# COST SUMMARY WORK

T	ask description:	Cost Summary for New 110	(1)			
Site:	Robert Michael #1-A	Permit Action:	New 110(1)		Permit/Job	#: <u>M2019050</u>
PI	ROJECT IDENTIFIC	<u>'ATION</u>				
	Task #:000	State: Colorado			Abbreviation: _	None
	Date: 12/27/2019	County: Park			Filename:	M050-000
	User: ERR	<u></u>				
	Agency or organiz	zation name: DRMS				
<u>T</u> A	ASK LIST (DIRECT )	COSTS)				
ask			Form	Fleet	Task	
	Description		Used	Size	Hours	Cost
01	Backfill and Grade		LOADER	1	1.58	\$105
02	Revegetate the Site		REVEGE	1	1.00	\$196
03	Mob/Demob		MOBILIZE	1	3.56	\$320
			SUBTO	TALS:	6.14	\$621
	IDIRECT COSTS VERHEAD AND PROFI	<u> T:</u>				
	Liability insuran	ce: 2.02			Total = \$1	3
	Performance box				Total = $\frac{}{\$7}$	
	Job superintende	ent: 3.43			Total =	
	Pro	ofit: 10.00			Total =\$6	
					LO&P = \$3	
		CONTR	RACT AMOUNT	(direct +	$O \& P) = _{\$9}$	40
LE	EGAL - ENGINEERING	- PROJECT MANAGEMENT:				
		ocessing (legal/related costs): _	\$0	_	Total =\$0	
	0	d/or contract/bid preparation: _	0.00	_	$Total = \underline{\$0}$	
	Reclamation manag	ement and/or administration:	5.00	-	\$4	7
		CONTINGENCY:	0.00		Total =\$0	
			TOTAL IN	IDIRECT	T COST =\$3	66
			TOTAL (	direct + i	ndirect) = \$9	87
		TOT	AL BOND AMO	UNT (ro	unded) =\$1	,000

## WHEEL LOADER – LOAD AND CARRY WORK

Task description:	Backfill	and Grade				
: Robert Michael	#1-A	Permit Acti	on: New 110	(1)	Permit/Job#:	M2019050
PROJECT IDEN	TIFICATION	]				
Task #: 001		State: Color	ado		Abbreviation:	None
Date: 12/27	/2019	County: Park			Filename:	M050-001
User: ERR						
Agency or	organization nar	ne: DRMS				
HOURLY EQUI	PMENT COST	<u>r</u>				
Basic Machin	ne: CAT 2460			Horsepo	ower:	73
Attachment	1: ROPS Cab	)	_	Shift B		per day
			<del>-</del>	Data So		CRG)
Cost Breakdown:						
Cost breakdown:			Utilizatio	n %		
Ownership (	Cost/Hour	\$11.27	NA	/11 /0		
Operating (		\$14.69	100	<del></del>		
1 0	Cost/Hour:	\$40.65	NA			
Total Unit (		\$66.61	I			
Total Fleet	Cost/Hour:	\$66.61				
		7 3 3 3 3				
MATERIAL QU	<u>ANTITIES</u>					
Initial volume	73	CCY	/ Swe	ell factor: 1.3	330	
Loose volume:	97	LCY				
So	urce of estimated	volume: 5'x5	'x4' open hole	+ ~18" grading	on 50'x25' site	
	of estimated swe		Handbook	- 6 - 6		
HOURLY PROD	<u>UCTION</u>					
Loader Cycle Time:	Unadjust	ed Basic Cycle T	ime (load, dum	p, maneuver):	0.425	minutes
Cycle Time	Factors				Factor (min.)	Source
		justment - factor	1_1		0.000	(Cat HB)
		justment - factor			0.000	(Cat HB)
Truck Own	•	justment - factor		0.00	0.000	(Cat HB)
		ant operation -0.0	)4		-0.040	(Cat HB)
Dump	Target: Small	target 0.04			0.040	(Cat HB)
			t Cycle Time A		0.000	minutes
		Ad	djusted Basic C	ycle Time:	0.425	minutes
Rolling Resistance -	- Road Condition	<u>is</u>				
]	Haul: Soft, rut	ted dirt, no maint	enance or water	, 4" tire penetra	ation 8.0	
		ted dirt, no maint				
	· · · · · · · · · · · · · · · · · · ·	,		. 1		
Haul and Return Ti	<u>ne</u>					
	Length	Grade Res.	Rolling	Total Res.	Travel Time	Source
	(feet)	(%)	Res. (%)	(%)	(minutes)	
Haul Route:		0.00	8.00	8.00	0.0238	(Cat HB)
Return Route:	25	0.00	8.00	8.00	0.0238	(Cat HB)

			Total Travel Ti Total Cycle Ti		0.0476 <b>0.4726</b>	minutes minutes
Load Bucket Capacity						
Rated Capaci	ty:0.53	LCY (hea	ped)			
Bucket Fill Factor	or:1.100	Other - ro	ck/dirt mixtures	(100-12)	20%) 1.100	
Adjusted Capaci	ty: <b>0.58</b>	LCY				
Job Condition Correction Site Altitude: 6500 feet	on Factors					
		C				
A1.*. 1 A 1*	1.00	Source	`			
Altitude Adj:	1.00	(CAT HB	<del></del>			
Job Efficiency:	0.83	(1 shift/da	<u>y)</u>			
Net Correction:	0.83	multiplier				
Uı	nadjusted Hourly Unit	Production:	74.02	LCY	/Hour	
	Adjusted Hourly Unit	Production:	61.44	LCY	/Hour	
	Adjusted Hourly Fleet	Production:	61.44	_ LCY	/Hour	
JOB TIME AND CO	<u>DST</u>					
Fleet size:	1 Loader(s)		Total job time:		1.58	Hours
Unit cost: \$1	.084 /LCY		Total job cost:		\$105	

## **REVEGETATION WORK**

		Revegetate the Si	te			
Rob	Robert Michael #1-A Permit Action: New 110(1) Permit Action:				Permit/Job	#: <u>M2019050</u>
PROJE	ECT IDENTI	FICATION				
Tas		State:	Colorado		Abbreviation:	None
	ate: 12/27/2	019 County:	Park		Filename:	M050-002
U	ser: ERR					
	Agency or or	ganization name: DRM	MS			
	<u>LIZING</u>					
<u> </u>	ıls		Units /			
Desc	cription		Acre	Unit	Cost / Unit	Cost /Acre
					\$	\$
					Total Fertilizer	
					Materials	
					Cost/Acre	\$0.00
<b>pplica</b>	tion					
Desc	cription					Cost /Acre
						\$
			Total	Fertilizer A	Application Cost/Acre	\$0.00
<u> </u>	<u>NG</u>					
Desc	ription					Cost /Acre
		NS 32 91 13.23 0250)				\$1,437.48
Hand						
Hand						

## **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Elk Sedge	5.80	13.31	\$2,499.80
Idaho Fescue	1.60	20.20	\$15.16
Locoweed, Showy	0.50	1.44	\$34.75
Parry's Oatgrass	4.00	8.26	\$88.00
Prairie Junegrass	0.30	15.95	\$7.80
Spike Muhly	0.46	16.90	\$4.46
Totals Seed Mix	12.66	76.06	\$2,649.97

## 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
		\$
	<b>Total Mulch Application Cost/Acre</b>	\$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:
 0.03
 Cost /Acre:
 \$4,354.67

 Estimated Failure Rate:
 50%
 Cost /Acre\*:
 \$4,354.67

\*Selected Replanting Work Items: TILLING,SEEDING

Initial Job Cost:
Reseeding Job Cost:
Total Job Cost:
Job Hours:

\$130.64

\$65.32

\$196

1.00

## EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description: Mo	b/Demob				
te: Robert Michael #1-A	Permi	t Action: New 11	0(1)	Permit/Jol	b#: <u>M2019050</u>
PROJECT IDENTIFICATI	<u>ON</u>				
Task #: 003 Date: 12/27/2019 User: ERR		olorado ark	Ab	breviation: Filename:	None M050-003
Agency or organization	name: DRMS	S			
EQUIPMENT TRANSPOR  Truck Tractor Desc			Cost Data S	Source: CTOR, 6X4,	1 per day CRG Data DIESEL POWERED,
Truck Trailer Desc	ription:	GENERIC FOLDIN	400 HP (2ND HAI G GOOSENECK, AILER (25T, 50T,	DROP DEC	•
Cost Breakdown:					
Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons	-	
Ownership Cost/Hour:	\$17.20	\$29.63	\$38.69	_	
Operating Cost/Hour:	\$26.56	\$47.02	\$55.69	_	
Operator Cost/Hour:	\$23.63	\$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:**

(TONS) t fleet		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
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Subtotals: \$0.00 \$0.00 \$0.00

### **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	\$89.74	1	\$89.74	\$89.74

\$89.74 Subtotals: \$89.74

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

Nearest Major City or Town within project area region:

Total one-way travel distance:

Average Travel Speed:

COLORADO SPRINGS
miles
60.00
mph

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

\$0.00

\$320.07

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

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	1.78	1.78
Return Time (Hours):	1.78	1.78
Loading Time (Hours):	0.15	NA
Unloading Time (Hours):	0.15	NA
Subtotals:	3.87	3.57

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

Total job time:	3.57	Hours
Total job cost:	\$320	