# COST SUMMARY WORK

T	ask description:	Cost Summary				
Site:	Ulrich - Rovedo Mine	Permit Action:	New Permit		Permit/Jol	o#: M2019057
PF	ROJECT IDENTIFIC	<u>ATION</u>				
	Task #: 000	State: Colorado		A	Abbreviation:	None
	Date: 2/18/2020	County: Park			Filename:	M057-000
T/	User: ERR  Agency or organiz  ASK LIST (DIRECT 0					
			F	El 4	TL	
ask	Description		Form Used	Fleet Size	Task Hours	Cost
01		Topsoil, and Grade Site	LOADER	1	4.89	\$326
02	Revegetate 0.5 Acres	• ,	REVEGE	1	5.00	\$443
03	Mob/Demob		MOBILIZE	1	2.16	\$194
			<u>SUBTO</u>	TALS:	12.05	\$963
	DIRECT COSTS  /ERHEAD AND PROFI	<u>Γ:</u>				
	Liability insuran	ce: 2.02			Total = \$	19
	Performance box	nd: 1.05			Total = \$	10
	Job superintende				Total = \$0	
	Pro	fit: 10.00		<b>TOT 1</b>		96
		CONTE	RACT AMOUNT			126 1,089
		CONTR	CACT AMOUNT	(direct +	$(0 \times F) = \frac{3}{2}$	1,009
LE		- PROJECT MANAGEMENT:				
		ocessing (legal/related costs):	\$0	-	Total =	
		d/or contract/bid preparation:	4.25 5.00	-		46
	Reciamation manag	ement and/or administration:	3.00			54
		CONTINGENCY:	0.00		Total =\$6	)
			TOTAL IN	DIRECT	COST =	227
			TOTAL (	direct + i	ndirect) = \$	1,190
		TOT	AL BOND AMO	UNT (ro	unded) =\$	1,200

### WHEEL LOADER – LOAD AND CARRY WORK

Task description:	Backfill	Pits, Replace Top	osoil, and Grad	de Site		
: Ulrich - Rovedo	Mine	Permit Action	n: New Perm	nit	Permit/Job#	: M2019057
PROJECT IDEN	<b>TIFICATION</b>					
Task #: 001		State: Colorae	do		Abbreviation:	None
Date: $\frac{2/18/2}{2}$	020	County: Park			Filename:	M057-001
User: ERR	<del></del>					
Agency or	organization nam	ne: DRMS				
HOURLY EQUI	PMENT COST	<u>-</u>				
Basic Machin	ne: CAT 246C			Horsep	ower:	73
Attachment						per day
Attachment	1. KOIB Cao			Data S		CRG)
				Data 5	(	
Cost Breakdown:			T T4'11' 4'	0/		
Ownership (	ost/Hour	\$11.27	Utilization NA	n %		
Operating (		\$14.69	100			
Operator (		\$40.65	NA			
Total Unit (		\$66.61	1171			
	-		<u> </u>			
Total Fleet	Cost/Hour:	\$66.61	<u>—</u>			
MATERIAL QU	<u>ANTITIES</u>					
Initial volume:	200	CCY	Swe	ll factor: 1	.330	
Loose volume:		LCY				
C	arce of estimated		4:			
	of estimated swe		andbook			
Source	of estimated swe	ii iacioi. Cai ii	andook			
HOURLY PROD	<u>UCTION</u>					
Loader Cycle Time:	Unadjust	ed Basic Cycle Tii	me (load, dump	o, maneuver):	0.425	minutes
Cycle Time	Factors				Factor (min.)	Source
		justment - factor n	ot applicable 0	00	0.000	(Cat HB)
		justment - factor n			0.000	(Cat HB)
Truck Owr		justment - factor n			0.000	(Cat HB)
		ant operation -0.04			-0.040	(Cat HB)
Dump	Target: Small	target 0.04			0.040	(Cat HB)
_		Net	Cycle Time Ad	ljustment:	0.000	minutes
		Adj	usted Basic Cy	cle Time:	0.425	minutes
Rolling Resistance -	- Road Condition	<u>s</u>				
J	Haul: Soft, rutt	ted dirt, no mainte	nance or water,	, 4" tire penet	ration 8.0	
Re	turn: Soft, rutt	ted dirt, no mainte	nance or water.	, 4" tire penet	ration 8.0	
Haul and Return Tir	<u>ne</u>					
		1	D 111	Total Res.	Travel Time	1
	Lenoth	Grade Res	Rolling	I Olai Kes		
	Length (feet)	Grade Res.	Rolling Res. (%)			Source
Haul Route:	(feet)	Grade Res. (%) 0.00	Rolling Res. (%) 8.00	(%) 8.00	(minutes) 0.0238	Source (Cat HB)

			Total Travel Time:		476 minutes
			Total Cycle Tin	ne: <b>0.4</b>	726 minutes
Load Bucket Capacity					
Rated Capac	ity: 0.53	LCY (hea	aped)		
Bucket Fill Fac	tor: 1.025	Rock - Ea	arth Mixture (100%	-105%) 1.02	5
Adjusted Capac	ity: <b>0.54</b>	LCY			
Job Condition Correcti Site Altitude: 8200 fee					
510 / Hereace. <u>6200</u> 100	•	~			
		Source			
Altitude Adj:	0.95	(CAT HE	3)		
Job Efficiency:	0.83	(1 shift/da	.y)		
Net Correction:	0.79	multiplier			
U	nadjusted Hourly U	Unit Production:	68.98	LCY/Hour	
	Adjusted Hourly U	Jnit Production:	54.39	LCY/Hour	
	Adjusted Hourly F	leet Production:	54.39	LCY/Hour	
JOB TIME AND C	<u>OST</u>				
Fleet size:	1 Loade	er(s)	Total job time: _	4.89	9 Hours
Unit cost: \$	1.225 /LCY		Total job cost:	\$32	6

## **REVEGETATION WORK**

Ulrich - Rovedo Mine	lo Mine Permit Action: New Permit Permit/Job#:				
PROJECT IDENTIFICA	ATION				
Task #: 002 Date: 2/18/2020 User: ERR		State: Colorado Abbreviati		Abbreviation: Filename:	None M057-002
Agency or organization	ation name: DRMS	S			
ERTILIZING					
<b>I</b> aterials			1		1
Description		Units / Acre	Unit	Cost / Unit	Cost /Acre
				\$	\$
				Total Fertilizer Materials	
				Cost/Acre	\$0.00
Application				Cost/Acre	
pplication  Description				Cost/Acre	Cost /Acre
		Total	Fertilizer A	.pplication Cost/Acre	
		Total	Fertilizer A		Cost /Acre
Description		Total	Fertilizer A		Cost /Acre
Description  FILLING	.}	Total	Fertilizer A		Cost /Acre \$ \$0.00

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Blue Grama - Hachita	1.25	20.40	\$19.97
Arizona Fescue - Redondo	3.75	43.04	\$34.69
Mountain Brome - Bromar	6.25	10.04	\$23.75
Bottlebrush Squirreltail	1.25	5.51	\$20.28
Slender Wheatgrass - Native	6.25	22.81	\$28.91
Muttongrass	2.50	51.65	\$86.00
Western Wheatgrass - Arriba	1.25	3.16	\$8.13
Prairie Junegrass	1.25	66.44	\$32.50
Spike Muhly	1.25	45.91	\$12.13

\$267.22

<b>Totals Seed Mix</b>	25.00	268.98	\$266.34
			Cost /Acre
			\$267.22
	Totals Seed Mix	Totals Seed Mix 25.00	Totals Seed Mix 25.00 268.98

**Total Seed Application Cost/Acre** 

### **MULCHING and MISCELLANEOUS**

#### Materials

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

**Application** 

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

#### **NURSERY STOCK PLANTING**

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

### **JOB TIME AND COST**

No. of Acres: 0.5 Cost /Acre: \$708.87
Estimated Failure Rate: 25% Cost /Acre\*: \$708.87
\*Selected Replanting Work Items: TILLING, SEEDING

Initial Job Cost: \$354.44

Reseeding Job Cost: \$88.61

Total Job Hours: \$443

5.00

### EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description: Mo	b/Demob				
site: Ulrich - Rovedo Mine	Permit	Action: New Pe	rmit F	Permit/Job#	t: <u>M2019057</u>
PROJECT IDENTIFICATI	<u>ON</u>				
Task #: 003 Date: 2/18/2020 User: ERR		olorado ark			None M057-003
Agency or organization	n name: DRMS	S			
EQUIPMENT TRANSPOR  Truck Tractor Desc			Shift bas Cost Data Sour AY TRUCK TRACTO 400 HP (2ND HALF,	ce: <u>CR</u> OR, 6X4, D	per day RG Data IESEL POWERED,
Truck Trailer Desc	ription: C		G GOOSENECK, DR AILER (25T, 50T, AN		EQUIPMENT
Cost Breakdown:					
Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons		
Ownership Cost/Hour:	\$17.20	\$29.63	\$38.69		
Operating Cost/Hour:	\$26.56	\$47.02	\$55.69		
Operator Cost/Hour:	\$23.63	\$23.63	\$23.63		
Helper Cost/Hour:	\$0.00	\$23.53	\$23.53		
Total Unit Cost/Hour:	\$67.39	\$123.81	\$141.54		

#### **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)		τ		fleet		

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	\$89.74	1	\$89.74	\$89.74

Subtotals: **\$89.74 \$89.74** 

### **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
54.00
mph

Total Non-Roadable Mob/Demob Cost \*
 '\* two round trips with haul rig:
Total Roadable Mob/Demob Cost \*\*
 \*\* one round trip, no haul rig:

\$0.00

\$193.84

### <u>Transportation Cycle Time:</u>

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	1.08	1.08
Return Time (Hours):	1.08	1.08
Loading Time (Hours):	0.15	NA
Unloading Time (Hours):	0.15	NA
Subtotals:	2.46	2.16

#### **JOB TIME AND COST**

Total job cost:	2.16	Hours
	\$194	