# COST SUMMARY WORK

,	Task description: Cost Su	mmary of Reclamat	ion Tasks				
Site:	Wellington Cattle BorrowPit	Permit/	Job#	: <u>M2021025</u>			
D	ROJECT IDENIIFICATION						
<u>1</u>	Task#: 000	State: Colorado			bbreviatio	<b>n</b> .	None
		ounty: Teller		P	Filenam		M025-000
	User: ERR	J					
	Agency or organization nam	e: DRMS					
<u>T</u>	ASK LIST (DIRECT COSTS)						
Task			Form	Fleet	Task		
	Description		Used	Size	Hours		Cost
001 002	Grade/Shape Slopes (1 acre) Replace Topsoil on Slopes (1 acre)	) )	DOZER DOZER	1	4.71		\$833 \$260
002	Revegetate the Side Slopes		REVEGE	1 1	1.47 1.00		\$200 \$784
003	Mob/Demob Reclamation Equi	pment	MOBILIZE	1	3.84		\$1,143
			<u>SUBTO</u>	TALS:	11	.02	\$3,020
	NDIRECT COSTS VERHEAD AND PROFIT:						
	Liability insurance: 2.02				Total=	\$61	
	Performance bond: 1.05 Job superintendent: 5.51				Total= Total=	\$32 \$39	
	Job superintendent: 5.51 Profit: 10.0				Total = Total =	\$39 \$30	
	from. for			TOTAI	LO & P =	\$79	
		CONTI	RACT AMOUNT	(direct +	O & P) =	\$3,8	
L	EGAL - ENGINEERING - PROJEC	T MANAGEMENT	:				
	Financial warranty processing (le Engineering work and/or contra Reclamation management and	ct/bid preparation:	\$0 0.00 5.00		Total= Total=	\$0 \$0 \$19	1
		CONTINGENCY:	0.00		Total=	\$0	
			TOTALIN	DIRECT	COST =	\$98	2
		ТО	TALAMOUNT (	direct + i	ndirect) =	\$4,0	002
		ТОТ	AL BOND AMO	UNT (ro	unded) =	\$4,	000

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### BULLDOZER WORK

Task description:	Grade/Sh	ape Slopes (1 acre)			
Wellington Cattle Bo	rrowPit	Permit Action:	2022 New Permit	Permit/Job#:	M2021025
PROJECT IDENTIFI	<b>CATION</b>				
Task#: 001   Date: 6/10/2022   User: ERR		State: Colorado unty: Teller		Abbreviation: Filename:	None M025-001
Agencyororga	nization name	: DRMS			
HOURLY EQUIPME	NT COST				
Horsepower: 185 Blade Type: Ser Attachment: 3-s	ni-Universal hank ripper er day		  		
<u>Cost Breakdown</u> :			_		
Ownership Cost/Hour:		\$64.38	<u>Utilization %</u> NA		
Operating Cost/Hour:		\$64.62	100		
Ripper own. Cost/Hour.		\$5.99	NA		
Ripper op. Cost/Hour: Operator Cost/Hour:		\$0.65 \$41.30	15 NA		
MATERIAL QUANT Initial Volume: 538 Swell factor: 1.21:	5				
Source of estimated volu Source of estimated swel	ll factor: Ca	RMS Estimate: Avg at Handbook	.of4"		
HOURLY PRODUCT A verage push distance: Unadjusted hourly produ	50 f	eet 6 LCY/hr	_		
Materials consistency de	scription:	Compacted fill or er	nbankment 0.9		
<b>j</b>					
Average push gradient: Average site altitude:	0 % 9,280 feet				
Average push gradient:					
Average push gradient: Average site altitude:	9,280 feet 3,300 lbs/I	CY edrock - 75% Rock,	25% Earth		

Task # 001

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Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.697	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.3124	
Adjusted unit production: 13	8.89 LCY/hr	

rajab wa ann prodae dom	
Adjusted fleet production:	138.89 LCY/hr
-	

### JOB TIME AND COST

Fleet size:	1 Dozer(s)
Unit cost:	\$1.274/LCY
Total job time: Total job cost:	<b>4.71</b> Hours <b>\$833</b>

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### BULLDOZER WORK

Task description:	_	Replace	e Tops oil	on Slopes (1	l acre)		
Wellington Cattl	le Borr	owPit	Peri	mit Action:	2022 New Permit	Permit/Job#	: M2021025
PROJECT IDEN	TIFIC	ATION					
Task#: 002			State:	Colorado		Abbreviation:	None
Date: 6/10/2	2022	(	County:	Teller		Filename:	M025-002
User: ERR							
Agencyor	organiz	zationnai	me: <u>DF</u>	RMS			
HOURLY EQUI	PMEN'	T COS	<u>Г</u>				
Basic Machine:	Cat D	06T XL					
Horsepower:	185				_		
Blade Type:	Semi	-Universa	al				
Attachment:		ank ripper	r		_		
Shift Basis:	1 per				_		
Data Source:	(CRC	j)			_		
Cost Breakdown:							
				<b>\$ \$ \$ \$ \$</b>	<u>Utilization %</u>	<u>0</u>	
Ownership Cost/H				\$64.38	NA		
Operating Cost/H Ripper own. Cost/H				\$64.62 \$5.99	100 NA		
Ripper op. Cost/H				\$0.00	0		
Operator Cost/H				\$41.30	NA		
-				ψ11.50	na na		
Total unit Cost/Hou		\$176.29					
Total Fleet Cost/Ho	ur:	\$176.29					
MATERIAL QUA	ANTIT	TIES					
Initial Volume:	269						
Swell factor:	1.429						
	384 LO	CY					
Source of estimated	lvolum		Applicat	ion: ?"			
Source of estimated			Cat Hand				
Source of estimated	.5	<u></u>	Cut Hune	10001			
HOURLY PROD	UCTI	ON					
Averagepushdistar	200.		0 feet				
Unadjusted hourly p			0 1661 03.3 LCY/	'nr			
	Jouuer	1011. <u> </u>	5.5 LC 1/	111			
Materials consistent	cy desc	ription:	Loose	stockpile 1.2			
Averagepushgradie		0%					
Average site altitud	e:	9,280 fee	et				
Material weight:	_	1,600 lbs	JLCY				
Weight description:	_	Top Soil					
Job Condition Corre	a dia m T	Factor			Sourc		
Ope	rator Sl	kill:		.750	(AVG.		
Ope Material co	rator Sl nsisten	kill: icy:	1.	.200	(CAT H	IB)	
Ope Material co Dozin	rator Sl	kill: icy: od:	1. 1.			IB) .)	

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Adjusted unit production:	260.63 LCY/hr
Adjusted fleet production:	<b>260.63</b> LCY/hr

### JOB TIME AND COST

Fleet size:	1 Dozer(s)
Unit cost:	\$0.676/LCY
Total job time:	<b>1.47</b> Hours
Total job cost:	\$260

# **REVEGETATION WORK**

Site:   Wellington Cattle BorrowPit   Permit Action:   2022 New Permit   Permit/Job#:   M2021025     PROJECT IDENTIFICATION     Task#:   003   State:   Colorado   Abbreviation:   None     Date:   6/8/2022   County:   Teller   Filename:   M025-003     User:   ERR   County:   Teller   M025-003	]	Task descrij	ption:	Revegetat	e the S	ide Slopes					
Task#:003State:ColoradoAbbreviation:NoneDate:6/8/2022County:TellerFilename:M025-003	Site:	Wellingt	on Cattle Bor	rowPit	Per	mit Action:	2022 New Permit	Permit/Job	o#: M2021025		
Date: 6/8/2022 County: Teller Filename: M025-003											
						00101000					
User: ERR				Coi	inty:	Teller		Filename:	M025-003		
		User:	ERR								
		-	-								

### **FERTILIZING**

#### Materials

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
Disc harrowing, 6" deep (MEANS 3291 13.23 6100)	\$114.56
Subsoiling, light {(DMG}	\$175.31
Total Tilling	gCost/Acre \$289.87

# **SEEDING**

SeedMix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost/Acre
Rye, Perennial Tetraploid - Tetra-Plus	3.84	21.77	\$6.91
Orchardgrass - Shawnee	3.83	47.48	\$11.87
Smooth Brome - Lincoln	3.75	12.48	\$12.47
Intermediate Wheatgrass - Rush	1.98	4.23	\$5.54
Streambank Wheatgrass - Sodar	1.96	6.39	\$11.17
Siberian Wheatgrass	3.81	9.62	\$21.81
Totals Seed Mix	19.17	101.97	\$69.78

#### Application

Description Broadcastseeding [DMG]		Cost/Acre \$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/Acro	e \$0.00

#### NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost/Acre
					\$
		Totals I	Nursery Stoc	k Cost/Acre	\$0.00

#### JOB TIME AND COST

Estimat *Selected Replant	No. of Acres: ed Failure Rate: ng Work Items:	25%	DING	Cost/Acre: Cost/Acre*:	
Initial Job Cost:	\$626.87				
Reseeding Job Cost:	\$156.72				
Total Job Cost:	\$784				
Job Hours:	1.00				

# EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task descriptio	on: <u>Mo</u>	b/Demob Reclam	nation Equipme	nt			
e: Wellington	Cattle Borrow	Pit Permit A	Action: 2022	New Perm	<u>it</u> F	Permit/Job#: <u>M</u>	2021025
PROJECT ID	ENTIFICATI	<u>ON</u>					
Task#: 0	04	State: Co	olorado		Abbre	eviation: None	
	/10/2022 RR	County: Te	eller		Fi	ilename: M025	5-004
Agency	y or organization	nname: <u>DRMS</u>					
EQUIPMENT	TRANSPOR	T RIG COST					
				C	Shift ba Cost Data Sour		
True	ck Tractor Desc	ription: GENE	RIC ON-HIGH		JCK TRACTO (2ND HALF,	OR, 6X4, DIESEL 2006)	POWERED,
Tru	ck Trailer Desc	ription: G			SENECK, DF (25T, 50T, AN	ROP DECK EQUI ND 100T)	PMENT
Cost Breakdown	<u>ı:</u>						
Available Rig		0-25 Tons	26-50 Tons		- Tons		
	ip Cost/Hour:	\$21.28	\$37.94		17.67		
	ng Cost/Hour:	\$26.55	\$50.48		56.21		
	or Cost/Hour: er Cost/Hour:	\$20.54 \$0.00	\$20.54 \$23.53		20.54 23.53		
	nit Cost/Hour:	\$0.00 \$68.37	\$25.55 \$132.49		47.95		
			ψ132.47	ψı	+7.95		
NON ROADA							
Machine Description	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
Cat D6T XL	25.01	\$70.37	\$68.37	1	\$138.74	\$68.37	\$250.00
				Subtotals:	\$138.74	\$68.37	\$250.00
ROADABLE I	EQUIPMENT	<u>:</u>					
Machine Desc	ription	TotalCost/hr/	Fleet Siz	e	Haul Trip	Return Trip	

	\$138.34	\$138.34		
Light Duty Pickup, 4x4, 1 T. Crew	\$138.34	1	\$138.34	\$138.34
Machine Description	TotalCost/hr/ unit	Fleet Size	Haul Trip Cost/hr/fleet	Return Trip Cost/hr/fleet

CIRCES Cost Estimating Software

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

Nearest Major City or Town within project area region:	COLORADO SPRINGS	
Totalone-way travel distance:	40.50	miles
Average Travel Speed:	50.00	mph
Total Non-Roadable Mob/Demob Cost * '* two round trips with haul rig:	\$918.76	_
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$224.11	_

Transportation Cycle Time:

	Non- Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.81	0.81
Return Time (Hours):	0.81	0.81
Loading Time (Hours):	0.15	NA
Unloading Time (Hours):	0.15	NA
Subtotals:	1.92	1.62

### JOB TIME AND COST

Totaljob time: 3.84 Hours

Totaljob cost: **\$1,143**