

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: Lopez Quarry No. 2	MINE/PROSPECTING ID#: M-2007-034	MINERAL: Sand and gravel	COUNTY: Las Animas
INSPECTION TYPE:	WEATHER:	INSP. DATE:	INSP. TIME:
Surety-Related Inspection	Clear	March 26, 2024	11:00
OPERATOR:	OPERATOR REPRESENTATIVE:	TYPE OF OPERA	TION:
S & S Services	Lonny Lopez	110c - Construction	Limited Impact
REASON FOR INSPECTION:	BOND CALCULATION TYPE:	BOND AMOUNT:	
Surety Related	Complete Bond	\$24,832.00	
DATE OF COMPLAINT:	POST INSP. CONTACTS:	JOINT INSP. AGE	NCY:
NA	None	None	
INSPECTOR(S):	INSPECTOR'S SIGNATURE:	SIGNATURE DAT	'E:
Amber M. Gibson	Arbert Bleson	April 3, 2024	

The following inspection topics were identified as having Problems or Possible Violations. OPERATORS SHOULD READ THE FOLLOWING PAGES CAREFULLY IN ORDER TO ASSURE COMPLIANCE WITH THE TERMS OF THE PERMIT AND APPLICABLE RULES AND REGULATIONS. If a Possible Violation is indicated, you will be notified under separate cover as to when the Mined Land Reclamation Board will consider possible enforcement action.

INSPECTION TOPIC: Signs & Markers

PROBLEM: The affected area boundary markers are missing or incorrectly placed. This is a problem for failure to maintain boundary markers around the affected area as required by Section 3.1.12(2) of the Rule.

CORRECTIVE ACTIONS: The Operator shall send the Division coordinates and photos of markers installed to delineate the permit boundary (excluding the northern 'stockpile' area portion) to the satisfaction of the Division by the corrective action date.

CORRECTIVE ACTION DUE DATE: 5/03/24

OBSERVATIONS

The Lopez Quarry No. 2 was inspected by Amber Gibson with the Division of Reclamation, Mining and Safety (Division/DRMS). The inspection was conducted as part of a surety release (SR1) inspection to re-evaluate the reclamation cost estimate calculated after the Division's November 29, 2023 routine monitoring inspection. Since the previous inspection, the Division had issued a surety increase (SI2) to increase the financial warranty. The Operator has since conducted a significant amount of reclamation, and requested that the required surety be re-evaluated. Lonny Lopez, representing the Operator (S & S Services), accompanied me during the inspection. The ground was muddy and the weather was cool and clear at the time of the inspection.

This site is an active, 9.80 acre, 110c permit held by S & S Services. This site is located approximately 5 miles east of Weston, CO. The main mining commodities at the site are sand and gravel. The pre-mining land use was rangeland, and the post-mining land use is both rural residential and rangeland.

Availability of Records:

The annual report, map, and fee are paid through September 7, 2024. The Division issued a Surety Increase (SI2) on January 2, 2024. In response, a Surety Reduction request (SR1) was submitted by the Operator and was received by the Division on March 4, 2024. See the Financial Warranty section below for details pertaining to SI2 and SR1. There is an outstanding problem citation from the November 29, 2024 inspection that has been modified as a result of the recent inspection (see Signs & Markers section below).

Backfilling and Grading:

During the Division's November 29, 2023 inspection, a problem was cited for excess erosion. Erosion gullies and rills had formed throughout much of the area in the western portion of the site. Since that inspection, the Operator has performed a significant amount of reclamation throughout the site (Photos 1-6). Not only have the slopes been stabilized, but the highwalls have also been backfilled and graded (except for a small section seen in Photos 5 & 6 and on Figure 1). In addition to backfilling and grading, the Operator has also spread topsoil and seeded the majority of the site. The area that has not yet been topsoiled is the small section of highwall remaining. The area above the highwall, where equipment and product is currently stored, is approved to be reclaimed to a rural residential post-mining land use, and is to be overlain by two inches of soil once all mining has ceased (per the approved mining and reclamation plans).

Additional overburden material is available on-site to be used as backfill in the future (Photos 5, 7, & 8). During the inspection, broken concrete slabs were noted within the piles containing material to be crushed (Photo 5). The Operator stated that they will crush that material when they crush again, or use it for backfill. The <u>Division reminds the Operator that per their currently approved plan, they are not approved to import</u> <u>inert fill. If any imported materials are to be used as fill, they must be approved as inert fill via a Technical</u> <u>Revision.</u> If the Operator crushes the concrete material and incorporates it within the product, a revision will not be required.

Financial Warranty:

The Division currently holds a reclamation bond in the amount of \$24,832 for this site. Following the November 2023 inspection, the Division estimated the reclamation liability at the site based on what was currently disturbed to be \$34,227-- a difference of \$9,395 from the bond currently held. The Division issued an SI2 on January 2, 2024. The Operator submitted an SR1 on March 4, 2024. After the March 26, 2024

inspection, the Division re-estimated the reclamation liability at the site to account for the recent reclamation conducted by the Operator, and found the new liability to be \$24,618—a reduction of \$214 from the bond currently held. Therefore, the bond amount currently held by the Division <u>is adequate at this time</u>. The Division's current cost estimate is enclosed within this report. In response to the re-evaluated liability estimate, the Division will not pursue the SI2 increase and will approve SR1.

Hydrologic Balance and Sediment Control:

The Operator has re-stabilized the slopes throughout the disturbed area to repair erosion that occurred as a result of surface water run-off throughout the pit. To prevent run-off from leaving the site, earthen berms are located along the southern perimeter of the disturbance (Photo 9). The Operator has also installed water bars along the re-stabilized slopes in the north-west portion of the permit to help direct and slow surface water flow over the slopes (Photo 1).

Gen. Compliance with Mine Plan:

The Operator stated that they intend to keep operating out of the pit for at least the next few years. The active mining area has been greatly reduced, and now is contained within approximately 2 acres near the east-central portion of the permitted area. As stated during the previous inspection, the Operator does not intend to mine any further north, with no intentions to mine within the northern-most area originally described as a stockpile area (see Figure 1).

Roads:

The road that begins north of Highway 12, and extends along the north side of the pit portion of the permit is approved to remain post-reclamation.

Right of Entry:

The Operator is the landowner, and thus maintains legal right of entry to the site.

Reclamation Success and Revegetation:

The Operator has conducted the initial backfilling, grading, topsoiling, and revegetation on the majority of the site. Because seeding had recently been conducted, no vegetation has yet established. The Operator stated that if the vegetation becomes established while they're still operating in the reduced area, they may or may not seek a partial release at that time.

Signs and Markers:

A permit sign, posted in compliance with Rule 3.1.12(1) was observed at the entrance to the site (Photo 13).

The Operator and the Division agree that there are many discrepancies in the spatial orientation of features on the approved map in comparison with what is on the ground. Most specifically, the area that was to be designated as a stockpile area in the northern most portion of the permit was to be located to the east of the bend in the access road (see Figure 1 and Figure 2). However, to maintain a similar shape and orientation of the approved map, and in agreement with the approved 9.8 acres, this area actually would have to be located on top of a hill to the north of the main mining area, beyond the creek bed (see Photo 14 and Figure 1).

A **problem has been re-cited** for failure to maintain markers around the affected boundary pursuant to Rule 3.1.12(2). However, because the mining area has been greatly reduced, and much of the area has been reclaimed, the Division will not require new maps at this time. The Operator shall instead send the Division

coordinates and photos of markers placed along the permit boundary (excluding the northern 'stockpile' area) by the corrective action date. The Division and the Operator walked the northern-most disturbance (blue line on Figure 1) and the Division collected coordinates for the markers currently onsite (flag icons on Figure 1). The Division will follow this inspection report with written correspondence to indicate the coordinates collected by the Division during the inspection.

As a reminder, if the Operator later intends to affect new areas in support of the mining operation, <u>a land</u> <u>survey will be required and at minimum, a Technical Revision will be required</u> to update mining and reclamation plans and maps.

Topsoil:

During the Division's November 29, 2023 inspection, a topsoil stockpile was observed running east to west near the south-east corner of the pit boundary. The majority of the stockpile appeared to be stable. The Operator had stated that they seeded the topsoil stockpile in 2020 along the south side. During the inspection, it was noted that on the south-west portion of the pile, on the north facing side, some erosion rills had formed. A problem was cited requiring the Operator to repair the rills, stabilize, and seed this portion of the topsoil pile.

On February 22, 2024, the Operator sent the Division photos indicating that this issue had been resolved. During the recent March 26, 2024 inspection, the topsoil pile was again observed. The area that had had erosion features forming has since been stabilized and seeded (Photo 15), as implicated in the Operator's submission.

Conclusion:

This concludes the Division's Inspection Report; two figures displaying topics discussed in the report, and a subset of corresponding photographs that were taken during the time of the inspection, are included below. If you need additional information or have any questions, please contact me by email at amber.gibson@state.co.us or by telephone at (720) 836-0967.

Inspection Contact Address

Lonny Lopez S & S Services 20999 State Highway 12 Weston, CO 81091

Enclosure: 2024 Reclamation Cost Estimate Conducted as Part of SR1

CC: Jared Ebert, DRMS

GENERAL INSPECTION TOPICS

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

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

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PHOTOGRAPHS



Photo 1: Looking north-east across recently reclaimed slopes that had erosion gullies present during the Division's 2023 inspection. The arrows point to the water bars installed to help slow and direct surface water flow on the slopes.



Photo 2: Looking at the north-east corner of the disturbed area that has been recently reclaimed.



Photo 3: Looking south along the western fence at recent reclamation.



Photo 4: Looking east from the western and north-western most extent of the disturbance onsite at the recent reclamation.



Photo 5: Looking north-east at the remaining section of highwall. The red arrow points to a pile of material that may still be crushed. The yellow arrows points to overburden that can be used for backfilling and grading.



Photo 6: Looking east at the western portion of the highwall that runs north to south.



Photo 7: Looking west across excess fill material.



Photo 8: Looking east across excess fill material.



Photo 9: Looking south at the recent reclamation along the south border. The arrows point to earthen berms used to keep run-off from leaving the site.



Photo 10: Looking south-east across the pit. Circled is the sloped topsoil pile.



Photo 11: Looking east at a product stockpile and equipment in the laydown area.



Photo 12: Looking east at another smaller product pile, grizzly screener, red water tank, and loader.



Photo 13: Looking north-west at the mine sign posted at the entrance to the site.



Photo 14: Looking north-west at the hill beyond the creek bed (see Figure 1).



Photo 15: Looking west across the topsoil stockpile. The area that had been cited for erosion and that required seeding has been graded and seeded (in the foreground).

PERMIT #: M-2007-034 INSPECTOR'S INITIALS: AMG INSPECTION DATE: March 26, 2024



Figure 1: Figure generated in Google Earth Pro following the Division's November 29, 2023 and March 26, 2024 inspections. The Division collected coordinates and paths using Esri Field Maps during the inspection. The white circle icons indicate specific inspection points collected during the November 2023 inspection. The blue line indicates the northern-most disturbance boundary, walked by the Division and Operator during the 2024 inspection. The boundary marker collected in this area during the 2023 inspection (see photo 12.4 in the 2023 report) appears to more accurately represent the northern permit boundary, compared with the temporary flag observed during the 2024 inspection (green star in the north central portion of the permit in the figure). The north-east marker was not observed during the inspection, but the Division proposes that one be placed in the approximate location shown above (yellow flag).



Figure 2: Approved mining plan map with a red circle added to indicate the northern portion mentioned in the mining plan that was proposed to possible serve as a topsoil stockpile location. Notice how the map appears to suggest that this area is directly north of the bend in the access road, in an area with a gradual slope.

COST SUMMARY WORK

Т	ask description:	Reclamation Cos	st Estimate	for the Lopez Q	uarry No.	2: SR1		
Site:	Lopez Quarry No. 2	Per	Permit Action: 2024 SR1 Ins		ection	Permit/Jol	#: M2007034	
Pl	ROJECT IDENTIF	ICATION						
	Task #: 000	State:	Colorado		1	Abbreviation:	None	
	Date: 4/1/2024	County:	Las Anima	IS		Filename:	M034-000	
	User: AMG							
	Agency or orga	nization name: DR	RMS					
	0,00							
<u>T</u> .	ASK LIST (DIREC	<u>r costs)</u>						
T	ASK LIST (DIREC	<u>r costs)</u>		Form	Fleet	Task		
		<u>T COSTS)</u>		Form Used	Fleet Size	Task Hours	Cost	
Task	ASK LIST (DIREC Description Cut slopes to 3:1	<u>T COSTS)</u>		-			Cost \$109	
Task 001	Description Cut slopes to 3:1	T COSTS) opsoil over 0.5 acres		Used		Hours		
Task 001 002	Description Cut slopes to 3:1 Apply 6 inches of to			Used DOZER		Hours 0.25	\$109	
Task 001 002 003	Description Cut slopes to 3:1 Apply 6 inches of to	opsoil over 0.5 acres opsoil over 1.5 acres		Used DOZER DOZER		Hours 0.25 1.48	\$109 \$654	
Task 001 002 003 004 005	DescriptionCut slopes to 3:1Apply 6 inches of toApply 2 inches of toRe-vegetate 7.5 acr	opsoil over 0.5 acres opsoil over 1.5 acres	pment	Used DOZER DOZER DOZER		Hours 0.25 1.48 1.42	\$109 \$654 \$627	

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$386
Performance bond:	1.05	Total =	\$201
Job superintendent:	7.45	Total =	\$485
Profit:	10.00	Total =	\$1,910
		TOTAL O & P =	\$2,980
		CONTRACT AMOUNT (direct + O & P) =	\$22,076

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs):	\$500	Total =	\$500
Engineering work and/or contract/bid preparation:	4.25	Total =	\$938
Reclamation management and/or administration:	5.00		\$1,104
CONTINGENCY:		Total =	\$0
	0.00	NDIRECT COST =	
TOTAL BO	OND AMOUNT (a	direct + indirect) =	\$24,618

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BULLDOZER WORK

Lopez Quarry No. 2	Permit Acti	on: 2024 SR1 Inspection	Permit/Jol	o#: <u>M200703</u>
PROJECT IDENTIFI	CATION			
Task #: 001	State: Colora	do	Abbreviation:	None
Date: $\frac{001}{4/1/2024}$	County: Las An		Filename:	M034-001
User: AMG			T Hendrife.	11102 1 001
Agency or organ	nization name: DRMS			
IOURLY EQUIPME	<u>NT COST</u>			
	t D8T - 8SU			
Horsepower: 310				
· · ·	mi-Universal			
	hank ripper			
	er day			
	RG)			
<u>cost Breakdown</u> :		TT/11 / 0/		
Ownership Cost/Hour:	\$241.3	8 <u>Utilization %</u> NA		
Operating Cost/Hour:	\$241.5			
Ripper own.				
Cost/Hour:	\$14.1	1 NA		
Ripper op. Cost/Hour:	\$3.7	50		
Operator Cost/Hour:	\$41.3	0 NA		
Total unit Cost/Hour	<u>\$444 44</u>			
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Material consistency:	0.900	(CAT HB))
Dozing method:	1.200	(SLOT)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	1.000	(DOZ-OC)
Push gradient:	1.225	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.852	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.7017

Adjusted unit production:	982.38 LCY/hr
Adjusted fleet production:	982.38 LCY/hr

Fleet size:	1 Dozer(s)
Unit cost:	\$0.452/LCY

Total job time:	0.25 Hours
Total job cost:	\$109

BULLDOZER WORK

Lopez Quarry No. 2		Permit Action:	2024 SR1 Inspection	Permit/Job	#: <u>M2007034</u>
PROJECT IDENTIFI	<u>CATION</u>				
Task #: 002	Sta	te: Colorado		Abbreviation:	None
Date: 4/1/2024	Coun	ty: Las Animas		Filename:	2
User: AMG					
Agency or organ	nization name:	DRMS			
HOURLY EQUIPME	NT COST				
	t D8T - 8SU				
Horsepower: 310					
<i>•</i> • •	ni-Universal				
	hank ripper				
	er day				
Data Source: (CH	RG)				
Cost Breakdown:					
			Utilization %		
Ownership Cost/Hour:		\$241.38	NA		
Operating Cost/Hour:		\$143.92	100		
Ripper own.		\$14.11	NA		
Cost/Hour: Ripper op. Cost/Hour:		\$1.12	15		
			13		
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Operator Cost/Hour:		\$41.30	NA		
Total unit Cost/Hour: Total Fleet Cost/Hour:	\$441.83 \$441.83 TIES	\$41.30	NA		
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Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 404 Swell factor: 1.21 Loose volume: 491 Source of estimated volu Source of estimated swelfactor: HOURLY PRODUCT Average push distance: Unadjusted hourly production: Materials consistency de Average push gradient:	\$441.83 5 LCY ime: 6" ov 11 Cat H	t CY/hr nsolidated stockpil	 d area 		
Total unit Cost/Hour: Total Fleet Cost/Hour: Initial Volume: 404 Swell factor: 1.21 Loose volume: 491 Source of estimated volu Source of estimated volu Source of estimated swelfactor: 400 HOURLY PRODUCT Average push distance: Unadjusted hourly production: Materials consistency de Average push gradient: Average site altitude:	\$441.83 ITIES 5 LCY ume: 6" ov Cat F 11 250 fee 377.8 L escription: Co -10 % 6,630 feet	t CY/hr nsolidated stockpil	 d area 		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 404 Swell factor: 1.21 Loose volume: 491 Source of estimated volu Source of estimated volu Source of estimated swel factor: HOURLY PRODUCT Average push distance: Unadjusted hourly production: Materials consistency de Average push gradient: Average site altitude: Material weight:	\$441.83 ITIES 5 LCY ume: 6" ov Cat F II 250 fee 377.8 L escription: Co -10 % 6,630 feet 1,600 lbs/LCY Top Soil	t CY/hr nsolidated stockpil	 d area 		

Material consistency:	1.000	(CAT HB)
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(SSD-AC)
Push gradient:	1.225	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.8773

Adjusted unit production:	331.44 LCY/hr
Adjusted fleet production:	331.44 LCY/hr

Fleet size:	1 Dozer(s)
Unit cost:	\$1.333/LCY

Total job time:	1.48 Hours
Total job cost:	\$654

BULLDOZER WORK

Lopez Quarry No. 2		Permit Action:	2024 SR1 Inspection	Permit/Jol	b#: <u>M200703</u> 4
ROJECT IDENTIF	ICATION				
Task #: 003 Date: 4/1/2024 User: AMG		state: <u>Colorado</u> unty: <u>Las Animas</u>	5	Abbreviation: Filename:	None 3
Agency or orga	nization name:	DRMS			
OURLY EQUIPME	ENT COST				
	at D8T - 8SU		_		
1	emi-Universal		-		
×1			_		
	shank ripper		_		
	per day CRG)		_		
			_		
ost Breakdown:		1			
~			<u>Utilization %</u>		
Ownership Cost/Hour:		\$241.38	NA		
Operating Cost/Hour:		\$143.92	100		
Ripper own.		\$14.11	NA		
Cost/Hour:					
Ripper op. Cost/Hour:		\$1.12	15		
Operator Cost/Hour:		\$41.30	NA		
Total unit Cost/Hour: Total Fleet Cost/Hour: IATERIAL QUANT	\$441.83 \$441.83				
Total Fleet Cost/Hour: [ATERIAL QUANT Initial Volume: <u>387</u> Swell factor: 1.2	\$441.83 FITIES 7 15				
Total Fleet Cost/Hour: [ATERIAL QUANT Initial Volume: <u>387</u> Swell factor: 1.2	\$441.83				
Total Fleet Cost/Hour: [ATERIAL QUANT Initial Volume: <u>387</u> Swell factor: 1.2	\$441.83 TITIES 7 15 0 LCY lume: 2"	over 1.5 acres of lay t Handbook	ydown area		
Total Fleet Cost/Hour: Initial Volume: 387 Swell factor: 1.2 Loose volume: 470 Source of estimated vol Source of estimated swefactor:	\$441.83 <u>FITIES</u> 7 15 0 LCY lume: <u>2</u> " ca		ydown area		
Total Fleet Cost/Hour: Initial Volume: 387 Swell factor: 1.2 Loose volume: 470 Source of estimated vol Source of estimated swell	\$441.83 FITIES 7 15 0 LCY lume: 2" ell Ca TION 250 f	t Handbook	ydown area		
Total Fleet Cost/Hour: Initial Volume: 387 Swell factor: 1.2 Loose volume: 470 Source of estimated vol Source of estimated swell Source of estimated swell Source of estimated swell Average push distance: Unadjusted hourly	\$441.83 7 15 0 LCY lume: 2" ell Ca TION 250 f 377.8	t Handbook			
Total Fleet Cost/Hour: Initial Volume: 387 Swell factor: 1.2 Loose volume: 470 Source of estimated vol Source of estimated swell Source of estimated swell Source Gource of estimated swell Source Source of estimated swell Source Average push distance: Unadjusted hourly Ource of estimated swell Source Average push distance: Source Materials consistency de Source Average push Source Source Source So	\$441.83 7 15 0 LCY lume: 2" ell Ca TION 250 f 377.8	t Handbook Seet 3 LCY/hr			
Total Fleet Cost/Hour: Initial Volume: 387 Swell factor: 1.2 Loose volume: 470 Source of estimated vol 380 Source of estimated swelfactor: 470 OURLY PRODUCT 470 Average push distance: 100 Unadjusted hourly 100 production: 100 Materials consistency de 100 Average push 100 Staterials consistency de 100	\$441.83 7 15 0 LCY lume: 2" ca FION	t Handbook Seet 3 LCY/hr			
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Total Fleet Cost/Hour: Initial Volume: 387 Swell factor: 1.2 Loose volume: 470 Source of estimated vol 380 Source of estimated swell 380 Materials consistence: 380 Materials consistency destination: 380 Average push 380 Gradient: 380 Average site altitude: 380	\$441.83 FITIES 7 15 0 LCY lume: 2" ell Ca <u>TION</u>	t Handbook eet Consolidated stockp			
Total Fleet Cost/Hour: Initial Volume: 387 Swell factor: 1.2 Loose volume: 470 Source of estimated vol Source of estimated swell Source of estimated swell Source of estimated swell Gource of estimated hourly Source Yerage push distance: Unadjusted hourly Waterials consistency definition: Average push Average site altitude: Average site altitude: Material weight: Material weight:	\$441.83 CITIES 7 15 D LCY lume: 2" ell Ca TION	t Handbook eet Consolidated stockp		_	

Material consistency:	1.000	(CAT HB)
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(SSD-AC)
Push gradient:	1.225	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.8773

Adjusted unit production:	331.44 LCY/hr
Adjusted fleet production:	331.44 LCY/hr

Fleet size:	1 Dozer(s)
Unit cost:	\$1.333/LCY

Total job time:	1.42 Hours
Total job cost:	\$627

REVEGETATION WORK

Task desci	iption:	Re-vegetate 7.5	acres				
Site: Lopez (Quarry No. 2	Per	rmit Action:	2024 SR1 Inspection	Permit/Job#	: M2007034	
PROJECT Task #:	<u>r identific</u> 004	ATION State:	Colorado		Abbreviation:	None	
Date: User:	4/1/2024	County:	Las Anima	S	Filename:	4	
А	gency or organiz	zation name: DF	RMS				

FERTILIZING

Materials Units / Cost / Unit Cost /Acre Description Unit Acre \$20.70 Superphosphate, 0-20-0 with 12% S 30.00 pound \$0.69 **Total Fertilizer** Materials \$20.70 Cost/Acre

Application

Description		Cost /Acre
Tractor towed spreader (MEANS 32 01 90.13 0120)		\$41.82
	Total Fertilizer Application Cost/Acre	\$41.82

TILLING

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

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Blue Grama - Hachita	2.00	32.64	\$31.95
Little Bluestem - Native	1.00	5.97	\$13.57
Smooth Brome - Lincoln	7.50	24.97	\$24.94
Milk Vetch, Cicer - Lutana	1.00	3.33	\$8.20
Western Wheatgrass - Arriba	8.00	20.20	\$52.00
Totals Seed Mix	19.50	87.11	\$130.65

Application

Description	Cost /Acre

Drill Seeding (DRMS Survey Cost)	\$232.00
Total Seed Application Cost/Acre	\$232.00

MULCHING and MISCELLANEOUS

Materials

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

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$74.46
Power mulcher (MEANS 32 91 13.16 0350)		\$147.67
	Total Mulch Application Cost/Acre	\$222.13

No. of Acres:	7.5	Cost /Acre:	\$1,619.69
Estimated Failure Rate:	25%	Cost /Acre*:	\$362.65
*Selected Replanting Work Items:	SEEDING		

Initial Job Cost:	\$12,147.68
Reseeding Job Cost:	\$679.97
Total Job Cost:	\$12,828
Job Hours:	7.50

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Та	ask description:		bilization and de			ii e			
e: _	Lopez Quarry	No. 2	Permit	Action:2024	SR1 Inspe	ection	Permit/Job i	#: <u>M2</u>	007034
<u>PR</u>	OJECT IDEN	NTIFICATI	<u>ON</u>						
	Task #: 005		State: Co	olorado		Abbre	eviation:	None	
	Date: $4/1/$	2024	County: La	s Animas		 Fi	ilename:	5	
	User: AM	G	J				_		
	Agency o	or organization	n name: DRMS						
<u>EQ</u>	<u>)UIPMENT T</u>	RANSPOR	<u>T RIG COST</u>						
						Shift ba	sis [.] 1	per day	,
					(Cost Data Sour		RG Data	
	- T 1	T (D							
	Truck	Tractor Desc	ription: GENE	RIC ON-HIGH				NESEL	POWERED,
					400 HP	(2ND HALF,	ZUU0)		
	T 1	Tradian D-	mintion.	ENEDIC FOLD		SENECY DI		EOU	DMENT
	Truck	Trailer Desc	ription: G	ENERIC FOLD			ROP DECK	K EQUII	PMENT
	Truck	t Trailer Desc	ription: G			SENECK, DF (25T, 50T, AN	ROP DECK	K EQUII	PMENT
<u>Cos</u>	Truck st Breakdown:	t Trailer Desc	ription: G				ROP DECK	K EQUII	PMENT
	st Breakdown:		0-25 Tons		<u>FRAILER</u>	(25T, 50T, AN	ROP DECK	K EQUII	PMENT
	st Breakdown: vailable Rig Ca]	TRAILER		ROP DECK	K EQUII	PMENT
	st Breakdown: wailable Rig Ca Ownership	apacities	0-25 Tons	7 26-50 Tons	<u>FRAILER</u> 51- \$4	(25T, 50T, AN	ROP DECK	K EQUII	PMENT
	st Breakdown: wailable Rig Ca Ownership Operating	apacities Cost/Hour:	0-25 Tons \$20.26	26-50 Tons \$36.04	TRAILER 51- \$2 \$2 \$3	(25T, 50T, AN Tons 47.05	ROP DECK	C EQUII	PMENT
	st Breakdown: wailable Rig Ca Ownership Operating Operator	apacities Cost/Hour: Cost/Hour:	0-25 Tons \$20.26 \$39.51	26-50 Tons \$36.04 \$76.08	State 51- \$4 \$5 \$5 \$5	(25T, 50T, AN Tons 47.05 32.85	ROP DECK	C EQUII	PMENT
	st Breakdown: wailable Rig Ca Ownership Operating Operator Helper	apacities Cost/Hour: Cost/Hour: Cost/Hour:	0-25 Tons \$20.26 \$39.51 \$22.52	26-50 Tons \$36.04 \$76.08 \$22.52	Si \$: \$: \$: \$: \$: \$: \$: \$: \$: \$:	(25T, 50T, AN Tons 47.05 82.85 22.52	ROP DECK	<u> EQUII</u>	PMENT
	st Breakdown: wailable Rig Ca Ownership Operating Operator Helper	apacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	0-25 Tons \$20.26 \$39.51 \$22.52 \$0.00 \$82.29	26-50 Tons \$36.04 \$76.08 \$22.52 \$23.53 \$158.17	Si \$1- \$1- \$1- \$1- \$1- \$1- \$1- \$1- \$1- \$1- \$1- \$1-	(25T, 50T, AN Tons 47.05 32.85 22.52 23.53	ROP DECK ND 100T)		
	st Breakdown: vailable Rig Ca Ownership Operating Operator Helper Total Unit ON ROADAB	apacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	0-25 Tons \$20.26 \$39.51 \$22.52 \$0.00 \$82.29 IENT: Owner ship	26-50 Tons \$36.04 \$76.08 \$22.52 \$23.53 \$158.17 Haul Rig	Si \$1- \$4 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1	(25T, 50T, AN Tons 47.05 82.85 22.52 23.53 75.95 Haul Trip	OP DECK ND 100T)	rip	DOT Permit
	st Breakdown: vailable Rig Ca Ownership Operating Operator Helper Total Unit	apacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPN Weight/ Unit	0-25 Tons \$20.26 \$39.51 \$22.52 \$0.00 \$82.29 MENT:	26-50 Tons \$36.04 \$76.08 \$22.52 \$23.53 \$158.17	Si \$1- \$1- \$1- \$1- \$1- \$1- \$1- \$1- \$1- \$1- \$1- \$1-	(25T, 50T, AN Tons 47.05 82.85 22.52 23.53 75.95 Haul Trip Cost/hr/	ROP DECK ND 100T)	rip	
A NC	st Breakdown: Vailable Rig Ca Ownership Operating Operator Helper Total Unit ON ROADAB Jachine Description	Apacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPN Weight/ Unit (TONS)	0-25 Tons \$20.26 \$39.51 \$22.52 \$0.00 \$82.29 MENT: Owner ship Cost/hr/ unit	26-50 Tons \$36.04 \$76.08 \$22.52 \$23.53 \$158.17 Haul Rig Cost/hr/uni t	Si \$1- \$4 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1	(25T, 50T, AN Tons 47.05 32.85 22.52 23.53 75.95 Haul Trip Cost/hr/ fleet	ROP DECK ND 100T) Return T Cost/hr/	rip	DOT Permit Cost/ fleet
	st Breakdown: Vailable Rig Ca Ownership Operating Operator Helper Total Unit DN ROADAB Jachine Description at D8T - 8SU	Apacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPN Weight/ Unit (TONS) 53.08	0-25 Tons \$20.26 \$39.51 \$22.52 \$0.00 \$82.29 MENT: Owner ship Cost/hr/ unit \$255.49	26-50 Tons \$36.04 \$76.08 \$22.52 \$23.53 \$158.17 Haul Rig Cost/hr/uni t \$175.95	S1- \$1- \$1- \$1- \$1- \$1- \$1- \$1- \$1-	(25T, 50T, AN Tons 47.05 32.85 22.52 23.53 75.95 Haul Trip Cost/hr/ fleet \$431.44	ROP DECK ND 100T) Return T Cost/hr/ \$175.95	rip	DOT Permit Cost/ fleet \$250.00
A MC NC	st Breakdown: Vailable Rig Ca Ownership Operating Operator Helper Total Unit ON ROADAB Jachine Description	Apacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPN Weight/ Unit (TONS)	0-25 Tons \$20.26 \$39.51 \$22.52 \$0.00 \$82.29 MENT: Owner ship Cost/hr/ unit	26-50 Tons \$36.04 \$76.08 \$22.52 \$23.53 \$158.17 Haul Rig Cost/hr/uni t	Fleet Size	(25T, 50T, AN Tons 47.05 32.85 22.52 23.53 75.95 Haul Trip Cost/hr/ fleet	ROP DECK ND 100T) Return T Cost/hr/	rip	DOT Permit Cost/ fleet

 Subtotals:
 \$717.71
 \$422.82
 \$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, 3/4 T.	\$88.63	1	\$88.63	\$88.63
		Subtotals:	\$88.63	\$88.63

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region: Total one-way travel distance: Average Travel Speed:	TRINIDAD 20.00 50.00	miles mph
Total Non-Roadable Mob/Demob Cost * '* two round trips with haul rig:	\$4,807.18	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$70.90	

Transportation Cycle Time:

	Non- Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.40	0.40
Return Time (Hours):	0.40	0.40
Loading Time (Hours):	0.66	NA
Unloading Time (Hours):	0.66	NA
Subtotals:	2.12	0.80

JOB TIME AND COST

Total job time: **4.24** Hours

Total job cost: _____\$4,878