# COST SUMMARY WORK

Та	ask description:	AM01 Estimate					
Site: _	Upper Gold Links Mine	Per	mit Action:	2022-10-20 AN	М01	_ Permit/Jol	o#: <u>M2016083</u>
<u>PR</u>	OJECT IDENTIFICA	TION					
	Task #: 000	State:	Colorado			Abbreviation:	None
	Date: 10/20/2022	County:	Gunnison			Filename:	M2016083 AM01
	User: DMC						
	Agency or organiza	tion name: DR	RMS				
TA	ASK LIST (DIRECT C	OSTS)					
`ask				Form	Fleet		
	Description			Used	Size	Hours	Cost
1a	Seal Portals			MINESEAL	1	20.00	\$14,229
2a	Debris disposal			DEMOLISH	1	4.00	\$88
3a	Earthwork			DOZER	1	12.36	\$2,269
3b	Haul topsoil			LOADER	1	6.51	\$701
4a	Revegetation			REVEGE	1	3.00	\$2,766
5a	Mobilization			MOBILIZE	1	4.97	\$2,256
	DIRECT COSTS						
OV	<u>'ERHEAD AND PROFIT:</u>						
	Liability insurance	e: 2.02				Total = \$4	451
	Performance bond						234
	Job superintendent					Total =	
	Profit	t: 10.00			<b></b>		2,231
			CONTI	RACT AMOUNT			2,916 25,225
			CONTI	XACT AMOUNT	(unect	+ O & F) =\$.	23,223
LE	GAL - ENGINEERING - 1						
	Financial warranty proc			\$0	_	Total =	
	Engineering work and/			0.00	_	Total = $\$6$	
	Reclamation manager	nent and/or admi	nıstration:	5.00	_		1,261
		CONTIN	IGENCY:	0.00		Total = \$0	0
				TOTAL II	NDIREC	CT COST = \$4	4,177
		Т	OTAL BO	ND AMOUNT (d	lirect + i	indirect) =\$2	26,486

# SAFEGUARDING UNDERGROUND OPENINGS

Site: U	pper Gold Links Mine		Permit Action:	2022-10-20 AM01	Permit	/Job#: <u>M2016083</u>
ROJECT	TIDENTIFICATION	1				
Task #:	01A	State:	Colorado		Abbreviation:	None
Date:	10/20/2022	County:	Gunnison		Filename:	M2016083 AM01
User:	DMC					

# **UNIT COSTS**

Opening Description	Dimensions	Closure Method	Quantity	Unit	Unit Cost	Total Cost
400 Level	8'H x 7'W	Adit closure - grated door	1.00	EA	\$7,114.38	\$7,114.38
		(per opening)				
300 Level	8,H x 7'W	Adit closure - grated door	1.00	EA	\$7,114.38	\$7,114.38
		(per opening)				

# **DEMOLITION WORK**

Task descript	ion: Debris	disposal							
Site: Upper Gold	Links Mine	Permit Action: 202	22-10-20 AM01	Per	mit/Job#:	M2016083			
PROJECT IDENT	IFICATION								
Task #: 02A		tate: Colorado		Abbreviation	n: Non	ie			
Date:10/20/20	<u>)22</u> Cou	nty: Gunnison		Filenam	e: <u>M20</u>	016083AM0102a			
User: DMC									
Agenc	y or organization name	e: DRMS							
UNIT COSTS									
Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	<b>Total Cost</b>			
Debris disposal 50 c.y.		Excavate disposal pit with dozer (includes completed pit backfilling/grading)	50.00	CY	\$1.92	\$96.00			
Job Hours:	4.00	Subtotal (unadjusted):	\$96.00	(adjust	l Cost ed for ation): _	\$88.42			

# **BULLDOZER WORK**

Task description:	Earthwork				
te: <u>Upper Gold Links M</u>	<u>line</u> P	ermit Action:	2022-10-20 AM01	Permit/Jol	b#: <u>M2016083</u>
PROJECT IDENTIFI	<u>ICATION</u>				
Task #: 03A Date: 10/20/2022	State: County:			Abbreviation: Filename:	None M2016083AM0103
User: DMC					a
Agency or organ	nization name:I	ORMS			
HOURLY EQUIPME	NT COST				
Basic Machine: Ca Horsepower: 20 Blade Type: Str Attachment: NA	at D6T LGP 0 raight		- - -		
-	per day RG)		_		
Cost Breakdown:	,		_		
		Ф <b>7</b> 5 92	Utilization %		
Ownership Cost/Hour: Operating Cost/Hour:		\$75.83 \$66.34	NA 100		
Ripper own.	-	\$0.00	NA		
Cost/Hour:		\$0.00	0		
Ripper op. Cost/Hour: Operator Cost/Hour:		\$41.30	NA		
MATERIAL QUANT  Initial Volume: 2,00  Swell factor: 1.00  Loose volume: 2,00	00				
Source of estimated volumes Source of estimated sweet factor:			on, Mining & Safety		
HOURLY PRODUCT	<u> TION</u>				
Average push distance: Unadjusted hourly production:	60 feet 409.6 LC	Y/hr			
Materials consistency do	escription: Rock	, well ripped or	blasted 0.8		
Average push gradient:	0 %				
Average site altitude:	10,000 feet				
Material weight:	2,900 lbs/LCY			<u> </u>	
Weight description:	Decomposed roo	ck - 50% Rock,	50% Earth		
Job Condition Correction	Factor		Source		

Operator Skill:	0.750	(AVG.)
Material consistency:	0.800	(CAT HB)
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	1.000	(DOZ-OC)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3949

Adjusted unit production: 161.75 LCY/hr

Adjusted fleet production: 161.75 LCY/hr

# **JOB TIME AND COST**

Fleet size: 1 Dozer(s)
Unit cost: \$1.134/LCY

Total job time: 12.36 Hours
Total job cost: \$2,269

# WHEEL LOADER – LOAD AND CARRY WORK

Task description: Ha	ul topsoil			
e: Upper Gold Links Mine	Permit Action	: 2022-10-20 AM01	Permit/Jo	b#: <u>M2016083</u>
	ION			
PROJECT IDENTIFICAT	<u>ION</u>			
Task #: 03B	State: Colorado		Abbreviation:	None
Date: 10/20/2022 User: DMC	County: Gunnison	1	Filename:	M083-03b
Agency or organizatio	n name: DRMS			
HOURLY EQUIPMENT C	<u>OST</u>			
Basic Machine: CAT	924H	Horse	epower:	128
Attachment 1: ROP	S Cab	Shif	t Basis: 1 p	er day
		Data	Source: (	CRG)
Cost Breakdown:				
<u> </u>		Utilization %		
Ownership Cost/Hour:	\$35.89	NA		
Operating Cost/Hour:	\$30.95	100		
Operator Cost/Hour: Total Unit Cost/Hour:	\$40.71	NA		
Total Unit Cost/Hour:	\$107.55			
Total Fleet Cost/Hour:	\$107.55			
Initial volume: 807 Loose volume: Source of estimated		of Reclamation, Minin	1.000 ag & Safety	
HOURLY PRODUCTION				
Loader Cycle Time:	Unadjusted Basic	Cycle Time (load, dum	1 (14/)	minutes
Cycle Time Factors			Factor (min.)	Source
	No adjustment - factor no		0.000	(Cat HB)
	Conveyor or dozer piled 1 0.00	0 ft. high and up	0.000	(Cat HB)
1	No adjustment - factor no	t applicable 0.00	0.000	(Cat HB)
-	Constant operation -0.04		-0.040	(Cat HB)
Dump Target:	Nominal target 0.00	1. T' A 1'	0.000	(Cat HB)
	•	cle Time Adjustment: ed Basic Cycle Time:	-0.040 0.435	minutes minutes
	Aujusi	ed Dasic Cycle Tille:	0.433	minutes
Rolling Resistance – Road Cond	litions			
Haul: Ru	tted dirt, little maintenan	ce, no water, 2" tire pen	etration 5.0	
Return: Ru	tted dirt, little maintenan	ce, no water, 2" tire pen	etration 5.0	
Haul and Return Time				
1	4 0 1 5	D 112   T 1 2 2 2	T 1 T	1
Leng		Rolling Total Res	. Travel Time	Source

Haul Route:	500	0.00	5.00	5.00	0.3527	(Cat HB)
Return Route:	500	0.00	5.00	5.00	0.3527	(Cat HB)

Total Travel Time: 0.7054 minutes Total Cycle Time: 1.1404 minutes

## **Load Bucket Capacity**

Rated Capacity: 2.70 LCY (heaped)

Bucket Fill Factor: 1.050 Other - moist loam (100-110%) 1.050

Adjusted Capacity: 2.84 LCY

## Job Condition Correction Factors

Site Altitude: 10000 feet

		Source
Altitude Adj:	1.00	(CAT HB)
Job Efficiency:	0.83	(1 shift/day)
Net Correction:	0.83	multiplier

Unadjusted Hourly Unit Production: 149.16 LCY/Hour Adjusted Hourly Unit Production: 123.80 LCY/Hour Adjusted Hourly Fleet Production: 123.80 LCY/Hour

## **JOB TIME AND COST**

Fleet size:	1	Loader(s)	Total job time:	6.52	Hours
Unit cost:	\$0.869	/LCY	Total job cost:	\$701	

# **REVEGETATION WORK**

Upper Gold Links Mine	Per	mit Action: 2022	-10-20 AM01	Permit/Jo	b#: <u>M2016083</u>
ROJECT IDENTIFICATI	<u>ION</u>				
Task #: 04A	State:	Colorado		Abbreviation:	None
Date: 10/20/2022	County:	Gunnison		Filename:	M2016083AM010
- DMG					a
User: <u>DMC</u> Agency or organization	n name: DR	MS			
ERTILIZING Laterials					
Description		Units / Acre	Unit	Cost / Unit	Cost /Acre
				\$	\$
				Total Fertilize Material Cost/Acr	s
pplication  Description					Cost /Acre
					Cost /Acre
		Total	Fertilizer A	pplication Cost/Acr	\$
		Total	Fertilizer A	pplication Cost/Acr	\$
Description  ILLING		Total	Fertilizer A	pplication Cost/Acr	\$ \$0.00
Description	ANS 31 31 16.		Fertilizer A	pplication Cost/Acr	\$
Description  ILLING  Description	ANS 31 31 16.			pplication Cost/Acr	\$ <b>SO.00</b> Cost /Acre \$290.40
Description  ILLING  Description	ANS 31 31 16.				\$ \$0.00 Cost /Acre \$290.40
Description  ILLING  Description  Weed control spraying (MEA	ANS 31 31 16.		То	tal Tilling Cost/Acr	\$ \$0.00 Cost /Acre \$290.40 \$290.40
Description  ILLING  Description  Weed control spraying (MEA	ANS 31 31 16.		To	tal Tilling Cost/Acr Rate – PLS Seeds per SQ. ET	\$ \$0.00 Cost /Acre \$290.40
Description  ILLING  Description  Weed control spraying (MEA  EEDING  Seed Mix	ANS 31 31 16.		To	tal Tilling Cost/Acr  Rate – PLS Seeds per SQ. FT	\$  Cost /Acre \$290.40  Cost /Acre
Description  ILLING  Description  Weed control spraying (MEA  EEDING  Seed Mix  Alpine Fescue	ANS 31 31 16.		To	tal Tilling Cost/Acr  Rate – PLS Seeds per SQ. FT  5.00 179.06	\$ \$0.00  Cost /Acre \$290.40  Cost /Acre  \$108.60
Description  ILLING  Description  Weed control spraying (MEA  EEDING  Seed Mix			To	tal Tilling Cost/Acr  Rate – PLS Seeds per SQ. FT	\$  Cost /Acre \$290.40  Cost /Acre
Description  ILLING  Description  Weed control spraying (MEA  EEDING  Seed Mix  Alpine Fescue Sainfoin - Remont			To	Rate – PLS Seeds per SQ. FT 6.00 179.06 8.00 1.31	\$ cost /Acre \$290.40  Cost /Acre \$290.40  Cost /Acre \$108.60 \$9.48

Application

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
					\$
		Totals	Nursery Stoc	k Cost / Acre	\$0.00

# **JOB TIME AND COST**

No. of Acres: 3 Cost /Acre: \$737.70
Estimated Failure Rate: 25% Cost /Acre\*: \$737.70
\*Selected Replanting Work Items: TILLING,SEEDING

Initial Job Cost: \$2,213.10

Reseeding Job Cost: \$553.28

Total Job Cost: \$2,766

Job Hours: 3.00

# **EQUIPMENT MOBILIZATION/DEMOBILIZATION**

Site:	<b>Upper Gold Links Mine</b>	Permit Action:	2022-10-20 AM01	Permit/Job#:	M2016083	

## **PROJECT IDENTIFICATION**

Task description:

Task #:05AState:ColoradoAbbreviation:NoneDate:10/20/2022County:GunnisonFilename:M201608305a

User: DMC

Agency or organization name: DRMS

## **EQUIPMENT TRANSPORT RIG COST**

Mobilization

Shift basis: 1 per day
Cost Data Source: CRG Data

Truck Tractor Description: GENERIC ON-HIGHWAY TRUCK TRACTOR, 6X4, DIESEL POWERED,

400 HP (2ND HALF, 2006)

Truck Trailer Description: GENERIC FOLDING GOOSENECK, DROP DECK EQUIPMENT

TRAILER (25T, 50T, AND 100T)

#### Cost Breakdown:

Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons
Ownership Cost/Hour:	\$15.25	\$23.06	\$37.58
Operating Cost/Hour:	\$25.26	\$30.83	\$51.41
Operator Cost/Hour:	\$27.71	\$27.71	\$27.71
Helper Cost/Hour:	\$0.00	\$20.22	\$20.22
Total Unit Cost/Hour:	\$68.22	\$101.82	\$136.92

## **NON ROADABLE EQUIPMENT:**

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 D6T LGP	26.87	\$75.83	\$101.82	1	\$177.65	\$101.82	\$250.00
CAT 924H	12.69	\$35.89	\$68.22	1	\$104.11	\$68.22	\$250.00

Subtotals: \$281.76 \$170.04 \$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, 3/4 T.	\$14.23	1	\$14.23	\$14.23

Subtotals: \$14.23 \$14.23

# **EQUIPMENT HAUL DISTANCE and Time**

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

GUNNISON

miles
35.00
mph

## **Transportation Cycle Time:**

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.74	0.74
Return Time (Hours):	0.74	0.74
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	2.49	1.49

## **JOB TIME AND COST**

Total job cost: 4.97 Hours

Total job cost: \$2,256