.49 \$191.64	\$23.53 \$122.78 Haul Rig Cost/hr/unit \$125.64 \$122.78 \$59.44	\$2 \$1 Fleet Size 5 2 1	23.53 25.64 Haul Trip Cost/hr/ fleet \$3,518.40 \$444.54 \$251.08	Cost/hr/ fleet \$628.20 \$245.56 \$59.44	Cost/ fleet \$1,250.00 \$500.00 \$250.00
Helper of Total Unit of NON ROADABL Machine Description Cat 657G Cat D7R DS Series II LGP ATLAS COPCO ROC D7-11,4.0 in. Drill/Broadcast	Cost/Hour: Cost/Hour: LE EQUIPN Weight/ Unit (TONS) 78.88 38.49	\$0.00 \$59.44 IENT: Owner ship Cost/hr/ unit \$578.04 \$99.49	\$23.53 \$122.78 Haul Rig Cost/hr/unit \$125.64 \$122.78	\$2\$1FleetSize52	23.53 25.64 Haul Trip Cost/hr/ fleet \$3,518.40 \$444.54	Cost/hr/ fleet \$628.20 \$245.56	Cost/ fleet \$1,250.00 \$500.00
Helper of Total Unit of NON ROADABI Machine Description Cat 657G Cat D7R DS Series II LGP ATLAS COPCO ROC D7-11,4.0 in. Drill/Broadcast Seeder with	Cost/Hour: Cost/Hour: LE EQUIPN Weight/ Unit (TONS) 78.88 38.49 0.00	\$0.00 \$59.44 IENT: Owner ship Cost/hr/ unit \$578.04 \$99.49 \$191.64	\$23.53 \$122.78 Haul Rig Cost/hr/unit \$125.64 \$122.78 \$59.44	\$2 \$1 Fleet Size 5 2 1	23.53 25.64 Haul Trip Cost/hr/ fleet \$3,518.40 \$444.54 \$251.08	Cost/hr/ fleet \$628.20 \$245.56 \$59.44	Cost/ fleet \$1,250.00 \$500.00 \$250.00
Helper of Total Unit of NON ROADABI Machine Description Cat 657G Cat D7R DS Series II LGP ATLAS COPCO ROC D7-11,4.0 in. Drill/Broadcast Seeder with Tractor	Cost/Hour: Cost/Hour: LE EQUIPN Weight/ Unit (TONS) 78.88 38.49 0.00 25.00	\$0.00 \$59.44 MENT: Owner ship Cost/hr/ unit \$578.04 \$99.49 \$191.64 \$41.02	\$23.53 \$122.78 Haul Rig Cost/hr/unit \$125.64 \$122.78 \$59.44 \$59.44	\$2 \$1 Fleet Size 5 2 1 2	23.53 25.64 Haul Trip Cost/hr/ fleet \$3,518.40 \$444.54 \$251.08 \$200.92	Cost/hr/ fleet \$628.20 \$245.56 \$59.44 \$118.88	Cost/ fleet \$1,250.00 \$500.00 \$250.00 \$250.00
Helper of Total Unit of NON ROADABI Machine Description Cat 657G Cat D7R DS Series II LGP ATLAS COPCO ROC D7-11,4.0 in. Drill/Broadcast Seeder with Tractor CAT 12M	Cost/Hour: Cost/Hour: LE EQUIPN Weight/ Unit (TONS) 78.88 38.49 0.00 25.00 16.01	\$0.00 \$59.44 IENT: Owner ship Cost/hr/ unit \$578.04 \$99.49 \$191.64 \$41.02 \$69.16	\$23.53 \$122.78 Haul Rig Cost/hr/unit \$125.64 \$122.78 \$59.44 \$59.44	\$2 Fleet Size 5 2 1 2 1	23.53 25.64 Haul Trip Cost/hr/ fleet \$3,518.40 \$444.54 \$251.08 \$200.92 \$128.60	Cost/hr/ fleet \$628.20 \$245.56 \$59.44 \$118.88 \$59.44	Cost/ fleet \$1,250.00 \$500.00 \$250.00 \$250.00 \$250.00
Helper of Total Unit of NON ROADABI Machine Description Cat 657G Cat D7R DS Series II LGP ATLAS COPCO ROC D7-11,4.0 in. Drill/Broadcast Seeder with Tractor	Cost/Hour: Cost/Hour: LE EQUIPN Weight/ Unit (TONS) 78.88 38.49 0.00 25.00	\$0.00 \$59.44 MENT: Owner ship Cost/hr/ unit \$578.04 \$99.49 \$191.64 \$41.02	\$23.53 \$122.78 Haul Rig Cost/hr/unit \$125.64 \$122.78 \$59.44 \$59.44	\$2 \$1 Fleet Size 5 2 1 2	23.53 25.64 Haul Trip Cost/hr/ fleet \$3,518.40 \$444.54 \$251.08 \$200.92	Cost/hr/ fleet \$628.20 \$245.56 \$59.44 \$118.88	Cost/ fleet \$1,250.00 \$500.00 \$250.00 \$250.00

 Subtotals:
 \$4,969.63
 \$1,230.40
 \$3,000.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Water Tanker, 2,500 Gal.	\$34.10	1	\$34.10	\$34.10
ANFO Bulk Delivery Truck	\$272.76	1	\$272.76	\$272.76
Fuel Tanker, 4x2, 170 HP	\$34.10	1	\$34.10	\$34.10

CIRCES Cost Estimating Software

Mobilization Worksheet Cont'd

Lube Truck, 4x2, 190 HP	\$41.41	1		\$41.41	\$41.41
Light Duty Pickup, 4x4, 1 T.	\$108.47	1		\$108.47	\$108.47
Crew					
		S	ubtotals:	\$490.84	\$490.84

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	CANON CITY	
Total one-way travel distance:	76.00	miles
Average Travel Speed:	50.00	mph
Total Non-Roadable Mob/Demob Cost * '* two round trips with haul rig:	\$64,605.13	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$1,492.15	

Transportation Cycle Time:

Haul Time (Hours): Return Time (Hours): Loading Time (Hours): Unloading Time (Hours):	Non- Roadable Equipment 1.52 1.52 2.00 2.00	Roadable Equipment 1.52 1.52 NA NA NA
Unloading Time (Hours):	2.00	NA
Subtotals:	7.04	3.04

JOB TIME AND COST

Total job time: _____ Hours

Total job cost: \$66,097