COST SUMMARY WORK

7	Task description: Rec	lamation Cost	Estimate	Summary			
Site:	Macanite #VII & #VIII	Perr	nit Action:	TR1 and 2022	Update	Permit/Job#	#: <u>M2014041</u>
<u>P</u>	ROJECT IDENTIFICATI	<u>ON</u>					
	Task #: 000	State:	Colorado		A	Abbreviation:	None
	Date: 2/18/2022	County:	Teller			Filename:	M041-000
	User: ERR						
	Agency or organization	name: DR	MS				
<u>T</u> .	ASK LIST (DIRECT COS	<u>TS)</u>					
ask				Form	Fleet	Task	
	Description			Used	Size	Hours	Cost
01	Backfill Open Excavation ((30'W x 60'L x	(20'D)	DOZER	_ 1	4.76	\$960
02	Replace Topsoil			DOZER	1	0.17	\$35
02A	Rip Access Trail			RIPPER	1	0.14	\$31
03	Revegetate 1 Acre			REVEGE	1	2.00	\$1,672
04	Mob/Demob of Reclamation	n Equipment		MOBILIZE	1	5.57	\$1,719
				SUBTO	OTALS:	12.64	\$4,417
	NDIRECT COSTS						
0	VERHEAD AND PROFIT:						
	Liability insurance:	2.02				$Total = _\$89$	
	Performance bond:	1.05				Total = \$46	5
	Job superintendent:	0.00				Total = \$0	40
	Profit:	10.00			тотат	$Total = \underbrace{\$44}_{4}$ $A \circ A \circ P = \underbrace{\$57}_{4}$	
			CONTI	RACT AMOUNT			,994
			COIVII	are miletin	(affect)	<u> Ψ1,</u>	221
LI	EGAL - ENGINEERING - PRO	OJECT MANA	GEMENT:				
	Financial warranty processi		-	\$0	_	$Total = \underline{\$0}$	
	Engineering work and/or c			0.00	_	Total = $\$0$	
	Reclamation managemen	t and/or admin	istration:	5.00		\$25	50
		CONTIN	GENCY:	0.00		Total =\$0	
				TOTAL I	NDIRECT	COST = $$82$	27
				TOTAL	(direct + i	ndirect) =\$5,	244
			тот	AL BOND AMO	OUNT (ro	unded) =\$5,	250

BULLDOZER WORK

Task description:	Backfill O	pen Excavation (30)'W x 60'L x 20'D)		
: Macanite #VII &	#VIII	Permit Action:	TR1 and 2022 Update	Permit/Job#:	M2014041
PROJECT IDENT	<u>CIFICATION</u>				
Task #: 001		State: Colorado		Abbreviation:	None
Date: 2/17/20		ounty: Teller		Filename:	001
User: ERR		-		-	
Agency or o	rganization name	: DRMS			
HOURLY EQUIP	MENT COST				
Basic Machine:	Cat D7R DS XR	Series II	_		
Horsepower:	240 Semi-Universal		<u> </u>		
Blade Type: Attachment:	NA		_		
Shift Basis:	1 per day		_		
Data Source:	(CRG)		<u> </u>		
Cost Breakdown:	,		_		
COST DIEGROOMII.		1	<u>Utilization %</u>		
Ownership Cost/Ho	ur:	\$81.02	NA		
Operating Cost/Ho		\$79.33	100		
Ripper own. Cost/Ho	ur:	\$0.00	NA		
Ripper op. Cost/Ho		\$0.00	0		
Operator Cost/Ho	ur:	\$41.30	NA		
Swell factor:	1,300 1.430				
Loose volume:1	1,859 LCY				
Source of estimated v Source of estimated s		R1: 1,300 CY (30'x on Handbook	60' x 20'deep dig)		
HOURLY PRODU	<u>JCTION</u>				
Average push distanc Unadjusted hourly pro		eet 2.9 LCY/hr			
Materials consistency	description:	Partly consolidated	stockpile 1.1		
Average push gradier Average site altitude:					
Material weight:	3,300 lbs/L	CY		_	
Weight description:	Decompose	ed rock - 75% Rock,	25% Earth		
Job Condition Correc			Source		
	tor Skill:	0.750	(AVG.)		
Material con		1.100	(CAT HB)		
	method:	1.000	(GEN.)		
V	isibility:	1.000	(AVG.)		

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:	0.697	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3818

Adjusted unit production: 390.54 LCY/hr
Adjusted fleet production: 390.54 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.516/LCY

Total job time: 4.76 Hours
Total job cost: \$960

BULLDOZER WORK

Task description:	Replace 7	Горsoil			
: Macanite #VII &	k #VIII	Permit Action:	TR1 and 2022 Update	Permit/Job#:	M2014041
PROJECT IDEN	TIFICATION				
Task #: 002		State: Colorado		Abbreviation:	None
Date: $\frac{002}{2/17/2}$	2022 C	County: Teller		Filename:	M041-002
User: ERR					
Agency or	organization nam	e: DRMS			
HOURLY EQUI	PMENT COST				
Basic Machine:	Cat D7R DS XI	R Series II	<u> </u>		
Horsepower:	240				
Blade Type:	Semi-Universal		<u> </u>		
Attachment: Shift Basis:	NA 1 per devi		<u> </u>		
Data Source:	1 per day (CRG)		<u> </u>		
	(CRU)		<u> </u>		
Cost Breakdown:			*****		
O		001.00	<u>Utilization %</u>		
Ownership Cost/H		\$81.02	NA 100		
Operating Cost/H Ripper own. Cost/H		\$79.33 \$0.00	100 NA		
Ripper own. Cost/H		\$0.00	0		
		\$41.30			
Operator Cost/H	our:	\$41.30	NA		
MATERIAL QU Initial Volume: Swell factor:	67 1.250				
Loose volume:	84 LCY				
Source of estimated Source of estimated		Cat Handbook	? <u>)</u>		
HOURLY PROD	<u>UCTION</u>				
Average push distant Unadjusted hourly p		feet 22.9 LCY/hr			
Materials consistence	ey description:	Partly consolidated	stockpile 1.1		
Average push gradie Average site altitude					
Material weight:	2,650 lbs/l	LCY		_	
Weight description:	Decompos	sed rock - 25% Rock	, 75% Earth		
Job Condition Corre	ection Factor		Source		
	rator Skill:	0.750	(AVG.)		
Material co		1.100	(CAT HB)		
Dozir	ng method:	1.000	(GEN.)		
	Visibility:	1.000	(AVG.)		

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:	0.868	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4755

Adjusted unit production: 486.39 LCY/hr
Adjusted fleet production: 486.39 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.415/LCY

Total job time: 0.17 Hours
Total job cost: \$35

BULLDOZER RIPPING WORK

	Task description:	Rip A	Access Trail						
Site	: Macanite #VII	& #VIII	Permit Action	: _ TR1 and 202	2 Update Permit/Jo	b#: <u>M2014</u>	041		
	PROJECT IDE	ENTIFICATIO	<u>ON</u>						
	Task #: 002	A	State: Colorado)	Abbreviation	n: None			
		3/2022	County: Teller		Filenam		02A		
	User: ERI		, <u> </u>						
	Agency	or organization	name: DRMS						
	HOURLY EQU	JIPMENT CO	<u>OST</u>						
	Basic N	Machine: Cat	D7R DS XR Series II		Horsepower:	240			
	Ripper Atta		nank Ripper		Shift Basis:	1 per day			
	11		**		Data Source:	(CRG)			
	Cost Breakdown:								
	Cost Biomico Will				Utilization %				
		Ownership Co	st/Hour:	\$81.02	NA				
		Operating Co		\$79.33	100				
	Rippe	r Ownership Co	st/Hour:	\$9.32	NA				
	Ripper Operating Cost/Hour:			\$5.93	100				
		Operator Co	st/Hour:	\$41.30	NA				
		Total Unit Co	st/Hour:	\$216.90					
		Total Fleet Co	st/Hour: \$2	16.90					
	MATERIAL QUANTITIES Selected estimating method: Area								
	Alternate Method		Si	ciccica estimatin	g method. Area				
G		<u> </u>	D1 W.1	NT A	DCV	NTA			
Seismic: Area:	NA 0.05	acres	Bank Volume: Rip Depth (ft):	NA 12.00	BCY Volume: 968	NA	BCY or CC		
Aica.	0.03				volune		DCT of CC		
	Source of estimated quantity: TR1 Map (125'x15')								
	HOURLY PRO	<u>DUCTION</u>							
	Seismic:								
		S	Seismic Velocity:	NA	feet/second				
	Aron								
	Area:	Δverage	e Ripping Depth:	2.45	feet/pass				
			e Ripping Width:	6.50	feet/pass				
			Ripping Length:	25.00	feet/pass				
			ige Dozer Speed:	88.00	feet/minute				
			Maneuver Time:	0.25	minutes/pass				
		_	ion per unit area:	0.419	acres/hour				
	Job Condition Correction Factors								
	Una	adjusted Hourly	Unit Production:	0.419	Acres/hr				
			Site Altitude:	8,450	feet				
			Altitude Adj:	1.00	(CAT HB)				
			Job Efficiency:	0.83	(1 shift/day)				
			Net Correction:	0.83	multiplier				
		Adjusted	Hourly Unit Production	n: 0.35	Acres/hr				
			Hourly Clift Froduction Hourly Fleet Production		Acres/hr				
	JOB TIME AN	v	,						
	Fleet size:	1	Grader(s)	Total job tir	me: 0.14	ц	ours		
	_	1		•			7415		
	Unit cost:	\$623.562	Per acre	Total job co	ost: \$31				

REVEGETATION WORK

Task description: Rev	egetate 1 Acr	e				
Macanite #VII & #VIII	Peri	mit Action: _T	R1 and 2022 U	pdate	Permit/Job#:	M2014041
ROJECT IDENTIFICATI	<u>ON</u>					
Task #: 003	State:	Colorado		At	breviation:	None
Date: 2/17/2022	County:	Teller		<u> </u>	Filename:	M041-003
User: ERR Agency or organization	name: DR	MS				
	manie. <u>Die</u>	1415				
<u>ERTILIZING</u> Iaterials						
Description		Units Acre	/ Unit	Cos	st / Unit	Cost /Acre
P		Tiere		\$		\$
				То	tal Fertilizer Materials Cost/Acre	\$0.00
Application						
Description						Cost /Acre
						\$
		T	otal Fertilizer	Application	on Cost/Acre	\$0.00
CILLING						
Description						Cost /Acre
Chisel plowing {DMG}						\$96.50
			Т	otal Tilliı	ng Cost/Acre	\$96.50
SEEDING						
				Rate –	G 1	G
Seed Mix				PLS LBS /	Seeds per SQ.	Cost /Acre
				Acre	FT	
Arizona Fescue - Redondo				10.50	120.52	\$97.13
Blue Grama - Native				2.50	40.81	\$34.31

Sand Dropseed

Needle and Thread

Prairie Junegrass

Western Wheatgrass - Arriba

Currant, Wax

\$39.00

\$118.62

\$208.00

\$456.17

\$20.80

\$974.02

4.00

2.00

32.00

10.90

0.80

62.70

Totals Seed Mix

477.50

6.89

80.81

28.78

42.52

797.83

Application

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

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

Application

Description		Cost /Acre
		\$
	Total Mulch Application Cost/Acre	\$0.00

NURSERY STOCK PLANTING

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

JOB TIME AND COST

No. of Acres:	1	Cost /Acre:	\$1,337.74	
Estimated Failure Rate:	25%	Cost /Acre*:	\$1,337.74	
*Selected Replanting Work Items:	TILLING.SEEDING			

Initial Job Cost: \$1,337.74

Reseeding Job Cost: \$334.44

Total Job Cost: Job Hours: \$2.00

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description: Mob/Demob of Reclamation Equipment					
Site: Macanite #VII & #VIII	Permi	t Action: TR1 and	d 2022 Update	Permit/Job	#: <u>M2014041</u>
PROJECT IDENTIFICA	TION				
Task #: 004	State: C	Colorado	A	bbreviation:	None
Date: 2/17/2022	County: T	`eller		Filename:	M041-004
User: ERR	<u> </u>			-	
Agency or organiza	tion name: DRMS	S			
EQUIDMENT TO ANCO	ODT DIC COST				
EQUIPMENT TRANSPO	JKI KIG COSI				
			Shi		per day
			Cost Data	Source: C	RG Data
Truck Tractor D	escription: GENI	ERIC ON-HIGHWA	AY TRUCK TRA	CTOR, 6X4, D	DIESEL POWERED,
400 HP (2ND HALF, 2006)					
Truck Trailer Description: GENERIC FOLDING GOOSENECK, DROP DECK EQUIPMENT					
TRAILER (25T, 50T, AND 100T)					
Cost Due als dessen					
Cost Breakdown:				_	
Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons	_	
Ownership Cost/Hour		\$37.94	\$47.67	_	
Operating Cost/Hour		\$50.48	\$56.21	_	
Operator Cost/Hour		\$20.54	\$20.54	_	
Helper Cost/Hour	r: \$0.00	\$23.53	\$23.53	_	

NON ROADABLE EQUIPMENT:

Total Unit Cost/Hour:

\$68.37

Machine Description	Weight/ Unit (TONS)	Owner ship Cost/hr/ unit	Haul Rig Cost/hr/uni t	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
Cat D7R DS XR Series II	32.01	\$81.02	\$132.49	1	\$213.51	\$132.49	\$250.00

\$132.49

\$147.95

Subtotals: \$213.51 \$132.49 \$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	\$75.87	1	\$75.87	\$75.87
Drill/Broadcast Seeder with Tractor	\$16.28	1	\$16.28	\$16.28

Subtotals:	\$92.15	\$92.15

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:

Total one-way travel distance:

Average Travel Speed:

COLORADO SPRINGS
miles
mph

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	1.24	1.24
Return Time (Hours):	1.24	1.24
Loading Time (Hours):	0.15	NA
Unloading Time (Hours):	0.15	NA
Subtotals:	2.79	2.49

JOB TIME AND COST

Total job cost: 5.58 Hours

Total job cost: \$1,719