# COST SUMMARY WORK

	Task description:	Cost Summary				
Site:	Colorado Rose Red Pit	Permit Action: _AM02_	AdequacyRespon	seEstima	te Permi	t/Job#: <u>M1978332</u>
P	ROJECT IDENTIFIC	ATION				
_	Task #:     000       Date:     6/14/2018       User:     JLE	State: Colorado County: Larimer		A	bbreviation: Filename:	None M332-000
	Agency or organization	ation name: DRMS				
<u>1</u>	ASK LIST (DIRECT (	COSTS)				
Task			Form	Fleet	Task	Cont
001	DescriptionGrated Adit Closure w	ith Doors	Used MINESEAL	Size	Hours 48.00	Cost \$14,148.00
001	Grade and shape parki		LOADER	1	1.27	\$262.00
003	Mobilization	-8	MOBILIZE	1	4.36	\$1,585.00
			<u>SUBTO</u>	TALS:	53.6	53 \$15,995
_	NDIRECT COSTS VERHEAD AND PROFIT Liability insuranc Performance bon Job superintender Prof	e: 2.02 d: 1.05 nt: 26.82 it: 10.00	ACT AMOUNT (		$\begin{array}{rcl} Total = & \hline \\ Total = & \hline \\ Total = & \hline \\ O \& P = & \hline \\ \end{array}$	\$323.10 \$167.95 \$1,958.84 \$1,599.50 \$4,049.39 \$20,044.39
L	EGAL - ENGINEERING -	PROJECT MANAGEMENT:				
		cessing (legal/related costs):	0.00			0.00
		or contract/bid preparation:	4.25			\$851.89
	Reclamation manage	ment and/or administration:	5.00			\$1,002.22
		CONTINGENCY:	0.00		Total = $3$	\$0.00
			TOTAL IN	DIRECT	COST =	\$5,903.50
		direct) =	\$21,898.50			
		<u>Required B</u>	Sond Amount:		<u>:</u>	<u>\$21,900.00</u>

## SAFEGUARDING UNDERGROUND OPENINGS

			osure with Doors	Grated Adit Cl	Task description:		
M1978332	Permit/Job#: <u>N</u>	Permit Action: <u>AM02_AdequacyResponseEstimate</u>			e: Colorado Rose Red Pit		Site:
				ATION	<u>T IDENTIFIC</u>	PROJEC	
	None	Abbreviation:	Colorado	State:	001	Task #:	
	NA	Filename:	Larimer	County:	6/14/2018 JLE	Date: User:	
			RMS	zation name:	gency or organiz	A	
			RMS	 zation name:	Agency or organiz		

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 pa	arking areas		_
Colorado Rose Red Pit	Permit Action:	AM02_AdequacyResponseE	stimate Permit/	Job#: <u>M197833</u>
PROJECT IDENTIFICA	TION			
Task #: 002	State: C	olorado	Abbreviation:	None
Date: 6/14/2018	County: La	arimer	Filename:	NA
User: JLE				
Agency or organiza	tion name: DRMS	5		
HOURLY EQUIPMENT	' COST			
	AT 988H	Horse	epower:	475
	OPS Cab		I	er day
		Data		CRG)
Cost Breakdown:				
		Utilization %		
Ownership Cost/Hou		NA		
Operating Cost/Hou		100		
Operator Cost/Hou		NA		
Total Unit Cost/Hou	r: \$206.07			
Total Fleet Cost/Hor	ur: \$206.07			
MATERIAL QUANTITI	<u>IES</u>			
Initial volume: 1,12	0 (	CCY Swell factor:	1.000	
Loose volume:		LCY	1.000	
		Division of Reclamation, Minir	a & Safaty	
		Cat Handbook	ig & Salety	
Source of estilla				
HOURLY PRODUCTIO				
noemerrationeerro	<u>N</u>			
Loader Cycle Time:		d Basic Cycle Time (load, dum	÷ 0.5/5	minutes
Loader Cycle Time:		d Basic Cycle Time (load, dum maneuver	r):	
Loader Cycle Time: Cycle Time Factors	Unadjusted	maneuver	$\frac{0.575}{\text{Factor (min.)}}$	Source
Loader Cycle Time: Cycle Time Factors Material:	Unadjusted	maneuver 02	r): 0.575 Factor (min.) 0.020	Source (Cat HB)
Loader Cycle Time: Cycle Time Factors	Unadjusted Mixed material 0.0 No adjustment - fa Common ownersh	maneuver	$\frac{0.575}{\text{Factor (min.)}}$	Source
Loader Cycle Time: Cycle Time Factors Material: Stockpile: Truck Ownership:	Unadjusted Mixed material 0.0 No adjustment - fa Common ownersh 0.04	maneuver 02 actor not applicable 0.00 ip of trucks and loaders -	r): 0.375 Factor (min.) 0.020 0.000 -0.040	Source (Cat HB) (Cat HB) (Cat HB)
Loader Cycle Time: Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	Unadjusted Mixed material 0.0 No adjustment - fa Common ownersh 0.04 Constant operation	maneuver 02 actor not applicable 0.00 ip of trucks and loaders - n -0.04	r): 0.375 Factor (min.) 0.020 0.000 -0.040 -0.040	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB)
Loader Cycle Time: Cycle Time Factors Material: Stockpile: Truck Ownership:	Unadjusted Mixed material 0.0 No adjustment - fa Common ownersh 0.04 Constant operation Nominal target 0.0	maneuver 02 actor not applicable 0.00 ip of trucks and loaders - n -0.04	r): 0.375 Factor (min.) 0.020 0.000 -0.040	Source (Cat HB) (Cat HB) (Cat HB)

### 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

	Length (feet)	Grade Res. (%)	Rolling Res. (%)	Total Res. (%)	Travel Time (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 Trave Total Cycl			nutes nutes
Load Bucket Capacity						
Rated Cap	pacity: 9	.20 LCY	(heaped)			
Bucket Fill F			r - rock/dirt mixtu	res (100-120%)	1.100	
Adjusted Cap	eacity: 10	.12 LCY	•	· · · · ·		
lob Condition Correction Site Altitude: <u>7040</u> feet	<u>ractors</u>	S	ource			
Altitude Ad	lj: 1.00		AT HB)			
Job Efficienc		(1 sł	nift/day)			
Net Correctio	n: 0.83	mult	iplier			
	Adjusted H	Iourly Unit Product Iourly Unit Product Ourly Fleet Product	ction: 879.	58 LCY/I	Hour	
IOB TIME AND COS	<u>ST</u>					
Fleet size:	1 L	oader(s)	Total job	time:	1.27	Hours
						-

### EQUIPMENT MOBILIZATION/DEMOBILIZATION

Colorado Rose	Red Pit Per	mit Action: <u>AM02</u>	2_AdequacyRespo	nseEstima	te Permit/Jo	b#: <u>M1978332</u>	
PROJECT IDEN	TIFICATION						
Task #: 00	3	State: Co	olorado		Ab	breviation: Noi	ne
	4/2018	County: La	arimer			Filename: M3	32-003
User:JL	E						
Age	ncy or organization	on name: DRMS					
QUIPMENT T	RANSPORT R	IG COST					
					Shift	basis: 1 per	day
					Cost Data So	ource: CRG	Data
,	Fruck Tractor Des	scription: GEN	ERIC ON-HIGHV	VAY TRU	CK TRACTOR.	6X4, DIESEL PO	WERED, 400 H
		-		(	2ND HALF, 200	6)	
	Truck Trailer Des	scription: GENEI	RIC FOLDING GO	DOSENEC		EQUIPMENT T	RAILER (25T, 5
					AND 100T)		
Cost Breakdown:							
Available Rig Ca		0-25 Tons	26-50 Tons	5	1+ Tons		
	ship Cost/Hour:	\$16.63	\$18.37		\$22.33		
	ting Cost/Hour: ator Cost/Hour:	\$44.38 \$27.66	\$46.13 \$27.66		\$50.07 \$27.66		
	lper Cost/Hour:	\$0.00	\$25.39		\$25.39		
	Unit Cost/Hour:	\$88.67	\$117.55		\$125.45		
			· ·	I	<u>.                                    </u>		
NON ROADABL	1						DOTID
Machine	Weight/ Unit	Owner ship Cost/hr/ unit	Haul Rig Cost/hr/unit	Fleet Size	Haul Trip Cost/hr/	Return Trip Cost/hr/ fleet	DOT Perm Cost/ fleet
Description	(TONS)	Cost/III/ unit	Cost/m/umt	Size	fleet		
CAT 988H	54.46	\$83.38	\$125.45	1	\$208.83	\$125.45	\$250.00
			Subt	otals:	\$208.83	\$125.45	\$250.00
			Subi	otais.	\$200.05	\$1 <b>23.4</b> 3	¢230.00
	IIIPMENT.						
POADARI E EO		T				T	
ROADABLE EQ		Total Cost/hr/ u	nit Fleet Size	e	Haul Trip	Return Trip Cost/hr/ flee	
<b>ROADABLE EQ</b> Machine Description	on				Cost/hr/ fleet	Cost/III/ Hee	-ι
Machine Descript		\$47.96	2			\$05.02	
	4x4, 1 T. Crew	\$47.96 \$74.87	2		\$95.92 \$74.87	\$95.92 \$74.87	

## **EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region:	LYONS	
Total one-way travel distance:	8.00	miles
Average Travel Speed:	8.00	mph
Total Non-Roadable Mob/Demob Cost *	\$1,243.74	

\*\* two round trips with haul rig:

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

Total job cost: \$1,585