COST SUMMARY WORK

Task descrip	otion:	Cost Summary			
Site: Colorado	Rose Red Pit	Permit Action	n: AM02	Permit/Job	o#: <u>M1978332</u>
PROJECT Task #:	IDENTIFIC 000	ATION State: Colorado		Abbreviation:	None
Date: User:	1/5/2018 JLE	County: Larimer	,	Filename:	M332-000
Age	ency or organiz	ation name: DRMS			

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Grated Adit Closure with Doors	MINESEAL	1	48.00	\$14,148.00
002	Grade and shape parking areas	LOADER] 1	1.27	\$262.00
003	Spread Soil Over Bench Areas	LOADER	1	3.57	\$736.00
004	Revegetation	REVEGE	1	2.08	\$1,259.00
005	Weed Control	REVEGE	1	5.74	\$386.00
006	Mobilization	MOBILIZE	1	4.36	\$1,585.00
		<u>SUBTO</u>	TALS:	65.02	\$18,376

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$371.20
Performance bond:	1.05	Total =	\$192.95
Job superintendent:	32.51	Total =	\$2,374.86
Profit:	10.00	Total =	\$1,837.60
		TOTAL O & P =	\$4,776.61
		CONTRACT AMOUNT (direct + O & P) = $($	\$23,152.61

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs):	0.00	Total =	0.00
Engineering work and/or contract/bid preparation:	4.25	Total =	\$983.99
Reclamation management and/or administration:	5.00	_	\$1,157.63
CONTINGENCY:	0.00	Total =	\$0.00
	TOTAL IN	NDIRECT COST =	\$6,918.23
TOTAL BO	ND AMOUNT (d	lirect + indirect) =	\$25,294.23
Require	ed Bond Ar	nount:	<u>\$25,300.00</u>

SAFEGUARDING UNDERGROUND OPENINGS

: <u>Colorado</u>	o Rose Red Pit	Permit Action:	AM02	P	ermit/Job#:	M1978332
PROJEC	<u>T IDENTIFI</u>	<u>CATION</u>				
Task #:	001	State: Colorado		Abbreviation:	None	
Date: User:	1/5/2018 JLE	County: Larimer		Filename:	M332-001	

UNIT COSTS

Opening Description	Dimensions	Closure Method	Quantity	Unit	Unit Cost	Total Cost
Room Closures	3 Openings	Adit closure - grated door (per opening)	3.00	EA	\$4,716.00	\$14,148.00

Job Hours: 48.00

Total Cost: \$14,148.00

WHEEL LOADER - LOAD AND CARRY WORK

Task description:	Grade and shape parking	areas		
e: Colorado Rose Red Pit	Permit Actio	n: <u>AM02</u>	Permit/Jo	b#: <u>M1978332</u>
PROJECT IDENTIFICA	ATION			
Task #: 002	State: Colorad	0	Abbreviation:	None
Date: 1/5/2018	County: Larimer		Filename:	M332-002
User: JLE				
Agency or organiza	tion name: DRMS			
HOURLY EQUIPMENT	COST			
	AT 988H	Hors	epower:	475
	OPS Cab			ber day
			1	CRG)
Cost Davidation				
Cost Breakdown:		Utilization %		
Ownership Cost/Hou	ır: \$83.38	NA		
Operating Cost/Hot		100		
Operator Cost/Hou		NA		
Total Unit Cost/Hou				
Total Fleet Cost/Ho		-		
MATERIAL QUANTIT				
Initial volume: 1,12		Swell factor:	1.000	
Loose volume:	1,120 LCY			
Source of e	stimated volume: Divisio	on of Reclamation, Minin	ng & Safety	
Source of estimation		ndbook	0	
HOURLY PRODUCTIO	N			
Loader Cycle Time:	Unadjusted Basic	c Cycle Time (load, dum maneuve	÷ 0.5/5	minutes
Cycle Time Factors			Factor (min.)	Source
Material:	Mixed material 0.02		0.020	(Cat HB)
Stockpile:	No adjustment - factor n		0.000	(Cat HB)
Truck Ownership:	Common ownership of to 0.04	rucks and loaders -	-0.040	(Cat HB)
Operation:	Constant operation -0.04		-0.040	(Cat HB)
	-			
Dump Target:	Nominal target 0.00		0.000	(Cat HB)
Dump Target:	Nominal target 0.00 Net C	ycle Time Adjustment: sted Basic Cycle Time:	0.000 -0.060 0.515	(Cat HB) minutes minutes

Rolling Resistance – Road Conditions

Haul:Very hard, smooth, asphalt or concrete, no tire penetration 1.2Return:Very hard, smooth, asphalt or concrete, no tire penetration 1.2

Haul and Return Time

That and Rotarn Thile						
	Length	Grade Res.	Rolling	Total Res.	Travel Time	G
	(feet)	(%)	Res. (%)	(%)	(minutes)	Source
Haul Route:	60	0.00	1.20	1.20	0.0289	(Cat HB)
Return Route:	60	0.00	1.20	1.20	0.0291	(Cat HB)
			Total T	ravel Time:	0.0580	minutes
			Total C	Cycle Time:	0.5730	minutes
Load Bucket Capacity						
Datad Cana	aitre 0		(heared)			
Rated Capae Bucket Fill Fac			(heaped) er - rock/dirt mi	vturos (100.1	20%) 1.100	
Adjusted Capa		.12 LCY		xtures (100-1	20%) 1.100	
Aujusteu Capa	city. <u>10</u>	.1 <u>2</u> LC I	L			
Job Condition Correcti	on Factors					
Site Altitude: 7040 feet	t					
		Se	ource			
Altitude Adj	: 1.00		T HB)			
Job Efficiency	-		ift/day)			
Net Correction		multi				
Net Concetion	. 0.05		ipiici			
U	nadjusted Hour	ly Unit Product	ion: <u>1,059</u>	0.74 LCY/	Hour	
		ly Unit Product		58 LCY/	Hour	
	Adjusted Hour	ly Fleet Product	ion: 879.	58 LCY/	Hour	
JOB TIME AND C	<u>OST</u>					
Fleet size:	1 L	oader(s)	Total job	time:	1.27	Hours

WHEEL LOADER - LOAD AND CARRY WORK

Task description:	Spread Soil Over Bench Ar	eas		
e: Colorado Rose Red Pit	Permit Action:	AM02	Permit/Jo	b#: <u>M1978332</u>
PROJECT IDENTIFICA	TION			
Task #: 003 Date: 1/5/2018 User: JLE	State:ColoradoCounty:Larimer		Abbreviation: Filename:	None M332-003
Agency or organiza	tion name: DRMS			
HOURLY EQUIPMENT	COST			
Basic Machine: CA	AT 988H	Hor	sepower:	475
Attachment 1: RO	DPS Cab			er day CRG)
Cost Breakdown:			· · · · · ·	,
Ownership Cost/Hou	r: \$83.38	Utilization % NA		
Operating Cost/Hou		100		
Operator Cost/Hou		NA		
Total Unit Cost/Hou				
Total Fleet Cost/Ho	ar: \$206.07			
MATERIAL QUANTITI	ES			
Initial volume: 2,23 Loose volume:	7 CCY 2,237 LCY	Swell factor:	1.000	
			···· 8 9 6 6 4	
Source of estima		of Reclamation, Min	ing & Safety	
HOURLY PRODUCTIO	<u>N</u>			
Loader Cycle Time:	Unadjusted Basic	Cycle Time (load, dur maneuv	÷ 0.5/5	minutes
Cycle Time Factors		maneuv	Factor (min.)	Source
Material:	Mixed material 0.02		0.020	(Cat HB)
Stockpile:	No adjustment - factor not		0.000	(Cat HB)
Truck Ownership:	Common ownership of true 0.04	cks and loaders -	-0.040	(Cat HB)
			0.040	(Cat HB)
Operation:	Constant operation -0.04		-0.040	(Cat IID)
Operation: Dump Target:	Nominal target 0.00		0.000	(Cat HB)
-	Nominal target 0.00 Net Cyc	le Time Adjustment: d Basic Cycle Time:	0.000 -0.060	

Rolling Resistance – Road Conditions

Haul:	Very hard, smooth, asphalt or concrete, no tire penetration 1.2
Return:	Very hard, smooth, asphalt or concrete, no tire penetration 1.2

Haul and Return Time

Haul and Keturn Thile						
	Length	Grade Res.	Rolling	Total Res.	Travel Time	
	(feet)	(%)	Res. (%)	(%)	(minutes)	Source
Haul Route:	300	0.00	1.20	1.20	0.1444	(Cat HB)
Return Route:	300	0.00	1.20	1.20	0.1454	(Cat HB)
			Total T	ravel Time:	0.2899	minutes
			Total C	Cycle Time:	0.8049	minutes
Load Bucket Capacity						
Rated Capac	city: 9.2	20 LCY	(heaped)			
Bucket Fill Fac	ctor: 1.1	00 Othe	er - rock/dirt mi	xtures (100-1	20%) 1.100	
Adjusted Capac	city: 10.	.12 LCY	(
Job Condition Correction	on Factors					
Site Altitude: 7040 feet	t					
		Sc	ource			
Altitude Adj		· · · ·	T HB)			
Job Efficiency			ift/day)			
Net Correction	: 0.83	mult	iplier			
U	nadjusted Hour	ly Unit Product	ion: 754.	42 LCY/	Hour	
	5	y Unit Product		17 LCY/	Hour	
	Adjusted Hourl	y Fleet Product	ion: 626.	17 LCY/	Hour	
JOB TIME AND C	<u>OST</u>					
Fleet size:	1 Le	oader(s)	Total job	time:	3.57	Hours
Unit cost:	\$0.329 /L	.CY	Total job	cost:	\$736	

REVEGETATION WORK

te: <u>C</u>	olorado	Rose Red Pit	Pe	rmit Action: AM02	Permit/Jol	o#: <u>M1978332</u>
	JECT : Task #:	IDENTIFIC	ATION State:	Colorado	Abbreviation:	None
1		1/5/2018	County:	Larimer	Abbreviation. Filename:	M332-004
	Date:	1/3/2018		Bariniei		

FERTILIZING

Materials Description Units / Acre Unit Cost / Unit Cost / Acre Image: Image

Application

Description	Cost /Acre
	\$
Total Fertilizer Application	n Cost/Acre \$0.00

TILLING

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$106.29
Total Tilling Cost/Acre	\$106.29

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Blue Grama - Hachita	1.00	16.32	\$16.27
Beardless Wheatgrass - Whitmar	7.20	23.47	\$61.20
Indian Ricegrass - Paloma	0.80	2.59	\$7.80
Sheep Fescue - Covar	1.00	15.61	\$5.23
Streambank Wheatgrass - Sodar	4.40	14.34	\$26.80
Needlegrass, Green - Lodorm	3.00	12.47	\$14.61
Totals Seed Mix	17.40	84.80	\$131.91

Application

Decorinti	on
Descripti	on

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:	2.08	Cost /Acre:	\$505.42
Estimate	ed Failure Rate:	25%	Cost /Acre*:	\$399.13
*Selected Replanti	ng Work Items:	SEEDING		
Initial Job Cost:	\$1,051.27			
Reseeding Job Cost:	\$207.55			
Total Job Cost:	\$1,259			
Job Hours:	2.08			

REVEGETATION WORK

: _	Colorado	Rose Red Pit	Pe	rmit Action:	AM02	Permit/Jo	b#: <u>M1978332</u>
PF	ROJECT	IDENTIFIC	ATION				
	Task #:	005	State:	Colorado		Abbreviation:	None
	1 ask #.	000					
	Date:	1/5/2018	County:	Larimer		Filename:	M332-005

FERTILIZING

Iaterials				
Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Materials	
			Cost/Acre	\$0.00

Application

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

TILLING

Description	Cost /Acre
	\$
Total Tilling Cost/Acre	\$0.00

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
			\$
Totals Seed Mix	0.00	0.00	\$0.00

Application

Description	Cost /Acre
	\$
	\$0.00

Total Seed	Application	Cost/Acre	
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MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - 2,4D @ 1.0 pt/ac	2.08	ACRE	\$2.74	\$5.70
Total Mulch Materials Cost/Acre				\$5.70

Application

Description		Cost /Acre
Weed spray, hand, non-aquatic area, nox. [DMG]		\$180.00
	Total Mulch Application Cost/Acre	\$180.00

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:	2.08	Cost /Acre:	\$185.70
Estimate	ed Failure Rate:	0%	Cost /Acre*:	\$0.00
*Selected Replanti	ng Work Items:	NONE		
Initial Job Cost:	\$386.26			
Reseeding Job Cost:	\$0.00		_	
Total Job Cost:	\$386		_	
Job Hours:	5.74		_	

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description: Mobilizati	ion				
Site: Colorado Rose Red Pit	Permit Action: AM02	Permit/Job#: <u>M1978332</u>			
PROJECT IDENTIFICATION					
Task #: 006 S	State: Colorado	Abbreviation: None			
Date: 1/5/2018 Con	unty: Larimer	Filename: M332-006			
User: JLE					
Agency or organization name: EQUIPMENT TRANSPORT RIG	<u>COST</u>	Shift basis: <u>1 per day</u> t Data Source: <u>CRG Data</u>			
Truck Tractor Description:		K TRACTOR, 6X4, DIESEL POWERED, ND HALF, 2006)			
Truck Trailer Description:	GENERIC FOLDING GOOSE	NECK, DROP DECK EQUIPMENT			
	TRAILER (25T, 50T, AND 100T)				
Cost Breakdown:					

Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons
Ownership Cost/Hour:	\$16.63	\$18.37	\$22.33
Operating Cost/Hour:	\$44.38	\$46.13	\$50.07
Operator Cost/Hour:	\$27.66	\$27.66	\$27.66
Helper Cost/Hour:	\$0.00	\$25.39	\$25.39
Total Unit Cost/Hour:	\$88.67	\$117.55	\$125.45

NON ROADABLE EQUIPMENT:

Machine Description	Weight/ Unit (TONS)	Owner ship Cost/hr/ unit	Haul Rig Cost/hr/unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
CAT 988H	54.46	\$83.38	\$125.45	1	\$208.83	\$125.45	\$250.00
				Subtotals:	\$208.83	\$125.45	\$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	\$47.96	2	\$95.92	\$95.92
Fuel Tanker, 6x4, 210 HP	\$74.87	1	\$74.87	\$74.87
		Subtotals:	\$170.79	\$170.79

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region: Total one-way travel distance: Average Travel Speed:	LYONS 8.00 8.00	miles mph
Total Non-Roadable Mob/Demob Cost *	\$1,243.74	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$341.58	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	1.00	1.00
Return Time (Hours):	1.00	1.00
Loading Time (Hours):	0.09	NA
Unloading Time (Hours):	0.09	NA
Subtotals:	2.18	2.00

JOB TIME AND COST

Total job time:	4.36	Hours
rotui joo unie.		inours

Total job cost: \$1,585