

June 24, 2024

Jeffrey Jacoby Schmidt Construction Company 2635 Delta Dr. Colorado Springs, CO 80910

Re: Menzer Quarry - File No. M-1976-009-HR Schmidt Construction Company Surety Increase (SI-2) Surety Increase related to TR2

Dear Jeffrey Jacoby:

On June 24, 2024 the Division of Reclamation, Mining and Safety increased the current Financial Warranty for this permit to \$829,527.00, in accordance with Rule 4.2.1 of the Rules and Regulations. This is an increase of \$161,789.00.

Reclamation cost estimate updated after the approval of TR2 which revised the mining and blasting plan.

On June 24, 2024, the Division ordered amendment of the current Financial Warranty or submittal of a new Financial Warranty reflecting the increase, within 60 days.

Please make arrangements with Sara M. Stevenson-Benn at the Division's Denver office for submittal of the financial warranty. Any other questions regarding completion, execution and/or submittal of financial warranty forms should also be directed to Sara M. Stevenson-Benn by telephone at (303) 866-3567 (8148), or by email at Sara.stevenson-benn@state.co.us.

The Permittee for this site may be scheduled for a Formal Board Hearing for possible revocation of the permit if the amount of any increased Financial Warranty has not been provided by August 23, 2024.

Bond Held:	\$667,738.00
Prior Liability:	\$667,738.00
Change in Liability:	\$161,789.00



Revised Liability:	\$829,527.00
Prior Permit Acreage:	172.50
Change in Permit Acreage:	0.00
Revised Permit Acreage:	172.50
Prior Affected Acreage:	141.40
Change in Affected Acreage:	0.00
Revised Affected Acreage:	141.40

If you have any questions, please contact me by telephone at (303) 866-3567 x 8176, or by email at Hunter.ridley@state.co.us.

Sincerely,

Hunter C. Ridley

Hunter Ridley

Environmental Protection Specialist

Mark Heifner

M-GR-04

COST SUMMARY WORK

Task descrij	ption:	Cost Summary					
Site: Menzer Quarry		Pe	rmit Action: 2024 Update	Permit/Jo	Permit/Job#: M1976009HR		
PROJECT	IDENTIFIC	<u>CATION</u>					
Task #:	000	State:	Colorado	Abbreviation:	None		
Date:	5/18/2021	County:	El Paso	Filename:	M009-000		
User:	TC1						

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Mobilize/demobilize reclamation equipment	MOBILIZE	1	3.90	\$13,601
002	Repair and or clear roads to benches and topsoil stockpile	DOZER	1	8.64	\$3,861
003	Clean benches - move rock rubble to bench wall	DOZER	1	41.18	\$17,517
004	Haul backfill fines} to quarry benches - truck/loader operat	TRUCK1	1	100.69	\$174,923
005	Grade track dumped backfill to 5:1 on benches	DOZER	1	94.42	\$40,159
006	Haul topsoil from stockpiles to benches	TRUCK1	1	69.59	\$85,602
007	Remove plant foundations miscellaneous trash, debris{1.65%+)	NA	1	20.00	\$33,000
800	Rip the quarry floor	RIPPER	1	72.84	\$32,554
009	Haul growth medium to quarry floor & #10: grade w/ dozer	TRUCK1	1	104.81	\$124,022
011	Establish grades for riparian areas {1.65% infl. rate}	NA	1	4.00	\$2,640
012A	Broadcast grass seed mix on north facing quarry benches	REVEGE	1	45.00	\$10,373
012B	Broadcast grass seed mix on east facing quarry benches	REVEGE	1	45.00	\$10,023
012C	Broadcast grass seed mix on south facing quarry benches	REVEGE	1	25.00	\$5,694
013	Drill grass seed mix on quarry floor	REVEGE	1	100.00	\$43,384
014	Collect seed and broadcast on riparian areas {1.65% infl.}	NA	1	4.00	\$3,300
015	Plant trees on 6 acres of mine benches {operator supplied co	NA	1	4.00	\$2,970
016	Stain bench highwalls, visual impact benches only (operator	NA	1	20.00	\$37,274
017	Grade topsoil stockpile and quarry bench access road areas	DOZER	1	10.30	\$4,381
018	Broadcast seed - graded haul road areas	REVEGE	1	10.00	\$3,702
		SUBTO	OTALS:	783.37	\$648,980

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02 Total = \$13,109

 Performance bond:
 1.05
 Total =
 \$6,814

 Job superintendent:
 391.68
 Total =
 \$25,491

 Profit:
 10.00
 Total =
 \$64,898

TOTAL O & P = $\frac{$110,312}{$759,292}$

CONTRACT AMOUNT (direct + O & P) = \$75

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): \$0 Total = \$0 Engineering work and/or contract/bid preparation: 4.25 Total = \$32,270 Reclamation management and/or administration: 5.00 \$37,965

CONTINGENCY: 0.00 Total = \$0

TOTAL INDIRECT COST = \$180,547

TOTAL BOND AMOUNT (direct + indirect) = \$829,527

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description: Mo	bilize/demobilize	e reclamation equ	ipment	
te: Menzer Quarry	Permit	t Action:2021 U	pdate Permit/J	ob#: <u>M1976009HR</u>
PROJECT IDENTIFICATI	<u>ON</u>			
Task #:001		olorado	Abbreviation:	
Date: 5/19/2021 User: TC1	County: E	l Paso	Filename:	M009-001
Agency or organization	n name: DRMS	S		
EQUIPMENT TRANSPOR	T RIG COST			
			Shift basis: Cost Data Source:	1 per day CRG Data
Truck Tractor Desc	ription: GENI	ERIC ON-HIGHW	AY TRUCK TRACTOR, 6X4 400 HP (2ND HALF, 2006)	, DIESEL POWERED,
Truck Trailer Desc	ription: C		NG GOOSENECK, DROP DE RAILER (25T, 50T, AND 100T	-
Cost Breakdown:				
Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons	
Ownership Cost/Hour:	\$20.26	\$36.04	\$47.05	
Operating Cost/Hour:	\$39.51	\$76.08	\$82.85	
Operator Cost/Hour:	\$22.52	\$22.52	\$22.52	

NON ROADABLE EQUIPMENT:

Total Unit Cost/Hour:

Helper Cost/Hour:

\$0.00

\$82.29

Machine	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return Trip	DOT Permit
Description	Unit	Cost/hr/ unit	Cost/hr/uni	Size	Cost/hr/	Cost/hr/ fleet	Cost/ fleet
	(TONS)		t		fleet		
Cat D8T - 8SU	53.08	\$255.49	\$175.95	1	\$431.44	\$175.95	\$250.00
Cat 770D	37.54	\$106.52	\$158.17	5	\$1,323.45	\$790.85	\$1,250.00
CAT 990H	83.34	\$77.20	\$175.95	1	\$253.15	\$175.95	\$250.00
Water Tanker, 5,000 Gal.	15.00	\$57.13	\$82.29	1	\$139.42	\$82.29	\$250.00
CAT 14M	23.57	\$149.33	\$82.29	1	\$231.62	\$82.29	\$250.00
Drill/Broadcast	25.00	\$6.73	\$82.29	1	\$89.02	\$82.29	\$250.00
Seeder with							
Tractor							

\$23.53

\$158.17

\$23.53

\$175.95

Subtotals: \$2,468.10 \$1,389.62 \$2,500.00

ROADABLE EQUIPMENT:

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

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region: COLORADO SPRINGS
Total one-way travel distance: 19.00 miles
Average Travel Speed: 40.00 mph

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.48	0.48
Return Time (Hours):	0.48	0.48
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.95	0.95

JOB TIME AND COST

Total job cost: 3.90 Hours

Total job cost: \$13,601

BULLDOZER WORK

Task description: Repair and or clear roads to benches and topsoil stockpile						
: Menzer Quarry	,	Per	mit Action:	2021 Update	Permit/Job#:	M1976009HF
PROJECT IDE	NTIFICATIO	<u>N</u>				
Task #: 002		State:	Colorado		Abbreviation:	None
Date: 5/18/	2021	County:	El Paso		Filename:	M009-002
User: TC1		·			-	
Agency o	r organization na	me: DF	RMS			
HOURLY EQU	IPMENT COS	<u>ST</u>				
Basic Machine:	Cat D8T - 8S	U		<u></u>		
Horsepower:	310					
Blade Type:	Semi-Univers			<u> </u>		
Attachment:	3-shank rippe	r		<u>—</u>		
Shift Basis:	1 per day			_		
Data Source:	(CRG)			<u> </u>		
Cost Breakdown:				1		
				<u>Utilization %</u>		
Ownership Cost/I			\$241.38	NA		
Operating Cost/I			\$143.92	100		
Ripper own. Cost/I			\$14.11	NA 100		
Ripper op. Cost/I	· · · · · · · · · · · · · · · · · · ·		\$7.45	100		
Operator Cost/I	Hour:		\$40.04	NA		
Initial Volume: Swell factor:	2,037 1.215		_			
Loose volume:	2,475 LCY					
Source of estimated Source of estimated HOURLY PRO	d swell factor:	AM-03 C Cat Hand	CIRCES worl lbook	ksheet		
		0.64				
Average push dista Unadjusted hourly		0 feet ,400.0 LC	Y/hr			
Materials consister	acy description:	Consol	idated stock	pile 1.0		
Average push grad Average site altitud		eet				
Material weight:		os/LCY			_	
Weight description	: Decomp	osed rock	- 75% Rock	, 25% Earth		
Job Condition Corn Ope	rection Factor erator Skill:	0.	.750	Source (AVG.)		
	consistency:		.000	(CAT HB)		
Dozi	ng method:		.000	(GEN.)		
	Visibility:	1.	.000	(AVG.)		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.600	(FND-SF)
Push gradient:	0.786	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.697	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.2046

Adjusted unit production: 286.44 LCY/hr
Adjusted fleet production: 286.44 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$1.560/LCY

Total job time: 8.64 Hours
Total job cost: \$3,861

BULLDOZER WORK

Task description:	Clean	benches - move rock i	rubble to bench wall		
Menzer Quarry		Permit Action:	2021 Update	Permit/Job#:	M1976009HR
PROJECT IDEN	TIFICATIO	<u>ON</u>			
Task #: 003		State: Colorado		Abbreviation:	None
Date: $\frac{-5/18}{2}$	2021	County: El Paso		Filename:	M009-003
User: TC1		, <u> </u>		-	
Agency or	organization n	name: DRMS			
HOURLY EQUI	PMENT CO	<u>ST</u>			
Basic Machine:	Cat D8T - 85	SU	<u></u>		
Horsepower:	310				
Blade Type:	Semi-Univer	rsal			
Attachment:	NA		<u></u>		
Shift Basis:	1 per day		<u></u>		
Data Source:	(CRG)				
Cost Breakdown:					
			Utilization %		
Ownership Cost/H	our:	\$241.38	NA		
Operating Cost/H		\$143.92	100		
Ripper own. Cost/H	our:	\$0.00	NA		
Diaman an Cast/II	our:	\$0.00	0		
Ripper op. Cost/H					
Ripper op. Cost/H Operator Cost/H Total unit Cost/Hou	r: \$425.3		NA NA		
Operator Cost/H	r: \$425.3	4	NA NA		
Operator Cost/H Total unit Cost/Hou	r: \$425.3 \$425.3	4	NA NA		
Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU	r: \$425.3 ur: \$425.3 ANTITIES	4	NA NA		
Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume:	r: \$425.3 ur: \$425.3 ANTITIES 23,518	4	NA NA		
Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor:	r: \$425.3 ur: \$425.3 4ANTITIES 23,518 1.000	4	NA NA		
Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume:	r: \$425.3 ur: \$425.3 ANTITIES 23,518	4 4			
Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated	r: \$425.3 ur: \$425.3 ANTITIES 23,518 1.000 23,518 LCY volume:	4 4 Division of Reclamate			
Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor: Loose volume:	r: \$425.3 ur: \$425.3 ANTITIES 23,518 1.000 23,518 LCY volume:	4 4			
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Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distant	r: \$425.3 ur: \$425.3 4425.3 ANTITIES 23,518 1.000 23,518 LCY volume: swell factor: DUCTION ace:	Division of Reclamate Cat Handbook 50 feet 1,400.0 LCY/hr	ion, Mining & Safety		
Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distan Unadjusted hourly p	r: \$425.3 sur: \$425.3 \$425.3 ANTITIES 23,518 1.000 23,518 LCY volume: swell factor: DUCTION ace: production: by description: ent: 0 %	Division of Reclamate Cat Handbook 50 feet 1,400.0 LCY/hr Loose stockpile 1.2	ion, Mining & Safety		
Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distan Unadjusted hourly p Materials consistence Average push gradie	r: \$425.3 sur: \$425.3 \$425.3 ANTITIES 23,518 1.000 23,518 LCY volume: swell factor: DUCTION ace: broduction: ey description: ent: 0 % 6,975 f	Division of Reclamate Cat Handbook 50 feet 1,400.0 LCY/hr Loose stockpile 1.2	ion, Mining & Safety		
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Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distant Unadjusted hourly publicated Materials consistence Average push gradie Average site altitude Material weight: Weight description: Job Condition Corres	r: \$425.3 ur: \$425.3 \$425.3	Division of Reclamate Cat Handbook 50 feet 1,400.0 LCY/hr Loose stockpile 1.2	ion, Mining & Safety		
Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distant Unadjusted hourly publicated Materials consistence Average push gradie Average site altitude Material weight: Weight description: Job Condition Corres	r: \$425.3 ur: \$425.3 \$425.3 \$425.3 ANTITIES 23,518 1.000 23,518 LCY volume: swell factor: DUCTION ace: broduction: cy description: ent: 0 % 6,975 f 2,950 1 Trapro rection Factor rator Skill:	Division of Reclamate Cat Handbook 50 feet 1,400.0 LCY/hr Loose stockpile 1.2 feet lbs/LCY ck - broken	ion, Mining & Safety		
Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distant Unadjusted hourly p Materials consistence Average site altitude Material weight: Weight description: Job Condition Correct Oper Material co	r: \$425.3 ur: \$425.3 \$425.3 \$425.3 ANTITIES 23,518 1.000 23,518 LCY volume: swell factor: DUCTION ace: broduction: cy description: ent: 0 % 6,975 f 2,950 1 Trapro rection Factor rator Skill:	Division of Reclamate Cat Handbook 50 feet 1,400.0 LCY/hr Loose stockpile 1.2 feet lbs/LCY ck - broken 0.750	Source (AVG.)		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.700	(FND-MF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.780	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4079

Adjusted unit production: 571.06 LCY/hr
Adjusted fleet production: 571.06 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.745/LCY

Total job time: 41.18 Hours
Total job cost: \$17,517

TRUCK/LOADER TEAM WORK

Site: Menzer Quarry	7	Permit Action	on: 2021 Update	2	Permit/Job#: M	1976009HR
PROJECT IDE	NTIFICATION					
Task #: 004	MINICATION	State: Colora	ado	Ah	breviation: No	ne
	/2021	County: El Pas				009-004
User: TC1		<u> </u>				
Agency of	or organization nar	me: DRMS				
HOURLY EQU	IPMENT COST	<u>r</u>		Shift bas	is: 1 per day	
	Truck Loader Tea		Equipment Descri 770D	ption		
	Truck Loader Tea		T 990H high lift			
Sup	port Equipment -I	oad Area: NA				
		ump Area: NA	T 1 1 1 1			
Road N	Maintenance –Mot -Wa		T 14M ter Tanker, 5,000	Gal.		
		Trucit, via	14411101, 0,000	<u> </u>		
Cost Breakdown:		ader Team		Equipment		ce Equipment
	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
% Utilization-machine:	100	100	NA	NA	100	100
Ownership cost/hour:	\$106.52	\$77.20	NA	NA	\$149.33	\$57.13
Operating cost/hour:	\$86.75	\$120.94	NA	NA	\$92.79	\$66.49
%Utilization-riper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	NA	NA	\$0.00	\$0.00
Ripper op. cost/hour:	NA	\$0.00	NA	NA NA	\$0.00	\$0.00
Operator cost/hour:	\$24.82	\$35.97	NA NA	NA NA	\$46.87	\$0.00
Unit Subtotals: Number of Units:	\$218.09	\$234.11	NA 0	NA 0	\$288.99	\$123.62
Group Subtotals:	Work:	\$1,324.56	Support:	\$0.00	1 Maint:	\$412.61
•	II.	<u> </u>	Support.	\$0.00	Maint.	\$412.01
Total work team co	ost/hour: \$1,737.	<u> 17 </u>				
MATERIAL Q	TANTITIES					
Initial volum Loose volum		CCY 2 LCY		factor: 1.000		
	ource of estimated e of estimated		03 CIRCES works Handbook	sheet		
Sourc	Material Purch					
		otal Cost: \$0.00				
HOURLY PRO	<u>ODUCTION</u>					
Truck Capacity:						
Truck Payload (we			D 1 7 CV			
Material	weight: 2,850 Sand -	Damp	Pounds/LCY			
	Payload: 82,000		Pounds			
Payload C			LCY			

Truck Travel (Haul & Return) Time:

maintained 3.0

Tought Dad (wal) Day'y						
<u>Truck Bed (volume) Basis:</u> Struck Volume:	21.60 L	CY				
Heaped Volume:		CY				
Average Volume:		CY				
Adjusted Volume:		CY				
Final	Truck Volume E	Based on Number of	f Loader Passes:	24.75	LCY	
Loading Tool Capacity						
Rated Capacity:	11.250	LCY (heaped)	Buck	tet Size Class: N	VA.	_
Bucket Fill Factor:	1.100	Other - rock/dir	t mixtures (100.	-120%) 1.100		_
Adjusted Capacity:	12.375	LCY	t illixtures (100-	-120/0) 1.100		_
Job Condition Corrections	,		te Altitude (ft.): <u>6</u>	075 foot		
Job Condition Corrections.				1 <u>973</u> 1001		
Altitudo Adi	1.000	Loader	Source (CAT HB	`		
Altitude Adj: Job Efficiency:	0.830	1.000 0.830	(CAT HB	,		
Job Efficiency.	0.030	0.030	(C/TT IIB	<i>)</i>		
Net Correction:	0.830	0.830				
Loading Tool Cycle Time:		of Loading Tool Pa			2	passes
Machine Cycle Time v Selected Value Track Loaders –	within this Basic	Rating: NA				
Cycle Time Elements (min.):						
Load: NA	Ma	neuver: NA		Dump: 0.100)	
Wheel and Track Loaders -	Unadjusted Basi	ic Loader Cycle Tir	ne (load, dump, n	naneuver):0	0.600 min	utes
Cycle Time Factors				Factor (min.)	Source	
Material:		1/8" diameter 0.02		0.020	(Cat HB)	
Stockpile:	Dumped by tru			0.020	(Cat HB)	_
Truck Ownership:		ership of trucks and	loaders -0.04	-0.040	(Cat HB)	_
Operation:	Constant opera			-0.040	(Cat HB)	_
Dump Target:	Small target 0.0		ne Adjustment:	0.040	(Cat HB) minutes	_
		Adjusted Load		0.600	minutes	
			ime per Truck:	0.700	minutes	
Truck Cycle Time:						
Truck Exchange Time	: 0.60	Minutes	Adjusted	for site altitude:	0.600	Minutes
Truck Load Time	: 0.700	Minutes	Adjusted	for site altitude:	0.700	Minutes
ack Maneuver and Dump Time	: 1.00	Minutes	Adjusted	for site altitude:	1.000	Minutes
		-		_		_

Road Condition: Firm, smooth, rolling, dirt/lt. surfaced, watered,

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1840.00	7.00	3.00	10.00	834	2.247
2	1840.00	1.00	3.00	4.00	2051	1.121

Seg	Haul Distance (Ft)	Grade (%)	Roll. Res	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1840.00	-1.00	3.00	2.00	4254	0.745
2	1840.00	-7.00	3.00	-4.00	3893	0.515

Return Time: 1.260 minutes
Total Truck Cycle Time: 6.928 minutes

Loading Tool unit

Production 1,142.31 LCY/Hour Adjusted for job efficiency: 948.12 LCY/Hour

Truck Unit Production
214.35 LCY/Hour Adjusted for job efficiency: 177.91 LCY/Hour

Optimal No. of Trucks: 5 Truck(s) Selected Number of Trucks: 5 Truck(s)

Adjusted hourly truck team production: 889.54 LCY/Hour Adjusted single truck/loader team production: 889.54 LCY/Hour Adjusted multiple truck/loader team production: 889.54 LCY/Hour

JOB TIME AND COST

Fleet size: 1 Team(s) Total job time: 100.69 Hours

Unit cost: \$1.953 /LCY Total job cost: \$174,923

BULLDOZER WORK

Task description:	Grad					
Menzer Quarry		Perr	mit Action:	2021 Update	_ Permit/Job#:	M1976009HR
PROJECT IDEN	TIFICATIO	<u>ON</u>				
Task #: 005		State:	Colorado		Abbreviation:	None
Date: 5/18/2	2021	County:	El Paso		Filename:	005
User: TC1		•			-	
Agency or	organization	name: DR	RMS			
HOURLY EQUI	PMENT CO	<u>OST</u>				
Basic Machine:	Cat D8T - 8	SU				
Horsepower:	310			<u> </u>		
Blade Type:	Semi-Unive	ersal		<u>—</u>		
Attachment:	NA 1 man days			<u> </u>		
Shift Basis: Data Source:	1 per day (CRG)			<u> </u>		
	(CRO)			<u>—</u>		
Cost Breakdown:				Utilization %		
Ownership Cost/H	lour:		\$241.38	NA		
Operating Cost/H			\$143.92	100		
Ripper own. Cost/H			\$0.00	NA		
			\$0.00	0		
Ripper op. Cost/H	lour:		\$0.00			
Ripper op. Cost/F Operator Cost/F Total unit Cost/Hot Total Fleet Cost/Hot	four: \$425.3 ur: \$425.3		\$40.04	NA		
Ripper op. Cost/F Operator Cost/F Total unit Cost/Hot Total Fleet Cost/Hot MATERIAL OU Initial Volume:	four: \$425.3 ur: \$425.3 ANTITIES 44,097			NA		
Ripper op. Cost/F Operator Cost/F Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU	four: \$425.3 sur: \$425.3 ANTITIES			NA		
Ripper op. Cost/F Operator Cost/F Total unit Cost/Hot Total Fleet Cost/Hot MATERIAL OU Initial Volume: Swell factor:	four: \$425.3 ar: \$425.3 ANTITIES 44,097 1.000 44,097 LCY volume:	34	\$40.04			
Ripper op. Cost/F Operator Cost/F Total unit Cost/Hot Total Fleet Cost/Hot MATERIAL OU Initial Volume: Swell factor: Loose volume: Source of estimated	four: \$425.3 SANTITIES 44,097 1.000 44,097 LCY volume: swell factor:	AM-03 C	\$40.04			
Ripper op. Cost/F Operator Cost/F Operator Cost/F Total unit Cost/Hot Total Fleet Cost/Hot MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROI Average push distant	four: \$425.3 SANTITIES 44,097 1.000 44,097 LCY volume: swell factor: DUCTION nce: \$425.3	AM-03 C Cat Hand	\$40.04			
Ripper op. Cost/F Operator Cost/F Total unit Cost/Hot Total Fleet Cost/Hot MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated	four: \$425.3 ar: \$425.3 ar: \$425.3 ANTITIES 44,097 1.000 44,097 LCY volume: swell factor: DUCTION nce: production:	AM-03 C Cat Hand 50 feet 1,400.0 LC	\$40.04	ksheet		
Ripper op. Cost/F Operator Cost/F Operator Cost/F Total unit Cost/Hot Total Fleet Cost/Hot MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROI Average push distant Unadjusted hourly	four: ar: \$425.3 ar: \$425.3	AM-03 C Cat Hand 50 feet 1,400.0 LC	\$40.04 IRCES Wordbook	ksheet		
Ripper op. Cost/F Operator Cost/F Operator Cost/F Total unit Cost/Hot Total Fleet Cost/Hot MATERIAL OU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROI Average push distant Unadjusted hourly p Materials consisten Average push gradi	four: ar: \$425.3 ar: \$425.3	AM-03 C Cat Hand 50 feet 1,400.0 LC	\$40.04 IRCES Wordbook	ksheet		
Ripper op. Cost/F Operator Cost/F Operator Cost/F Total unit Cost/Hot Total Fleet Cost/Hot MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROI Average push distant Unadjusted hourly push Materials consisten Average push gradi Average site altitud	four: \$425.3 \$425.3 \$425.3 \$425.3 \$425.3 \$44,097 1.000 44,097 LCY volume: swell factor: DUCTION nce: production:	AM-03 C Cat Hand 50 feet 1,400.0 LC Loose s	\$40.04 IRCES Wordbook	ksheet		
Ripper op. Cost/F Operator Cost/F Operator Cost/F Total unit Cost/Hot Total Fleet Cost/Hot MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated FOURLY PROI Average push distat Unadjusted hourly push Materials consisten Average push gradi Average site altitud Material weight: Weight description: Job Condition Corr	four: ar: \$425.3 ar: \$425.3	AM-03 C Cat Hand 50 feet 1,400.0 LCY Loose s feet lbs/LCY Dry, loose	\$40.04 IRCES Wordshook Y/hr stockpile 1.2	ksheet		
Ripper op. Cost/F Operator Cost/F Operator Cost/F Total unit Cost/Hot Total Fleet Cost/Hot MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROI Average push distar Unadjusted hourly p Materials consisten Average push gradi Average site altitud Material weight: Weight description: Job Condition Corr Ope	four: ar: \$425.3 ar: \$425.3	AM-03 C Cat Hand 50 feet 1,400.0 LCY Loose s feet lbs/LCY Dry, loose 0.	\$40.04 Stockpile 1.2	ksheet Source (AVG.)		
Ripper op. Cost/F Operator Cost/F Operator Cost/F Total unit Cost/Hot Total Fleet Cost/Hot MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated FOURLY PROI Average push distant Unadjusted hourly published hourly published Materials consistent Average push grading Average site altitude Material weight: Weight description: Job Condition Correct Operator Operator Total unit Cost/Fourier Total	four: ar: \$425.3 ar: \$425.3	AM-03 C Cat Hand 50 feet 1,400.0 LCY Loose s feet lbs/LCY Dry, loose 0. 1.	\$40.04 IRCES Wordshook Y/hr stockpile 1.2	ksheet		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.700	(FND-MF)
Push gradient:	0.666	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.958	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3336

Adjusted unit production: 467.04 LCY/hr
Adjusted fleet production: 467.04 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.911/LCY

Total job time: 94.42 Hours
Total job cost: \$40,159

TRUCK/LOADER TEAM WORK

Task description:	Haul to	psoil from stockp	iles to benches			
Site: Menzer Quarry		Permit Action	on: 2021 Update	<u>e</u>]	Permit/Job#: M	11976009HR
PROJECT IDEN	NTIFICATION	[
Task #: 006		State: Colora		Ab	breviation: No	
Date: <u>5/18/</u>	2021	County: El Pas	0		Filename: Mo	009-006
User: TC1						
Agency of	r organization nar	ne: DRMS				
HOURLY EQUI	IPMENT COST	_	Equipment Descri		is: 1 per day	
-	Truck Loader Tea		770D	puon		
		-Loader: CAT	Γ990H high lift			
Supp	oort Equipment -L					
Road M	Iaintenance –Mot					
			er Tanker, 5,000	Gal.		
Cost Breakdown:	Truck/Loa	ader Team	Support I	Equipment	Maintenai	nce Equipment
	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	100	NA	NA	NA	100
Ownership cost/hour:	\$106.52	\$77.20	NA	NA	NA	\$57.13
Operating cost/hour:	\$86.75	\$120.94	NA	NA	NA	\$66.49
%Utilization-riper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	NA	NA	NA	\$0.00
Ripper op. cost/hour:	NA	\$0.00	NA	NA	NA	\$0.00
Operator cost/hour:	\$24.82	\$35.97	NA	NA	NA	\$0.00
Unit Subtotals:	\$218.09	\$234.11	NA	NA	NA	\$123.62
Number of Units:	4	1	0	0	0	1
Group Subtotals:	Work:	\$1,106.47	Support:	\$0.00	Maint:	\$123.62
Total work team co		09				
Initial volume		CCY	Swell	factor: 1.000		
Loose volume	e: 56,94	LCY				
	ource of estimated e of estimated swe Material Purch	ell factor: Cat H	03 CIRCES Work landbook	sheet		
	To	otal Cost: \$0.00				
HOURLY PRO	DUCTION					
Truck Capacity:						
Truck Payload (we						
Material			Pounds/LCY			
Desc Rated P		posed rock - 25%	Rock, 75% Earth Pounds	1		
Payload Ca			LCY			

Truck Bed (volume) Basis:						
Struck Volume:	21.60 I	CY				
Heaped Volume:		CY				
Average Volume:		.CY				
Adjusted Volume:	30.94 I	CY				
Final	Truck Volume I	Based on Number of	Loader Passes:	31.22	LCY	
Loading Tool Capacity						
			Buck	tet Size Class: N	A	_
Rated Capacity: _	11.250	LCY (heaped)				_
Bucket Fill Factor:	0.925		1/8" to 3/8" (90	- 95%) 0.925		=
Adjusted Capacity: _	10.406	LCY				
Job Condition Corrections:	<u>'-</u>	Sit	e Altitude (ft.): 6	<u>1975</u> feet		
	Truck	Loader	Source			
Altitude Adj:	1.000	1.000	(CAT HB)		
Job Efficiency:	0.830	0.830	(CAT HB)		
Net Correction:	0.830	0.830				
Loading Tool Cycle Time:		of Loading Tool Pas	ses Required to I	Fill Truck:	3 1	passes
Excavators and Front Shove	<u>ls:</u>					
Machine Cycle Time v Selected Value v						
Track Loaders –	Material Descrip	otion:				
Cycle Time Elements (min.):	-					
Load: NA	Ma	neuver: NA		Dump: 0.100		
Wheel and Track Loaders -	Unadiusted Bas	ic Loader Cycle Tin	ne (load, dump, n	naneuver): 0.	600 min	utes
Cycle Time Factors	 			Factor (min.)	Source	
Material:	Mixed materia	1 0.02		0.020	(Cat HB)	_
Stockpile:	Dumped by tru			0.020	(Cat HB)	_
Truck Ownership:		ership of trucks and	loaders -0.04	-0.040		
Operation:	Constant opera	tion -0.04		0.040	(Cat HB)	
Dump Target:	Small target 0.	111011 -0.0-		-0.040	(Cat HB) (Cat HB)	
	Billali target 0.			0.040		
	Sman target o.		e Adjustment:	0.040 0.000	(Cat HB)	
	Sman target 0.	04 Net Cycle Tim Adjusted Loade	er Cycle Time:	0.040 0.000 0.600	(Cat HB) (Cat HB) minutes minutes	
	Sman target o.	04 Net Cycle Tim Adjusted Loade	-	0.040 0.000	(Cat HB) (Cat HB) minutes	
Truck Cycle Time:	Sman target v.	04 Net Cycle Tim Adjusted Loade	er Cycle Time:	0.040 0.000 0.600	(Cat HB) (Cat HB) minutes minutes	
Truck Cycle Time: Truck Exchange Time		04 Net Cycle Tim Adjusted Loade	er Cycle Time: _ me per Truck: _	0.040 0.000 0.600	(Cat HB) (Cat HB) minutes minutes	Minute:
·	: 0.60	04 Net Cycle Tim Adjusted Loade Net Load Ti	er Cycle Time: _ me per Truck: _ Adjusted	0.040 0.000 0.600 1.300	(Cat HB) (Cat HB) minutes minutes minutes	Minute: Minute:

<u>Truck Travel (Haul & Return) Time:</u> Road Condition: <u>Firm, smooth, rolling, dirt/lt. surfaced, watered, maintained 3.0</u>

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1875.00	5.00	3.00	8.00	1057	1.842
2	1300.00	0.00	3.00	3.00	2754	0.889

Haul Time: 2.731 minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1300.00	0.00	3.00	3.00	4074	0.662
2	1875.00	-5.00	3.00	-2.00	4254	0.477

Return Time: 1.139 minutes
Total Truck Cycle Time: 6.770 minutes

Loading Tool unit

Production 985.86 LCY/Hour Adjusted for job efficiency: 818.26 LCY/Hour

Truck Unit Production

276.68 LCY/Hour Adjusted for job efficiency: 229.64 LCY/Hour

Optimal No. of Trucks: 4 Truck(s) Selected Number of Trucks: 4 Truck(s)

Adjusted hourly truck team production: 918.58 LCY/Hour Adjusted single truck/loader team production: 818.26 LCY/Hour Adjusted multiple truck/loader team production: 818.26 LCY/Hour

JOB TIME AND COST

Fleet size: 1 Team(s) Total job time: 69.59 Hours

Unit cost: \$1.503 /LCY Total job cost: \$85,602

BULLDOZER RIPPING WORK

	Task description:	Rip	the quarry floor					_
Site	: Menzer Quar	ry	Permit Action:	2021 Update		Permit/Job#	: <u>M1976009H</u>	íR
	PROJECT IDI	ENTIFICATI	ION					
	Task #: 008 Date: 5/1 User: TC	8/2021	State: Colorado County: El Paso	,	Abl	breviation: Filename:	None M009-008	
			n name: DRMS					
	HOURLY EQ	•	·					
					II		210	
	Ripper Att		t D8T - 8SU Shank Ripper		Horsepower: Shift Basis:		oer day	
	11				Data Source:		CRG)	
	Cost Breakdown:	<u>.</u>						
		Orren amahim C	lost/Houm	\$241.38	Utilization %			
		Ownership C Operating C		\$241.38 \$143.92	NA 100	_		
	Rippe	er Ownership C		\$14.11	NA	<u> </u>		
	Ripp	per Operating C		\$7.45	100	_		
		Operator C Total Unit C		\$40.04 \$446.90	NA			
				<u> </u>				
		Total Fleet C	cost/Hour: \$4	46.90				
	MATERIAL C	<u>)UANTITIES</u>	Se Se	lected estimating	g method: Are	ea		_
	Alternate Method	<u>ls:</u>						
Seismic:	NA		Bank Volume:	NA	BCY		NA	
Area:	49.70	acres	Rip Depth (ft):	1.50	Volume:	120,274	ВС	CY or CC
		Source of esti	mated quantity: AM-0	3 CIRCES Wor	rksheet			
	HOURLY PRO	ODUCTION						
	Seismic:							
	<u>Belsime.</u>		Seismic Velocity:	NA	feet/se	cond		
	Area:							
	<u>- 11 0 41 1</u>	Avera	ge Ripping Depth:	2.56	feet/pa	iss		
			ge Ripping Width:	7.08	feet/pa			
		_	e Ripping Length: rage Dozer Speed:	500.00 88.00	feet/pa feet/m			
			e Maneuver Time:	0.25	minute			
		Produc	ction per unit area:	0.822	acres/h	nour		
	Job Condition Co	orrection Factor	<u>s</u>					
	Un	adjusted Hourly	y Unit Production:	0.822	Acres/	hr		
			Site Altitude:	6,975	feet			
			Altitude Adj:	1.00	(CAT	HB)		
			Job Efficiency:	0.83	(1 shif			
			Net Correction:	0.83	multip	lier		
			Hourly Unit Production Hourly Fleet Production		Acres/hr Acres/hr			
	JOB TIME AN	ND COST						
	Fleet size:	1	_ Grader(s)	Total job tin	me:	72.84	Hours	
	Unit cost:	\$655.018	Per acre	Total job co	ost: \$	832,554		

TRUCK/LOADER TEAM WORK

Site: Menzer Quarry		Permit Acti	on: 2021 Update	e	Permit/Job#: M	1976009HR
PROJECT IDEN	TIFICATION	,				
Task #: 009	(11110111101)	- State: Color	ado	Ah	breviation: No	ne.
Date: 5/19/2	2021	County: El Pas				09-009
User: TC1						
Agency or	organization nar	ne: DRMS				
HOURLY EQUI	PMENT COST	<u>r</u>		Shift bas	is: 1 per day	
	г 1 т 1 т		Equipment Descri	ption		
_	Fruck Loader Tea		770D T 990H high lift			
Supp	ort Equipment -L					
			D8T - 8SU			
Road M	laintenance –Mot		ter Tanker, 5,000	Col		
	- vv a	ner fruck: wa	ter Tanker, 5,000	Gai.		
Cost Breakdown:	Truck/Loa	ader Team	Support I	Equipment	Maintenan	ce Equipment
	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
% Utilization-machine:	100	100	NA	75	NA	100
Ownership cost/hour:	\$106.52	\$77.20	NA	\$241.38	NA	\$57.13
Operating cost/hour:	\$86.75	\$120.94	NA	\$107.94	NA	\$66.49
% Utilization-riper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	NA	\$0.00	NA	\$0.00
Ripper op. cost/hour:	NA	\$0.00	NA	\$0.00	NA	\$0.00
Operator cost/hour:	\$24.82	\$35.97	NA	\$40.04	NA	\$0.00
Unit Subtotals:	\$218.09	\$234.11	NA	\$389.36	NA	\$123.62
Number of Units:	2	1	0	1	0	1
Group Subtotals:	Work:	\$670.29	Support:	\$389.36	Maint:	\$123.62
Total work team co	st/hour: \$1,183.	27				
MATERIAL QU	ANTITIES					
Initial volume	,	CCY		factor: 1.000		
Loose volume	: 75,82	LCY				
So	ource of estimated	volume: AM-	03 CIRCES Work	sheet		
Source	of estimated swe		Handbook			
	Material Purch	ase Cost: \$0.0 otal Cost: \$0.0				
	10		0			
HOURLY PRO	DUCTION					
Truck Capacity:						
Truck Payload (wei	ght) Basis:					
Material v			Pounds/LCY			
Material v	ription: Decom	•	Pounds/LCY Rock, 75% Earth Pounds			

Struck Volume:	21.60	LCY				
Heaped Volume:	31.70	LCY				
Average Volume:	26.65	LCY				
Adjusted Volume: _	30.94	LCY				
Fina	l Truck Volume	e Based on Number	of Loader Passes:	31.22	LCY	
Loading Tool Capacity						
				ket Size Class:	NA	
Rated Capacity:	11.250	LCY (heaped				
Bucket Fill Factor:	0.925		al - 1/8" to 3/8" (90) - 95%) 0.925		
Adjusted Capacity:	10.406	LCY				
Job Condition Corrections	S <u>:</u>		Site Altitude (ft.):	6975 feet		
	Truck	Loader	Source	!		
Altitude Adj:	1.000	1.000	(CAT HI			
Job Efficiency:	0.830	0.830	(CAT HI	3)		
Net Correction:	0.830	0.830				
Loading Tool Cycle Time	<u>:</u> Numbe	er of Loading Tool I	Passes Required to	Fill Truck:	3	passes
			-			passes
Excavators and Front Shov	els:		-			passes
Excavators and Front Shov Machine Cycle Time		on Rating: NA	·		-	pusses
	vs. Job Condition		-			pusses
Machine Cycle Time	vs. Job Condition within this Bas	ic Rating: NA				passes
Machine Cycle Time Selected Value Track Loaders -	vs. Job Condition within this Base - Material Desc	ic Rating: NA				pusses
Machine Cycle Time Selected Value Track Loaders -	vs. Job Condition within this Base - Material Descential Descentia	ic Rating: NA			.100	pusses
Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min. Load: NA	vs. Job Condition within this Base Material Descent Material Descent Material Descent	ription: NA Maneuver: NA	Fime (load, dumn)	Dump: 0	.100	
Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min. Load: NA Wheel and Track Loaders	vs. Job Condition within this Base Material Descent Material Descent Material Descent	ription: NA Maneuver: NA	Γime (load, dump,	Dump: 0	.100 	nutes
Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min. Load: NA Wheel and Track Loaders Cycle Time Factors	vs. Job Condition within this Base - Material Descent : - Unadjusted B	ription: NA Maneuver: NA asic Loader Cycle 1	Γime (load, dump,	Dump: 0 maneuver): Factor (min.	.100 mi Source	
Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min. Load: NA Wheel and Track Loaders Cycle Time Factors Material:	vs. Job Condition within this Base - Material Descent: - Unadjusted Box - Mixed material Mixed material Descent - Mixed	ription: NA Maneuver: NA asic Loader Cycle 7 rial 0.02	Γime (load, dump,	Dump: 0 maneuver): Factor (min. 0.020	.100 mi 0.600 mi) Source (Cat HB)	
Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min. Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile:	vs. Job Condition within this Base - Material Description: - Unadjusted B Mixed material Dumped by	Maneuver: NA ription: NA Maneuver: NA asic Loader Cycle 7 rial 0.02 truck 0.02		Dump: 0 maneuver): Factor (min. 0.020 0.020	.100 mi: 0.600 mi: Source (Cat HB) (Cat HB)	
Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min. Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership:	vs. Job Condition within this Base - Material Descent: - Unadjusted B Mixed mater Dumped by Common ow	Maneuver: NA asic Loader Cycle Trial 0.02 truck 0.02 vnership of trucks an		Dump: 0 maneuver): Factor (min. 0.020	.100 mi.) Source (Cat HB) (Cat HB) (Cat HB)	
Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min. Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	vs. Job Condition within this Base - Material Description: - Unadjusted B Mixed material Dumped by	Maneuver: NA ription: NA Maneuver: NA asic Loader Cycle The control of truck 0.02 vership of trucks and control of trucks and co		Dump: 0 maneuver): Factor (min. 0.020 0.020	.100 mi: 0.600 mi: Source (Cat HB) (Cat HB)	
Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min. Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership:	vs. Job Condition within this Base - Material Describ: - Unadjusted B Mixed mater Dumped by Common ow Constant open	Maneuver: NA asic Loader Cycle Trial 0.02 truck 0.02 vnership of trucks are artion -0.04 get 0.00		Dump: 0 maneuver): Factor (min. 0.020	.100 min) Source (Cat HB) (Cat HB) (Cat HB) (Cat HB)	
Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min. Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	vs. Job Condition within this Base - Material Describ: - Unadjusted B Mixed mater Dumped by Common ow Constant open	Maneuver: NA ription: NA Maneuver: NA asic Loader Cycle The control of the cycle Th	nd loaders -0.04	Dump: 0 maneuver): Factor (min. 0.020 0.020 -0.040 -0.040 0.000	.100 min) Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	
Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min. Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	vs. Job Condition within this Base - Material Describ: - Unadjusted B Mixed mater Dumped by Common ow Constant open	ription: Maneuver: NA asic Loader Cycle Trial 0.02 truck 0.02 vnership of trucks are eration -0.04 get 0.00 Net Cycle T Adjusted Loa	nd loaders -0.04 Time Adjustment:	Dump: 0 maneuver): Factor (min. 0.020 0.020 -0.040 -0.040 0.000 -0.040	.100 O.600 min Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes	
Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min. Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	vs. Job Condition within this Base - Material Describ: - Unadjusted B Mixed mater Dumped by Common ow Constant open	ription: Maneuver: NA asic Loader Cycle Trial 0.02 truck 0.02 vnership of trucks are eration -0.04 get 0.00 Net Cycle T Adjusted Loa	nd loaders -0.04 Time Adjustment: ader Cycle Time:	Dump: 0 maneuver): Factor (min. 0.020	.100 0.600 minutes minutes	
Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min. Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	ws. Job Condition within this Base Material Description: - Unadjusted B Mixed mater Dumped by Common ow Constant open Nominal target.	ription: Maneuver: NA asic Loader Cycle Trial 0.02 truck 0.02 vnership of trucks are eration -0.04 get 0.00 Net Cycle T Adjusted Loa	nd loaders -0.04 Time Adjustment: ader Cycle Time: Time per Truck:	Dump: 0 maneuver): Factor (min. 0.020	.100 0.600 minutes minutes minutes minutes	nutes
Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min. Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Cycle Time:	ws. Job Condition within this Bast Material Description: - Unadjusted B Mixed mater Dumped by Common ow Constant open Nominal targeters. e: 0.60	ription: Maneuver: NA asic Loader Cycle Trial 0.02 truck 0.02 vnership of trucks are ration -0.04 get 0.00 Net Cycle T Adjusted Load Net Load	nd loaders -0.04 Time Adjustment: ader Cycle Time: Time per Truck:	Dump: 0 maneuver): Factor (min. 0.020	.100 0.600 minutes minutes minutes	
Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min. Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Cycle Time: Truck Exchange Time	ws. Job Condition within this Base Material Description: - Unadjusted B Mixed mater Dumped by Common ow Constant open Nominal target and the constant open see: - Unadjusted B	Maneuver: NA Maneuver: NA asic Loader Cycle The strict of truck 0.02 truck 0.02 vership of trucks are eration -0.04 get 0.00 Net Cycle The strict of truck of truck of truck of truck of trucks are eration with the strict of trucks are eration with the strict of trucks of trucks are eration with trucks of trucks are eration with trucks of t	nd loaders -0.04 Time Adjustment: ader Cycle Time: Time per Truck: Adjusted	Dump: 0 maneuver): Factor (min. 0.020	.100 0.600 mir	nutes

<u>Truck Travel (Haul & Return) Time:</u> Road Condition: <u>Firm, smooth, rolling, dirt/lt. surfaced, watered, maintained 3.0</u>

Haul Route:

Seg#	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1250.00	2.00	3.00	5.00	1629	0.921

Haul Time: ______ minutes rn Route:

Return Ke	oute:	1	•			
Seg #	Haul Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel
	(Ft)	, ,	(%)	(%)	(fpm)	Time
	(2 0)		(/0)	(,0)	(1P111)	(min)
1	1250.00	-2.00	3.00	1.00	4254	0.557

Return Time: 0.557 minutes
Total Truck Cycle Time: 4.298 minutes

Loading Tool unit

Production 1,029.19 LCY/Hour Adjusted for job efficiency: 854.23 LCY/Hour

Truck Unit Production

435.81 LCY/Hour Adjusted for job efficiency: 361.72 LCY/Hour

Optimal No. of Trucks: 2 Truck(s) Selected Number of Trucks: 2 Truck(s)

Adjusted hourly truck team production: 723.45 LCY/Hour Adjusted single truck/loader team production: 723.45 LCY/Hour Adjusted multiple truck/loader team production: 723.45 LCY/Hour

JOB TIME AND COST

Fleet size: 1 Team(s) Total job time: 104.81 Hours

Unit cost: \$1.636 /LCY Total job cost: **\$124,022**

REVEGETATION WORK

	ption:	Di oddedst gra	ss seed mix on nort	i racing quari	J 10 0 = 0 = 0 = 0	_	
Menzer Quarry		I	Permit Action:2021 Update		Permit/Job	Permit/Job#: M1976009H	
ROJECT	IDENTIFIC	CATION					
Task #: Date: User:	012A 5/19/2021 TC1	State County			Abbreviation: Filename:	None M009-012A	
Ag	ency or organ	ization name: <u>I</u>	DRMS				
<u>ERTILIZ</u>		ization name: <u>I</u>	<u>ORMS</u>				
	<u>ING</u>	ization name: <u>I</u>	Units /	Unit	Cost / Unit	Cost /Acre	
ERTILIZ Laterials Descript	<u>ING</u>		Units /	Unit pound	Cost / Unit	Cost /Acre \$74.80	
ERTILIZ [aterials Descript Ammoni	ING ion	-0-0	Units / 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
	\$
Total Tilling Cost/Acre	\$0.00

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Blue Grama - Native	0.50	8.16	\$6.86
Ryegrass, Perennial - Belramo	1.20	6.80	\$2.16
Sideoats Grama - Vaughn	1.30	4.27	\$10.89
Intermediate Wheatgrass - Oahe	2.20	4.70	\$6.16
Pubescent Wheatgrass - Luna	2.00	4.13	\$6.80
Yellow Sweet Clover - Madrid	5.00	29.84	\$14.13
Streambank Wheatgrass - Sodar	1.60	5.22	\$9.12
Western Wheatgrass - Native	2.30	5.81	\$13.80
Flax, Lewis Blue	4.00	26.53	\$66.00

\$267.22

	Totals Seed Mix	20.10	95.46	\$135.92
Application				
Description				Cost /Acre
Broadcast seeding [DMG]				\$267.22

Total Seed Application Cost/Acre

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

No. of Acres: 11.36 Cost /Acre: \$608.76

Estimated Failure Rate: 50% Cost /Acre*: \$608.76

*Selected Replanting Work Items: FERTILIZING,SEEDING

Initial Job Cost: \$6,915.51

Reseeding Job Cost: \$3,457.76

Total Job Cost: \$10,373

Job Hours: 45.00

CIRCES Cost Estimating Software

Total Fertilizer Materials Cost/Acre

\$163.80

REVEGETATION WORK

Task description: Broadcast grass seed mix on east facing quarry benches							
te: Menzer Q	: Menzer Quarry		Permit Action: 2021 Update		Permit/Job#: M1976009		
PROJECT I	DENTIFIC	ATION					
Task #:	012B	State:	Colorado		Abbreviation:	None	
Date:	5/19/2021	County:	El Paso		Filename:	M009-012B	
User:	TC1						
FERTILIZI Materials		cation name: <u>DR</u>					
Descriptio	n		Units / Acre	Unit	Cost / Unit	Cost /Acre	
Ammoniur	n nitrate, 33-0)-()	120.00	pound	\$0.62	\$74.80	
Triple supe	Triple superphosphate, 0-46-0		100.00	pound	\$0.89	\$89.00	

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
	\$
Total Tilling Cost/Acre	\$0.00

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Blue Grama - Native	0.50	8.16	\$6.86
Crested Wheatgrass - Nordan	1.70	7.81	\$6.63
Sideoats Grama - Vaughn	1.50	4.92	\$12.56
Yellow Sweet Clover - Madrid	5.00	29.84	\$14.13
Slender Wheatgrass - San Luis	1.80	6.57	\$7.65
Streambank Wheatgrass - Sodar	1.80	5.87	\$10.26
Western Wheatgrass - Native	2.70	6.82	\$16.20
Flax, Lewis Blue	3.00	19.90	\$49.50

\$267.22

	Totals Seed Mix	18.00	89.89	\$123.79
Application				
Description				Cost /Acre
Broadcast seeding [DMG]				\$267.22

Total Seed Application Cost/Acre

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 Stock Cost / Acre				k Cost / Acre	\$0.00

JOB TIME AND COST

No. of Acres:	11.2	Cost /Acre:	\$596.63
Estimated Failure Rate:	50%	Cost /Acre*:	\$596.63
*Selected Replanting Work Items:	FERTILIZING,SEEDING		

Initial Job Cost: \$6,682.26

Reseeding Job Cost: \$3,341.13

Total Job Cost: Job Hours: \$10,023

45.00

REVEGETATION WORK

Menzer Quarry	Permit A	Action: 2021	Update	Permit/Job#	: <u>M1976009H</u>
ROJECT IDENTIF	ICATION				
Task #: 012C		lorado		Abbreviation:	None
Date: 5/19/2021	County: El	Paso		Filename:	M009-012C
User: TC1					
Agency or orga	nization name: DRMS				
ERTILIZING					
 Iaterials					
lateriais		Units /			
Description		Acre	Unit	Cost / Unit	Cost /Acre
Ammonium nitrate, 3	3-0-0	120.00	pound	\$0.62	\$74.80
Triple superphosphat	e, 0-46-0	100.00	pound	\$0.89	\$89.00
				Total Fertilizer	
				Materials	
				Cost/Acre	\$163.80
			<u>.</u>		
nnliaation					
pplication					
Description					Cost /Acre
	er (MEANS 32 01 90.13 0	120)			\$41.82
Tractor towed spread					
Tractor towed spread					
Tractor towed spread		Total	Fertilizer A _]	oplication Cost/Acre	\$41.82
Tractor towed spread		Total	Fertilizer A	oplication Cost/Acre	\$41.82
		Total	Fertilizer A _l	oplication Cost/Acre	\$41.82
		Tota	Fertilizer A	oplication Cost/Acre	\$41.82
TILLING		Tota	Fertilizer A	oplication Cost/Acre	
		Total	Fertilizer A	oplication Cost/Acre	\$41.82 Cost /Acre

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Blue Grama - Native	0.50	8.16	\$6.86
Great Basin Wildrye - Magnar	1.80	7.31	\$20.79
Sideoats Grama - Vaughn	1.50	4.92	\$12.56
Crested Wheatgrass - Standard	1.70	7.81	\$7.06
Yellow Sweet Clover - Madrid	5.00	29.84	\$14.13
Streambank Wheatgrass - Sodar	1.80	5.87	\$10.26
Western Wheatgrass - Native	2.70	6.82	\$16.20
Totals Seed Mix	15.00	70.73	\$87.86

\$0.00

Total Tilling Cost/Acre

Task # 012C

Application

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

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	ek Cost / Acre	\$0.00

JOB TIME AND COST

 No. of Acres:
 6.77
 Cost /Acre:
 \$560.70

 Estimated Failure Rate:
 50%
 Cost /Acre*:
 \$560.70

*Selected Replanting Work Items: FERTILIZING,SEEDING

Initial Job Cost: \$3,795.94

Reseeding Job Cost: \$1,897.97

Total Job Cost: \$5,694

25.00

REVEGETATION WORK

Task desc	ription:	Drill grass seed	mix on quarry floor		
Site: Menze	Quarry	Per	rmit Action: 2021 Update	Permit/Jol	b#: <u>M1976009HR</u>
PROJEC'	Γ IDENTIFIC	<u>CATION</u>			
Task # Date User	5/19/2021	State: County:	Colorado El Paso	Abbreviation: Filename:	None M009-013
A	gency or organ	ization name:DF	RMS		
FERTILI	ZING				

Materials

	Units /			
Description	Acre	Unit	Cost / Unit	Cost /Acre
Ammonium nitrate, 33-0-0	120.00	pound	\$0.62	\$74.80
Triple superphosphate, 0-46-0	100.00	pound	\$0.89	\$89.00
			Total Fertilizer Materials	
			Cost/Acre	\$163.80

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
Chisel plowing {DMG}	\$100.40
Total Tilling Cost/Acre	\$100.40

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Blue Grama - Native	0.25	4.08	\$3.43
Great Basin Wildrye - Magnar	0.90	3.66	\$10.40
Sideoats Grama - Vaughn	0.75	2.46	\$6.28
Crested Wheatgrass - Standard	0.85	3.90	\$3.53
Yellow Sweet Clover - Madrid	2.50	14.92	\$7.06
Streambank Wheatgrass - Sodar	0.90	2.93	\$5.13
Western Wheatgrass - Native	1.35	3.41	\$8.10
Totals Seed Mix	7.50	35.37	\$43.93

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
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

Application

	\$
ulch Application Cost/Acre	\$0.00
1	ulch Application Cost/Acre

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Totals 1	Nursery Stoc	k Cost / Acre	\$0.00

JOB TIME AND COST

No. of Acres: 49.7 Cost /Acre: \$581.95 Estimated Failure Rate: 50% Cost /Acre*: \$581.95

*Selected Replanting Work Items: FERTILIZING,TILLING,SEEDING

Initial Job Cost: **\$28,922.92** Reseeding Job Cost: \$14,461.46 Total Job Cost: **\$43,384** Job Hours: **100.00**

BULLDOZER WORK

Task description:	Grade topsoil sto	ckpile and	quarry bench access roa	d areas	
Menzer Quarry	Peri	nit Action:	2021 Update	Permit/Job#:	M1976009HR
PROJECT IDENTI	FICATION				
Task #: 017	State:	Colorado		Abbreviation:	None
Date: $\frac{617}{5/19/2021}$		El Paso		Filename:	M009-017
User: TC1	County.	Lituso		i ilchame.	141009 017
	· DE	3.40			
Agency or org	anization name: <u>DR</u>	MS			
HOURLY EQUIPM	ENT COST				
Basic Machine: C	at D8T - 8SU				
Horsepower: 31	10				
Blade Type: Se	emi-Universal				
Attachment: N			<u> </u>		
	per day		<u></u>		
Data Source: (C	CRG)		<u>—</u>		
Cost Breakdown:			ı		
o ~		ΦΦ * *	<u>Utilization %</u>		
Ownership Cost/Hour:		\$241.38	NA 100		
Operating Cost/Hour:		\$143.92	100		
Ripper own. Cost/Hour:		\$0.00	NA 0		
Ripper op. Cost/Hour:		\$0.00	0		
Operator Cost/Hour:		\$40.04	NA		
Total unit Cost/Hour:	\$425.34				
Total Fleet Cost/Hour:	\$425.34				
					
MATERIAL QUAN	TITIES				
Initial Volume: 6,1					
Swell factor: 1.0		_			
	11 LCY	_			
Loose volume	II LC I				
Source of estimated vol		IRCES Wor	ksheet		
Source of estimated swe	ell factor: Cat Hand	book			
HOURLY PRODUC	<u>CTION</u>				
Average push distance:	50 feet				
Unadjusted hourly prod		Y/hr			
Materials consistency de	escription: Partly of	onsolidated	stockpile 1.1		
A	5 0/				
Average push gradient:	-5 %				
Average site altitude:	6,975 feet				
Material weight:	2,900 lbs/LCY			_	
Weight description:	Decomposed rock	- 50% Rock	, 50% Earth		
Job Condition Correction	on Factor		<u>Source</u>		
Operato:		750	(AVG.)		
Material consis		100	(CAT HB)		
Dozing m		000	(GEN.)		
		000	(AVG.)		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.700	(FND-MF)
Push gradient:	1.115	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4238

Adjusted unit production: 593.32 LCY/hr
Adjusted fleet production: 593.32 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.717/LCY

Total job time: 10.30 Hours
Total job cost: \$4,381

REVEGETATION WORK

7	Task descrip	tion:	Broadcast	seed -	graded hau	l road areas			
Site:	Menzer Q	uarry		Per	mit Action:	2021 Update	Per	mit/Job	#: <u>M1976009HR</u>
<u>P</u>]	ROJECT 1	DENTIFIC	<u>ATION</u>						
	Task #:	018	S	State:	Colorado		Abbrevia	ition:	None
	Date:	5/19/2021	Cor	unty:	El Paso		Filen	ame:	M009-018
	User:	TC1					-	_	
	Age	ncy or organiz	zation name:	DR	RMS				

FERTILIZING

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Ammonium nitrate, 33-0-0	120.00	pound	\$0.62	\$74.80
Triple superphosphate, 0-46-0	100.00	pound	\$0.89	\$89.00
			Total Fertilizer Materials Cost/Acre	\$163.80

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
Chisel plowing {DMG}	\$100.40
Total Tilling Cost/Acre	\$100.40

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Blue Grama - Native	0.50	8.16	\$6.86
Great Basin Wildrye - Magnar	1.80	7.31	\$20.79
Sideoats Grama - Vaughn	1.80	5.91	\$15.08
Crested Wheatgrass - Standard	1.70	7.81	\$7.06
Streambank Wheatgrass - Sodar	1.80	5.87	\$10.26
Western Wheatgrass - Native	2.70	6.82	\$16.20
Totals Seed Mix	10.30	41.88	\$76.24

Application

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

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
					\$
	\$0.00				

JOB TIME AND COST

 No. of Acres:
 3.8
 Cost /Acre:
 \$649.48

 Estimated Failure Rate:
 50%
 Cost /Acre*:
 \$649.48

*Selected Replanting Work Items: FERTILIZING,TILLING,SEEDING

Initial Job Cost: \$2,468.02

Reseeding Job Cost: \$1,234.01

Total Job Cost: Job Hours: 10.00