## COST SUMMARY WORK

Та	ask description:	Cost Summary					
Site:	Valco T Pit	Pe	ermit Action:	September 202	1	Permit/Jo	b#: M2004043
<u>PR</u>	OJECT IDENTIFI	CATION					
	Task #: 000	State:	Colorado		A	bbreviation:	None
	Date: 9/23/2021	County:	Las Anima	5		Filename:	M043-000
	User: JLE						
Agency or organization name: DRMS TASK LIST (DIRECT COSTS) Form Fleet Task							
Task	Description			Used	Size	Hours	Cost
001	Grade highwall from	n 0H:1V to 3H:1V		DOZER	2	0.75	\$316
002	Spread 6" topsoil ac	cross 7 acres		DOZER	2	17.72	\$7,507
003	Revegetate 7 acres	to rangeland		REVEGE	1	7.00	\$3,350
004	Cover crop of oats of	on 7 acres		REVEGE	1	7.00	\$2,484
005	Mobilization/Demo	bilization		MOBILIZE	1	1.43	\$2,303
				<u>SUBTC</u>	DTALS:	33.9	\$15,960

## **INDIRECT COSTS**

## OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$322		
Performance bond:	1.05	Total =	\$168		
Job superintendent:	16.95	Total =	\$1,221		
Profit:	10.00	Total =	\$1,596		
		TOTAL O & P =	\$3,307		
		CONTRACT AMOUNT (direct + O & P) = $($	\$19,267		
LEGAL - ENGINEERING - PROJECT MANAGEMENT:					

Financial warranty processing (legal/related costs):	\$500	Total =	\$500
Engineering work and/or contract/bid preparation:	4.25	Total =	\$819
Reclamation management and/or administration:	5.00		\$963
CONTINGENCY:	0.00	Total =	\$0
	TOTAL IN	DIRECT COST =	\$5,589

TOTAL BOND AMOUNT (direct + indirect) = \$21,549

#### BULLDOZER WORK

Task description:	Grade highwall	from 0H:1V t	o 3H:1V		
te: Valco T Pit	Pe	rmit Action:	September 2021	Permit/Jol	o#: <u>M2004043</u>
PROJECT IDENTI	<b>IFICATION</b>				
Task #:     001       Date:     9/23/20       User:     JLE	State: 021 County:	Colorado Las Animas		Abbreviation: Filename:	None Na
Agency or or	rganization name: DI	RMS			
HOURLY EQUIPM	MENT COST				
Horsepower: Blade Type:	Cat D7R DS XR Series 240 Semi-Universal 3-shank ripper 1 per day (CRG)	II			
Cost Breakdown:					
Ownership Cost/Hou Operating Cost/Hou		\$81.02 \$79.33	Utilization % NA 100		
Ripper ow Cost/Hou	/n.	\$9.32	NA		
Ripper op. Cost/Hot		\$0.89	15		
Operator Cost/Hou		\$41.30	NA		
Swell factor: 1	NTITIES 047 1.250 1,184 LCY				
Source of estimated s Source of estimated s factor:	wolume: DRMS In swell Cat Hand	nspection : 970 Ibook	) 'L x 10'H		
HOURLY PRODUCE Average push distance Unadjusted hourly production:		Y/hr			
Materials consistency	y description: Compa	acted fill or em	bankment 0.9		
Average push gradient: Average site altitude:	-15 % 6,020 feet				
Material weight:	2,650 lbs/LCY				
	2,030 108/ LC 1				
Weight description:	Decomposed rock	- 25% Rock,	75% Earth		

Operator Skill:	0.750	(AVG.)
Material consistency:	0.900	(CAT HB))
Dozing method:	1.200	(SLOT)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	1.000	(DOZ-OC)
Push gradient:	1.329	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.868	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.7755

Adjusted unit production:	793.26 LCY/hr
Adjusted fleet production:	1586.52 LCY/hr

# JOB TIME AND COST

Fleet size:	2 Dozer(s)
Unit cost:	\$0.267/LCY

Total job time:0.75 HoursTotal job cost:\$316

#### BULLDOZER WORK

Task description:	cres	28			
Site: Valco T Pit	Permit Action:	September 2021	Permit/Jo	b#: M2004043	
PROJECT IDENTIFI	<u>CATION</u>				
Task #: 002	State: Colorado		Abbreviation:	None	
Date: $9/23/2021$	County: Las Anima	S	Filename:	NA	
User: JLE		~			
Agency or organ	ization name: DRMS				
HOURLY EQUIPME	NT COST				
Basic Machine: Cat	D7R DS XR Series II				
Horsepower: 240		_			
	ni-Universal	-			
• •	hank ripper	-			
	er day	_			
Data Source: (CF	RG)	-			
Cost Breakdown:					
		Utilization %			
Ownership Cost/Hour:	\$81.02	NA			
Operating Cost/Hour:	\$79.33	100			
Ripper own. Cost/Hour:	\$9.32	NA			
Ripper op. Cost/Hour:	\$0.89	15			
Operator Cost/Hour:	\$41.30	NA			
Total unit Cost/Hour: Total Fleet Cost/Hour:	\$211.86 <b>\$423.72</b>				
MATERIAL QUANT	<u>ITIES</u>				
Initial Volume: 5,64					
Swell factor: 1.21					
Loose volume: <b>6,86</b>	1 LCY				
Source of estimated volu	me: DRMS inspection 9/9/	/15: 7ac x 6" deep			
Source of estimated swe factor:	*	<b>i</b>			
HOURLY PRODUCT	ION				
Average push distance:	300 feet				
Unadjusted hourly production:	311.1 LCY/hr				
Materials consistency description:	Consolidated stockp	pile 1.0			
Average push gradient:	5 %				
Average site altitude:	6,020 feet				
Material weight:	1,600 lbs/LCY				
Weight description:	Top Soil				

Job Condition Correction Factor		Source
Operator Skill:	0.750	(AVG.)
Material consistency:	1.000	(CAT HB)
Dozing method:	1.100	(50% SL)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.700	(FND-MF)
Push gradient:	0.903	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.6224	

Adjusted unit production:	193.63 LCY/hr
Adjusted fleet production:	<b>387.26</b> LCY/hr

## JOB TIME AND COST

Fleet size:	2 Dozer(s)
Unit cost:	\$1.094/LCY

Total job time:	<b>17.72</b> Hours
Total job cost:	\$7,507

## **REVEGETATION WORK**

ite:	Task description:   R     te:   Valco T Pit		Pe	rmit Action:	September 2021	Permit/Jo	b#: <u>M2004043</u>
<u>P</u> ]	ROJECT	IDENTIFI	CATION				
	Task #:	003	State:	Colorado		Abbreviation:	None
	Date:	9/23/2021	County:	Las Anima	S	Filename:	Na
	User:	JLE					

# **FERTILIZING**

Units / Acre	Unit	Cost / Unit	Cost /Acre
		\$	\$
		Total Fertilizer	
-	Acre	Acre Unit	\$

## 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
Blue Grama - Lovington	0.45	7.35	\$7.19
Little Bluestem - Pastura	1.75	10.45	\$23.60
Sideoats Grama - Vaughn	2.70	8.86	\$22.61
Western Wheatgrass - Barton	4.80	12.12	\$33.60
Totals Seed Mix	9.70	38.78	\$87.00

# Application

-1		
	Description	Cost /Acre
	Drill Seeding (DRMS Survey Cost)	\$232.00

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#### **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 A	oplication 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:	7	Cost /Acre:	\$319.00
Estimate	ed Failure Rate:	50%	Cost /Acre*:	\$319.00
*Selected Replanti	ng Work Items:	SEEDING		
Initial Job Cost:	\$2,233.00			
Reseeding Job Cost:	\$1,116.50			
Total Job Cost:	\$3,350			
Job Hours:	7.00			

## **REVEGETATION WORK**

Task description:		Cover crop of oa	its on 7 acres			<u> </u>
te: Valco T Pit		Permit Action: September 2021 Permit/J				b#: M2004043
PROJEC'	<u> IDENTIFI</u>	CATION				
Task #: Date:		State: County:	Colorado Las Animas		Abbreviation: Filename:	None NA
User:		County.	Las Allinas		Pilename.	NA

# FERTILIZING

Units / Acre	Unit	Cost / Unit	Cost /Acre
		\$	\$
		Total Fertilizer	
			Acre     Unit     Cost / Unit       \$     \$

## Application

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

## **TILLING**

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$114.56
Total Tilling Cost/Acre	\$114.56

## **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Oats - Hytest	25.00	7.46	\$8.25
Totals Seed Mix	25.00	7.46	\$8.25

## Application

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$232.00
	Total Seed Application Cost/Acre	\$232.00

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## **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

#### **Application**

Description		Cost /Acre
		\$
г	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:	7	Cost /Acre:	\$354.81
Estimate	ed Failure Rate:	0%	Cost /Acre*:	\$0.00
*Selected Replanti	ng Work Items:	NONE		
Initial Job Cost:	\$2,483.67			
Reseeding Job Cost:	\$0.00			
Total Job Cost:	\$2,484			
Job Hours:	7.00			

## EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description	on: Mo	bilization/Demob	oilization					
: Valco T Pit		Permit	Action: Sept	ember 2021	P	ermit/Job#:	M2004043	
PROJECT ID	ENTIFICATI	<u>ION</u>						
Task #: 0	005	State: Co	olorado		Abbrev	viation: N	one	
	)/23/2021 LE	County: La	s Animas		File	ename: N	a	
Agenc	y or organization	n name: DRMS						
EQUIPMENT	TRANSPOR	T RIG COST						
					Shift bas	is: 1 pe	er day	
				C	Cost Data Sourc	e: CRC	6 Data	
Tru	ick Tractor Desc	ription: GENE	RIC ON-HIGH		ICK TRACTO (2ND HALF, 2		ESEL POWERE	ED,
Tr	uck Trailer Desc	ription: G	ENERIC FOLI		SENECK, DR		OUIPMENT	
		1		TRAILER	(25T, 50T, AN	D 100T)		
Cost Breakdown	<u>ı:</u>							
Available Rig	Capacities	0-25 Tons	26-50 Tons	51+	Tons			
	nip Cost/Hour:	\$21.28	\$37.94	\$4	7.67			
	ng Cost/Hour:	\$26.55	\$50.48	\$5	6.21			
Operat	tor Cost/Hour:	\$20.54	\$20.54	\$2	20.54			
Help	per Cost/Hour:	\$0.00	\$23.53	\$2	3.53			
Total U	nit Cost/Hour:	\$68.37	\$132.49	\$1	47.95			
NON ROADA	BLE EQUIP	MENT:						
Machine	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return Trij		
Description	Unit	Cost/hr/ unit	Cost/hr/unit	Size	Cost/hr/	Cost/hr/ fle	et Cost/ flee	et
-	(TONS)				fleet			

Machine	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return Trip	DOT Permit
Description	Unit	Cost/hr/ unit	Cost/hr/unit	Size	Cost/hr/	Cost/hr/ fleet	Cost/ fleet
	(TONS)				fleet		
Cat D7R DS XR	32.01	\$81.02	\$132.49	2	\$427.02	\$264.98	\$500.00
Series II							
Drill/Broadcast	25.00	\$7.98	\$68.37	2	\$152.70	\$136.74	\$250.00
Seeder with							
Tractor							
				Subtotals:	\$579.72	\$401.72	\$750.00

## **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.	\$40.61	1	\$40.61	\$40.61
		Subtotals:	\$40.61	\$40.61

## **EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region:	TRINIDAD	
Total one-way travel distance:	6.00	miles
Average Travel Speed:	55.00	mph
Total Non-Roadable Mob/Demob Cost *	\$2,293.85	
** one round trip, no haul rig:	\$8.86	

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.11	0.11
Return Time (Hours):	0.11	0.11
Loading Time (Hours):	0.25	NA
Unloading Time (Hours):	0.25	NA
Subtotals:	0.72	0.22

#### JOB TIME AND COST

Total job time:	1.44	Hours

Total job cost: **\$2,303**