# COST SUMMARY WORK

:_	Maple Leaf Mine	Permit Action:	MD-01		Permit/Job	o#: P2016001
<u>PR</u>	OJECT IDENTIFICATION	<u> </u>				
	Task #: 000	State: Colorado		,	Abbreviation:	None
	Date: $\frac{600}{4/29/2020}$	County: Gunnison			Filename:	P001-000
	User: DMC	,				
	Agency or organization	name: DRMS				
	Agency of organization	name. Divis				
TA	SK LIST (DIRECT COST	<u>'S)</u>				
_			Form	Fleet	Task	
sk	Description		Used	Size	Hours	Cost
a	Seal 9 boreholes		BOREHOLE	1	9.00	\$21,438
a	Reclamation grading		LOADER	1	27.78	\$2,823
a	Revegetate disturbed areas		REVEGE	1	1.00	\$758
a	Moblilize reclamation crew	and equipment	MOBILIZE	1	4.00	\$872
IN	DIRECT COSTS					
OV	ERHEAD AND PROFIT:					
	Liability insurance:	2.02			Total = \$5	523
		1.05				272
		0.00			Total =	
	Profit:	10.00		mom + *		2,589
		CONTI	ACT AMOUNT			3,384
		CONTI	RACT AMOUNT	(airect +	$O\alpha r_j = \frac{5}{2}$	29,275
LE	GAL - ENGINEERING - PRO	JECT MANAGEMENT:				
	Financial warranty processin		\$0	_	$Total = _{\$}$	
	Engineering work and/or co		0.00	_	Total =	
	Reclamation management	and/or administration:	5.00	=	\$1	1,464
	· ·	<del>-</del>				
	Ç	CONTINGENCY:	0.00		$Total = _{} $($	)
		CONTINGENCY:	0.00 TOTAL IN	NDIRECT		) 4,848
					T COST =	

# **BOREHOLE SEALING WORK**

	Task description:	Seal 9 boreh	oles			
Site:	Maple Leaf Mine		Permit Action:	MD-01	Permit	/Job#: <u>P2016001</u>
PROJE	CCT IDENTIFICATI	ON				
Task	#: <u>01A</u>	State:	Colorado		Abbreviation:	None
Dat	te: 4/29/2020	County:	Gunnison		Filename:	P001-01a
Use	er: DMC	<u> </u>				
	Agency or organ	nization name:	DRMS			

# **UNIT COSTS**

Borehole Description	Sealing/Item Method	Diameter	Length	Quantity	Unit	Unit Cost	Total Cost
Bore Hole (9 holes)	Portland cement grout - 2 in. (labor, equip, materials)	2	500 ea	4,500.00	LF	\$4.76	\$21,438.00

 Job Hours:
 9.00
 Total Cost:
 \$21,438.00

# WHEEL LOADER – LOAD AND CARRY WORK

Task description:	Reclar	nation grading				
e: Maple Leaf Mi	1e	Permit Ac	etion: MD-01		Permit/Jol	p#: P201600
PROJECT IDEN	TIFICATION	<u> </u>				
Task #: 02A		State: Colo	rado		Abbreviation:	None
	2020	County: Gunr			Filename:	P001-02a
User: DMC		county. <u>cum</u>	113011		1 Heliame.	1001 020
Agency or	organization na	me: DRMS				
HOURLY EQUI	PMENT COS	<u>T</u>				
Basic Machi	ne: CAT 450	)E		Horsepo	ower.	101
Attachmen	<del></del>			Shift B		er day
7 tttaciiiiicii	11. 10150		_	Data So		CRG)
Cost Breakdown:			1 *****	0.4		
O	C4/II	¢20.72	Utilizatio	on %		
Ownership Operating		\$29.73 \$31.22	NA 100			
	Cost/Hour: Cost/Hour:	\$40.65	NA			
Total Unit		\$101.60	IVA			
Total Fleet	Cost/Hour:	\$101.60				
MATERIAL QU	<u>ANTITIES</u>					
Initial volume Loose volume		13 CC		ell factor: 1.0	000	
	urce of estimate		ision of Reclam	ation, Mining	& Safety	
Source	of estimated sw	ell factor: <u>Cat</u>	Handbook			
<b>HOURLY PROD</b>	<u>UCTION</u>					
<u>Loader Cycle Time:</u>		Unadjusted B	Basic Cycle Tim	e (load, dump, maneuver):	0.475	minutes
Cycle Time					Factor (min.)	Source
N		ed material 0.02			0.020	(Cat HB)
		idjustment - facto			0.000	(Cat HB)
Truck Ow		adjustment - facto		0.00	0.000	(Cat HB)
		stant operation -0	.04		-0.040	(Cat HB)
Dump	Target: Non	ninal target 0.00	. G. 1 55'	1.	0.000	(Cat HB)
			t Cycle Time A		-0.020	minutes
		Ac	djusted Basic Cy	cle l'ime:	0.455	minutes
Rolling Resistance -	Road Conditio	<u>ns</u>				
	Haul: Soft, r	utted dirt, no maii	ntenance or wat	er, 4" tire pene	tration 8.0	
		utted dirt, no maii				
Haul and Return Tir	<u>ne</u>					
	Length	Grade Res.	Rolling	Total Res.	Travel Time	
	(feet)	(%)	Res. (%)	(%)	(minutes)	Source
Haul Route		0.00	8.00	8.00	0.0476	(Cat HB)

	1	1	·		i	1			
Return Route:	50		0.00	8.00	8.00	0.0476	(Cat HB)		
					Travel Time:	0.0951 <b>0.5501</b>	minutes minutes		
Load Bucket Capacity									
Rated Capa Bucket Fill Fa Adjusted Capa	ctor:	1.50 0.450 <b>0.68</b>		(heaped) k - Poorly blast	ed (40% - 50%	6) 0.450			
Job Condition Correction Site Altitude: 8200 fee									
			So	ource					
Altitude Ad		95		T HB)					
Job Efficiency		83		ift/day)					
Net Correction	ı: <u>U.</u>	79	_ multi	plier					
J	Jnadjusted H	•				Y/Hour			
	Adjusted F					Y/Hour			
	Adjusted H	ourly Fle	et Product	sion: 58.	<u>05</u> LC:	Y/Hour			
JOB TIME AND COST									
Fleet size:	1	Loader	(s)	Total job	time:	27.79	Hours		
Unit cost:	\$1.750	/LCY		Total job	cost:	\$2,823	<u> </u>		

# **REVEGETATION WORK**

Task descri	iption:	Revegetate distu	rbed are	eas				
Maple L	eaf Mine	Permit Action: MD-01 Permit/Job#:			: P2016001			
ROJECT	DENTIFIC	CATION						
Task #: Date: User:	03A 4/29/2020 DMC gency or organi	State: County: zation name: DR	Colora Gunnis			Ab		None P001-03a
ERTILIZ								
<b>Laterials</b>								
Descript	ion			Units / Acre	Unit	Cos	st / Unit	Cost /Acre
						\$		\$
						Tot	tal Fertilizer Materials Cost/Acre	\$0.00
application								
Descript	ion							Cost /Acre
								\$
				Total	Fertilize	r Applicatio	on Cost/Acre	\$0.00
TILLING								
Descript	ion							Cost /Acre
		MEANS 31 31 16.1	13 3100)	1				\$193.60
						Total Tillin	ng Cost/Acre	\$193.60
<b>EEDING</b>								
Seed Mi	x					Rate – PLS LBS /	Seeds per SQ. FT	Cost /Acre

#### **Application**

Bluebunch Wheatgrass - Secar

Mountain Brome - Bromar

Sandberg Bluegrass - VNS

Idaho Fescue

Prairie Junegrass

Yarrow, Western

\$80.69

\$14.67

\$6.22

\$7.80

\$20.90

\$145.25

\$14.97

LBS/ Acre

7.42

3.86

0.74

1.58

0.30

0.50

14.40

**Totals Seed Mix** 

23.85

6.20

15.71

19.95

15.95

30.40

112.06

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

#### **MULCHING and MISCELLANEOUS**

#### Materials

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

**Application** 

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

#### **NURSERY STOCK PLANTING**

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

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

No. of Acres:	1	Cost /Acre:	\$606.07
Estimated Failure Rate:	25%	Cost /Acre*:	\$606.07
*Selected Replanting Work Items:	TILLING, SEEDING		

Initial Job Cost: \$606.07

Reseeding Job Cost: \$151.52

Total Job Cost: \$758

Job Hours: 1.00

# EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description:I	Moblilize reclamat	ion crew and eq	uipment		
ite: Maple Leaf Mine	Permi	t Action: MD-0	01	Permit/Job#	t: P2016001
PROJECT IDENTIFICA	<u>TION</u>				
Task #: 04A Date: 4/29/2020 User: DMC		Colorado Gunnison	A		None P001-04a
Agency or organizat	ion name: <u>DRM</u>	S			
EQUIPMENT TRANSPO		ERIC ON-HIGH	Shi Cost Data WAY TRUCK TRA 400 HP (2ND HA	Source: CF	per day RG Data IESEL POWERED,
Truck Trailer De	escription:		DING GOOSENECK TRAILER (25T, 507		EQUIPMENT
Cost Breakdown:				_	
<b>Available Rig Capacities</b>	0-25 Tons	26-50 Tons	51+ Tons	_	
Ownership Cost/Hour		\$29.63	\$38.69	_	
Operating Cost/Hour		\$47.02	\$55.69	_	
Operator Cost/Hour		\$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 Description	Weight/ Unit	Owner ship Cost/hr/ unit	Haul Rig Cost/hr/uni	Fleet Size	Haul Trip Cost/hr/	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
	(TONS)		t		fleet		
CAT 450E	9.80	\$29.73	\$67.39	1	\$97.12	\$67.39	\$250.00

Subtotals: \$97.12 \$67.39 \$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, 3/4 T.	\$12.96	1	\$12.96	\$12.96

Subtotals: \$12.96 \$12.96

#### **EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region:
Total one-way travel distance:
Average Travel Speed:

GUNNISON
miles
30.00
mph

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

\$12.96

#### **Transportation Cycle Time:**

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.50	0.50
Return Time (Hours):	0.50	0.50
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	2.00	1.00

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

Total job cost: 4.00 Hours

Total job cost: \$872