

Department of Natural Resources

July 17, 2024

Sean Mello Western Slope Materials, LLC P O Box 1319 Carbondale, CO 81623

Re: Blue Pit - File No. M-1981-207 Western Slope Materials, LLC **Surety Increase (SI-3) Surety Increase to \$3,345,651**

Dear Sean Mello:

On July 17, 2024 the Division of Reclamation, Mining and Safety increased the current Financial Warranty for this permit to \$3,345,651.00, in accordance with Rule 4.2.1 of the Rules and Regulations. This is an increase of \$1,163,680.00.

The increase in the Financial Warranty is due to the increase in the cost of fuel, equipment, and labor since the last update.

Please see the April 23, 2024 inspection report for details regarding why this surety increase is required.

On July 17, 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 September 15, 2024.

Bond Held:	\$2,181,971.00
Prior Liability:	\$2,181,971.00



Change in Liability:	\$1,163,680.00
Revised Liability:	\$3,345,651.00
Prior Permit Acreage:	146.87
Change in Permit Acreage:	0.00
Revised Permit Acreage:	146.87
Prior Affected Acreage:	146.87
Change in Affected Acreage:	0.00
Revised Affected Acreage:	146.87

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

Sincerely,

Told Jesse

Todd Jesse

Environmental Protection Specialist

M-GR-04

COST SUMMARY WORK

otion:	Cost Summary			
	Permit Action:	2024 SI-3	Permit/Job	#: <u>M1981207</u>
IDENTIFIC	CATION			
000 5/21/2024 TJ1	State: Colorado County: Garfield		Abbreviation: Filename:	None M207-000
	1DENTIFI(000 5/21/2024	Permit Action: IDENTIFICATION State: Colorado County: Garfield	Permit Action:2024 SI-3 DENTIFICATION	Permit Action: 2024 SI-3 Permit/Job IDENTIFICATION 000 State: Colorado Abbreviation: Filename: Signature 5/21/2024 County: Garfield Filename: Signature

TASK LIST (DIRECT COSTS)

Task		Form	Fleet	Task	
Task	Description	Used	Size	Hours	Cost
01a	Demo on-site structures	DEMOLISH	1	80.00	\$54,449
02a	Transport backfill material to mining area 1	TRUCK1	2	239.85	\$734,352
03a	Placement of backfill material in mining area 1	DOZER	4	561.25	\$1,039,243
04a	Rip pit floor/compacted areas	RIPPER	1	27.95	\$13,131
05a	install grouted channels	POSTMININ	1	67.18	\$18,728
		G			
05b	Catchment benches	GRADER	1	4.44	\$1,202
05c	Energy Dissipation Rocks	TRUCK1	2	0.07	\$163
06a	Transport topsoil to pit floor	TRUCK1	2	95.88	\$293,577
07a	Placement of topsoil on sloped areas	DOZER	4	128.69	\$227,712
07b	Placement of topsoil on open pit areas	DOZER	4	21.56	\$38,152
08a	Reveg Rangeland	REVEGE	1	100.00	\$121,811
08b	Reveg Irrigated Pastureland	REVEGE	1	25.00	\$24,957
08c	Hay Mulch for \$150 a ton @ 2 ton/ac over 100	NA	1	0.00	\$30,000
	acres				
09a	Initial mobilize reclamation crew/equipment	MOBILIZE	1	3.33	\$17,010
09b	Secondary mobilize reclamation crew/equipment	MOBILIZE	1	3.33	\$1,672
	•				
	SUBTOTALS:				\$2,616,159

INDIRECT COSTS

OVERHEAD AND PROFIT:

 Liability insurance:
 2.02 Total =
 \$52,846

 Performance bond:
 1.05 Total =
 \$27,470

 Job superintendent:
 500.00 Total =
 \$32,540

 Profit:
 10.00 Total =
 \$261,616

TOTAL O & P = \$374,472 CONTRACT AMOUNT (direct + O & P) = \$2,990,631

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): \$500 Total = \$500

Engineering work and/or contract/bid preparation: 5.23 Total = \$156,410

Reclamation management and/or administration: 4.00 \$119,625

CONTINGENCY: 3.00 Total = <u>\$78,485</u>

TOTAL INDIRECT COST = \$729,492

TOTAL BOND AMOUNT (direct + indirect) = \$3,345,651

DEMOLITION WORK

	Task description:	Demo on-s	ite structures				
Site:	Blue Pit		Permit Action:	2024 SI-3	Permit/,	Job#:	M1981207
PROJE	ECT IDENTIFICATION	<u>N</u>					
Task #	: 01A	State:	Colorado		Abbreviation:	None	e
Date	: 5/21/2024	County:	Garfield		Filename:	M20	7-01a
User	: TJ1						
	Agency or organizat	tion name:	DRMS				

UNIT COSTS

Location adjustment: 102.20 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Fuel containment	40'W x 30'L x 6'H	Demo. and on-site disposal in excavated pit, 8 in. thick - Max. 200 ft. push	2,040.00	SF	\$1.74	\$3,542.05
Retaining wall	110'L x 8'H	Demo. and on-site disposal in excavated pit, 12 in. thick - Max. 50 ft. push	880.00	SF	\$2.64	\$2,326.54
Power line and poles	800'	Disposal of utility pole and hardware surplus material	800.00	LF	\$0.02	\$16.00
Mechanic Shop building	40'W x 60'L x 20'H	Bldg. (MN) demo./on- site disposal in excavated pit - Max. 200 ft. push	48,000.00	CF	\$0.34	\$16,180.80
Office/scale house	30'W x 100'L x 10'H	Bldg. (SN) demo./on-site disposal in excavated pit - Max. 200 ft. push	30,000.00	CF	\$0.24	\$7,059.00
Shop/office/apron slab(s)	9140 sq. ft.	Demo. and on-site disposal in excavated pit, 10 in. thick - Max. 200 ft. push	9,140.00	SF	\$2.17	\$19,837.46
Misc shed/outbuildings	1600 sf x 8' H	Bldg. (SN) demo./on-site disposal in existing pit or cut - Max. 200 ft. push	12,800.00	CF	\$0.22	\$2,769.92
Scale	12'W x 70'L	Loading and 5 mile haul, salvage allowed - Steel frame structures	15.50	CY	\$12.50	\$193.75
Scale foundation	12'W x 90'L	Demo. and on-site disposal in existing pit, 6 in. thick - Max. 200 ft. push	1,080.00	SF	\$1.25	\$1,351.19

				Total Cost	
		Subtotal		(adjusted for	
Job Hours:	80.00	(unadjusted):	\$53,276.71	location):	\$54,448.80

TRUCK/LOADER TEAM WORK

Site: Blue Pit		Permit Action	on: 2024 SI-3	·	Permit/Job#: M	1981207
PROJECT IDEN	<u>TIFICATION</u>	•				
Task #: 02A	1004	State: Colora		Ab	breviation: No	
Date: <u>5/21/2</u> User: TJ1	024 0	County: Garfie	ld		Filename: M2	207-02a
	organization nan	ne: DRMS				
1180110) 01	018					
HOURLY EQUI	PMENT COST	<u>r</u>		Shift bas	is: 1 per day	
			Equipment Descri	ption		
Т	ruck Loader Tea		773F			
Supp	ort Equipment -L		Г 990H D9T - 9SU			
Бирр	1 1		D9T - 9SU			
Road Ma	aintenance –Mote		Г 14М			
	-Wa	ter Truck: Wat	er Tanker, 7,000	Gal.		
Cost Breakdown:	Truck/Loa	odar Taam	Support I	Equipment	Maintanar	nce Equipment
Cost Breakdown:	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	100	100	100	100	100
Ownership cost/hour:	\$150.99	\$77.20	\$238.76	\$238.76	\$149.33	\$86.29
Operating cost/hour:	\$113.66	\$120.94	\$162.29	\$162.29	\$92.79	\$113.77
%Utilization-riper:	NA	0	100	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	\$18.32	\$0.00	\$0.00	\$0.00
Ripper op. cost/hour:	NA	\$0.00	\$8.98	\$0.00	\$0.00	\$0.00
Operator cost/hour:	\$33.34	\$40.71	\$41.30	\$41.30	\$28.56	\$27.68
Unit Subtotals:	\$297.99	\$238.85	\$451.33	\$442.35	\$270.68	\$227.74
Number of Units:	4	2	1	1	1	1
Group Subtotals:	Work:	\$1,669.66	Support:	\$893.68	Maint:	\$498.42
Total work team cos	st/hour: \$3,061.	76				
MATERIAL OIL	A NITHTHEO					
MATERIAL QU	ANIIIIES					
Initial volume:		CCY	Swell	factor: 1.060		
Loose volume:	381,22	26 LCY				
20.	urce of estimated		ion of Reclamatio	on, Mining & Safe	ety	
Source	of estimated swe Material Purcha		oit E & L			
		uarrian autum	,			
		otal Cost: \$0.00)			
)			

Truck Capacity:
Truck Payload (weight) Basis:

Material weight:	2,900	Pounds/LCY
Description:	Sand and gravel - Dry	
Rated Payload:	122,520	Pounds
Payload Capacity:	42.25	LCY

Truck Travel (Haul & Return) Time:

penetration 5.0

Truck Bed (volume) Basis:						
Struck Volume:	35.00	LCY				
Heaped Volume:	46.50	LCY				
Average Volume:	40.75	LCY				
Adjusted Volume:	42.25	LCY				
Fin	al Truck Volur	ne Based on Number	of Loader Passes:	32.91	LCY	
Loading Tool Capacity						
Rated Capacity:	11.250	I CV (baanad)		et Size Class: N	ÍA	_
Bucket Fill Factor:	0.975	LCY (heaped)	yel (95% - 100%) 0.9	975		=
Adjusted Capacity:	10.969	LCY	ver (2370 - 10070) 0.2	713		-
Job Condition Correction	ıs:		Site Altitude (ft.): 70	000 feet		
	Truck	Loader	Source			
Altitude Adj:	1.000	1.000	(CAT HB)	1		
Job Efficiency:	0.830	0.830	(CAT HB)			
No. Commenting	0.020	0.020				
Net Correction:	0.830	0.830				
Loading Tool Cycle Time	e: Numl	ber of Loading Tool F	Passes Required to F	ill Truck:	3 t	200000
		\mathcal{C}	asses required to r	III IIuck.	l	oasses
		S	asses required to r	III 11uck.	I	asses
Excavators and Front Show	vels:	-		<u></u>	1	Jasses
Excavators and Front Show	vels:	tion Rating: <u>NA</u>				Jasses
Excavators and Front Show	vels: vs. Job Condit within this Ba	tion Rating: NA asic Rating: NA				Jasses
Excavators and Front Show Machine Cycle Time Selected Value	vels: vs. Job Condit e within this Ba – Material Des	tion Rating: NA asic Rating: NA			<u> </u>	asses
Excavators and Front Show Machine Cycle Time Selected Value Track Loaders Cycle Time Elements (min	vels: vs. Job Condit e within this Ba – Material Des	tion Rating: NA asic Rating: NA Scription:				asses
Excavators and Front Show Machine Cycle Time Selected Value Track Loaders	vels: vs. Job Condit e within this Ba – Material Des	tion Rating: NA asic Rating: NA		Dump:0.100		asses
Excavators and Front Show Machine Cycle Time Selected Value Track Loaders Cycle Time Elements (min	vels: vs. Job Condit ws. Job Condit within this Ba Material Des	tion Rating: NA NA NA Scription: NA Maneuver: NA		Dump: 0.100		
Excavators and Front Show Machine Cycle Time Selected Value Track Loaders Cycle Time Elements (min Load: NA Wheel and Track Loaders	vels: vs. Job Condit e within this Ba — Material Des .): s - Unadjusted	tion Rating: NA NA NA Scription: NA Maneuver: NA		Dump: 0.100 aneuver): 0) .600 min	
Excavators and Front Show Machine Cycle Time Selected Value Track Loaders Cycle Time Elements (min Load: NA Wheel and Track Loaders Cycle Time Factors	vels: vs. Job Condit ws. Job Condit within this Ba — Material Des .): s - Unadjusted	tion Rating: NA asic Rating: NA NA scription: Maneuver: NA Basic Loader Cycle T	Time (load, dump, m	Dump: 0.100 aneuver): 0 Factor (min.)) .600 min	
Excavators and Front Show Machine Cycle Time Selected Value Track Loaders Cycle Time Elements (min Load: NA Wheel and Track Loaders	vels: vs. Job Condit ws. Job Condit within this Ba — Material Des .): s - Unadjusted Material 1/	tion Rating: NA NA NA Scription: NA Maneuver: NA	Time (load, dump, m	Dump: 0.100 aneuver): 0) .600 min	
Excavators and Front Show Machine Cycle Time Selected Value Track Loaders Cycle Time Elements (min Load: NA Wheel and Track Loaders Cycle Time Factors Material	vs. Job Condite within this Ba — Material Des .): s - Unadjusted Material 1/	tion Rating: NA asic Rating: NA NA scription: Maneuver: NA Basic Loader Cycle To 3/4" diameter - 0	Time (load, dump, m	Dump: 0.100 aneuver): 0 Factor (min.) -0.020	.600 minus Source (Cat HB)	
Excavators and Front Show Machine Cycle Time Selected Value Track Loaders Cycle Time Elements (min Load: NA Wheel and Track Loaders Cycle Time Factors Material Stockpile	vels: vs. Job Condit within this Ba — Material Des .): s - Unadjusted Material 1/ Dumped by Common o	tion Rating: NA asic Rating: NA NA scription: Maneuver: NA Basic Loader Cycle To 3/4" diameter - 6 y truck 0.02	Time (load, dump, m	Dump: 0.100 aneuver): 0 Factor (min.) -0.020 0.020	Source (Cat HB) (Cat HB)	
Excavators and Front Show Machine Cycle Time Selected Value Track Loaders Cycle Time Elements (min Load: NA Wheel and Track Loaders Cycle Time Factors Material Stockpile Truck Ownership	vels: vs. Job Condit e within this Ba — Material Des .): s - Unadjusted Material 1/ Dumped by Common of Constant of	tion Rating: NA sasic Rating: NA	Fime (load, dump, m	Dump: 0.100 aneuver): 0 Factor (min.) -0.020 0.020 -0.040	Source (Cat HB) (Cat HB) (Cat HB)	
Excavators and Front Show 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	vels: vs. Job Condit e within this Ba — Material Des .): s - Unadjusted Material 1/ Dumped by Common of Constant of	tion Rating: NA NA scription: Maneuver: NA	Cime (load, dump, m 0.02 nd loaders -0.04 ime Adjustment:	Dump: 0.100 aneuver): 0 Factor (min.) -0.020 0.020 -0.040 -0.040 0.000 -0.080	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes	
Excavators and Front Show 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	vels: vs. Job Condit e within this Ba — Material Des .): s - Unadjusted Material 1/ Dumped by Common of Constant of	tion Rating: NA NA scription: Maneuver: NA	Fime (load, dump, m	Dump: 0.100 aneuver): 0 Factor (min.) -0.020 0.020 -0.040 -0.040 0.000	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	
Excavators and Front Show 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	vels: vs. Job Condit e within this Ba — Material Des .): s - Unadjusted Material 1/ Dumped by Common of Constant of	tion Rating: NA asic Rating: NA Scription: Maneuver: NA Basic Loader Cycle T (8" to 3/4" diameter -0 y truck 0.02 ownership of trucks ar peration -0.04 arget 0.00 Net Cycle T Adjusted Loa	Cime (load, dump, m 0.02 nd loaders -0.04 ime Adjustment:	Dump: 0.100 aneuver): 0 Factor (min.) -0.020 0.020 -0.040 -0.040 0.000 -0.080	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes	
Excavators and Front Show 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	vels: vs. Job Condit e within this Ba — Material Des .): s - Unadjusted Material 1/ Dumped by Common of Constant of	tion Rating: NA asic Rating: NA Scription: Maneuver: NA Basic Loader Cycle T (8" to 3/4" diameter -0 y truck 0.02 ownership of trucks ar peration -0.04 arget 0.00 Net Cycle T Adjusted Loa	Cime (load, dump, m 0.02 and loaders -0.04 dime Adjustment:ader Cycle Time:	Dump: 0.100 aneuver): 0 Factor (min.) -0.020 0.020 -0.040 -0.040 0.000 -0.080 0.520	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes	
Excavators and Front Show 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	vels: vs. Job Condit within this Ba — Material Des .): s - Unadjusted Material 1/ Dumped by Common of Nominal ta	tion Rating: NA asic Rating: NA Scription: Maneuver: NA Basic Loader Cycle T (8" to 3/4" diameter -0 y truck 0.02 ownership of trucks ar peration -0.04 arget 0.00 Net Cycle T Adjusted Loa	Cime (load, dump, m 0.02 and loaders -0.04 dime Adjustment: ander Cycle Time: Time per Truck:	Dump: 0.100 aneuver): 0 Factor (min.) -0.020 0.020 -0.040 -0.040 0.000 -0.080 0.520	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes	
Excavators and Front Show 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 Condite within this Ba — Material Des .): s - Unadjusted Material 1/ Dumped by Common of Constant of Nominal ta	tion Rating: NA asic Rating: NA NA Scription: Maneuver: NA Basic Loader Cycle To Struck 0.02 ownership of trucks are peration -0.04 arget 0.00 Net Cycle To Adjusted Load Net Load Minutes	Time (load, dump, m 0.02 Ind loaders -0.04 Itime Adjustment: Inder Cycle Time: Time per Truck: Adjusted f	Dump: 0.100 aneuver): 0 Factor (min.) -0.020 0.020 -0.040 -0.040 0.000 -0.080 0.520 1.140	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes	utes

Road Condition: Rutted dirt, little maintenance, no water, 2" tire

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	750.00	3.00	5.00	8.00	1023	0.790

Return Route:

Seg # Haul Distance Grade (%) Roll. Res Total Res Velocity Travel

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	750.00	-3.00	5.00	2.00	3569	0.394

Return Time: 0.394 minutes
Total Truck Cycle Time: 4.124 minutes

Loading Tool unit

Production ____1,073.03 LCY/Hour Adjusted for job efficiency: ____890.61 LCY/Hour

Truck Unit Production

478.75 LCY/Hour Adjusted for job efficiency: 397.36 LCY/Hour

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

Adjusted hourly truck team production: 794.73 LCY/Hour Adjusted single truck/loader team production: 794.73 LCY/Hour Adjusted multiple truck/loader team production: 1,589.46 LCY/Hour

JOB TIME AND COST

Fleet size: 2 Team(s) Total job time: 239.85 Hours

Unit cost: \$1.926 /LCY Total job cost: **\$734,352**

BULLDOZER WORK

Task description:	Placen	nent of ba	ckfill materi	al in mining area 1		
: Blue Pit		Per	mit Action:	2024 SI-3	Permit/Job#:	M1981207
PROJECT IDEN	TIFICATIO	<u>N</u>				
Task #: 03A		State:	Colorado		Abbreviation:	None
Date: $\frac{-0.511}{5/21/2}$	2024	County:	Garfield		Filename:	M207-03a
User: TJ1					-	
Agency or	organization n	ame: Dl	RMS			
HOURLY EQUI	PMENT COS	<u>ST</u>				
Basic Machine:	Cat D9T - 9S	SU				
Horsepower:	405			<u></u>		
Blade Type:	Semi-Univer			<u> </u>		
Attachment:	3-shank rippe	er		<u>—</u>		
Shift Basis:	1 per day			<u>—</u>		
Data Source:	(CRG)					
Cost Breakdown:				1		
				<u>Utilization %</u>		
Ownership Cost/H			\$238.76	NA		
Operating Cost/H			\$162.29	100		
Ripper own. Cost/H			\$18.32	NA 25		
Ripper op. Cost/H			\$2.25	25		
Operator Cost/H	lour:		\$41.30	NA		
MATERIAL QU Initial Volume: Swell factor:	359,647 1.000					
Loose volume:	359,647 LCY					
Source of estimated Source of estimated		Exhibit E				
HOURLY PROD	<u>OUCTION</u>					
Average push distar Unadjusted hourly p		375 feet 327.8 LCY	/hr			
Materials consistence	cy description:	Partly	consolidated	stockpile 1.1		
Average push gradio Average site altitude		eet				
Material weight:	_2,900 11	bs/LCY				
Weight description:	Decom	posed rock	- 50% Rock	, 50% Earth		
Job Condition Corre		^	750	Source		
	rator Skill:		.750	(AVG.)		
Material co			.000	(CAT HB)		
DOZII	ng method:			(GEN.)		
	Visibility:	1	.000	(AVG.)		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.900	(SSD-FC)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4887

Adjusted unit production: 160.20 LCY/hr
Adjusted fleet production: 640.8 LCY/hr

JOB TIME AND COST

Fleet size: 4 Dozer(s)
Unit cost: \$2.890/LCY

Total job time: 561.25 Hours
Total job cost: \$1,039,243

BULLDOZER RIPPING WORK

	Task description:	Rip	pit floor/compacted area	ıs				
Site:	: Blue Pit		Permit Action:	2024 SI-3	P	ermit/Job#	: <u>M1981</u> 2	207
	PROJECT ID	ENTIFICATI	<u>ION</u>					
	Task #: 04	Δ	State: Colorado		Abh	reviation:	None	
		1/2024	County: Garfield			Filename:	M207-04	4a
	User: TJ						1,120, 0	
	Agency	or organization	n name: DRMS					
	HOURLY EQ	UIPMENT C	<u>OST</u>					
	Basic	Machine: Ca	t D9T - 9SU		Horsepower:		405	
	Ripper Att	achment: 3-5	Shank Ripper		Shift Basis:		per day	
					Data Source:	((CRG)	
	Cost Breakdown:	<u>.</u>						
					Utilization %			
		Ownership C		\$238.76	NA	=		
		Operating C		\$162.29	100	_		
		er Ownership C		\$18.32	NA 100	=		
	Rıpı	per Operating C		\$8.98	100	_		
		Operator C Total Unit C		\$41.30 \$469.65	NA	=		
		Total Fleet C	dost/Hour: \$469	9.65				
	MATERIAL (<u>)UANTITIES</u>	Sele Sele	ected estimating	g method: Are	a		
	Alternate Method	<u>ls:</u>						
Seismic:	NA		Bank Volume:	NA	BCY		NA	
Area:	20.10	acres	Rip Depth (ft):	2.50	Volume:	81,070		BCY or CC
		Source of esti	mated quantity: _ Exhibit	t E & L				
	HOURLY PRO	ODUCTION						
	Seismic:							
	<u>Scisific.</u>		Seismic Velocity:	NA	feet/sec	cond		
			Beishile velocity.	1111		ond		
	Area:		D' ' D 4	2.62	C /			
			ge Ripping Depth:	2.63 7.67	feet/pas			
			ge Ripping Width:e Ripping Length:	300.00	feet/pas feet/pas			
		_	rage Dozer Speed:	88.00	feet/mi			
			e Maneuver Time:	0.25	minutes			
		_	ction per unit area:	0.866	acres/h			
	Job Condition Co	orrection Factor	s					
			Unit Production:	0.866	Acres/h	ır		
		J	Site Altitude:	7,000	feet			
			Altitude Adj:	1.00	(CAT I	HB)		
			Job Efficiency:	0.83	(1 shift			
			Net Correction:	0.83	multipl			
			Hourly Unit Production: Hourly Fleet Production:	0.72 0.72	Acres/hr Acres/hr			
	JOB TIME AN							
	Fleet size:	1	_ Grader(s)	Total job tin	ne:	27.96	Но	ours
	Unit cost:	\$653,265	Per acre	Total job co	ost: \$	13.131		

<u>Post-Mining Drainage Channel Construction (Ditches)</u>

-	Blue Pit			Permit Action:	2024 SI-3		Permit/Jo	bb#: M1981207	
P	PROJECT	'IDENTIFIC	CATION	TION					
-	Task #:	05A	Sta	State: Colorado County: Garfield			Abbreviation: None Filename: M207-05a		
	Date: User:	5/21/2024 TJ1	Coun	ty: Garrield			rnenam	e: <u>W1207-03a</u>	
	Ag	ency or organi	zation name:	DRMS					
	Channel	Length (ft)	Depth (ft)	Width (bottom) (ft)	Side Slopes (XH:1V)	Width (top) (ft)	Excavated Vol./LF (CY)	Excavated Vol. (total) (CY)	
	Grouted	3,417	1.50	2.00	2.00	8.00	0.2778	949	
	Channel Totals:	3,417						949	
	Riprap	Riprap Thickness (2xD50) (ft)	Perimeter, P (ft)	Area for Geotextile (excl. anchor trenches) (sf)	Riprap (C				
		0.00	8.71	29,756	C)			
	Totals:			29,756	0)			
	<u>Costs:</u>		rap (CY): ion (CY):	3,802 0 949		(CV): \$3	24.50		
<u>C</u>	l Equip	terial Costs: Labor Cost: oment Cost: s Reference	Geotextile (S' 31 32 1916 15	\$0.32 \$0.00	_ Riprap _ _ _ _ 31 37 1310	\$1 \$1	14.65 15.10	vation (CY): \$0. \$2. \$2. \$2.	
	l Equip	Labor Cost:	Geotextile (S) 31 32 1916 15	\$0.32 \$0.00	Riprap - 31 37 1310	\$1 \$1	14.65 15.10	\$2. \$2.	
	Equip Equip Means <u>'otals:</u> Ge	Labor Cost: oment Cost:		\$0.32 \$0.00	_ _ _	\$1 \$1	14.65 15.10	\$2. \$2.	
<u>T</u>	Equip Equip Means <u>'otals:</u> Ge	Labor Cost: oment Cost: s Reference otextile (SY): Riprap (CY):	31 32 1916 15 \$13,763.7 \$0.00	\$0.32 \$0.00	_ _ _	\$1 \$1	14.65 15.10	\$2. \$2.	
Ţ	Equip Means <u>'Otals:</u> Ge Exc <u>Hours:</u>	Labor Cost: coment Cost: s Reference cotextile (SY): Riprap (CY): avation (CY): cotextile (SY): 87.50 SY/HR	31 32 1916 15 \$13,763.7 \$0.00	\$0.32 \$0.00	_ _ _	\$1 \$1	14.65 15.10	\$2. \$2.	
Ţ	Equip Means <u>'Otals:</u> Ge Exc <u>Hours:</u>	Labor Cost: oment Cost: s Reference otextile (SY): Riprap (CY): avation (CY): otextile (SY):	\$13,763.7 \$0.00 \$4,964.1	\$0.32 \$0.00	_ _ _	\$1 \$1	14.65 15.10	\$2. \$2.	

Total Post-Mining Channel Reconstruction hours: 67.18 Hours

Total Post-Mining Channel Reconstruction Cost: \$18,728

MOTOR GRADER WORK

Task description:	Catchment benc	hes			
Blue Pit	Per	mit Action:	2024 SI-3	Peri	mit/Job#: <u>M1981207</u>
PROJECT IDENT	<u>IFICATION</u>				
Task #: 05B	State:	Colorado		Abbre	viation: None
Date: 5/21/202		Garfield			ename: M207-05b
User: TJ1					
A gancy or or	rganization name: DF	RMS			
Agency of of	gamzation name. Dr	(IVI)			
HOURLY EQUIP	MENT COST				
Basic Mach				Horsepower:	259
Ripper Attachm	ent:			Shift Basis:	1 per day
				Data Source:	(CRG)
Cost Breakdown:			1		
0	1' C //II		ф1.40.22	Utilization %	
	vnership Cost/Hour:		\$149.33	NA 100	
	perating Cost/Hour: vnership Cost/Hour:		\$92.79 \$0.00	100 NA	
	perating Cost/Hour:		\$0.00	INA	
**	Operator Cost/Hour:		\$28.56	NA	
	otal Unit Cost/Hour:		\$270.68		
То	tal Fleet Cost/Hour:	\$270	0.68		
MATERIAL QUA	<u>NTITIES</u>				
Total Aı	rea to be graded or rippe	ed: 6.70			acres
					
20	urce of estimated acreag	ge: 8.25 V	V x 35,399' L		·
HOURLY PRODU	CTION				
HOURLITRODO					
	Average Grader Sp		1.75	mph	1) 1.75
	Selected Applica		Ditch build: 45	ing/cleaning (0-3 n	nph) - 1.75
	Selected Blade An Effective Blade Lei		9.90	degrees feet	
Wid	th of blade overlap per		2.00	feet	
	ng or ripping width per		7.90	feet	
	sted Hourly Unit Produc		1.6758	acres/hou	r
	•				
Job Condition Correct	ion Factors		.511	te Altitude: 7000 fe	eet
		Source			
Altitude Adj		(CAT HE			
Job Efficiency		(1sh/d, far			
Net Correction	: 0.9000	multiplier			
	Adjusted Hourly Unit		1.5082	acres/Hour	
	Adjusted Hourly Fleet	Production:	1.5082	acres/Hour	
JOB TIME AND C	OST				
Fleet size:	1 Grader(s)		Total job time	4.44	Hours
Unit cost: \$	179.47 per acre		Total job cost	: \$1,202	

TRUCK/LOADER TEAM WORK

Task description:	Energy	Dissipation Rocl	KS			
Site: Blue Pit		Permit Action	on: 2024 SI-3		Permit/Job#: N	11981207
PROJECT IDE	NTIFICATION					
Task #: 05C		State: Color		Ab		one
	2024	County: Garfie	eld		Filename: M	207-05c
User: TJ1 Agency o	r organization nar	ne: DRMS				
HOURLY EQU				Shift bas	is: <u>1 per day</u>	
			Equipment Descri	ption		
	Truck Loader Tea		773F T 990H			
Sup	port Equipment -I		D9T - 9SU			
			D9T - 9SU			
Road N	Iaintenance –Mot		T 14M	<u> </u>		
	-W2	ter Truck: Wa	ter Tanker, 7,000	Gal.		
Cost Breakdown:	Truck/Lo	ader Team	Support I	Equipment	Maintena	nce Equipment
COSC DI CUITAG WILL	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	100	100	100	100	100
Ownership cost/hour:	\$150.99	\$77.20	\$238.76	\$238.76	\$149.33	\$86.29
Operating cost/hour:	\$113.66	\$120.94	\$162.29	\$162.29	\$92.79	\$113.77
%Utilization-riper:	NA	0	100	NA	NA	
Ripper own. cost/hour:	NA	\$0.00	\$18.32	\$0.00	\$0.00	
Ripper op. cost/hour:	NA	\$0.00	\$8.98	\$0.00	\$0.00	\$0.00
Operator cost/hour:	\$33.34	\$40.71	\$41.30	\$41.30	\$28.56	\$27.68
Unit Subtotals:	\$297.99	\$238.85	\$451.33	\$442.35	\$270.68	\$227.74
Number of Units:	2	2	1	1	1	1
Group Subtotals:	Work:	\$1,073.68	Support:	\$893.68	Maint:	\$498.42
Total work team co		78				
Initial volume	e: 40	CCY	Swell	factor: 1.000		
Loose volume		LCY		<u> </u>		
Sci	ource of estimated	volume: Divis	sion of Reclamation	on Mining & Safe	etv	
	e of estimated swe		bit E & L	m, mining & sure		
	Material Purch					
	To	otal Cost: \$0.00)			
HOURLY PRO	<u>DDUCTION</u>					
Truck Capacity: Truck Payload (we						
Material			Pounds/LCY			
	·	rovided	Down J.			
Rated P Payload Ca			Pounds LCY			

Truck Travel (Haul & Return) Time:

penetration 5.0

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	- Unadjusted B Material 1/8 Conveyor or Common ow Constant ope Nominal targ	Maneuver: NA Masic Loader Cycle Time To 3/4" diameter -0.02 To dozer piled 10 ft. high To trucks and 1 To trucks and 1 To trucks and 1 To truck and 1 To tr	or less 0.01 oaders -0.04 e Adjustment: r Cycle Time: me per Truck:	Dump: 0.100 maneuver): 0 Factor (min.) -0.020 0.010 -0.040 -0.040 0.000 -0.090 0.510 4.180 for site altitude:	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes 0.700	ntes
Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	- Unadjusted B Material 1/8 Conveyor or Common ow Constant ope	Maneuver: NA Masic Loader Cycle Time To 3/4" diameter -0.02 To dozer piled 10 ft. high To trucks and 1 To trucks and 1 To trucks and 1 To truck and 1 To tr	or less 0.01 oaders -0.04 e Adjustment: r Cycle Time:	naneuver): 0 Factor (min.) -0.020 0.010 -0.040 -0.040 0.000 -0.090 0.510	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes	ites
Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	- Unadjusted B Material 1/8 Conveyor or Common ow Constant ope	Maneuver: NA Masic Loader Cycle Time To 3/4" diameter -0.02 To dozer piled 10 ft. high To trucks and 1 To trucks and 1 To trucks and 1 To truck and 1 To tr	or less 0.01 oaders -0.04 e Adjustment: r Cycle Time:	naneuver): 0 Factor (min.) -0.020 0.010 -0.040 -0.040 0.000 -0.090 0.510	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes	ites
Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	- Unadjusted B Material 1/8 Conveyor or Common ow Constant ope	Maneuver: NA Masic Loader Cycle Time "to 3/4" diameter -0.02 dozer piled 10 ft. high whership of trucks and 1 eration -0.04 get 0.00 Net Cycle Time	or less 0.01 oaders -0.04 e Adjustment:	naneuver): 0 Factor (min.) -0.020 0.010 -0.040 -0.040 0.000 -0.090	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes	ntes
Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	- Unadjusted B Material 1/8 Conveyor or Common ow Constant ope	Maneuver: NA Pasic Loader Cycle Time To 3/4" diameter -0.02 To dozer piled 10 ft. high To the properties of trucks and 1 To the properties of trucks an	2 or less 0.01 oaders -0.04	naneuver): 0 Factor (min.) -0.020 0.010 -0.040 -0.040 0.000	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	ites
Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership:	- Unadjusted B Material 1/8 Conveyor or Common ow	Maneuver: NA Pasic Loader Cycle Time To 3/4" diameter -0.02 Todozer piled 10 ft. high Townership of trucks and 1	2 or less 0.01	raneuver): 0 Factor (min.) -0.020 0.010 -0.040	Source (Cat HB) (Cat HB) (Cat HB)	ites
Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile:	- Unadjusted B Material 1/8 Conveyor or	Maneuver: NA Pasic Loader Cycle Time To 3/4" diameter -0.00 To dozer piled 10 ft. high	2 or less 0.01	naneuver): 0 Factor (min.) -0.020 0.010	Source (Cat HB) (Cat HB)	ntes - -
Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material:	: - Unadjusted B Material 1/8	Maneuver: NA asic Loader Cycle Tim to 3/4" diameter -0.02	2	naneuver): 0 Factor (min.) -0.020	.600 minu Source (Cat HB)	ites
Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors	: - Unadjusted B 	Maneuver: NA asic Loader Cycle Tim		naneuver): 0 Factor (min.)	.600 minu	ites
Cycle Time Elements (min.) Load: NA Wheel and Track Loaders): N	Maneuver: NA	e (load, dump, r	naneuver): 0	.600 minu	ıtes
Cycle Time Elements (min.) Load: NA): N	Maneuver: NA		•		
Cycle Time Elements (min.)	:	•		Dump: 0.100)	
		<u> </u>				
Trook London						
Science value						
Machine Cycle Time Selected Value						
Excavators and Front Shove		D // 374				
Loading Tool Cycle Times	_	er of Loading Tool Pass	ses required to	rm muck.	<u>9</u> p	asses
			on Dogwierd to	Fill Tenals	0	00000
Net Correction:	0.830	0.830				
Job Efficiency:	0.830	0.830	(CAT HE			
Altitude Adj:	1.000	1.000	(CAT HB			
	Truck	Loader	Source			
Job Condition Corrections	<u>:</u>	Site	e Altitude (ft.): 2	7 <u>000</u> feet		
Adjusted Capacity:	5.063	LCY				
Bucket Fill Factor:	0.450	Rock - Poorly bl	asted (40% - 509	%) 0.450		=
Rated Capacity:	11.250	LCY (heaped)				
			Bucl	ket Size Class: N	A	
Loading Tool Capacity						
Fina	l Truck Volume	e Based on Number of	Loader Passes:	45.56	LCY	
	10.50	LC I				
rajustea voianie.	46.50	LCY				
Adjusted Volume: _	40.75	LCY LCY				
Heaped Volume: _ Average Volume: _ Adjusted Volume: _	46.50	1 017				

CIRCES Cost Estimating Software

Road Condition: Rutted dirt, little maintenance, no water, 2" tire

Page 3 of 3

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1000.00	3.00	5.00	8.00	1023	1.034

Haul Time: **1.034** minutes Return Route: Travel Haul Distance Grade (%) Roll. Res Total Res Velocity Seg# Time (Ft) (%) (%) (fpm) (min) 1000.00 5.00 2.00 -3.00 3569 0.464

Return Time: 0.464 minutes
Total Truck Cycle Time: 7.478 minutes

Selected Number of Trucks: 1 Truck(s)

Loading Tool unit

Optimal No. of Trucks:

Production 560.19 LCY/Hour Adjusted for job efficiency: 464.96 LCY/Hour Truck Unit Production 365.57 LCY/Hour Adjusted for job efficiency: 303.43 LCY/Hour

Adjusted hourly truck team production: 303.43 LCY/Hour Adjusted single truck/loader team production: 303.43 LCY/Hour Adjusted multiple truck/loader team production: 606.85 LCY/Hour

JOB TIME AND COST

2 Truck(s)

 Fleet size:
 2
 Team(s)
 Total job time:
 0.07
 Hours

 Unit cost:
 \$4.063
 /LCY
 Total job cost:
 \$163

TRUCK/LOADER TEAM WORK

			THE CIT DOTT	DER TEITHT	· OILII		
	Task description:	Transpo	ort topsoil to pit f	loor			
Site	Blue Pit		Permit Action	on: 2024 SI-3		Permit/Job#: N	11981207
	PROJECT IDEN	NTIFICATION]				
	Task #: 06A		State: Colora	ıdo	Ab	breviation: No	one
	Date: 5/21/2 User: TJ1	2024	County: Garfie	ld		Filename: M	207-06a
	Agency or	r organization nar	ne: DRMS				
	HOURLY EQUI	PMENT COST	<u>r</u>		Shift bas	is: <u>1 per day</u>	
_				Equipment Descri	ption		
Truck Loader Team -Truck: Cat 773F							
Loader: CAT 990H Support Equipment -Load Area: Cat D9T - 9SU							
	Supp			D9T - 9SU D9T - 9SU			
_	Road M	Iaintenance –Mot		Γ 14M			
	Rodu W			er Tanker, 7,000	Gal.		
-							
	Cost Breakdown:		ader Team		Equipment		nce Equipment
		Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
%Ut	ilization-machine:	100	100	100	100	100	100
Ow	nership cost/hour:	\$150.99	\$77.20	\$238.76	\$238.76	\$149.33	\$86.29
Or	erating cost/hour:	\$113.66	\$120.94	\$162.29	\$162.29	\$92.79	\$113.77
9	6Utilization-riper:	NA	0	100	NA	NA	NA
Ripp	er own. cost/hour:	NA	\$0.00	\$18.32	\$0.00	\$0.00	\$0.00
Rip	per op. cost/hour:	NA	\$0.00	\$8.98	\$0.00	\$0.00	\$0.00
С	perator cost/hour:	\$33.34	\$40.71	\$41.30	\$41.30	\$28.56	\$27.68
	Unit Subtotals:	\$297.99	\$238.85	\$451.33	\$442.35	\$270.68	\$227.74
	Number of Units:	4	2	1	1	1	1
	Group Subtotals:	Work:	\$1,669.66	Support:	\$893.68	Maint:	\$498.42

Total work team cost/hour: \$3,061.76

MATERIAL QUANTITIES

Initial volume: 161,333 **CCY** Swell factor: 1.000

Loose volume: ____ LCY 161,333

> Source of estimated volume: Division of Reclamation, Mining & Safety

Source of estimated swell factor: Exhibit E & L

> Material Purchase Cost: \$0.00

Total Cost: \$0.00

HOURLY PRODUCTION

Truck Capacity:

Truck Payload (weight) Basis:

Material weight: 1,600 Pounds/LCY

Top Soil Description: Rated Payload: 122,520 Pounds Payload Capacity: 76.58 LCY

Truck Bed (volume) Basis: Struck Volume:						
Struck volume:	35.00 LC	TV.				
Heaped Volume:	46.50 LC					
Average Volume:	40.75 LC					
Adjusted Volume:	46.50 LC					
	Fruck Volume B	ased on Number of Lo	oader Passes	41.63	LCY	
Loading Tool Capacity			ouder russes.	12100		
Loading 1001 Capacity			Buck	et Size Class:	NA	
Rated Capacity:	11.250	LCY (heaped)		_		_
Bucket Fill Factor:	0.925	Loose material - 1/	/8" to 3/8" (90	- 95%) 0.925		_
Adjusted Capacity:	10.406	LCY				_
Job Condition Corrections:		Site A	Altitude (ft.): 7	<u>000</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				
	-					
Track Loaders – I	vithin this Basic F Material Descript					
Cycle Time Elements (min.):						
Load: NA						
· · · · · · · · · · · · · · · · · · ·	Man	neuver: NA		Dump: 0.10	00	
Wheel and Track Loaders -	_	-	—— (load, dump, n	·	0.600 minu	utes
	- Unadjusted Basic	Loader Cycle Time	 (load, dump, n	·		utes
Wheel and Track Loaders - Cycle Time Factors Material:	Unadjusted Basic	2 Loader Cycle Time 3/4" diameter -0.02		raneuver): Factor (min.) -0.020	0.600 minu Source (Cat HB)	utes
Wheel and Track Loaders - Cycle Time Factors Material: Stockpile:	Unadjusted Basic Material 1/8" to Conveyor or doz	2 Loader Cycle Time 3/4" diameter -0.02 zer piled 10 ft. high o	r less 0.01	Factor (min.) -0.020 0.010	0.600 minu Source (Cat HB) (Cat HB)	utes - -
Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership:	Unadjusted Basic Material 1/8" to Conveyor or doz Common owner	2 Loader Cycle Time 3/4" diameter -0.02 zer piled 10 ft. high o	r less 0.01	Factor (min.) -0.020 0.010 -0.040	Source (Cat HB) (Cat HB) (Cat HB)	utes
Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	Unadjusted Basic Material 1/8" to Conveyor or doz Common owner Constant operati	2 Loader Cycle Time 3/4" diameter -0.02 zer piled 10 ft. high o rship of trucks and loadion -0.04	r less 0.01	Factor (min.) -0.020 0.010 -0.040 -0.040	Source (Cat HB) (Cat HB)	utes
Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership:	Unadjusted Basic Material 1/8" to Conveyor or doz Common owner	2 Loader Cycle Time 3/4" diameter -0.02 zer piled 10 ft. high of trucks and loadion -0.04 0.00	r less 0.01 nders -0.04	Factor (min.) -0.020 0.010 -0.040 -0.040 0.000	Source (Cat HB) (Cat HB)	utes
Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	Unadjusted Basic Material 1/8" to Conveyor or doz Common owner Constant operati	2 Loader Cycle Time 3/4" diameter -0.02 zer piled 10 ft. high of trucks and loadion -0.04 0.00 Net Cycle Time	r less 0.01 nders -0.04 Adjustment:	Factor (min.) -0.020 0.010 -0.040 -0.040 0.000 -0.090	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes	utes
Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	Unadjusted Basic Material 1/8" to Conveyor or doz Common owner Constant operati	2 Loader Cycle Time 3/4" diameter -0.02 zer piled 10 ft. high of trucks and loadion -0.04 0.00	r less 0.01 nders -0.04 Adjustment: Cycle Time:	Factor (min.) -0.020 0.010 -0.040 -0.040 0.000	Source (Cat HB) (Cat HB)	utes
Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	Unadjusted Basic Material 1/8" to Conveyor or doz Common owner Constant operati	2 Loader Cycle Time 3/4" diameter -0.02 Zer piled 10 ft. high of the cycle and loadion -0.04 0.00 Net Cycle Time Adjusted Loader (r less 0.01 nders -0.04 Adjustment: Cycle Time:	Factor (min.) -0.020 0.010 -0.040 -0.040 0.000 -0.090 0.510	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes	utes
Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	Material 1/8" to Conveyor or doz Common owner Constant operati	2 Loader Cycle Time 3/4" diameter -0.02 Zer piled 10 ft. high of the cycle and loadion -0.04 0.00 Net Cycle Time Adjusted Loader (r less 0.01 aders -0.04 Adjustment: Cycle Time: e per Truck:	Factor (min.) -0.020 0.010 -0.040 -0.040 0.000 -0.090 0.510	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes	utes
Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Cycle Time:	Unadjusted Basic Material 1/8" to Conveyor or doz Common owner Constant operati Nominal target (2 Loader Cycle Time 3/4" diameter -0.02 Zer piled 10 ft. high of the ship of trucks and load ion -0.04 0.00 Net Cycle Time Adjusted Loader Control Net Load Time	r less 0.01 aders -0.04 Adjustment: Cycle Time: e per Truck: Adjusted	Factor (min.) -0.020 0.010 -0.040 -0.040 0.000 -0.090 0.510 1.630	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes	

<u>Truck Travel (Haul & Return) Time:</u> Road Condition: <u>Rutted dirt, little maintenance, no water, 2" tire penetration 5.0</u>

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1000.00	3.00	5.00	8.00	1023	1.034

Haul Time: **1.034** minutes Return Route: Travel Haul Distance Grade (%) Roll. Res Total Res Velocity Seg# Time (Ft) (%) (%) (fpm) (min) 1000.00 -3.00 5.00 2.00 3569 0.464

Return Time: 0.464 minutes
Total Truck Cycle Time: 4.928 minutes

Loading Tool unit

Production 1,071.89 LCY/Hour Adjusted for job efficiency: 889.67 LCY/Hour Truck Unit Production

_____506.80 LCY/Hour Adjusted for job efficiency: ____420.64 LCY/Hour

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

Adjusted hourly truck team production: 841.28 LCY/Hour Adjusted single truck/loader team production: 841.28 LCY/Hour Adjusted multiple truck/loader team production: 1,682.57 LCY/Hour

JOB TIME AND COST

 Fleet size:
 2
 Team(s)
 Total job time:
 95.88
 Hours

 Unit cost:
 \$1.820
 /LCY
 Total job cost:
 \$293,577

BULLDOZER WORK

		nent of topsoil on slop	oca ar cas		
Blue Pit		Permit Action:	2024 SI-3	Permit/Job#:	M1981207
PROJECT IDEN	TIFICATIO	<u>N</u>			
Task #: 07A		State: Colorado		Abbreviation:	None
Date: $\frac{-6/11}{5/21/2}$	2024	County: Garfield		Filename:	M207-07a
User: TJ1				_	
Δ gency or	organization na	ame: DRMS			
HOURLY EQUI	PMENT COS	<u>51</u>			
Basic Machine:	Cat D9T - 9S	U			
Horsepower:	405				
Blade Type:	Semi-Univers	sal			
Attachment:	NA				
Shift Basis:	1 per day		<u>—</u>		
Data Source:	(CRG)		<u> </u>		
Cost Breakdown:					
			<u>Utilization %</u>		
Ownership Cost/H		\$238.76	NA		
Operating Cost/H		\$162.29	100		
Ripper own. Cost/H		\$0.00	NA		
Ripper op. Cost/H		\$0.00	25		
Operator Cost/H	0114.	\$41.30	NA		
Operator Cost/1.	ioui.	Ψ41.50	INA	<u></u>	
-			IVA		
Total unit Cost/Hou Total Fleet Cost/Ho	\$442.35 ur: \$1,769.	j	INA INA		
Total unit Cost/Hou	\$442.35 ur: \$1,769. **EANTITIES** 128,905	j			
Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume:	\$442.35 ur: \$1,769.	j			
Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor: Loose volume:	### \$442.35 ### \$1,769. ### \$1,769. ### \$1,769. ### \$1,769. ### \$1,769. ### \$1,000 ### \$	41			
Total unit Cost/Hot Total Fleet Cost/Hot MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated	### \$442.35 ### \$1,769. ### \$1,769. ### \$1,769. ### \$1,769. ### \$1,000 ### \$1	Exhibit E & L			
Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor: Loose volume:	### \$442.35 ### \$1,769. ### \$1,769. ### \$1,769. ### \$1,769. ### \$1,000 ### \$1	41			
Total unit Cost/Hot Total Fleet Cost/Hot MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated	### \$442.35 ####################################	Exhibit E & L			
Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated	### \$442.35 ####################################	Exhibit E & L Cat Handbook			
Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated	### \$442.35 ####################################	Exhibit E & L			
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	### ##################################	Exhibit E & L Cat Handbook			
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	### ##################################	Exhibit E & L Cat Handbook 225 feet 888.9 LCY/hr Loose stockpile 1.			
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 Source of estimated HOURLY PROI Average push distant Unadjusted hourly publication Materials consistent Average push gradient Source of estimated Source push distant Unadjusted hourly push Source Sou	### ##################################	Exhibit E & L Cat Handbook 225 feet 888.9 LCY/hr Loose stockpile 1.			
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 Source of estimated HOURLY PROI Average push distant Unadjusted hourly publicated Materials consistent Average push gradi Average site altitud	### \$442.35 ### \$442.35 ### \$1,769. ### \$1,769. ### \$1,769. ### \$1,769. ### \$1,769. ### \$1,769. ### \$1,769. ### \$1,769. ### \$1,000 ### \$1,000 ### \$1,000 ### \$1,600 ### \$1,600	Exhibit E & L Cat Handbook 225 feet 888.9 LCY/hr Loose stockpile 1.			
Total unit Cost/Hou Total Fleet Cost/Hou Total Fleet Cost/Hou MATERIAL QUE Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated Source of estimated HOURLY PROI Average push distant Unadjusted hourly push Materials consistent Average push gradi Average site altitud Material weight: Weight description:	\$442.35	Exhibit E & L Cat Handbook 225 feet 888.9 LCY/hr Loose stockpile 1.	2		
Total unit Cost/Hou Total Fleet Cost/Hou Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated Fleet	\$442.35	Exhibit E & L Cat Handbook 225 feet 888.9 LCY/hr Loose stockpile 1.			
Total unit Cost/Hou Total Fleet Cost/Hou Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated Fleet	\$442.35	Exhibit E & L Cat Handbook 225 feet 888.9 LCY/hr Loose stockpile 1.	Source		
Total unit Cost/Hou Total Fleet Cost/Hou Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated Fleet	### \$442.35 ### \$442.35 ### \$1,769. ### ### \$1,769. ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### #### ####	Exhibit E & L Cat Handbook 225 feet 888.9 LCY/hr Loose stockpile 1.	Source (AVG.)		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.900	(SSD-FC)
Push gradient:	0.666	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.6439

Adjusted unit production: 250.41 LCY/hr
Adjusted fleet production: 1001.64 LCY/hr

JOB TIME AND COST

Fleet size: 4 Dozer(s)
Unit cost: \$1.767/LCY

Total job time: 128.69 Hours \$227,712

BULLDOZER WORK

Task description:	Placem	ent of top	soil on open	pit areas			
: Blue Pit		Per	mit Action:	2024 SI-3		Permit/Job#:	M1981207
PROJECT IDEN	TIFICATION	<u>1</u>					
Task #: 07B		State:	Colorado		Ab	breviation:	None
Date: 5/21/2	2024	County:	Garfield			Filename:	M207-07b
User: TJ1		,				_	
Agency or	organization na	me: DI	RMS				
HOURLY EQUI	PMENT COS	<u>T</u>					
Basic Machine:	Cat D9T - 9SI	J					
Horsepower:	405			<u> </u>			
Blade Type:	Semi-Univers	al					
Attachment:	NA			<u></u>			
Shift Basis:	1 per day			<u></u>			
Data Source:	(CRG)			<u> </u>			
Cost Breakdown:							
_ cost 21cundown.				<u>Utilization</u>	%		
Ownership Cost/H	lour:		\$238.76	NA			
Operating Cost/H			\$162.29	100			
Ripper own. Cost/H			\$0.00	NA			
Ripper op. Cost/H	lour:		\$0.00	25			
Operator Cost/H			\$41.30	NA			
	r: \$442.35						
Initial Volume: Swell factor:	32,428 1.000						
Loose volume:	32,428 LCY						
Source of estimated	volume:	Exhibit E	E & L				
Source of estimated	_	Cat Hand					
HOURLY PROI	<u>OUCTION</u>						
Average push distar	nce: 32	25 feet					
Unadjusted hourly p	production: 38	88.9 LCY	/hr				
Materials consistence	ey description:	Loose	stockpile 1.2				
Average push gradi Average site altitud		et					
Material weight:	_1,600 lb	s/LCY					
Weight description:	Top Soil						
Job Condition Corre			7. 0	Sour			
	rator Skill:		.750	(AVC			
	onsistency:		.200	(CAT I			
Dozii	ng method:		.000	(GEN			
	Visibility:	1	.000	(AVC	J.)	<u> </u>	

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.900	(SSD-FC)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Page 2 of 2

Net correction: 0.9668

Adjusted unit production: 375.99 LCY/hr
Adjusted fleet production: 1503.96 LCY/hr

JOB TIME AND COST

Fleet size: 4 Dozer(s)
Unit cost: \$1.176/LCY

Total job time: 21.56 Hours
Total job cost: \$38,152

REVEGETATION WORK

Fask description: Reveg R Blue Pit		2024	CI 2		Parmit/Joh#	: M1981207
Diue Fit	Permit Action: 2024 SI-3 Permit/Job#:				: <u>M119812</u> 07	
ROJECT IDENTIFICATION						
Task #: 08A	State: Colorado			Abb	reviation:	None
	ounty: Garfield			<u> </u>	Filename:	M207-08a
User: TJ1						
Agency or organization nam	e: <u>DRMS</u>					
<u>ERTILIZING</u>						
 [aterials						
Description	Ur Ac	nits / ere	Unit	Cost	/ Unit	Cost /Acre
				\$		\$
				Tota	al Fertilizer Materials Cost/Acre	\$0.00
pplication						Cost /Acre
Description						
						\$
		Total	Fertilizer	Application	n Cost/Acre	\$0.00
<u>ILLING</u>						
Description						Cost /Acre
Disc harrowing, 6" deep (MEANS	32 91 13.23 6100)					\$112.82
			Т	otal Tilling	g Cost/Acre	\$112.82
EEDING						

Seed Mix	PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Native	2.50	8.09	\$16.25
Mountain Brome - Bromar	3.75	6.03	\$14.25
Slender Wheatgrass - Pryor	5.00	18.25	\$21.25
Thickspike Wheatgrass - Critana	5.00	17.68	\$34.38
Rabbitbrush, Rubber	2.00	29.80	\$128.59
Western Wheatgrass - Barton	5.00	12.63	\$35.00
Needlegrass, Green - Lodorm	3.75	15.58	\$44.16
Saltbush, Four Wing	2.00	2.75	\$25.00

110.81

\$318.87

Totals Seed Mix	29.00	

Application

Description		Cost /Acre
Drill seeding (MEANS 32 92 19.13 0020)		\$468.00
	Total Seed Application Cost/Acre	\$468.00

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - Curtail @ 4.0 pt/ac	1.00	ACRE	\$35.09	\$35.09
Total Mulch Materials Cost/Acre				\$35.09

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$74.46
Power mulcher (MEANS 32 91 13.16 0350)		\$147.67
Weed spray, truck, non-aquatic area, nox. [DMG]		\$62.72
	Total Mulch Application Cost/Acre	\$284.85

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:
 79.9
 Cost /Acre:
 \$1,219.63

 Estimated Failure Rate:
 25%
 Cost /Acre*:
 \$1,219.63

*Selected Replanting Work Items: TILLING, SEEDING, MULCHING

Initial Job Cost: \$97,448.44

Reseeding Job Cost: \$24,362.11

Total Job Hours: \$121,811

100.00

REVEGETATION WORK

Blue Pit		Permit/Job#: M198120				
	NATION					
ROJECT IDENTIFIC						
Task #: 08B		lorado rfield		At		None
Date: 5/21/2024 User: TJ1	County: <u>Gar</u>		Filename: _	M207-08b		
	zation name: DRMS					
ERTILIZING						
aterials						
101101		Units /				
Description		Acre	Unit	Co	st / Unit	Cost /Acre
				\$		\$
				То	tal Fertilizer	
				10	Materials	
					Cost/Acre	\$0.00
						,
						\$
		Total	Fertilizer	Application	on Cost/Acre	\$0.00
<u>LLING</u>						
Description						Cost /Acre
	o (MEANS 32 91 13.23 6	5100)				\$112.82
			_		~	
			<u>.</u>	Total Tilli	ng Cost/Acre	\$112.82
EDING						
				Rate –		
Seed Mix				PLS	Seeds	Cost /Acre
Decu IVIIA				LBS /	per SQ.	0000/11010
				Acre	FT	
Meadow Brome - Fleet				7.00	6.43	\$27.83
Orchardgrass - Potomac				8.00	99.17	\$34.12
Alfalfa - Ladak (inocula				12.00	57.85	\$30.60
		Totals S	Seed Mix	27.00	163.45	\$92.55
			<u> </u>			φ14.33
li 4i v						
plication						
plication Description						Cost /Acre

Total Seed Application Cost/A	Acre \$468.00

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - Curtail @ 4.0 pt/ac	1.00	ACRE	\$35.09	\$35.09
Total Mulch Materials Cost/Acre				\$35.09

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$74.46
Power mulcher (MEANS 32 91 13.16 0350)		\$147.67
Weed spray, truck, non-aquatic area, nox. [DMG]		\$62.72
	Total Mulch Application Cost/Acre	\$284.85

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: 20.1 Cost /Acre: \$993.31

Estimated Failure Rate: 25% Cost /Acre*: \$993.31

*Selected Replanting Work Items: __TILLING,SEEDING,MULCHING

Initial Job Cost: \$19,965.53

Reseeding Job Cost: \$4,991.38

Total Job Cost: \$24,957

Job Hours: 25.00

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Tas	k description: <u>In</u>	itial mobilize re	eclamation o	rew/equipme	nt	
Site: _ E	Blue Pit	Perr	nit Action:	2024 SI-3	Permit/Jol	o#: <u>M1981207</u>
PRO	DJECT IDENTIFICAT	<u>ION</u>				
,	Task #: 09A	State:	Colorado		Abbreviation:	None
	Date: 5/21/2024 User: TJ1	County:	Garfield		Filename:	M207-09a
	Agency or organization	on name: DRI	MS			
EQU	UIPMENT TRANSPOL	RT RIG COST	<u>r</u>			
					Shift basis:	1 per day
						CRG Data
	Truck Tractor Des	cription: GE	NERIC ON-		RUCK TRACTOR, 6X4, 1 IP (2ND HALF, 2006)	DIESEL POWERED,
	Truck Trailer Des	cription:	GENERIC		DOSENECK, DROP DEC	K EQUIPMENT
				TRAILE	R (25T, 50T, AND 100T)	
Cost	Breakdown:					
Av	ailable Rig Capacities	0-25 Tons	26-50	Tons 5	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		\$22.52	
	Helper Cost/Hour:	\$0.00	\$23	.53	\$23.53	

NON ROADABLE EQUIPMENT:

Total Unit Cost/Hour:

\$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 D9T - 9SU	66.13	\$257.08	\$175.95	4	\$1,732.12	\$703.80	\$500.00
Cat 773F	49.74	\$150.99	\$158.17	4	\$1,236.64	\$632.68	\$500.00
CAT 990H	83.34	\$77.20	\$175.95	2	\$506.30	\$351.90	\$250.00
CAT 14M	23.57	\$155.16	\$82.29	1	\$237.45	\$82.29	\$250.00
Water Tanker,	29.65	\$86.29	\$158.17	1	\$244.46	\$158.17	\$250.00
7,000 Gal.							
Drill/Broadcast	25.00	\$6.73	\$82.29	1	\$89.02	\$82.29	\$250.00
Seeder with							
Tractor							
Power Mulcher	6.00	\$25.94	\$82.29	1	\$108.23	\$82.29	\$250.00
(Bowie LD-90)							

\$158.17

\$175.95

Subtotals: \$4,154.22 \$2,093.42 \$2,250.00

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	\$55.12	1	\$55.12	\$55.12

Subtotals	\$55.12	\$55.12

Task # 09A

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:

Total one-way travel distance:

Average Travel Speed:

GLENWOOD SPRINGS
miles
mph

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.33	0.33
Return Time (Hours):	0.33	0.33
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.67	0.67

JOB TIME AND COST

Total job cost: 3.33 Hours

Total job cost: \$17,010

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description:	Secondary mobilize	e reclamation crew	/equipment		
site: Blue Pit	Permi	it Action: 2024 SI	1-3	Permit/Job	o#: <u>M1981207</u>
PROJECT IDENTIFICA	<u>ATION</u>				
Task #: 09B Date: 5/21/2024 User: TJ1		Colorado Garfield	Al	bbreviation: Filename:	None M207-09b
Agency or organiza	tion name: <u>DRM</u>	S			
EQUIPMENT TRANSPO	escription: GEN		Cost Data S AY TRUCK TRAC 400 HP (2ND HA	Source: C CTOR, 6X4, I LF, 2006)	l per day CRG Data DIESEL POWERED,
Truck Trailer D	escription:	GENERIC FOLDIN TR	NG GOOSENECK, AILER (25T, 50T,		K EQUIPMENT
Cost Breakdown:					
Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons	=	
Ownership Cost/Hou	r: \$20.26	\$36.04	\$47.05	_	
Operating Cost/Hou	r: \$39.51	\$76.08	\$82.85	_	
Operator Cost/Hou	r: \$22.52	\$22.52	\$22.52		
Helper Cost/Hou	r: \$0.00	\$23.53	\$23.53		
Total Unit Cost/Hou	r: \$82.29	\$158.17	\$175.95	_	

NON ROADABLE EQUIPMENT:

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		
Drill/Broadcast	25.00	\$6.73	\$82.29	1	\$89.02	\$82.29	\$250.00
Seeder with							
Tractor							
Power Mulcher	6.00	\$25.94	\$82.29	1	\$108.23	\$82.29	\$250.00
(Bowie LD-90)							

Subtotals: \$197.25 \$164.58 \$500.00

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.	\$55.12	1	\$55.12	\$55.12
Crew				

Subtotals: \$55.12 \$55.12

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:

Total one-way travel distance:

Average Travel Speed:

GLENWOOD SPRINGS
miles
mph

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.33	0.33
Return Time (Hours):	0.33	0.33
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.67	0.67

JOB TIME AND COST

Total job cost: 3.33 Hours

Total job cost: \$1,672