

November 15, 2024

Robert Wagner RMR Aggregates, Inc. 6200 S. Syracuse Way, Suite 450 Greenwood Village, CO 80111

RE: Permit No. M-1982-121, Mid-Continent LST, Proposed SI-4 Reclamation Cost Estimate – Bonding Question Responses

Dear Mr. Wagner:

On August 27, 2024 the Colorado Division of Reclamation Mining and Safety (Division) sent RMR a proposed Surety Increase (SI-4) for above mentioned site pursuant to C.R.S 34-32.5-117(4) and Rule 4.2.1. Given the potential range of actual costs for rock bolting the Division requested that RMR get three quotes for the cost of implementing this task. On October 25, 2024, the Division received RMR's formal extension request and bonding comments. The deadline for RMR to secure quotes has been extended to December 24, 2024.

As RMR is aware, the concept of rock bolting was originally raised in TR-6. RMR provided the Division with a Geotechnical Report which outlined the required actions for proper safeguarding of the highwall. The methods proposed in the Geotechnical Report were 1) to continue mining the unstable material and remove those hazardous layers, or 2) employ mechanical stabilization via rock bolting. Removal of the unstable materials and layers would require RMR to affect lands beyond the currently approved boundary, which could only be done via a permit Amendment process. In contrast, rock bolting could be conducted entirely within the current permit boundary and is a stabilization method that could reasonably be implemented in the event of immediate site closure. The purpose of the financial warranty is to provide financial assurance to the State for the most expeditious method of site closure and safeguarding in the event the Division has to perform the final reclamation. The Division maintains this task is appropriately included as part of the cost estimate associated with reclamation of "affected lands" as contemplated under C.R.S. 34-32.5-117.

However, after further internal deliberation and discussion the Division agrees that the rock bolting should be specifically memorialized as part of the Reclamation Plan and is more appropriately incorporated via a Technical Revision (TR) to the permit. As part of that TR process, the Division would utilize the cost quotes obtained by RMR to establish the appropriate financial warranty for rock bolting. Importantly, incorporating this task and associated bond through the TR process helps to clarify the reclamation obligations related to safeguarding the highwall and allows the Division and RMR to engage in a more



organized technical discussion related to the Geotechnical Report and rock bolting. Additionally, implementing the TR process was contemplated as part of the Stipulated Agreement dated April 11, 2023, to properly address the site stability issues and to propose a suitable plan to minimize future stability issues and potential off-site impacts.

Therefore, it is the Division's preference to bifurcate the outstanding financial warranty issues. It is noted that per the MOU with the BLM, additional financial warranties may be held to meet the requirements of both agencies. The BLM has additional indirect costs which are explicitly noted with an * on the Cost Summary Worksheet. The BLM concurred with the Divisions original SI-4 estimate on July 31, 2024.

The cumulative agency estimate to reclaim the above referenced site is <u>\$489,758</u>. This is an increase of <u>\$123,579</u> over the <u>\$366,179</u> currently held by the Division. Therefore, pursuant to Section 34-32.5-117(4), adequate Financial Warranty must be submitted to the Division within 60 days of the mailing date of this letter. The additional amount needs to be accepted prior to Tuesday, January 14, 2025. Enclosed is the revised SI-4 without the rock bolting task.

The Division is deferring the financial warranty related to rock bolting to be included as part of a future TR process. The current deadline for three rock bolting quotes is December 24, 2024. Although the Division is open to discussing a reasonable TR submittal timeline with RMR, a TR should be submitted shortly after RMR obtains the required quotes, no later than January 15, 2025.

If you require additional information, or have questions or concerns, please feel free to contact me.

Sincerely,

Amy Geldell

Amy Yeldell Environmental Protection Specialist

Ec: Travis Marshall, Senior EPS, Grand Junction DRMS Jeff Fugate, AGO Brittany Cocina, BLM

COST SUMMARY WORK

Task description:	SI4 updated w/o rock bolting	tasks	
Site: Mid-Continent LST	Permit Action:	SI4 V2 Permit/Job#: M1982121	
PROJECT IDENTIFICTask #:ACYDate:11/8/2024User:ACY	CATION State: Colorado County: Garfield	Abbreviation: None Filename: M121-ACY	

Agency or organization name: ______DRMS

TASK LIST (DIRECT COSTS)

Task		Form	Fleet	Task	
Task	Description	Used	Size	Hours	Cost
01a	Demo/removal of onsite facilities and structures	DEMOLISH	1	492.00	\$198,725
02a	Transport Fines over Processing benches	LOADER	2	16.23	\$5,108
02b	Spread Transported Fines over Processing benches	DOZER	2	2.02	\$1,300
02c	Transport Topsoil over Processing benches	LOADER	2	9.04	\$2,846
02d	Spread Transported Topsoil over Processing benches	DOZER	2	0.94	\$607
03b	Finish grading of process bench highwall	DOZER	2	23.75	\$16,081
03c	Transport topsoil to processing bench	LOADER	2	19.18	\$6,035
03d	Distribute topsoil over processing bench	DOZER	2	2.03	\$1,306
04b	Grade mill bench to 2H:1V Slope and general blending	DOZER	2	23.20	\$15,706
04d	Spread topsoil over mill pad area	DOZER	2	4.13	\$2,654
05a	Rip upper and lower access roads	RIPPER	2	1.55	\$1,072
06a	Reveg disturbed areas	REVEGE] 1	40.00	\$59,607
07a	Initial Mobilization	MOBILIZE] 1	5.86	\$12,735
07b	Secondary Mobilization	MOBILIZE	1	1.93	\$762
		<u>SUBTOTA</u>	LS (DC):	641.86	\$324,544

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance (DC):	<u>2.02%</u>	Total =	<u>\$6,556</u>
Performance bond (DC): * BLM Total 1.5% (DC)	<u>1.05%</u> 0.45%	Total = Total =	<u>\$3,408</u> \$1,460
Job superintendent Hrs.:	320.93	Total =	\$25,440
Profit (DC):	<u>10.00%</u> TOTAL	Total = $O \& P =$	<u>\$32,454</u> \$69,318
CONTRACT AM	OUNT (direct +	O & P) =	\$393,862

LEGAL - ENGINEERING - PROJECT MANAGEMENT: (added to contract amount)

Financial warranty processing (legal/related costs):	<u>\$500</u>	Total =	<u>\$500</u>
Engineering work and/or contract/bid preparation:	<u>4.25%</u>	Total =	<u>\$16,739</u>
Reclamation management and/or administration:	<u>5.00%</u>	Total =	<u>\$19,693</u>
*BLM Total 10% (CA):	<u>5.00%</u>	Total =	<u>\$19,693</u>
*BLM Indirect Cost of Rec Mgmt (DC):	<u>2.1%</u>	Total =	\$6,815
21% of the profit or 2.1% of DC			
CONTINGENCY (DC):	<u>3.00%</u>	Total =	<u>\$9,736</u>
*BLM Total 10% (DC)	<u>7%</u>	Total =	\$22,718

TOTAL INDIRECT COST = $\frac{165,241}{241}$

TOTAL BOND AMOUNT (direct + indirect) = <u>\$489,758</u>

DEMOLITION WORK

I	Task description:	Demo/remo	val of onsite fac	cilities and structures		
Site:	Mid-Continent LST		Permit Action:	SI4 V2	Permit/.	lob#: <u>M1982121</u>
PROJE	CT IDENTIFICATIO	<u>N</u>				
Task #:	01A	State:	Colorado		Abbreviation:	None
Date:	11/8/2024 1:11:22	County:	Garfield		Filename:	M121-01a
	PM					
User:	ACY					

Agency or organization name: ______DRMS_____

UNIT COSTS

Location adjustment: 95.50 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Mill Building	30'H x 50'W x 125'L	Plant (3S) demo./off-site disposal in approved landfill - Max. 15 mile haul	187,500.00	CF	\$0.88	\$164,381.25
Mill slab	50' x 125' x 10"	Pavement, concrete, demolition only, 7 in. to 24 in. thick - Reinforced	192.00	CY	\$151.50	\$29,088.00
Mill Slab-Hauling	192 CY	Loading and 2 mile haul, no salvage - Machine loading	192.00	CY	\$21.15	\$4,060.80
Mill Slab-Hauling Additional Mileage	192 CY, 6 Mi	Hauling only, per mile, 12-18 CY truck - 30 mph average speed	64.00	MI	\$10.14	\$649.05
Mill Slab-Disposal Fee	192 CY	Dump fees - Building construction materials.	192.00	CY	\$11.10	\$2,131.20
Silo (2x)	30' H x 10' D each	Loading and 2 mile haul, no salvage - Machine loading	175.00	CY	\$21.15	\$3,701.25
Silo-Hauling Additional Mileage	175 CY, 6 Mi	Hauling only, per mile, 12-18 CY truck - 30 mph average speed	59.00	MI	\$10.14	\$598.34
Silo-Disposal Fee	175 CY	Dump fees - Building construction materials.	175.00	CY	\$11.10	\$1,942.50
Scale	30' L x 12' W	Loading and 2 mile haul, no salvage - Machine loading	27.00	CY	\$21.15	\$571.05
Scale-Hauling Additional Mileage	27 CY, 6 Mi	Hauling only, per mile, 12-18 CY truck - 30 mph average speed	12.00	MI	\$10.14	\$121.70
Scale-Disposal Fee	27 CY	Dump fees - Building construction materials.	27.00	CY	\$11.10	\$299.70
Conveyor	40' L x 24" W	Conveyor, demolition, off-site disposal in approved landfill, 15 mile haul	640.00	CF	\$0.85	\$544.00

				Total Cost	
		Subtotal		(adjusted for	
Job Hours:	492.00	(unadjusted):	\$208,088.84	location):	\$198,724.84

Task	Quant	Unit	Min Hrs	Max	Crew
Demo Mill Bldg	187,500	CF	122.47	135.92	B-8
Demo Mill Slab	192	CY	320.06	320.06	B-38
Haul Mill Slab	192	CY	12.67	12.67	B-17
Additional Milage Mill Slab	192	CY	6.34	6.34	B-34B
Disposal Fee			-	-	
Load/Haul Silos	175	CY	11.5	11.5	B-17
Additional Milage Silos	175	CY	5.78	5.78	B-34B
Disposal Fee			-	-	
Load/Haul Scale	27	CY	1.78	1.78	B-17
Additional Milage Scale	27	CY	0.89	0.89	B-34B
Disposal Fee			-	-	
Demo conveyor	640	CF	0.42	0.46	CIRCES 2
Total			481.91	495.4	

Job Demo Hours

WHEEL LOADER - LOAD AND CARRY WORK

Mid-Continent LST	Pe	rmit Action:	SI4 V2		Permit/Job#:	M1982121
PROJECT IDENTIF						
),
Task #: 02A Date: 11/8/2024	State:	Colorado Garfield		<i>P</i>	Abbreviation: Filename:	None M121-02a
User: ACY	County:	Garneiu			Fileliame.	W1121-02a
Agency or orga	anization name:	RMS				
HOURLY EQUIPM	ENT COST					
Basic Machine:	CAT 972H			Horsepowe	er:	287
Attachment 1:	ROPS Cab			Shift Basi		er day
				Data Sourc		CRG)
Cost Breakdown:						
LOST DIEakuowii:		1	Utilization %			
Ownership Cost/	/Hour: \$62	.43	NA			
Operating Cost/			100			
Operator Cost		.85	NA			
Total Unit Cost/	/Hour: \$157	7.26				
Total Fleet Cost	t/Hour: \$31	4.53				
MATERIAL QUAN	<u>ITTIES</u>					
	<u>1111ES</u> 2,226	CCY	Swell fa	ctor: <u>1.345</u>		
		CCY LCY	Swell fac	ctor: <u>1.345</u>		
Initial volume: Loose volume:	2,226 2,994	LCY				
Initial volume: Loose volume: Source	2,226 2,994 of estimated volume	LCY : 30'W x	1000' LF x 2 Be			
Initial volume: Loose volume: Source	2,226 2,994	LCY : 30'W x	1000' LF x 2 Be			
Initial volume: Loose volume: Source Source of e	2,226 2,994 of estimated volume stimated swell factor	LCY : 30'W x	1000' LF x 2 Be			
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Initial volume: Loose volume: Source Source of e	2,226 2,994 of estimated volume stimated swell factor	LCY : <u>30'W x</u> : Cat Hand	<u>1000' LF x 2 Be</u> dbook	nches 1.38 ac		minutes
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(feet)

700

700

Haul Route:

Return Route:

(%)

9.90

-9.90

Res. (%)

5.00

5.00

(%)

14.90

-4.90

(minutes)

1.3484

0.5824

Source

(Cat HB)

(Cat HB)

			Total Travel Ti Total Cycle Ti		1.9308 2.4958	minutes minutes
Load Bucket Capacity						
Rated Capacit Bucket Fill Facto Adjusted Capacit	or: 0.825	LCY (hea Blasted ro LCY	nped) ock - avg. blasted	(75 - 9	90%) 0.825	
Job Condition Correction Site Altitude: <u>6800</u> feet	n Factors					
		Source				
Altitude Adj:	1.00	(CAT HE	8)			
Job Efficiency:	0.83	(1 shift/da	y)			
Net Correction:	0.83	multiplier				
	adjusted Hourly Un		111.07		Y/Hour	
	Adjusted Hourly Un		92.18	_	Y/Hour	
P	djusted Hourly Fle	et Production:	184.37	_ LC	Y/Hour	
JOB TIME AND CO	<u>ST</u>					
Fleet size:	2 Loader(s)	Total job time:		16.24	Hours

Fleet size:	2	Loader(s)	Total job time:	16.24	Hours
Unit cost:	\$1.706	/LCY	Total job cost:	\$5,108	

Task # 02B

Page 1 of 2

1			ver Processing benches		
Mid-Continent LST	Peri	mit Action:	SI4 V2	Permit/Job#:	M1982121
PROJECT IDENTIFI	CATION				
Task #: 02B	State:	Colorado		Abbreviation:	None
Date: $11/8/2024$	County:	Garfield		Filename:	M121-02b
User: ACY	County.	Garriela		i nename.	WI121 020
Agency or organ	ization name: DR	RMS			
HOURLY EQUIPME	NT COST				
	D8T - 8SU				
Horsepower: 310					
Blade Type: Sem	ni-Universal				
Attachment: NA					
Shift Basis: 1 pe	er day				
Data Source: (CR	(G)				
Cost Breakdown:					
COSt DICARGOWII.			Utilization %		
Ownership Cost/Hour:		\$173.32	NA		
Operating Cost/Hour:		\$109.71	100		
Ripper own. Cost/Hour:		\$0.00	NA		
Ripper op. Cost/Hour:		\$0.00	0		
Operator Cost/Hour:		\$38.59	NA		
- <u>-</u>			1111		
Fotal unit Cost/Hour: Fotal Fleet Cost/Hour:	\$321.62 \$643.23				
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume:2,994	\$643.23 <u>ITIES</u> 4				
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 2,994 Swell factor: 1.000	\$643.23 <u>ITIES</u> 4				
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 2,994 Swell factor: 1.000 Loose volume: 2,994	\$643.23 <u>ITIES</u> 4) 4 LCY	 			
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 2,994 Swell factor: 1.000 Loose volume: 2,994 Source of estimated volume	\$643.23 <u>ITIES</u> 4) 4 LCY ne:Transport	ted Volume			
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 2,994 Swell factor: 1.000 Loose volume: 2,994	\$643.23 <u>ITIES</u> 4) 4 LCY ne:Transport				
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 2,994 Swell factor: 1.000 Loose volume: 2,994 Source of estimated volume	\$643.23 ITIES 4) 4 LCY ne: Transport factor: Cat Hand				
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Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 2,992 Swell factor: 1.000 Loose volume: 2,992 Source of estimated volun Source of estimated swell HOURLY PRODUCT Average push distance:	\$643.23 <u>ITIES</u> 4) 4 LCY ne: <u>Transport</u> factor: <u>Cat Hand</u> <u>TON</u> <u>50 feet</u>	book			
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 2,994 Swell factor: 1.000 Loose volume: 2,994 Source of estimated volun 2,994 Source of estimated swell 8000000000000000000000000000000000000	\$643.23 <u>ITIES</u> 4) 4 LCY ne: <u>Transport</u> factor: <u>Cat Hand</u> <u>TON</u> <u>50 feet</u>	book			
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 2,992 Swell factor: 1.000 Loose volume: 2,992 Source of estimated volun Source of estimated swell HOURLY PRODUCT Average push distance:	\$643.23 ITIES 4) 4 LCY ne: Transport factor: Cat Hand TON 50 feet etion: 1,400.0 LC	book			
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 2,994 Swell factor: 1.000 Loose volume: 2,994 Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc Materials consistency desc Average push gradient:	\$643.23 ITIES 4 D ILCY ne: Transport factor: Cat Hand ION Ction: 50 feet 1,400.0 LC Cription: Loose s 0 %	book Y/hr			
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 2,994 Swell factor: 1.000 Loose volume: 2,994 Source of estimated volun Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc Materials consistency description	\$643.23 ITIES 4) 4 LCY ne: Transport factor: Cat Hand TON 210N 250 feet 2tion: 1,400.0 LC2 2tion: Loose s	book Y/hr			
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Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 2,994 Swell factor: 1.000 Loose volume: 2,994 Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency dese Average site altitude: Material weight: Weight description: Iob Condition Correction	\$643.23 ITIES I I I I I I I I I I I I I I I I I I	book Y/hr stockpile 1.2	Source		
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Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 2,994 Swell factor: 1.000 Loose volume: 2,994 Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency desc Average site altitude: Material weight: Weight description: Iob Condition Correction Operator S Material consiste	\$643.23 ITIES 4 0 4 LCY ne: Transport factor: Cat Hand CION stion: 50 feet 1,400.0 LC cription: Loose s 0 % 6,800 feet 2,600 lbs/LCY Limestone - Broke Factor Skill: 0. cncy: 1.	book Y/hr stockpile 1.2 cn 750 200	Source (AVG.) (CAT HB)		
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 2,994 Swell factor: 1.000 Loose volume: 2,994 Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency dese Average site altitude: Material weight: Weight description: Iob Condition Correction	\$643.23 ITIES 4 0 4 LCY ne: Transport factor: Cat Hand TION * * 50 feet * 1,400.0 LC cription: Loose s 0 % 6,800 feet 2,600 lbs/LCY Limestone - Broke Factor Skill: 0. cncy: 1. 1.	book Y/hr stockpile 1.2 en 750	Source (AVG.)		

Job efficient	cy: 0.830	(1 SHIFT/DAY)
Spoil pi	le: 0.800	(FND-RF)
Push gradie	nt: 1.000	(CAT HB)
Altitud	le: 1.000	(CAT HB)
Material Weig	ht: 0.885	(CAT HB)
Blade typ	pe: 1.000	(PAT)
Net correction		
Adjusted unit production:	740.46 LCY/hr	
Adjusted fleet production:	1480.92 LCY/hr	

Fleet size:	2 Dozer(s)
Unit cost:	\$0.434/LCY

Total job time:	2.02 Hours
Total job cost:	\$1,300

WHEEL LOADER - LOAD AND CARRY WORK

Task description:	Transpo	rt Topsoil over	Processing ber	ches		
: Mid-Continent L	ST	Permit Acti	on: <u>SI4 V2</u>		Permit/Job#	: <u>M1982121</u>
PROJECT IDEN	TIFICATION					
Task #: 02C		State: Color	ado		Abbreviation:	None
Date: 11/8/2	024 0	County: Garfie	eld		Filename:	M121-02c
User: ACY						
Agency or	organization nan	ne: DRMS				
HOURLY EQUI	PMENT COST	[
Basic Machir	ne: CAT 972H	[Horse	power:	287
Attachment	1: ROPS Cab		_			per day
				Data S	ource: (CRG)
Cost Breakdown:			1			
		¢ (2, 12)	Utilizatio	on %		
Ownership C Operating C		\$62.43 \$57.98	NA 100			
Operating C Operator C		\$36.85	NA			
Total Unit C		\$157.26				
T. (.1 Fl ()		\$214.52				
Total Fleet	Cost/Hour:	\$314.53				
MATERIAL QU	ANTITIES					
Initial volume:	1,113	CC	Swe	ell factor: 1	.125	
Loose volume:	1,252	LCY	7			
Sou	rce of estimated	volume: 1.38	ac @ 6"			
Source	of estimated swe	ll factor: Cat l	Handbook			
	LIGTION					
HOURLY PROD	<u>UCTION</u>					
Loader Cycle Time:	Unadjust	ed Basic Cycle T	ime (load, dum	p, maneuver):	0.525	minutes
Cycle Time	Factors				Factor (min.)	Source
M	aterial: Mixed	material 0.02			0.020	(Cat HB)
		justment - factor			0.000	(Cat HB)
Truck Own		justment - factor		0.00	0.000	(Cat HB)
		ant operation -0.0)4		-0.040	(Cat HB)
Dump '	Farget: Small	target 0.04		1	0.040	(Cat HB)
			t Cycle Time A ljusted Basic C	5	0.020	_ minutes
		A	ijusieu Dasić C	ycie i fille:	0.545	minutes
Rolling Resistance -	Road Condition	<u>s</u>				
H	Haul: Rutted d	irt, little mainten	ance, no water.	2" tire penetra	ation 5.0	
		irt, little mainten				
Haul and Return Tin	ne					
	Length	Grade Res.	Rolling	Total Res.	Travel Time	
	(feet)	(%)	Res. (%)	(%)	(minutes)	Source
Haul Route:		9.90	5.00	14.90	2.5042	(Cat HB)
Return Route:	1300	-9.90	5.00	-4.90	1.0816	(Cat HB)

			Total Travel Tin Total Cycle Tin		3.5858 4.1308	minutes minutes
Load Bucket Capacity						
Rated Capac	•	LCY (hea	-			
Bucket Fill Fact			arth Mixture (100%	6-105%)	1.025	
Adjusted Capac	ity: 5.74	LCY				
Job Condition Correction						
Site Altitude: 6800 feet						
		Source				
Altitude Adj:	1.00	(CAT HE	3)			
Job Efficiency:	0.83	(1 shift/da	y)			
Net Correction:	0.83	multiplier				
U	nadjusted Hourly U	nit Production:	83.37	LCY/	Hour	
	Adjusted Hourly Un	nit Production:	69.20	LCY/	Hour	
	Adjusted Hourly Fle	et Production:	138.40	LCY/	Hour	
JOB TIME AND CO	<u>OST</u>					
Fleet size:	2 Loader	(s)	Total job time:		9.05	Hours

			j		
Unit cost:	\$2.273	/LCY	Total job cost:	\$2,846	
	+=.=.0	_ /	- • • • • J • • • • • • •	+-,	_

Task # 02D

		ea ropoon	over Processing benche	3	
Mid-Continent LST	Perm	it Action:	SI4 V2	Permit/Job#:	M1982121
PROJECT IDENTIFI	CATION				
Task #: 02D	State:	Colorado		Abbreviation:	None
Date: $11/8/2024$		Garfield		Filename:	M121-02d
User: ACY	County:	Guilleta		-	11121 024
Agency or organ	ization name: DRN	ЛS			
HOURLY EQUIPME	NT COST				
	D8T - 8SU				
Horsepower: 310					
	ni-Universal				
Attachment: NA					
Shift Basis: 1 pe	er day				
Data Source: (CR					
Cost Breakdown:					
			Utilization %		
Ownership Cost/Hour:		\$173.32	NA		
Operating Cost/Hour:		\$109.71	100		
Ripper own. Cost/Hour:		\$0.00	NA		
Ripper op. Cost/Hour:		\$0.00	0		
Operator Cost/Hour:		\$38.59	NA		
Total unit Cost/Hour:	\$321.62				
-					
LOTAL FLEET COST/HOUP	\$643.23				
Total Fleet Cost/Hour:	\$643.23				
-					
MATERIAL QUANTI	ITIES				
MATERIAL QUANT	<u>ITIES</u> 2	_			
MATERIAL QUANT Initial Volume: <u>1,252</u> Swell factor: <u>1.000</u>	<u>ITIES</u> 2	-			
MATERIAL QUANTInitial Volume:1,252Swell factor:1.000Loose volume:1,252	ITIES 2) 2 LCY				
MATERIAL QUANTI Initial Volume: 1,252 Swell factor: 1.000 Loose volume: 1,252 Source of estimated volum	ITIES 2 1 2 LCY ne: Transported				
MATERIAL QUANTInitial Volume:1,252Swell factor:1.000Loose volume:1,252	ITIES 2 1 2 LCY ne: Transported				
MATERIAL QUANTI Initial Volume: 1,252 Swell factor: 1.000 Loose volume: 1,252 Source of estimated volum Source of estimated swell	ITIES 2 2 2 2 2 2 CY ne: Transported factor: Cat Handbo				
MATERIAL QUANTI Initial Volume: 1,252 Swell factor: 1.000 Loose volume: 1,252 Source of estimated volum	ITIES 2 2 2 2 2 2 CY ne: Transported factor: Cat Handbo				
MATERIAL QUANTI Initial Volume: 1,252 Swell factor: 1.000 Loose volume: 1,252 Source of estimated volum Source of estimated swell	ITIES 2 2 2 2 2 CY ne: Transported factor: Cat Handbo TION 50 feet	ook			
MATERIAL QUANTI Initial Volume: 1,252 Swell factor: 1.000 Loose volume: 1,252 Source of estimated volum Source of estimated swell HOURLY PRODUCT	ITIES 2 2 2 2 CY ne: Transported factor: Cat Handbo TION 50 feet	ook			
MATERIAL QUANTI Initial Volume: 1,252 Swell factor: 1.000 Loose volume: 1,252 Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance:	ITIES 2 1,400.0 LCY/	ook			
MATERIAL QUANTI Initial Volume: 1,252 Swell factor: 1.000 Loose volume: 1,252 Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency desc	ITIES 2	ook /hr			
MATERIAL QUANTI Initial Volume: 1,252 Swell factor: 1.000 Loose volume: 1,252 Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency desc Average push gradient:	ITIES 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 1,400.0 LCY/ cription: 1,400.0 LCY/ cription: Loose std 0 %	ook /hr			
MATERIAL QUANTI Initial Volume: 1,252 Swell factor: 1.000 Loose volume: 1,252 Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency desc	ITIES 2	ook /hr			
MATERIAL QUANTI Initial Volume: 1,252 Swell factor: 1.000 Loose volume: 1,252 Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency desc Average push gradient:	ITIES 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 1,400.0 LCY/ cription: 1,400.0 LCY/ cription: Loose std 0 %	ook /hr			
MATERIAL QUANTI Initial Volume: 1,252 Swell factor: 1.000 Loose volume: 1,252 Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency desc Average push gradient: Average site altitude:	ITIES 2 2 2 2 2 2 2 2 2 2 2 2 2 1,400.0 LCY/ cription: 1,400.0 LCY/ cription: 0 % 6,800 feet	/hr ockpile 1.2			
MATERIAL QUANTI Initial Volume: 1,252 Swell factor: 1.000 Loose volume: 1,252 Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency desc Average site altitude: Material weight: Weight description:	ITIES 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	/hr ockpile 1.2			
MATERIAL QUANTI Initial Volume: 1,252 Swell factor: 1.000 Loose volume: 1,252 Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency desc Average site altitude: Material weight:	ITIES 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	ook /hr ockpile 1.2 50% Rock,			
MATERIAL QUANTI Initial Volume: 1,252 Swell factor: 1.000 Loose volume: 1,252 Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency desc Average site altitude: Material weight: Weight description: Iob Condition Correction	ITIES 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 CY ne: Cat Handbe TON State Cat Handbe Ton	00k /hr 00ckpile 1.2 	Source		
MATERIAL QUANTI Initial Volume: 1,252 Swell factor: 1.000 Loose volume: 1,252 Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency desc Average site altitude: Material weight: Weight description: Iob Condition Correction	ITIES 2 1,400.0 LCY/ cription: 1,400.0 LCY/ cription: Loose stor 0 % 6,800 feet 2,900 lbs/LCY Decomposed rock - Factor Skill: 0.72 ncy: 1.20	00k /hr 00ckpile 1.2 	Source (AVG.)		

Task # 02D

Job efficiency:	0.830	(1 SHIFT/DAY)	
Spoil pile:	0.800	(FND-RF)	
Push gradient:	1.000	(CAT HB)	
Altitude:	1.000	(CAT HB)	
Material Weight:	0.793	(CAT HB)	
Blade type:	1.000	(PAT)	
Net correction:	0.4739		
Adjusted unit production: 66	53.46 LCY/hr		
Adjusted fleet production: 13	326.92 LCY/hr		

Fleet size:	2 Dozer(s)
Unit cost:	\$0.485/LCY

Total job time:	0.94 Hours
Total job cost:	\$607

Mid-Continent LST	Permit Action:	SI4 V2	Permit/Job#:	M1982121
PROJECT IDENTIFI	<u>CATION</u>			
Task #: 03B	State: Colorado		Abbreviation:	None
Date: $11/8/2024$	County: Garfield		Filename:	M121-03b
User: ACY	County:		I fieldifie.	W1121 050
Agency or organi	ization name: DRMS			
HOURLY EQUIPMEN	NT COST			
Basic Machine: Cat I	D8T - 8SU			
Horsepower: 310				
	i-Universal			
	ank ripper			
	r day			
Data Source: (CRO	G)			
Cost Breakdown:				
		Utilization %		
Ownership Cost/Hour:	\$173.32	NA		
Operating Cost/Hour:	\$109.71	100		
Ripper own. Cost/Hour:	\$14.53	NA		
Ripper op. Cost/Hour:	\$2.39	30		
Operator Cost/Hour:	\$38.59	NA		
Total Fleet Cost/Hour:	\$677.06			
MATERIAL QUANTI	<u>ITIES</u>			
MATERIAL QUANTI Initial Volume:	<u>ITIES</u>			
MATERIAL QUANTI Initial Volume: <u>8,887</u> Swell factor: <u>1.345</u>	<u>ITIES</u>			
MATERIAL QUANTI Initial Volume: <u>8,887</u> Swell factor: <u>1.345</u>	<u>ITIES</u>			
MATERIAL QUANTIInitial Volume:8,887Swell factor:1.345Loose volume:11,95	ITIES 3 LCY			
MATERIAL QUANTI Initial Volume: <u>8,887</u> Swell factor: <u>1.345</u>	TTIES 3 LCY ne:2.75 Ac @ 24"			
MATERIAL QUANTI Initial Volume: 8,887 Swell factor: 1.345 Loose volume: 11,95 Source of estimated volum Source of estimated swell for the state of th	ITIES 3 LCY a: 2.75 Ac @ 24" factor: Cat Handbook			
MATERIAL QUANTI Initial Volume: 8,887 Swell factor: 1.345 Loose volume: 11,95 Source of estimated volum Source of estimated swell f HOURLY PRODUCT	TTIES 3 LCY ne: 2.75 Ac @ 24" factor: Cat Handbook ION			
MATERIAL QUANTI Initial Volume: 8,887 Swell factor: 1.345 Loose volume: 11,95 Source of estimated volum Source of estimated swell f HOURLY PRODUCT Average push distance:	ITIES 3 LCY a: 2.75 Ac @ 24" factor: Cat Handbook ION 150 feet			
MATERIAL QUANTI Initial Volume: 8,887 Swell factor: 1.345 Loose volume: 11,95 Source of estimated volum Source of estimated swell f HOURLY PRODUCT	ITIES 3 LCY a: 2.75 Ac @ 24" factor: Cat Handbook ION 150 feet			
MATERIAL QUANTI Initial Volume: 8,887 Swell factor: 1.345 Loose volume: 11,95 Source of estimated volum Source of estimated swell f HOURLY PRODUCT Average push distance:	ITIES 3 LCY a: 2.75 Ac @ 24" factor: Cat Handbook ION 150 feet tion: 634.3 LCY/hr	 embankment 0.9		
MATERIAL QUANTI Initial Volume: 8,887 Swell factor: 1.345 Loose volume: 11,95 Source of estimated volum Source of estimated swell if HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency desc	ITIES 3 LCY 3 LCY a: 2.75 Ac @ 24" factor: Cat Handbook ION tion: 150 feet 634.3 LCY/hr cription: Compacted fill or e	 embankment 0.9		
MATERIAL QUANTI Initial Volume: 8,887 Swell factor: 1.345 Loose volume: 11,95 Source of estimated volum Source of estimated swell if HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency desc Average push gradient:	ITIES 3 LCY 3 LCY ne: 2.75 Ac @ 24" factor: Cat Handbook ION tion: 150 feet 634.3 LCY/hr cription: Compacted fill or e 0 %	 embankment 0.9		
MATERIAL QUANTI Initial Volume: 8,887 Swell factor: 1.345 Loose volume: 11,95 Source of estimated volum Source of estimated swell f HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency desc Average push gradient: Average site altitude:	THES 3 LCY a LCY he: 2.75 Ac @ 24" factor: Cat Handbook ION tion: 150 feet 634.3 LCY/hr cription: Compacted fill or e 0 % 6,800 feet	 embankment 0.9		
MATERIAL QUANTI Initial Volume: 8,887 Swell factor: 1.345 Loose volume: 11,95 Source of estimated volum Source of estimated swell f HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency desc Average site altitude: Material weight:	ITIES $3 LCY$ $3 LCY$ $action: 2.75 Ac @ 24"$ factor: Cat Handbook ION tion: 150 feet $634.3 LCY/hr$ cription: Compacted fill or e 0% $6,800$ feet $2,600$ lbs/LCY	embankment 0.9		
MATERIAL QUANTI Initial Volume: 8,887 Swell factor: 1.345 Loose volume: 11,95 Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency desc Average site altitude: Material weight: Weight description:	ITIES 3 LCY as LCY ne: 2.75 Ac @ 24" factor: Cat Handbook ION tion: 150 feet 634.3 LCY/hr cription: Compacted fill or e 0 % 6,800 feet 2,600 lbs/LCY Limestone - Broken			
MATERIAL QUANTI Initial Volume: 8,887 Swell factor: 1.345 Loose volume: 11,95 Source of estimated volum Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency desc Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction H	ITIES 3 LCY as LCY ne: 2.75 Ac @ 24" factor: Cat Handbook ION tion: 150 feet 634.3 LCY/hr cription: Compacted fill or e 0 % 6,800 feet 2,600 lbs/LCY Limestone - Broken Factor Factor	Source		
MATERIAL QUANTI Initial Volume: 8,887 Swell factor: 1.345 Loose volume: 11,95 Source of estimated volum Source of estimated volum Source of estimated swell f HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency desc Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction H	ITIES 3 LCY as LCY ne: 2.75 Ac @ 24" factor: Cat Handbook ION tion: 150 feet 634.3 LCY/hr cription: Compacted fill or e 0 % 6,800 feet 2,600 lbs/LCY Limestone - Broken Factor 0.750	Source (AVG.)		
MATERIAL QUANTI Initial Volume: 8,887 Swell factor: 1.345 Loose volume: 11,95 Source of estimated volum Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency desc Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction H	ITIES 3 LCY a: 2.75 Ac @ 24" factor: 2.75 Ac @ 24" factor: Cat Handbook ION ition: 150 feet ition: 634.3 LCY/hr cription: Compacted fill or e 0 % 6,800 feet 2,600 lbs/LCY Limestone - Broken Eactor 0.750 kill: 0.750 ncy: 0.900	Source		

Job efficiency	0.830	(1 SHIFT/DAY)
Spoil pile	0.800	(FND-RF)
Push gradient	1.000	(CAT HB)
Altitude	1.000	(CAT HB)
Material Weight	0.885	(CAT HB)
Blade type:	1.000	(PAT)
Net correction	0.3967	
Adjusted unit production:	251.63 LCY/hr	
Adjusted fleet production:	503.26 LCY/hr	

Fleet size:	2 Dozer(s)
Unit cost:	\$1.345/LCY

Total job time:	23.75 Hours
Total job cost:	\$16,081

WHEEL LOADER - LOAD AND CARRY WORK

ROJECT IDENTIFICATION Task #: 03C State: Colrado Abbreviation: None Date: 11/8/2024 County: Garfield Filename: M121-00 User: ACY Agency or organization name: DRMS COURLY EQUIPMENT COST Basic Machine: CAT 972H Horsepower: 287 Attachment 1: ROPS Cab Shift Basis: 1 per day Date Source: (CRG) Ownership Cost/Hour: \$57.98 100 Operating Cost/Hour: \$57.98 NA Operating Cost/Hour: \$3157.26 Total Unit Cost/Hour: \$3157.26 NA Total Vitic Cost/Hour: \$314.53 INTERIAL QUANTITIES Initial volume: 2.218 CCY Swell factor: 1.215 Loose volume: 2.695 LCY Source of estimated swell factor: Cat Handbook Output: Nodysted Basic Cycle Time (load, dump, maneuver): 0.525 minu Cycle Time Factors Comon ownership of trucks and loaders -0.04 -0.040 (Cat H Operation: Constant operation -0.04<	Task description:	Transport topsoil to proce	essing bench			
Task #: 0.3C State: Colorado Abbreviation: None Date: 11/8/2024 County: Garfield Filename: M121-02 Agency or organization name: DRMS OURLY EQUIPMENT COST Basic Machine: CAT 972H Horsepower: 287 Attachment 1: ROPS Cab Data Source: (CRG) ost Breakdown: Utilization % Operating Cost/Hour: \$52.43 NA Operator Cost/Hour: \$52.43 NA Operator Cost/Hour: \$157.26 Total Unit Cost/Hour: \$314.53 Intitial volume: 2.218 CCY Swell factor: 1.215 Loose volume: 2.695 LCY Source of estimated swell factor: Cat Handbook Source OURLY PRODUCTION cat Handbook Material Mixed material 0.02 0.020 (Cat H Material: Mixed material 0.02 0.020 (Cat H 0.020 (Cat H Operation: Costenership Costinato operation 0.04 -0.040 (Cat H 0.020 (Cat H Dader Cycle Time: Unadjusted Basic Cycle Time (load, dump, maneuver)	Mid-Continent LST	Permit Action	n: SI4 V2		Permit/Job#:	M1982121
Date: 11/8/2024 County: Garfield Filename: M121-02 Agency or organization name: DRMS OURLY EQUIPMENT COST Basic Machine: CAT 972H Horsepower: 287 Attachment 1: ROPS Cab Data Source: (CRG) ost Breakdown: Utilization % NA (CRG) Operating Cost/Hour: \$57.98 100 (CRG) Operator Cost/Hour: \$515.26 Total Unit Cost/Hour: \$157.26 Total Peet Cost/Hour: \$314.53 Intitial volume: 2.218 CCY Swell factor: 1.215 Loose volume: 2,695 LCY Swell factor: 1.215 minu Source of estimated volume: (150' W x 800' L) 2.75 ac. @ 6'' Thick Source Source C24 Source of estimated swell factor: 2.218 CCY Swell factor: 0.525 minu Cycle Time: Unadjusted Basic Cycle Time (load, dump, maneuver): 0.525 minu Cycle Time Factors Source of estimated swell factor: 0.020 (Cat Handbook OURLY PRODUCTION 0ader Cycle Time: 0.020 0.020	PROJECT IDENTIFIC	CATION				
Date: 11/8/2024 County: Garfield Filename: M121-02 Agency or organization name: DRMS OURLY EQUIPMENT COST Basic Machine: CAT 972H Horsepower: 287 Attachment 1: ROPS Cab Data Source: (CRG) ost Breakdown: Utilization % NA (CRG) Operating Cost/Hour: \$57.98 100 (CRG) Operator Cost/Hour: \$515.26 Total Unit Cost/Hour: \$157.26 Total Peet Cost/Hour: \$314.53 Intitial volume: 2.218 CCY Swell factor: 1.215 Loose volume: 2,695 LCY Swell factor: 1.215 minu Source of estimated volume: (150' W x 800' L) 2.75 ac. @ 6'' Thick Source Source C24 Source of estimated swell factor: 2.218 CCY Swell factor: 0.525 minu Cycle Time: Unadjusted Basic Cycle Time (load, dump, maneuver): 0.525 minu Cycle Time Factors Source of estimated swell factor: 0.020 (Cat Handbook OURLY PRODUCTION 0ader Cycle Time: 0.020 0.020	Task #· 03C	State: Colorad	lo		Abbreviation:	None
User: ACY Agency or organization name: DRMS OURLY EQUIPMENT COST Basic Machine: CAT 972H Attachment 1: ROPS Cab Shift Basis: 1 per day Data Source: (CRG) ost Breakdown: Utilization % Operating Cost/Hour: \$52,43 NA Operator Cost/Hour: \$36,85 NA Total Unit Cost/Hour: \$314,53 Intervention (Cost/Hour: \$314,53 INTERIAL QUANTITIES Initial volume: 2,218 CCY Swell factor: 1.215 Source of estimated volume: (150' W x 800' L) 2.75 ac. @ 6'' Thick Source Source Source of estimated swell factor: Cat Handbook CCY minut Outer PRODUCTION Cat Handbook Source 0.255 minut Ocycle Time Factors Factor (min.) Source Source Material: Mixed material 0.02 0.020 (Cat Handbook Outer VRODUCTION 0.020 0.020 (Cat Handbook Cycle Time Factors Factor (min.) Source 0.						M121-03c
OURLY EQUIPMENT COST Basic Machine: CAT 972H Horsepower: 287 Attachment 1: ROPS Cab Data Source: (CRG) ost Breakdown: Ownership Cost/Hour: \$62.43 NA Operating Cost/Hour: \$57.98 100 Operating Cost/Hour: \$57.98 100 Operator Cost/Hour: \$5157.26 Total Unit Cost/Hour: \$157.26 Total Fleet Cost/Hour: \$314.53 Source of estimated volume: [150' W x 800' L) 2.75 ac. @ 6" Thick Loose volume: 2,269 LCY Source of estimated swell factor: Cat Handbook OURLY PRODUCTION Oader Cycle Time: Unadjusted Basic Cycle Time (load, dump, maneuver): 0.525 minu Oycele Time Factors Factor (min.) Source Ouger Cycle Time: Unadjusted Basic Cycle Time (load, dump, maneuver): 0.525 minu Cycle Time Factors Factor (min.) Source Source Material: Mixed material 0.02 0.020 (Cat H Tuck Ownership: Common ownership of trucks and loaders -0.04 -0.040 (Cat H </td <td></td> <td> = = = = = = = = = = = = = = = = =</td> <td>-</td> <td></td> <td></td> <td></td>		= = = = = = = = = = = = = = = = =	-			
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Length Grade Res. Rolling Total Res. Travel Time Source	Material: Stockpile: Truck Ownership: Operation: Dump Target: Rolling Resistance – Road Haul:	Dumped by truck 0.02 Common ownership of tr Constant operation -0.04 Nominal target 0.00 Net C Adju Conditions Rutted dirt, little maintenar	Cycle Time Adj usted Basic Cyc nce, no water, 2'	ustment: le Time: ' tire penetratio	0.020 -0.040 -0.040 0.000 -0.040 0.485 n 5.0	(Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
Length Grade Res. Rolling Total Res. Travel Time Source	Material: Stockpile: Truck Ownership: Operation: Dump Target: Rolling Resistance – Road Haul:	Dumped by truck 0.02 Common ownership of tr Constant operation -0.04 Nominal target 0.00 Net C Adju Conditions Rutted dirt, little maintenar	Cycle Time Adj usted Basic Cyc nce, no water, 2'	ustment: le Time: ' tire penetratio	0.020 -0.040 -0.040 0.000 -0.040 0.485 n 5.0	(Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
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(feet) (%) Res. (%) (%) (minutes) Source	Material: Stockpile: Truck Ownership: Operation: Dump Target: Rolling Resistance – Road Haul: Return: Haul and Return Time	Dumped by truck 0.02 Common ownership of tr Constant operation -0.04 Nominal target 0.00 Net (Adju <u>Conditions</u> Rutted dirt, little maintenar Rutted dirt, little maintenar	Cycle Time Adj usted Basic Cyc nce, no water, 2' nce, no water, 2'	ustment: le Time: ' tire penetratio ' tire penetratio	0.020 -0.040 -0.040 0.000 -0.040 0.485 n 5.0 n 5.0	(Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes

Haul Route:

Return Route:

1300

1300

9.90

-9.90

5.00

5.00

14.90

-4.90

2.5042

1.0816

(Cat HB)

(Cat HB)

			Total Travel Tir Total Cycle Tir		minutes minutes
Load Bucket Capacity					
Rated Capacit Bucket Fill Facto Adjusted Capacit	or: 1.025	LCY (heapo Rock - Eart LCY	ed) h Mixture (100%	-105%) 1.025	
Job Condition Correctio Site Altitude: <u>6800</u> feet	n Factors				
	1.00 0.83 0.83 adjusted Hourly Uni Adjusted Hourly Flee	it Production:	84.60 70.22 140.44	LCY/Hour LCY/Hour LCY/Hour	
JOB TIME AND CO	2 Loader(s	s)]	Fotal job time: _	19.19	Hours

 Unit cost:
 \$2.240
 /LCY
 Total job cost:
 \$6,035

Task description:		Distribu	te topso	n over proce	ssing benc	1		
Mid-Continent	LST		Per	mit Action:	SI4 V2		Permit/Job#:	M1982121
PROJECT IDEN	NTIFI(CATION						
Task #: 03D			State:	Colorado			Abbreviation:	None
Date: $11/8/2$	2024	(County:	Garfield		,	Filename:	M121-03d
User: ACY								
Agency or	r organi	ization nan	ne: DI	RMS				
HOURLY EQUI	-							
Basic Machine:		D8T - 8SU	-					
Horsepower:	310	001 000						
Blade Type:		i-Universa	l					
Attachment:	NA							
Shift Basis:	1 pe	r day						
Data Source:	(CR	G)						
Cost Breakdown:								
<u>cost breated ini</u>					Util	lization %		
Ownership Cost/H				\$173.32		NA		
Operating Cost/H	lour:			\$109.71		100		
Ripper own. Cost/H				\$0.00		NA		
Ripper op. Cost/H	Iour:			\$0.00		0		
Operator Cost/H	Iour			\$38.59		NA		
Total unit Cost/Hou Total Fleet Cost/Hou	ır:	\$321.62 \$643.23		<i>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>				
Total unit Cost/Hou	ır: _ our: _	\$643.23		<i></i>				
Total unit Cost/Hou Total Fleet Cost/Ho <u>MATERIAL QU</u> Initial Volume:	ur: our: <u>ANTI</u> 2,695	\$643.23 TIES						
Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor:	ur: our: <u>2,695</u> 1.000	\$643.23						
Total unit Cost/Hou Total Fleet Cost/Ho <u>MATERIAL QU</u> Initial Volume:	ur: our: <u>ANTI</u> 2,695	\$643.23						
Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated	ur: <u>2,695</u> <u>1.000</u> 2,695 1.000	\$643.23 TIES LCY he:		 ted volume				
Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor: Loose volume:	ur: <u>2,695</u> <u>1.000</u> 2,695 1.000	\$643.23 TIES LCY he:	Franspor Cat Hand	 ted volume				
Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated	ur: <u>2,695</u> <u>1.000</u> 2,695 1 volum l swell	\$643.23 TIES LCY he: factor:		 ted volume				
Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROI	ur: pur: 2,695 1.000 2,695 1 volum 1 swell DUCT	\$643.23 TIES LCY he: factor: ION	Cat Hand	 ted volume				
Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated	Ir:	\$643.23 TIES LCY he: factor: ION 50		ted volume lbook				
Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROI Average push distant	ur: bur: 2,695 1.000 2,695 1.000 2,695 1 volum 1 swell DUCT nce: product	\$643.23 TIES LCY le: factor: ION tion:14	Cat Hand feet 00.0 LC	ted volume lbook				
Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROI Average push distan Unadjusted hourly p	Ir: JANTI 2,695 1.000 2,695 1.000 2,695 1 volum 1 swell DUCT nce: product cy desc	\$643.23 TIES LCY le: factor: ION tion:14	Cat Hand feet 00.0 LC	ted volume lbook				
Total unit Cost/Hou Total Fleet Cost/Hou Total Fleet Cost/Hou Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROI Average push distan Unadjusted hourly p	Ir: Dur: 2,695 1.000 2,695 1.000 2,695 1 volum 1 swell DUCT nce: product cy desc ent:	\$643.23 TIES LCY ac: factor: ION tion:14 cription:	Cat Hand feet 00.0 LC Loose	ted volume lbook				
Total unit Cost/Hou Total Fleet Cost/Hou Total Fleet Cost/Hou Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROI Average push distan Unadjusted hourly p Materials consistent Average push gradi	Ir: Dur: 2,695 1.000 2,695 1.000 2,695 1 volum 1 swell DUCT nce: product cy desc ent:	\$643.23 TIES LCY ac: factor: ION tion:1,4 cription:0 %	Cat Hand feet 00.0 LC Loose	ted volume lbook				
Total unit Cost/Hou Total Fleet Cost/Hou Total Fleet Cost/Hou Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROI Average push distan Unadjusted hourly p Materials consistent Average push gradi Average site altitud	Ir:	\$643.23 TTIES LCY he: 7 factor: 0 ION tion: 1,4 cription: 0 0 % 6,800 feet 2,900 lbs/	Cat Hand feet 00.0 LC Loose	ted volume lbook				
Total unit Cost/Hou Total Fleet Cost/Hou Total Fleet Cost/Hou Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROI Average push distan Unadjusted hourly p Materials consistent Average push gradi Average site altitud Material weight:	Ir: DUT: 2,695 1.000 2,695 1.000 2,695 1 volum 1 swell DUCT product cy desc ent: e:	\$643.23 TIES LCY he: factor: factor: 10N 50 tion:14 cription: 0 % 6,800 feet 2,900 lbs/ Decompo	Cat Hand feet 00.0 LC Loose			1		
Total unit Cost/Hou Total Fleet Cost/Hou Total Fleet Cost/Hou Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROI Average push distan Unadjusted hourly p Materials consistent Average push gradi Average site altitud Material weight: Weight description: Job Condition Corre	Ir: DUT: 2,695 1.000 2,695 1.000 2,695 1 volum 1 swell DUCT product cy desc ent: e:	\$643.23 TIES LCY he: factor: factor: ION ion: 50 ion: 50 ion: 6,800 feet 2,900 lbs/ Decompo Factor	Cat Hand feet 00.0 LC Loose t LCY sed rock					
Total unit Cost/Hou Total Fleet Cost/Hou Total Fleet Cost/Hou Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROI Average push distan Unadjusted hourly p Materials consistent Average push gradi Average push gradi Average site altitud Material weight: Weight description: Job Condition Corrr Ope Material co	Ir: Dur: <u>2,695</u> <u>1.000</u> <u>2,695</u> <u>1.000</u> <u>2,695</u> <u>1 volum</u> I swell <u>DUCT</u> nce: product cy desc ent: e: <u>ection I</u> prator S onsister	\$643.23 TIES LCY LCY LE: factor: factor: factor: factor: factor: factor: factor: 0 % formulation: formul	Cat Hand feet 00.0 LC Loose LOOSE t LCY sed rock			1 Source (AVG.) (CAT HB)		
Total unit Cost/Hou Total Fleet Cost/Hou Total Fleet Cost/Hou Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROI Average push distan Unadjusted hourly p Materials consistent Average push gradi Average push gradi Average site altitud Material weight: Weight description: Job Condition Corrr Ope Material co	Ir: Dur: 2,695 1.000 2,695 1 volum 1 swell DUCT product cy desc ent: e: e: ection I prator S	\$643.23 TIES LCY ac:factor:factor:forfo	Cat Hand feet 00.0 LC Loose LCY sed rock 0 1	Y/hr stockpile 1.2		1 <u>Source</u> (AVG.)		

Task # 03D

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.4739	
Adjusted unit production: 66	53.46 LCY/hr	
Adjusted fleet production: 13	326.92 LCY/hr	

Fleet size:	2 Dozer(s)
Unit cost:	\$0.485/LCY

Total job time:	2.03 Hours
Total job cost:	\$1,306

Task # 04B

Task description:	Grade mill bench	to 2H:1V S	Slope and general blendi	ng	
Mid-Continent LST	Pern	nit Action:	SI4 V2	Permit/Job#:	M1982121
PROJECT IDENTIFIC	CATION				
Task #: 04B	State:	Colorado		Abbreviation:	None
Date: 11/8/2024	County:	Garfield		Filename:	M121-04b
User: ACY				-	
Agency or organiz	zation name: <u>DR</u>	MS			
HOURLY EQUIPMEN	T COST				
Basic Machine:Cat D	98T - 8SU				
Horsepower: 310					
	-Universal				
	nk ripper				
Shift Basis: <u>1 per</u>					
Data Source: (CRG	i)				
Cost Breakdown:					
		*	<u>Utilization %</u>		
Ownership Cost/Hour:		\$173.32	NA		
Operating Cost/Hour:		\$109.71	100		
Ripper own. Cost/Hour:		\$14.53	NA		
Ripper op. Cost/Hour: Operator Cost/Hour:		\$2.39 \$38.59	30		
		φ50.57	NA		
MATERIAL QUANTI					
Initial Volume: 11,667	1	_			
Swell factor: 1.345	LOV	_			
Loose volume: 15,692	LCY				
Source of estimated volume			H: 1V to 2H: 1V Cut/fill		
Source of estimated swell fa	actor: Cat Hand	ook			
HOURLY PRODUCTI	<u>ON</u>				
Average push distance:	100 feet				
Unadjusted hourly producti		nr			
Materials consistency descr	iption: Compac	ted fill or e	nbankment 0.9		
	0 %				
Average site altitude:	6,800 feet				
Material weight:	2,600 lbs/LCY			_	
Weight description:	Limestone - Broker	1			
Job Condition Correction F	actor		Source		
Operator Sk		750	(AVG.)		
Material consisten			× /		
material consistent		000	(CAT HB))		
Dozing metho	cy: 0.9		(CAT HB)) (GEN.)		
	cy: 0.9 od: 1.0	900			

Job efficiency	y: 0.830	(1 SHIFT/DAY)
Spoil pile	e: 0.800	(FND-RF)
Push gradien	t: 1.000	(CAT HB)
Altitude	e: 1.000	(CAT HB)
Material Weigh	t: 0.885	(CAT HB)
Blade type	e: 1.000	(PAT)
Net correction	n: <u>0.3967</u>	
Adjusted unit production:	338.23 LCY/hr	
Adjusted fleet production:	676.46 LCY/hr	
—		

Fleet size:	2 Dozer(s)
Unit cost:	\$1.001/LCY

Total job time:	23.20 Hours
Total job cost:	\$15,706

Task description: :: <u>Mid-Continent LST</u>		S	pread topso	d topsoil over mill pad area			
		ST	Permit Action: SI4 V2			Permit/Job#	: <u>M1982121</u>
PROJEC	T IDEN	FIFICA	TION				
Task #:	04D		Sta	te: Colorado		Abbreviation:	None
Date:	11/8/20	024	Coun			Filename:	M121-04d
User:	ACY						
A	gency or o	organizat	ion name:	DRMS			
HOURLY	<u> EQUIP</u>	PMENT	COST				
Basic M		Cat D87	Г - 8SU				
	epower:	310					
	e Type: _	Semi-U	niversal				
	hment:	NA					
	t Basis: _	1 per da	y				
Data	Source:	(CRG)					
Cost Break	down:						
					<u>Utilization</u>	<u>%</u>	
Ownershi				\$173.32	NA		
	g Cost/Ho			\$109.71	100		
Ripper own				\$0.00	NA		
	o. Cost/Ho			\$0.00	0		
Omanna t	C /II			#20 FO	NT A		
Total unit C Total Fleet		: \$3	21.62 43.23	\$38.59	NA		
Total unit C Total Fleet MATERI	Cost/Hour Cost/Hou ALQUA	: <u>\$3</u> r: \$6	43.23	\$38.59	NA		
Total unit (Total Fleet <u>MATERI</u> Initial Vo	Cost/Hour Cost/Hou ALQUA	: <u>\$3</u> r: \$6 ANTITI 1,613	43.23	\$38.59	NA		
Total unit C Total Fleet MATERI	Cost/Hour Cost/Hou (AL QUA Dlume: factor:	: <u>\$3</u> r: \$6	43.23 <u>ES</u>	\$38.59			
Total unit (Total Fleet <u>MATERI</u> Initial Vo Swell f	Cost/Hour Cost/Hou ALQUA blume: factor: blume: estimated v	: <u>\$3</u> r: <u>\$6</u> <u>ANTITI</u> 1,613 1.165 1,879 LC volume:	43.23 ES Y 2ac @				
Total unit O Total Fleet <u>MATERI</u> Initial Vo Swell f Loose vo Source of e	Cost/Hour Cost/Hou AL QUA plume: factor: plume: estimated s	: \$3 r: \$6 ANTITI 1,613 1.165 1,879 LC volume: swell fact	ES EY CY Cor: <u>2ac (a</u> Cat H	 			
Total unit O Total Fleet <u>MATERI</u> Initial Vo Swell f Loose vo Source of e Source of e	Cost/Hour Cost/Hou ALQUA Dlume: factor: Dlume: estimated s estimated s X PROD	: <u>\$3</u> r: <u>\$6</u> <u>ANTITI</u> 1,613 <u>1,613</u> <u>1,165</u> 1,879 LC volume: swell fact <u>UCTIO</u>	ES EY CY Cor: <u>2ac (a</u> Cat H) 6" (andbook			
Total unit O Total Fleet <u>MATERI</u> Initial Vo Swell f Loose vo Source of e Source of e	Cost/Hour Cost/Hou ALQUA olume: factor: olume: estimated s estimated s c PROD ush distance	: <u>\$3</u> r: <u>\$6</u> ANTITI 1,613 1.165 1,879 LC volume: swell fact UCTIO	43.23 ES CY Cor: <u>2ac (a</u> Cat H N <u>170 feet</u>) 6" [andbook			
Total unit O Total Fleet <u>MATERI</u> Initial Vo Swell f Loose vo Source of e Source of e <u>HOURLY</u> Average pu	Cost/Hour Cost/Hou AL QUA blume: factor: blume: blume: cstimated s cstimated s cstimated s cstimated s cstimated s cstimated s cstimated s	: <u>\$3</u> r: <u>\$6</u> <u>ANTITI</u> <u>1,613</u> <u>1,613</u> <u>1,65</u> <u>1,879</u> LC volume: swell fact <u>UCTIO</u> ce: roduction) 6" [andbook			
Total unit O Total Fleet <u>MATERI</u> Initial Vo Swell f Loose vo Source of e Source of e <u>HOURLY</u> Average pu Unadjusted Materials c	Cost/Hour Cost/Hou AL QUA plume: factor: plume: clume: stimated v estimated s Z PROD sh distance hourly pr onsistency	: <u>\$3</u> r: <u>\$6</u> <u>ANTITI</u> <u>1,613</u> <u>1.165</u> <u>1,879</u> LC volume: swell fact <u>UCTIO</u> ce: roduction y descript	$\frac{43.23}{ES}$ $\frac{ES}{CY}$ $\frac{2ac}{Cat}$ $\frac{170}{S}$ $\frac{170}{S}$ $\frac{170}{S}$ $\frac{170}{S}$ $\frac{170}{S}$	2) 6" landbook			
Total unit O Total Fleet MATERI Initial Vo Swell f Loose vo Source of e Source of e Source of e HOURLY Average pu Unadjusted Materials c Average pu	Cost/Hour Cost/Hou AL QUA plume: factor: plume: clume: stimated v estimated v estimated s Z PROD hourly pr onsistency ush gradier	: <u>\$3</u> r: <u>\$6</u> <u>ANTITI</u> 1,613 1.165 1,879 LC volume: swell fact UCTIO ce: roduction y descript nt: <u>0</u>	43.23 ES CY cor: 2ac (a) m Cat H N 170 feet : 576.6 L tion: Cor % Cor	2) 6" landbook			
Total unit O Total Fleet <u>MATERI</u> Initial Vo Swell f Loose vo Source of e Source of e <u>HOURLY</u> Average pu Unadjusted Materials c	Cost/Hour Cost/Hou AL QUA plume: factor: plume: clume: stimated v estimated v estimated s Z PROD hourly pr onsistency ush gradier	: <u>\$3</u> r: <u>\$6</u> <u>ANTITI</u> 1,613 1.165 1,879 LC volume: swell fact UCTIO ce: roduction y descript nt: <u>0</u>	$\frac{43.23}{ES}$ $\frac{ES}{CY}$ $\frac{2ac}{Cat}$ $\frac{170}{S}$ $\frac{170}{S}$ $\frac{170}{S}$ $\frac{170}{S}$ $\frac{170}{S}$	2) 6" landbook			
Total unit O Total Fleet MATERI Initial Vo Swell f Loose vo Source of e Source of e Source of e HOURLY Average pu Unadjusted Materials c Average pu	Cost/Hour Cost/Hour AL QUA plume: factor: plume: estimated s estimated s c PROD hourly pr onsistency ash gradient te altitude:	$\frac{\$3}{r}$ $\frac{\$3}{r}$ $\frac{\$3}{\$6}$ $\frac{\$5}{1,613}$ $\frac{1,613}{1,165}$ $\frac{1,879 \text{ LC}}{1,879 \text{ LC}}$ wolume: swell fact $\frac{\text{UCTIO}}{\text{ce:}}$ roduction $\frac{\texttt{uction}}{\texttt{v} \text{ descript}}$ $\frac{\texttt{uction}}{\texttt{ce:}}$	43.23 ES CY cor: 2ac (a) m Cat H N 170 feet : 576.6 L tion: Cor % Cor) 6" (andbook t CY/hr nsolidated stock			
Total unit O Total Fleet MATERI Initial Vo Swell f Loose vo Source of e Source of e HOURLY Average pu Unadjusted Materials c Average pu Average sit	Cost/Hour Cost/Hour AL QUA olume: factor: olume: estimated v estimated v	$\frac{\$3}{r:} \frac{\$3}{s6}$ $\frac{\$7}{1,613}$ $\frac{1,613}{1,165}$ $\frac{1,879 \text{ LC}}{1,879 \text{ LC}}$ wolume: swell fact $\frac{\texttt{UCTIO}}{\texttt{ce:}}$ roduction $\texttt{y descript}$ $\texttt{nt:} \underline{0.6}$ $\frac{2,9}{5}$	43.23 ES Y cor: $2ac$ (a) cor: Cat H N 170 feet : 576.6 L : 576.6 L : 600 feet : 900 lbs/LCY) 6" (andbook t CY/hr nsolidated stock	 pile 1.0		
Total unit O Total Fleet MATERI Initial Vo Swell f Loose vo Source of e Source of e HOURLY Average pu Unadjusted Materials c Average pu Average sit	Cost/Hour Cost/Hour Cost/Hou ALQUA olume: factor: olume: estimated v estimated v est	$\frac{\$3}{r}: \frac{\$3}{\$6}$ $\frac{\$7}{1,613}$ $\frac{1,613}{1,165}$ $\frac{1,879 \text{ LC}}{1,879 \text{ LC}}$ wolume: swell fact $\frac{\texttt{UCTIO}}{\texttt{ce:}}$ roduction $y \text{ descript}$ $\frac{0.6}{5,3}$ $\frac{2,9}{100}$ $\frac{0.6}{5}$	43.23 ES CY cor: 2ac (a) Cor: Cat H N	 0) 6" (andbook CY/hr nsolidated stock ock - 50% Rock	 pile 1.0		
Total unit O Total Fleet MATERI Initial Vo Swell f Loose vo Source of e Source of e Source of e HOURLY Average pu Unadjusted Materials c Average pu Average sit Material wo Weight des Job Conditi	Cost/Hour Cost/Hour Cost/Hou dume: factor: olume: estimated v estimated	$\frac{\$3}{r}: \frac{\$3}{86}$ $\frac{\$7}{1,613}$ $\frac{1,613}{1,165}$ $\frac{1,879 \text{ LC}}{1,879 \text{ LC}}$ $\frac{1}{3}$	43.23 ES Y cor: 2ac (a) cor: Cat H N	0.750	 pile 1.0	G.)	
Total unit O Total Fleet MATERI Initial Vo Swell f Loose vo Source of e Source of e Source of e HOURLY Average pu Unadjusted Materials c Average pu Average sit Material wo Weight des Job Conditi	Cost/Hour Cost/Hour Cost/Hou ALQUA olume: factor: olume: estimated we estimated we estimate	$\frac{\$3}{r:} \frac{\$3}{86}$ $\frac{\$7}{1,613} \frac{1,613}{1,165} \frac{1}{1,879} LC$ wolume: well fact $\frac{UCTIO}{ce:}$ roduction $\frac{ucction}{ce:} \frac{0.6}{6,8} \frac{2,9}{2}$ $\frac{be}{ction} Fact ator Skill nsistency$	43.23 ES Y cor: 2ac (a Cat H N 170 feet 576.6 L cion: Con % 800 feet 900 lbs/LCY ecomposed r tor : :	 2) 6" (andbook c CY/hr nsolidated stock ock - 50% Rock 0.750 1.000	 pile 1.0 	G.) HB)	
Total unit O Total Fleet MATERI Initial Vo Swell f Loose vo Source of e Source of e Source of e HOURLY Average pu Unadjusted Materials c Average pu Average sit Material wo Weight des Job Conditi	Cost/Hour Cost/Hour Cost/Hou AL QUA plume: factor: olume: stimated v estimated v est	$\frac{\$3}{r}: \frac{\$3}{86}$ $\frac{\$7}{1,613}$ $\frac{1,613}{1,165}$ $\frac{1,879 \text{ LC}}{1,879 \text{ LC}}$ $\frac{1}{3}$	43.23 ES CY cor: 2ac (a Cat H N 170 feet 576.6 L tion: Cor % 800 feet 900 lbs/LCY ecomposed r :	0.750	 pile 1.0	G.) HB) N.)	

Job efficient	cy: 0.830	(1 SHIFT/DAY)
Spoil pi	le: 0.800	(FND-RF)
Push gradie	nt: 1.000	(CAT HB)
Altitud	de: 1.000	(CAT HB)
Material Weig	ht: 0.793	(CAT HB)
Blade typ	pe: 1.000	(PAT)
Net correction	on: 0.3949	
Adjusted unit production:	227.70 LCY/hr	
Adjusted fleet production:	455.4 LCY/hr	

Fleet size:	2 Dozer(s)
Unit cost:	\$1.412/LCY

Total job time:	4.13 Hours
Total job cost:	\$2,654

BULLDOZER RIPPING WORK

	Task description	: <u>Rip</u>	upper and lower access r	oads		
Site	: Mid-Contine	nt LST	Permit Action:	SI4 V2	Permit/Job	#: <u>M1982121</u>
	PROJECT ID	ENTIFICAT	<u>ION</u>			
	Task #: 05		State: Colorado		Abbreviation	
		/8/2024	County: Garfield		Filename	: M121-05a
	User: AC					
	Agency	or organization	n name: DRMS			
	HOURLY EQ	UIPMENT C	<u>OST</u>			
	Basic		tt D8T - 8SU		Horsepower:	310
	Ripper Att	tachment: <u>3-</u>	Shank Ripper			l per day
					Data Source:	(CRG)
	Cost Breakdown	<u>:</u>		1	Utilization %	
		Ownership C	Cost/Hour:	\$173.32	NA	
		Operating C	Cost/Hour:	\$109.71	100	
		er Ownership C		\$14.53	NA	
	Rip	per Operating C Operator C		\$7.95 \$38.59	100 NA	
		Total Unit C		\$344.10		
		Total Fleet C				
				.19		
	MATERIAL (<u>QUANTITIES</u>	Sele	cted estimating n	nethod: Area	
	Alternate Metho	<u>ds:</u>				
eismic:	NA			NA	BCY	NA
Area:	2.00	acres	Rip Depth (ft):	2.00	Volume: <u>6,453</u>	BCY or C
		Source of esti	imated quantity: <u>3100 Ll</u>	F x 28'W		
	HOURLY PR	ODUCTION				
	Seismic:					
	<u>Bonshine.</u>		Seismic Velocity:	NA	feet/second	
	Area:					
	<u>- 110u.</u>	Avera	ge Ripping Depth:	2.56	feet/pass	
			ge Ripping Width:	7.08	feet/pass	
			e Ripping Length:	200.00 88.00	feet/pass feet/minute	
			rage Dozer Speed: e Maneuver Time:	0.25	ninutes/pass	
			ction per unit area:	0.773	acres/hour	
	Job Condition Co	orrection Factor	·s			
				0 772	Acres/hr	
	UI	ladjusted Houri	y Unit Production:	0.773		
			Site Altitude:	6,800	feet	
			Altitude Adj: Job Efficiency:	<u>1.00</u> 0.83	(CAT HB) (1 shift/day)	
			Net Correction:	0.83	multiplier	
		Adjuster	Hourly Unit Production:	0.64	Acres/hr	
			Hourly Fleet Production:	1.28	Acres/hr	
	JOB TIME AN	ND COST				
	Fleet size:	2	Grader(s)	Total job time:	1.56	Hours
		-		i star job tille.		110015
	Unit cost:	\$536.229	Per acre	Total job cost:	\$1,072	

REVEGETATION WORK

Reveg disturbed areas			
Permit Action:	SI4 V2	Permit/Job	o#: <u>M1982121</u>
		Abbraviation	None
County: Garfield		Filename:	M121-06a
-	Permit Action:	Permit Action: <u>SI4 V2</u> CATION State: <u>Colorado</u>	Permit Action: Si4 V2 Permit/Job CATION State: Colorado Abbreviation:

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
Indian Ricegrass - Native	10.00	32.37	\$172.92
Mountain Brome - Bromar	10.00	16.07	\$60.17
Kentucky Bluegrass - Lato	10.00	493.57	\$36.90
Milk Vetch, Cicer - Lutana	10.00	33.29	\$97.88
Thurber's Fescue	10.00	103.31	\$784.88
Western Wheatgrass - Native	10.00	25.25	\$90.06
Totals Seed Mix	60.00	703.86	\$1,242.81

Application

Description		Cost /Acre
Hydro seeding (MEANS 32 92 19.14 0200)		\$1,359.07
	Total Seed Application Cost/Acre	\$1,359.07

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - 2,4D @ 1.0 pt/ac	1.00	ACRE	\$4.13	\$4.13
Hydromulch tackifier, >15 ac. {Materials Only}	1.00	ACRE	\$1,459.26	\$1,459.26
Total Mulch Materials Cost/Acre				\$1,463.39

Application

Description		Cost /Acre
Hydromulching (MEANS 32 92 19.13 1100)		\$1,355.20
Weed spray, truck, non-aquatic areas, ann. [DMG]		\$27.19
	Total Mulch Application Cost/Acre	\$1,382.39

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
Fir, Douglas	44	Tubling, 3 cu. in. container (MEANS)	\$1.40	\$2.40	\$61.60
Oak, Gambel's	50	Bare root seedling, 11-16 inch ht. (MEANS)	\$2.62	\$0.00	\$131.00
Serviceberry	50	Bare root seedling, 11-16 inch ht. (MEANS)	\$2.62	\$0.00	\$131.00
		Totals	Nursery Stoc	ek Cost / Acre	\$323.60

No. of Acres:	8.13	Cost /Acre:	\$5,888.87
Estimated Failure Rate:	25%	Cost /Acre*:	\$5,771.26
*Selected Replanting Work Items:	SEEDING,NURSE	RY,MULCHING	
Initial Job Cost: \$47,876.51			

miniai Job Cost.	φ + /,0/0.31
Reseeding Job Cost:	\$11,730.09
Total Job Cost:	\$59,607
Job Hours:	40.00

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description:	Init	ial Mobilization					
: Mid-Continent	t LST	Permit	Action: <u>SI4 V</u>	/2	I	Permit/Job#: <u>M</u>	1982121
PROJECT IDEN	NTIFICATI	<u>ON</u>					
Task #: 07A		State: Co	olorado		Abbre	viation: None	
	8/2024		urfield			lename: M121	-07a
Agency o	r organization	n name: DRMS					
EQUIPMENT T	RANSPOR	T RIG COST					
Truck	Tractor Desc	ription: GENE	RIC ON-HIGH	WAY TRU		ce: <u>CRG Da</u> DR, 6X4, DIESEL	ta
T	. т:l D				(2ND HALF,		IDMENIT
Iruck	Trailer Desc	ription: G			SENECK, DR (25T, 50T, AN	OP DECK EQU	IPMENI
Cost Breakdown:						,	
Available Rig Ca	pacities	0-25 Tons	26-50 Tons	51+	Tons		
Ownership		\$10.44	\$22.18		3.94		
	Cost/Hour:	\$26.48	\$54.55	\$5	5.65		
	Cost/Hour:	\$22.52	\$22.52	\$2	2.52		
Helper	Cost/Hour:	\$0.00	\$23.53	\$2	3.53		
Total Unit	Cost/Hour:	\$59.44	\$122.78	\$12	25.64		
NON ROADABI	LE EQUIPN	MENT:					
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
I	(TONS)		t		fleet		
CAT 972H	28.00	\$62.43	\$122.78	2	\$370.42	\$245.56	\$500.00
Cat D8T - 8SU	53.08	\$187.85	\$125.64	2	\$626.98	\$251.28	\$500.00
Grove RT650E, 105', 45.4 MT	28.74	\$189.03	\$122.78	1	\$311.81	\$122.78	\$250.00
CAT 963D	22.29	\$83.68	\$59.44	1	\$143.12	\$59.44	\$250.00
CAT 450E	9.80	\$78.06	\$59.44	1	\$137.50	\$59.44	\$250.00
				Subtotals:	\$1,589.83	\$738.50	\$1,750.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/	Fleet Size	Haul Trip	Return Trip
	unit		Cost/hr/ fleet	Cost/hr/ fleet
Generic 12-18 cy, 6x4	\$115.19	2	\$230.38	\$230.38
Flatbed Truck, 6x4, 45K GVW	\$103.84	1	\$103.84	\$103.84
Light Duty Pickup, 4x4, 1 T.	\$130.54	2	\$261.08	\$261.08
Crew				
Hydroseeder with Tractor	\$133.22	1	\$133.22	\$133.22
Water Tanker, 3,500 Gal.	\$75.02	1	\$75.02	\$75.02
		Subtotals	\$803.54	\$803.54

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	GLENWOOD SPRINGS	_
Total one-way travel distance:	29.00	miles
Average Travel Speed:	30.00	mph
Total Non-Roadable Mob/Demob Cost * '* two round trips with haul rig:	\$11,181.10	_
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$1,553.51	

Transportation Cycle Time:

Haul Time (Hours): Return Time (Hours):	Non- Roadable Equipment 0.97 0.97	Roadable Equipment 0.97 0.97
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	2.93	1.93

JOB TIME AND COST

Total job time: **5.87** Hours

Total job cost: \$12,735

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task #: Date: User: Agen	nent LST DENTIFICATI 07B 11/8/2024 ACY cy or organization T TRANSPOR	ON State: <u>Co</u> County: <u>Ga</u> n name: <u>DRMS</u>	Action: <u>SI4 V</u> olorado urfield	72	Abbre	Permit/Job#:	ne
Task #: Date: User: Agen	07B 11/8/2024 ACY cy or organization	State: <u>Co</u> County: <u>Ga</u> n name: <u>DRMS</u>					
Date: User: Agen	11/8/2024 ACY cy or organization	County: Ga					
Date: User: Agen	11/8/2024 ACY cy or organization	County:Ga					
Agen	cy or organization					ionume. mi	21-07b
C							
<u>EQUIPMEN</u>	T TRANSPOR						
		1 MIG CUST					
					Shift ba	sis: 1 per	day
				C	ost Data Sour	rce: CRG I	Data
T	ruck Tractor Desc	ription: GENE	RIC ON-HIGH	WAY TRU		R 6X4 DIES	EL POWERED,
11	fuck fractor Dese	Inpubli. OLIVE			(2ND HALF,		LL I O WERED,
т	ruck Trailer Desc	ription G	ENERIC FOLD				UIPMENT
1	ruck fruiter Dese				25T, 50T, AN		
					201,001,11	(2 1001)	
Cost Breakdow	<u>'n:</u>						
Available Ri	g Capacities	0-25 Tons	26-50 Tons	51+	Tons		
Owner	ship Cost/Hour:	\$10.44	\$22.18	\$2	3.94		
Opera	ting Cost/Hour:	\$26.48	\$54.55	\$5	5.65		
Oper	ator Cost/Hour:	\$22.52	\$22.52	\$2	2.52		
He	lper Cost/Hour:	\$0.00	\$23.53	\$2	3.53		
Total I	Unit Cost/Hour:	\$59.44	\$122.78	\$12	25.64		
NON ROAD	ABLE EQUIPN	<u>MENT:</u>					
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	
2 comption	(TONS)		t	SILU	fleet		
	(1 1		I	
				Subtotals:	\$0.00	\$0.00	\$0.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Light Duty Pickup, 4x4, 1 T. Crew	\$130.54	2	\$261.08	\$261.08
Hydroseeder with Tractor	\$133.22	1	\$133.22	\$133.22
		G 1 1	\$204.20	\$204.20

Subtotals: \$394.30 \$394.30

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	GLENWOOD SPRINGS	_
Total one-way travel distance:	29.00	miles
Average Travel Speed:	30.00	mph
Total Non-Roadable Mob/Demob Cost * '* two round trips with haul rig:	\$0.00	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$762.31	-

Transportation Cycle Time:

Haul Time (Hours):	Non- Roadable Equipment	Roadable Equipment
Haul Time (Hours): Return Time (Hours): Loading Time (Hours): Unloading Time (Hours):	0.97 0.97 0.50 0.50	0.97 0.97 NA NA
Subtotals:	2.93	1.93

JOB TIME AND COST

Total job time: **1.93** Hours

Total job cost: **\$762**