COST SUMMARY WORK

Ta	sk description:	Cost Summary o	of Reclamati	ion Tasks			
e:	Quist Mining	Per	rmit Action:	New Permit		Permit/Job#	#: <u>M2023002</u>
PR	OJECT IDENTIFICAT						
	Task#: 000A Date: 4/20/2023 User: ERR	State: County:	Colorado Teller		<u> </u>	Abbreviation: Filename:	None M002-000A
	Agency or organizat	ion name: DI	RMS				
TAS	SK LIST (DIRECT CO	OSTS)					
sk	Description			Form Used	Fleet Size	Task Hours	Cost
lA	Backfill Excavation			LOADER	1	14.59	\$1,570
2A	Replace Topsoil and Su			LOADER	1	4.27	\$460
3A 4A	Revegetate 100,000 sq. t Mob/Demob of Reclama		<u> </u>	REVEGE MOBILIZE	$\begin{cases} 1\\1 \end{cases}$	4.60 4.92	\$2,030 \$1,474
				SUBTO	OTALS:	28.38	\$5,534
	DIRECT COSTS ERHEAD AND PROFIT:						
OVI		. 2.02				Tatal - 01	12
	Liability insurance Performance bond					Total =	
	Job superintendent					Total $=$ $\frac{$50}{$0}$	
	Profit					Total $=$ \$53	
						$LO \& P = \boxed{\$72}$	
			CONTI	RACT AMOUNT	(direct +	$O \& P = _{86}$,257
LEC	GAL - ENGINEERING - P	ROJECT MAN	IAGEMENT:				
	Financial warranty proce	essing (legal/rela	ited costs):	\$0	_	Total= \$0	
	Engineering work and/o			0.00	_	Total= \$0	
	Reclamation managem	nentand/oradmi	inistration:	5.00	_	\$3	13
		CONTI	NGENCY:	0.00		Total= \$0	
				TOTALI	NDIRECT	COST = 1	,036
				TOTAL	(direct + i	ndirect)= \$6	,570
			ТОТ	AL BOND AMO	OUNT (ro	unded) = \$6	.600

WHEEL LOADER – LOAD AND CARRY WORK

Task description:	Backfill	Excavation				
e: Quist Mining		Permit Acti	on: New Perr	mit	Permit/Job#	: M2023002
PROJECT IDENI	IFICATION					
Task#: 001A		State: Color	ado		Abbreviation:	None
Date: 4/11/20	23	County: Teller			Filename:	M002-001A
User: ERR					1 11011111110	1/1002 00111
	rganization nan	ne: DRMS				
HOURLY EQUIP	MENT COST	Γ				
Basic Machine		=		Uorgana	MVQ#	128
Attachment 1			_	Horsepo Shift B		
Attachment	i. KOPS Cab		_	Data So		oer day CRG)
Cost Breakdown:						
0 11 0	. 77.7	#25 00	Utilizatio	n %		
Ownership Co		\$35.89	NA 100			
Operating Co		\$30.95	100			
Operator Co Total Unit Co		\$40.71	NA			
I otal Unit Co	ost/Hour:	\$107.55				
Total Fleet Co	ost/Hour:	\$107.55	<u></u>			
MATERIAL QUA	NTITIES					
Initial volume:	2,250	CC		ell factor: 1.0	000	
Loose volume:	2,250	LCY				
	ce of estimated		lication			
Source o	f estimated swe	ll factor: Cat	Handbook			
HOURLY PRODU	JCTION					
Loader Cycle Time:		ed Basic Cycle T	ime (load, dum	p, maneuver):	0.475	minutes
Cycle Time Fa	octors I	•		Ī	Factor (min.)	Source
		material 0.02			0.020	(Cat HB)
		justment-factor	not applicable	0.00	0.000	(Cat HB)
Truck Owner		justment-factor			0.000	(Cat HB)
		ant operation -0.			-0.040	(Cat HB)
Dump T		nal target 0.00			0.000	(Cat HB)
		Ne	t Cycle Time A	djustment:	-0.020	minutes
		A	djusted Basic C	ycle Time:	0.455	minutes
Rolling Resistance—	Road Condition	<u>1S</u>				
Н	aul: Soft, rut	ted dirt, no main	tenance or wate	r, 4" tire penetr	ration 8.0	
Retu		ted dirt, no main				
Haul and Return Tim	<u></u>					
	Length	Grade Res.	Rolling	Total Res.	Travel Time	l ,
	(feet)	(%)	Res. (%)	(%)	(minutes)	Source
Haul Route:	200	9.50	8.00	17.50	0.4058	(Cat HB)
Return Route:	200	-9.50	8.00	-1.50	0.0986	(Cat HB)

Total Travel Time: 0.5044 minutes Total Cycle Time: 0.9594 minutes

Load Bucket Capacity

Rated Capacity: LCY (heaped) 2.70

Bucket Fill Factor: 1.100 Other - rock/dirt mixtures (100-120%) 1.100

Adjusted Capacity: 2.97 LCY

<u>Job Condition Correction Factors</u> Site Altitude: <u>8750</u> feet

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

Unadjusted Hourly Unit Production: 185.73 LCY/Hour Adjusted Hourly Unit Production: 154.16 LCY/Hour Adjusted Hourly Fleet Production: 154.16 LCY/Hour

JOB TIME AND COST

Fleet size:	1	Loader(s)	Total job time:	14.60	Hours
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Unit cost: \$0.698 /LCY Totaljob cost: **\$1,570**

WHEEL LOADER – LOAD AND CARRY WORK

۵.	Γask description:	Replace	Tops oil and Sub	5011			
C.	Quist Mining		Permit Actio	n: New Perr	mit	_ Permit/Job#	: M2023002
Ī	PROJECT IDENT	IFICATION					
	Task#: 002A		State: Colora	.do		Abbreviation:	None
	Date: 4/20/20	23	County: Teller			Filename:	M002-002A
	User: ERR						
	Agencyoro	rganization nan	ne: DRMS				
I	HOURLY EQUIP	MENT COST	Γ				
_	Basic Machine		_		Horse	ower.	128
	Attachment 1						per day
	7 Tetacimicite 1	. Rorb cub			Data S		CRG)
,	C 4 D 1-1						
<u> </u>	Cost Breakdown:			Utilizatio	n %		
	Ownership Co	st/Hour	\$35.89	NA	11 /0		
	Operating Co		\$30.95	100			
	Operator Co		\$40.71	NA			
	Total Unit Co		\$107.55				
	Total Fleet Co	ost/Hour	\$107.55	<u> </u>			
	Total Tiest Co	, , , , , , , , , , , , , , , , , , ,	Ψ107.22				
<u>N</u>	MATERIAL QUA	NTITIES					
	Initial volume:	864	CCY	Swe	ll factor: 1	.330	
	Loose volume:	1,149	LCY			<u>.</u>	
	Sour	ce of estimated	volume: Appl	ication: 6" Top	soil 8" Subsc	oil (Max)	
		•• • • • • • • • • • • • • • • • • • • •	, oranic.				
	Source of	f estimated swe	ll factor: Cat H	landbook		(
	Source of	f estimated swe	ell factor: Cat H			(:::::::::::::::::::::::::::::::::::	
<u>I</u>	Source of HOURLY PRODU		ell factor: Cat H				
		<u>ICTION</u>	ed Basic Cycle Ti	andbook			minutes
	HOURLY PRODU	UCTION Unadjust		andbook		0.475	
	HOURLY PRODU Loader Cycle Time: Cycle Time Fa	<u>ICTION</u> Unadjust ctors	ed Basic Cycle Ti	andbook		0.475 Factor (min.)	Source
	HOURLY PRODU Loader Cycle Time: Cycle Time Fa Mai	Unadjust	ed Basic Cycle Ti I material 0.02	andbook me (load, dum	p, maneuver):	0.475 Factor (min.) 0.020	Source (Cat HB)
	HOURLY PRODU Loader Cycle Time: Cycle Time Fa Mat Stoc	Unadjust ctors terial: Mixed kpile: No ad	ed Basic Cycle Ti I material 0.02 justment - factor r	andbook me (load, dum not applicable)	p, maneuver): 0.00	0.475 Factor (min.) 0.020 0.000	Source (Cat HB) (Cat HB)
	HOURLY PRODU Loader Cycle Time: Cycle Time Fa Mai	Unadjust ctors terial: Mixed kpile: No ad rship: No ad	ed Basic Cycle Ti I material 0.02	andbook me (load, dum	p, maneuver): 0.00	0.475 Factor (min.) 0.020	Source (Cat HB)
	HOURLY PRODU Loader Cycle Time: Cycle Time Fa Mat Stoc Truck Owner	Unadjust ctors terial: Mixed kpile: No ad rship: No ad ation: Const	ed Basic Cycle Ti I material 0.02 justment - factor r justment - factor r	andbook me (load, dum	p, maneuver): 0.00	Factor (min.) 0.020 0.000 0.000	Source (Cat HB) (Cat HB) (Cat HB)
	HOURLY PRODU Loader Cycle Time: Cycle Time Fa Man Stoc Truck Owner Opera	Unadjust ctors terial: Mixed kpile: No ad rship: No ad ation: Const	ed Basic Cycle Till I material 0.02 justment - factor r justment - factor r ant operation -0.0 nal target 0.00	me (load, dum) not applicable of applicable of the control of the	p, maneuver): 0.00 0.00 djustment:	0.475 Factor (min.) 0.020 0.000 0.000 -0.040 0.000 -0.020	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
_	HOURLY PRODU Loader Cycle Time: Cycle Time Fa Man Stoc Truck Owner Opera	Unadjust ctors terial: Mixed kpile: No ad rship: No ad ation: Const	ed Basic Cycle Till I material 0.02 justment - factor r justment - factor r ant operation -0.0 nal target 0.00	andbook me (load, dum) not applicable (p, maneuver): 0.00 0.00 djustment:	Factor (min.) 0.020 0.000 0.000 -0.040 0.000	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)
<u>I</u>	HOURLY PRODU Loader Cycle Time: Cycle Time Fa Man Stoc Truck Owner Opera	Unadjust ctors terial: Mixed kpile: No ad rship: No ad ation: Const arget: Nomin	ed Basic Cycle Till I material 0.02 justment - factor r justment - factor r ant operation -0.0 hal target 0.00 Net	me (load, dum) not applicable of applicable of the control of the	p, maneuver): 0.00 0.00 djustment:	0.475 Factor (min.) 0.020 0.000 0.000 -0.040 0.000 -0.020	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
I	HOURLY PRODU Loader Cycle Time: Cycle Time Fa Mat Stoc Truck Owner Opera Dump Ta Rolling Resistance—	Unadjust ctors terial: Mixed kpile: No ad rship: No ad ation: Const arget: Nomin	ed Basic Cycle Tin I material 0.02 justment - factor r justment - factor r ant operation -0.00 nal target 0.00 Net (Ad	andbook me (load, dum not applicable) to applicable (4) Cycle Time Ac justed Basic C	p, maneuver): 0.00 0.00 djustment: ycle Time:	0.475 Factor (min.) 0.020 0.000 0.000 -0.040 0.000 -0.020 0.455	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
<u>I</u>	HOURLY PRODU Loader Cycle Time: Cycle Time Fa Man Stoc Truck Owner Opera Dump Ta Rolling Resistance— Ha	Unadjust ctors terial: Mixed kpile: No ad rship: No ad ation: Const arget: Nomin	ed Basic Cycle Tin I material 0.02 justment - factor r justment - factor r ant operation -0.00 Net of Ad ass ted dirt, no mainte	andbook me (load, dumphot applicable) 4 Cycle Time Acjusted Basic Cenance or wate	p, maneuver): 0.00 0.00 djustment: ycle Time:	Factor (min.) 0.020 0.000 0.000 -0.040 0.000 -0.020 0.455 tration 8.0	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
<u>I</u>	HOURLY PRODU Loader Cycle Time: Cycle Time Fa Mar Stoc Truck Owner Opera Dump Ta Rolling Resistance— Ha Retu	Unadjust ctors terial: Mixed kpile: No ad rship: No ad ation: Const arget: Nomin Road Condition aul: Soft, rut urn: Soft, rut	ed Basic Cycle Tin I material 0.02 justment - factor r justment - factor r ant operation -0.00 nal target 0.00 Net (Ad	andbook me (load, dumphot applicable) 4 Cycle Time Acjusted Basic Cenance or wate	p, maneuver): 0.00 0.00 djustment: ycle Time:	Factor (min.) 0.020 0.000 0.000 -0.040 0.000 -0.020 0.455 tration 8.0	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
<u>I</u>	HOURLY PRODU Loader Cycle Time: Cycle Time Fa Man Stoc Truck Owner Opera Dump Ta Rolling Resistance— Ha	Unadjust ctors terial: Mixed kpile: No ad rship: No ad ation: Const arget: Nomin Road Condition aul: Soft, rut urn: Soft, rut	ed Basic Cycle Till I material 0.02 justment - factor r justment - factor r ant operation -0.00 Net of Add as ted dirt, no mainted ted dirt, no mainted	me (load, dum not applicable) to applicable (4 Cycle Time Acjusted Basic Contact and Conta	p, maneuver): 0.00 0.00 djustment: ycle Time: r, 4" tire pene r, 4" tire pene	0.475 Factor (min.) 0.020 0.000 0.000 -0.040 0.000 -0.020 0.455 tration 8.0 tration 8.0	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
<u>I</u>	HOURLY PRODU Loader Cycle Time: Cycle Time Fa Mar Stoc Truck Owner Opera Dump Ta Rolling Resistance— Ha Retu	Unadjust ctors terial: Mixed kpile: No ad rship: No ad ation: Const arget: Nomin Road Condition aul: Soft, rut urn: Soft, rut	ed Basic Cycle Till I material 0.02 justment - factor r justment - factor r ant operation -0.0 Net of Adjustment - factor r and operation factor r ant operation -0.0 Net of Adjustment - factor r ant operation factor r ant operati	andbook me (load, dum) not applicable of applicable of applicable of the content	p, maneuver): 0.00 0.00 djustment: ycle Time: r, 4" tire pene r, 4" tire pene Total Res.	Factor (min.) 0.020 0.000 0.000 -0.040 0.000 -0.020 0.455 tration 8.0 tration 8.0 Travel Time	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
<u>I</u>	HOURLY PRODU Loader Cycle Time: Cycle Time Fa Mar Stoc Truck Owner Opera Dump Ta Rolling Resistance— Ha Retu	Unadjust ctors terial: Mixed kpile: No ad rship: No ad ation: Const arget: Nomin Road Condition aul: Soft, rut urn: Soft, rut	ed Basic Cycle Till I material 0.02 justment - factor r justment - factor r ant operation -0.00 Net of Add as ted dirt, no mainted ted dirt, no mainted	me (load, dum not applicable) to applicable (4 Cycle Time Acjusted Basic Contact and Conta	p, maneuver): 0.00 0.00 djustment: ycle Time: r, 4" tire pene r, 4" tire pene	0.475 Factor (min.) 0.020 0.000 0.000 -0.040 0.000 -0.020 0.455 tration 8.0 tration 8.0	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes

Total Travel Time: 0.0951 minutes Total Cycle Time: 0.5501 minutes **Load Bucket Capacity** Rated Capacity: LCY (heaped) 2.70 Bucket Fill Factor: 1.100 Other - rock/dirt mixtures (100-120%) 1.100 Adjusted Capacity: 2.97 LCY $\frac{Job\ Condition\ Correction\ Factors}{Site\ Altitude: \underline{8750}\ feet}$ Source Altitude Adj: (CAT HB) Job Efficiency: 0.83 (1 shift/day) Net Correction: 0.83 multiplier Unadjusted Hourly Unit Production: 323.94 LCY/Hour Adjusted Hourly Unit Production: 268.87 LCY/Hour Adjusted Hourly Fleet Production: 268.87 LCY/Hour **JOB TIME AND COST** Fleet size: 1 Loader(s) Total job time: 4.27 Hours

Total job cost:

\$460

Unit cost: \$0.400

/LCY

REVEGETATION WORK

Task description: R	evegetate 100,000 s q	.ft.				
Quist Mining	Permit Ac	ction: New	Permit		Permit/Job#:	M2023002
PROJECT IDENTIFICAT	ION					
Task#: 003A Date: 4/20/2023 User: ERR		orado er				None M002-003A
Agency or organization	on name: <u>DRMS</u>					
ERTILIZING						
Materials						
Description		Units / Acre	Unit	Cost	t/Unit	Cost/Acre
				\$		\$
				Tota	l Fertilizer Materials Cost/Acre	\$0.00
pplication						Cartillaria
Description						Cost/Acre \$
		Total	Fertilizer A	Application	n Cost/Acre	\$0.00
ILLING						
Description						Cost/Acre
Subsoiling, light {(DMG}						\$175.31
			T	otal Tilling	g Cost/Acre	\$175.31
<u>EEEDING</u>						
Seed Mix				Rate – PLS LBS /	Seeds per SQ. FT	Cost/Acre

Blue Grama - Hachita

Sheep Fescue - Covar

Prairie Junegrass

Canby Bluegrass - Canbar

Mountain Brome - Bromar

Great Basin Wildrye - Magnar Strawberry Clover (coated)

Thicks pike Wheatgrass - Critana

CIRCES	Cost Estin	nating Sc	oftware

\$39.94

\$12.81

\$19.00

\$28.88

\$3.14

\$22.88

\$39.53

\$97.50

\$263.67

Acre

2.50

1.25

5.00

2.50

0.50

3.75

5.75 3.75

40.81

26.57

8.03

10.16

3.39

58.54

20.33

199.33

367.15

	Totals Seed Mix 25.00	
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:
 2.3
 Cost/Acre:
 \$706.20

 ed Failure Rate:
 25%
 Cost/Acre*:
 \$706.20

Estimated Failure Rate: 25% Cost/Ac *Selected Replanting Work Items: TILLING,SEEDING

Initial Job Cost: \$1,624.26

Reseeding Job Cost: \$406.07

Total Job Hours: \$2,030

4.60

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description: **Mob/Demob of Reclamation Equipment** Site: Quist Mining Permit Action: New Permit Permit/Job#: M2023002 PROJECT IDENTIFICATION Task#: 004A State: Colorado Abbreviation: None Date: 4/20/2023 County: Teller Filename: M002-004A User: ERR Agency or organization name: DRMS EQUIPMENT TRANSPORT RIG COST 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	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 924H	12.69	\$35.89	\$68.22	1	\$104.11	\$68.22	\$250.00

Subtotals: **\$104.11** \$68.22 \$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	\$124.78	2	\$249.56	\$249.56

\$249.56 \$249.56 Subtotals:

miles

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region: COLORADO SPRINGS

Total one-way travel distance: 54.00

Average Travel Speed: 50.00 mph

Total Non-Roadable Mob/Demob Cost *

** two round trips with haul rig:

Total Roadable Mob/Demob Cost **

** one round trip, no haul rig:

\$934.70

\$539.05

Transportation Cycle Time:

Non-		
Roadable	Roadable	
Equipment	Equipment	
1.08	1.08	
1.08	1.08	
0.15	NA	
0.15	NA	
	Roadable Equipment 1.08 1.08	

Subtotals:

JOB TIME AND COST

Total job time: 4.92 Hours

Totaljob cost: **\$1,474**