

November 7, 2023

Bryan Malouff RMS Utilities, Inc. 6349 County Rd. 106.65 S. Alamosa, CO 81101

#### Re: Del Norte NKSN Pit - File No. M-2012-007 RMS Utilities, Inc. Surety Increase (SI-1) Surety Increase 1

Dear Bryan Malouff:

On November 7, 2023 the Division of Reclamation, Mining and Safety increased the current Financial Warranty for this permit to \$27,873.00, in accordance with Rule 4.2.1 of the Rules and Regulations. This is an increase of \$12,253.00.

Please see the July 19, 2023 inspection report for details regarding why this surety increase is required.

The Division ordered amendment of the current Financial Warranty, or submittal of a new Financial Warranty reflecting the increase, within 60 days from the date of this letter (November 7, 2023).

Please make arrangements with Sara M. Stevenson-Benn at the Division's Denver office for submittal of the financial warranty. Any other questions regarding completion, execution and/or submittal of financial warranty forms should also be directed to Sara M. Stevenson-Benn by telephone at (303) 866-3567 (8148), or by email at Sara.stevenson-benn@state.co.us.

The Permittee for this site may be scheduled for a Formal Board Hearing for possible revocation of the permit after January 6, 2024, if the amount of any increased Financial Warranty has not been provided.

Bond Held:	\$15,620.00
Prior Liability:	\$15,620.00
Change in Liability:	\$12,253.00
Revised Liability:	\$27,873.00
Prior Permit Acreage:	9.80

Physical Address: 1313 Sherman Street, Room 215, Denver, CO 80203 P 303.866.3567 F 303.832.8106 Mailing Address: DRMS Room 215, 1001 E 62nd Ave, Denver, CO 80216 https://drms.colorado.gov/ Jared S. Polis, Governor | Dan Gibbs, Executive Director | Michael A. Cunningham, Acting Director



Change in Permit Acreage:	0.00
Revised Permit Acreage:	9.80
Prior Affected Acreage:	9.80
Change in Affected Acreage:	0.00
Revised Affected Acreage:	9.80

If you have any questions, please contact me by telephone at (303) 866-3567 x 8107, or by email at Todd.jesse@state.co.us.

Sincerely,

Tald Jesse

Todd Jesse Environmental Protection Specialist

Bryan Malouff, RMS Utilities, Inc.

M-GR-04

# COST SUMMARY WORK

Г	ask descrip	otion:	Cost Summary			
Site:	Del Nort	e NKSN Pit	Pe	rmit Action: <u>SI-01</u>	Permit/Jo	b#: <u>M2012007</u>
P	ROJECT	IDENTIFIC	CATION			
	Task #:	000	State:	Colorado	Abbreviation:	None
	Date:	9/7/2023	County:	Rio Grande	Filename:	M007-000
	User:	TJ1				
	Age	ency or organi	zation name: DF	RMS		

### TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Reduce highwalls to 3:1	DOZER	1	6.02	\$2,654
002	Dispose of debris	DEMOLISH	1	1.00	\$84
003	Rip compaction on roads and pit floor	RIPPER	1	6.02	\$2,701
004	Carry topsoil from stockpile	LOADER	1	30.43	\$3,637
005	Spread topsoil on slopes	DOZER	ZER 1 0.79		\$347
006	Spread topsoil on pit floor	ad topsoil on pit floor DOZER 1 4.26		\$1,908	
007	Revegetation of disturbed areas	REVEGE	1	10.00	\$7,519
008	Haul reclamation equipment to and from site	MOBILIZE	1	3.44	\$3,405
009	Secondary Mob for Reseeding	MOBILIZE	1	3.44	\$801
		SUBTO	TALS:	65.4	\$23,056

#### **INDIRECT COSTS**

#### **OVERHEAD AND PROFIT:**

Liability insurance:	2.02	Total =	\$466
Performance bond:	1.05	Total =	\$242
Job superintendent:	0.00	Total =	\$0
Profit:	10.00	Total =	\$2,306
		TOTAL O & P =	\$3,013
		CONTRACT AMOUNT (direct + O & P) = $\frac{1}{2}$	\$26,069

#### LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): Engineering work and/or contract/bid preparation: Reclamation management and/or administration:	\$500 0.00 5.00	Total = Total =	\$500 \$0 \$1,303
CONTINGENCY:	0.00	Total =	\$0
	TOTA	L INDIRECT COST =	\$4,817
TOTAL BO	\$27,873		

### BULLDOZER WORK

	Permit Action: S	SI-01	Permit/Jo	b#: <u>M201200</u>
ROJECT IDENTIFIC	<u>CATION</u>			
Task #: 001	State: Colorado		Abbreviation:	None
Date: 9/7/2023	County: Rio Grande		Filename:	M007-001
User: TJ1				
Agency or organ	ization name: DRMS			
OURLY EQUIPMEN	<u>NT COST</u>			
Basic Machine: Cat	D8T - 8SU			
Horsepower: 310				
	ni-Universal			
Attachment: 3-sł	hank ripper			
	er day			
Data Source: (CR	(G)			
ost Breakdown:				
		Utilization %		
Ownership Cost/Hour:	\$241.38	NA		
Operating Cost/Hour:	\$143.92	100		
Ripper own.	\$14.11	NA	—	
Cost/Hour:				
Ripper op. Cost/Hour:	\$0.00	0		
Operator Cost/Hour:	\$41.30	NA		
Total unit Cost/Hour:	\$440.71			
Total Fleet Cost/Hour:	<b>\$440.71</b>			
	φ <b>••τυ</b> •/ 1			
IATERIAL QUANTI	TIES			
Initial Volume:				
Swell factor: 1.330				
Swell factor: 1.330	0 <b>3</b> LCY			
Swell factor:1.330Loose volume:3,100	3 LCY	, Mining & Safety		
Swell factor: 1.330 Loose volume: 3,102 Source of estimated volu	3 LCY           me:         Division of Reclamation	, Mining & Safety		
Swell factor:1.330Loose volume:3,100	3 LCY           me:         Division of Reclamation	, Mining & Safety		
Swell factor: 1.330 Loose volume: 3,100 Source of estimated volu Source of estimated swel	3 LCY           me:         Division of Reclamation	, Mining & Safety		
Swell factor: 1.330 Loose volume: 3,100 Source of estimated volu Source of estimated swel	3 LCY me: Division of Reclamation ll Cat Handbook	, Mining & Safety 		
Swell factor: 1.33 Loose volume: 3,10 Source of estimated volu Source of estimated swel factor:	3 LCY me: Division of Reclamation ll Cat Handbook ION	, Mining & Safety		
Swell factor: 1.33 Loose volume: 3,10 Source of estimated volu Source of estimated swel factor: OURLY PRODUCT	3 LCY me: Division of Reclamation ll Cat Handbook ION 	, Mining & Safety		
Swell factor: 1.33 Loose volume: 3,10 Source of estimated volu Source of estimated swel factor: OURLY PRODUCT	3 LCY me: Division of Reclamation ll Cat Handbook ION	, Mining & Safety		
Swell factor: 1.33 Loose volume: 3,10 Source of estimated volu Source of estimated swel factor:	3 LCY me: Division of Reclamation ll Cat Handbook ION 	, Mining & Safety 		
Swell factor: 1.33 Loose volume: 3,10 Source of estimated volu Source of estimated swel factor: (OURLY PRODUCT) Average push distance: Unadjusted hourly production:	3 LCY me: Division of Reclamation Cat Handbook ION 60 feet 1,246.9 LCY/hr	_		
Swell factor: 1.33 Loose volume: 3,10 Source of estimated volu Source of estimated swel factor: (OURLY PRODUCT) Average push distance: Unadjusted hourly production:	3 LCY me: Division of Reclamation ll Cat Handbook ION 	_		
Swell factor: 1.33 Loose volume: 3,10 Source of estimated volu Source of estimated swel factor: COURLY PRODUCT Average push distance: Unadjusted hourly production: Materials consistency dest	3 LCY me: Division of Reclamation Cat Handbook ION 60 feet 1,246.9 LCY/hr	_		
Swell factor: 1.33 Loose volume: 3,10 Source of estimated volu Source of estimated swel factor: (OURLY PRODUCT) Average push distance: Unadjusted hourly production:	<b>3</b> LCY         me:       Division of Reclamation         Il       Cat Handbook         ION	_		
Swell factor:       1.33(         Loose volume:       3,10(         Source of estimated volu       Source of estimated swel         Source of estimated swel       factor:         COURLY PRODUCTION       Average push distance:         Unadjusted hourly       production:         Materials consistency dest       Average push	<b>3</b> LCY         me:       Division of Reclamation         Il       Cat Handbook         ION	_		
Swell factor: 1.33 Loose volume: 3,10 Source of estimated volu Source of estimated swel factor: <b>COURLY PRODUCT</b> Average push distance: Unadjusted hourly production: Materials consistency des Average push gradient: Average site altitude:	<b>3</b> LCY         ime:       Division of Reclamation         II       Cat Handbook         ION	_		
Swell factor: 1.33 Loose volume: 3,10 Source of estimated volu Source of estimated swel factor: OURLY PRODUCT Average push distance: Unadjusted hourly production: Materials consistency des Average push gradient:	<b>3</b> LCY         ime:       Division of Reclamation         II       Cat Handbook         ION	_		
Swell factor:       1.33         Loose volume:       3,10         Source of estimated volu       Source of estimated swel         Source of estimated swel       factor:         COURLY PRODUCT       Average push distance:         Unadjusted hourly       production:         Materials consistency des       Average push         gradient:       Average site altitude:         Material weight:       Material weight:	<b>3</b> LCY         ime:       Division of Reclamation         II       Cat Handbook         ION			
Swell factor:       1.33         Loose volume:       3,10         Source of estimated volu         Source of estimated swel         Source of estimated swel         Gource of estimated swel         Gource of estimated swel         Materials consistency des         Average push         Materials consistency des         Average push         gradient:         Average site altitude:	<b>3</b> LCY         ime:       Division of Reclamation         II       Cat Handbook         ION			

Operator Skill:	0.750	(AVG.)
Material consistency:	0.900	(CAT HB))
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.700	(FND-MF)
Push gradient:	1.329	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4133

Adjusted unit production:	515.34 LCY/hr
Adjusted fleet production:	<b>515.34</b> LCY/hr

Fleet size:	1 Dozer(s)
Unit cost:	\$0.855/LCY

Total job time:	6.02 Hours
Total job cost:	\$2,654

### **DEMOLITION WORK**

Tas	sk description:	Dispose of debris			
Site: D	el Norte NKSN Pit	Permit Action:	SI-01	Permit/Jo	b#: <u>M2012007</u>
PROJECT	<u> IDENTIFICATIO</u>	<u>N</u>			
Task #:	002	State: Colorado		Abbreviation: N	None
Date:	9/7/2023	County: Rio Grande		Filename: M	4007-002
User:	TJ1				
	Agency or organiza	tion name: DRMS			

## UNIT COSTS

### Location adjustment: 99.50 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Misc debris	20 cy	Excavate disposal pit with dozer (includes completed pit backfilling/grading)	20.00	CY	\$2.04	\$40.89
Bury debris in pit	20 cy	Push demolished materials/rubble/debris into pit - Max. 100 ft. push	20.00	CY	\$1.18	\$23.66
Demolish shed	8ft x 12 ft	Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 50 ft. push	96.00	CF	\$0.20	\$19.55

				Total Cost	
		Subtotal		(adjusted for	
Job Hours:	1.00	(unadjusted):	\$84.10	location):	\$83.68

# BULLDOZER RIPPING WORK

		s and pit floor				-
Site: Del Norte NKSN Pit	Permit Acti	on: <u>SI-01</u>		Permit/Job	#: <u>M201200</u>	7
PROJECT IDENTIF	ICATION					
Task #:003	State: Colora			eviation:	None	
Date: <u>9/7/2023</u> User: TJ1	County: Rio Gr	ande	F	ilename:	M007-003	
	mization name: DRMS					
HOURLY EQUIPME						
					10	
Basic Machin Ripper Attachmer			Horsepower: Shift Basis:		er day	
rapper r naterinier			Data Source:		RG)	
Cost Breakdown:						
0		<b>\$2.11.20</b>	Utilization %			
	ership Cost/Hour: rating Cost/Hour:	¢1.12.02	<u>NA</u> 100			
	rating Cost/Hour: ership Cost/Hour:	¢1411	NA			
Ripper Oper	rating Cost/Hour:	\$7.45	100			
-	erator Cost/Hour:	\$41.30	NA			
Tota	l Unit Cost/Hour:	\$448.16				
Total	Fleet Cost/Hour: \$	6448.16				
MATERIAL QUANT	TITIES S	elected estimating	g method: Area	l		_
Alternate Methods:						
eismic: NA	Bank Volun	ne: NA	BCY		NA	
Area: 4.00 a	acres Rip Depth (f	ft): 1.00	Volume:	6,453		BCY or CCY
Source	e of estimated quantity: New	w 110 plan and m	aps			
		w 110 plan and m	aps			
HOURLY PRODUCT		w 110 plan and m	aps			
	<u>FION</u>	•	•	ond		
HOURLY PRODUC		w 110 plan and m NA	apsfeet/sec	ond		
HOURLY PRODUCT	FION Seismic Velocity:	NA	feet/sec			
HOURLY PRODUC	<u>FION</u>	•	•	S		
HOURLY PRODUC <sup>7</sup> Seismic: <u>Area:</u>	FION         Seismic Velocity:         Average Ripping Depth:         Average Ripping Width:         Average Ripping Length:	NA 2.56 7.08 300.00	feet/sec feet/pas feet/pas feet/pas feet/pas	S S S		
HOURLY PRODUCT	FION         Seismic Velocity:         Average Ripping Depth:         Average Ripping Width:         Average Ripping Length:         Average Dozer Speed:	NA 2.56 7.08 300.00 88.00	feet/sec feet/pas feet/pas feet/pas feet/pas feet/min	s s sute		
HOURLY PRODUCT	FION         Seismic Velocity:         Average Ripping Depth:         Average Ripping Width:         Average Ripping Length:         Average Dozer Speed:         Average Maneuver Time:	NA 2.56 7.08 300.00 88.00 0.25	feet/sec feet/pas feet/pas feet/pas feet/min feet/min minutes	s s s nute s/pass		
HOURLY PRODUCT	FION         Seismic Velocity:         Average Ripping Depth:         Average Ripping Width:         Average Ripping Length:         Average Dozer Speed:         Average Maneuver Time:         Production per unit area:	NA 2.56 7.08 300.00 88.00	feet/sec feet/pas feet/pas feet/pas feet/pas feet/min	s s s nute s/pass		
HOURLY PRODUCT	FION         Seismic Velocity:         Average Ripping Depth:         Average Ripping Width:         Average Ripping Length:         Average Dozer Speed:         Average Maneuver Time:         Production per unit area:	NA 2.56 7.08 300.00 88.00 0.25 0.800	feet/sec feet/pas feet/pas feet/pas feet/min feet/min minutes	s s s nute s/pass		
HOURLY PRODUCT	FION         Seismic Velocity:         Average Ripping Depth:         Average Ripping Width:         Average Ripping Length:         Average Dozer Speed:         Average Maneuver Time:         Production per unit area:	NA 2.56 7.08 300.00 88.00 0.25	feet/sec feet/pas feet/pas feet/pas feet/min feet/min minutes	s s nute s/pass our		
HOURLY PRODUCT	FION         Seismic Velocity:         Average Ripping Depth:         Average Ripping Width:         Average Ripping Length:         Average Dozer Speed:         Average Maneuver Time:         Production per unit area:	NA 2.56 7.08 300.00 88.00 0.25 0.800 0.800 7,850	feet/sec feet/pas feet/pas feet/pas feet/pas feet/min minutes acres/he	s s nute s/pass our		
HOURLY PRODUCT	<b>FION</b> Seismic Velocity:         Average Ripping Depth:         Average Ripping Width:         Average Ripping Length:         Average Dozer Speed:         Average Maneuver Time:         Production per unit area:         I Hourly Unit Production:         Site Altitude:         Altitude Adj:	NA 2.56 7.08 300.00 88.00 0.25 0.800 0.800 7,850 1.00	feet/sec feet/pas feet/pas feet/pas feet/pas feet/pas feet/min minutes acres/ho Acres/h feet (CAT H	s s nute s/pass our r IB)		
HOURLY PRODUCT	FION         Seismic Velocity:         Average Ripping Depth:         Average Ripping Width:         Average Ripping Length:         Average Dozer Speed:         Average Maneuver Time:         Production per unit area:         Factors         I Hourly Unit Production:         Site Altitude:         Altitude Adj:         Job Efficiency:	NA 2.56 7.08 300.00 88.00 0.25 0.800 0.800 7,850 1.00 0.83	feet/sec feet/pas feet feet feet feet feet feet feet fee	s s nute s/pass our r IB) (day)		
HOURLY PRODUCT Seismic: Area: Job Condition Correction Unadjusted	FION         Seismic Velocity:         Average Ripping Depth:         Average Ripping Width:         Average Ripping Length:         Average Dozer Speed:         Average Maneuver Time:         Production per unit area:         A Factors         Hourly Unit Production:         Site Altitude:         Altitude Adj:         Job Efficiency:         Net Correction:	NA 2.56 7.08 300.00 88.00 0.25 0.800 0.800 7,850 1.00 0.83 0.83	feet/sec feet/pas feet/pas feet/pas feet/pas feet/pas feet/min minutes acres/he Acres/h feet (CAT F (1 shift multipli	s s nute s/pass our r IB) (day)		
HOURLY PRODUCT Seismic: Area: Job Condition Correction Unadjusted	FION         Seismic Velocity:         Average Ripping Depth:         Average Ripping Width:         Average Ripping Length:         Average Ripping Length:         Average Maneuver Time:         Production per unit area:         1 Hourly Unit Production:         Site Altitude:         Altitude Adj:         Job Efficiency:         Net Correction:	NA 2.56 7.08 300.00 88.00 0.25 0.800 0.800 7,850 1.00 0.83 0.83 0.83 0.83	feet/sec feet/pas feet/pas feet/pas feet/pas feet/pas feet/pas feet/min minutes acres/he Acres/h feet (CAT H (1 shift/ multipli Acres/hr	s s nute s/pass our r IB) (day)		
HOURLY PRODUCT Seismic: Area: Job Condition Correction Unadjusted	FION         Seismic Velocity:         Average Ripping Depth:         Average Ripping Width:         Average Ripping Length:         Average Ripping Length:         Average Naneuver Time:         Production per unit area:         A Factors         Hourly Unit Production:         Site Altitude:         Altitude Adj:         Job Efficiency:         Net Correction:	NA 2.56 7.08 300.00 88.00 0.25 0.800 0.800 7,850 1.00 0.83 0.83 0.83 0.83	feet/sec feet/pas feet/pas feet/pas feet/pas feet/pas feet/min minutes acres/he Acres/h feet (CAT F (1 shift multipli	s s nute s/pass our r IB) (day)		
HOURLY PRODUCT Seismic: Area: Job Condition Correction Unadjusted	FION         Seismic Velocity:         Average Ripping Depth:         Average Ripping Width:         Average Ripping Length:         Average Ripping Length:         Average Maneuver Time:         Production per unit area:         1 Hourly Unit Production:         Site Altitude:         Altitude Adj:         Job Efficiency:         Net Correction:         Adjusted Hourly Unit Production	NA 2.56 7.08 300.00 88.00 0.25 0.800 0.800 7,850 1.00 0.83 0.83 0.83 0.83 0.66	feet/sec feet/pas feet/pas feet/pas feet/pas feet/pas feet/pas feet/min minutes acres/ho feet (CAT F (1 shift multipli Acres/hr Acres/hr	s s s nute s/pass our r (IB) (day) fer		
HOURLY PRODUCT Seismic: Area: Job Condition Correction Unadjusted A A	FION         Seismic Velocity:         Average Ripping Depth:         Average Ripping Width:         Average Ripping Length:         Average Ripping Length:         Average Naneuver Time:         Production per unit area:         A Factors         Hourly Unit Production:         Site Altitude:         Altitude Adj:         Job Efficiency:         Net Correction:	NA 2.56 7.08 300.00 88.00 0.25 0.800 0.800 7,850 1.00 0.83 0.83 0.83 0.83	feet/sec feet/pas feet/pas feet/pas feet/pas feet/pas feet/pas feet/min minutes acres/ho feet (CAT F (1 shift multipli Acres/hr Acres/hr	s s nute s/pass our r IB) (day)	Hours	

CIRCES Cost Estimating Software

### WHEEL LOADER - LOAD AND CARRY WORK

Task description:	Carry topsoil from stockp	ile		
e: Del Norte NKSN Pit	Permit Action	n: <u>SI-01</u>	Permit/Jo	ob#: <u>M2012007</u>
PROJECT IDENTIFIC	ATION			
Task #: 004	State: Colorado	C	Abbreviation:	None
Date: 9/7/2023	County: Rio Gran		Filename:	M007-004
User: TJ1				
Agency or organiz	zation name: DRMS			
HOURLY EQUIPMEN	<u>T COST</u>			
Basic Machine: 0	CAT 938H	Hors	epower:	172
	ROPS Cab			per day
				CRG)
Cost Breakdown:				
	¢ 12 00	Utilization %		
Ownership Cost/Ho		<u>NA</u>		
Operating Cost/Ho Operator Cost/Ho		100 NA		
Total Unit Cost/Ho		NA		
Total Fleet Cost/H	our: \$119.47	-		
MATERIAL QUANTIT	TIES			
		Same 11 for a to at	1 015	
Initial volume: <u>3,2</u> Loose volume:	<b>3,920</b> LCY	Swell factor:	1.215	
		n of Reclamation, Minin	ng & Safety	
Source of estin	nated swell factor: Cat Har	ndbook		
HOURLY PRODUCTI	ON			
Loader Cycle Time:	Unadjusted Basic	c Cycle Time (load, dun	÷ 0.483	minutes
Cycle Time Factors		maneuve	Factor (min.)	Source
Material		ot applicable 0.00	0.000	(Cat HB)
Stockpile			0.000	(Cat HB)
Truck Ownership:			0.000	(Cat HB)
Operation	: Constant operation -0.04	**	-0.040	(Cat HB)
Dump Target			0.000	(Cat HB)
		cle Time Adjustment:	-0.040	minutes
	Adjus	ted Basic Cycle Time:	0.443	minutes
Rolling Resistance – Road (	Conditions			
•				
Haul:	Rutted dirt, little maintenan			
Return:	Rutted dirt, little maintenan	ice, no water, 2" tire per	netration 5.0	
Haul and Return Time				

	Length (feet)	Grade Res. (%)	Rolling Res. (%)	Total Res. (%)	Travel Time (minutes)	Source
Haul Route:	700	0.00	5.00	5.00	0.6414	(Cat HB)

Loader Worksheet Cont'd		Task	# 004			Page 2 of 2
Return Route:	700	0.00	5.00	5.00	0.5752	(Cat HB)
			Total Trave Total Cycle		1.2166 <b>1.6591</b>	minutes
Load Bucket Capacity						
Rated Capacity: Bucket Fill Factor: Adjusted Capacity: Job Condition Correction F Site Altitude: <u>7850</u> feet	1.100 <b>4.29</b>	LCY (he Other - 1 LCY	eaped) rock/dirt mixture	es (100	-120%) 1.100	
		Source	2			
Altitude Adj:	1.00	(CAT H	B)			
Job Efficiency:	0.83	(1 shift/d	ay)			
Net Correction:	0.83	multiplie	r			
Adj	usted Hourly U usted Hourly U usted Hourly Flo	nit Production:	128.77	LC	Y/Hour Y/Hour Y/Hour	
JOB TIME AND COST	[					
Fleet size: 1	Loade	r(s)	Total job time	:	30.44	Hours
Unit cost: \$0.92	28 /LCY		Total job cost	:	\$3,637	

Page 1 of 2

# BULLDOZER WORK

Task description:	Spread topsoil on slopes			
te: Del Norte NKSN Pit	Permit Action:	SI-01	Permit/Jo	b#: <u>M2012007</u>
PROJECT IDENTIFI	CATION			
Task #: 005	State: Colorado		Abbreviation:	None
Date: 9/7/2023	County: Rio Grande		Filename:	M007-005
User: TJ1				
Agency or organ	nization name: DRMS			
HOURLY EQUIPME	NT COST			
Basic Machine: Ca	t D8T - 8SU			
Horsepower: 310	0			
Blade Type: Ser	mi-Universal			
Attachment: 3-s	shank ripper			
	ber day			
Data Source: (C	RG)			
Cost Breakdown:		TT.'1' .' 0/		
	¢0.41.29	<u>Utilization %</u>		
Ownership Cost/Hour:	\$241.38	NA 100		
Operating Cost/Hour: Ripper own.	\$143.92	100		
Cost/Hour:	\$14.11	NA		
Ripper op. Cost/Hour:	\$0.00	0		
Operator Cost/Hour:	\$41.30	NA		
Total Fleet Cost/Hour:	\$440.71			
MATERIAL QUANT: Initial Volume: 980				
Swell factor:1.00Loose volume:980	00 LCY			
Source of estimated volu Source of estimated swe factor:		n, Mining & Safety		
HOURLY PRODUCT	<u>'ION</u>			
Average push distance:	60 feet			
Unadjusted hourly production:	1,246.9 LCY/hr			
Materials consistency de	escription: Loose stockpile 1.2			
Average push gradient:	-15 %			
Average site altitude:	7,850 feet			
Material weight:	1,600 lbs/LCY			
Weight description:	Top Soil			
weight description.	100 5011			

Operator Skill:	0.750	(AVG.)
Material consistency:	1.200	(CAT HB)
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.700	(FND-MF)
Push gradient:	1.329	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.9993

Adjusted unit production:	1,246.03 LCY/hr
Adjusted fleet production:	1246.03 LCY/hr

Fleet size:	1 Dozer(s)
Unit cost:	\$0.354/LCY

Total job time:	<b>0.79</b> Hours
Total job cost:	\$347

Page 1 of 2

# BULLDOZER WORK

Task description:	Spread topsoil on pit f	loor		
e: Del Norte NKSN Pit	Permit A	ction: <u>SI-01</u>	Permit/Jo	b#: <u>M2012007</u>
PROJECT IDENTIF	ICATION			
Task #:     006       Date:     9/7/2023       User:     TJ1		orado Grande	Abbreviation: Filename:	None M007-006
Agency or orga	nization name: DRMS			
HOURLY EQUIPME	ENT COST			
Basic Machine: Ca Horsepower: 31	at D8T - 8SU 0			
• 1	emi-Universal			
Shift Basis: 1	shank ripper per day			
Data Source: <u>(C</u> <u>Cost Breakdown</u> :	CRG)			
	<b>\$</b> ~ <b>4</b>	Utilizati		
Ownership Cost/Hour: Operating Cost/Hour:	\$24 \$14			
Ripper own.	\$1	4.11 NA		
Cost/Hour: Ripper op. Cost/Hour:	· · · · · · · · · · · · · · · · · · ·	7.45 100		
Operator Cost/Hour:		1.30 NA		
MATERIAL QUANT Initial Volume: 2,94 Swell factor: 1.00 Loose volume: 2,94	40			
Source of estimated vol Source of estimated swo factor:	ume: Division of Rec	elamation, Mining & S	Safety	
HOURLY PRODUCT	<u>FION</u>			
Average push distance: Unadjusted hourly production:	90 feet 918.4 LCY/hr			
Materials consistency d	escription: <u>Loose stockp</u>	ile 1.2		
Average push gradient:	0 %			
Average site altitude:	7,850 feet			
N	1,600 lbs/LCY			
Material weight:	/			
Material weight: Weight description:	Top Soil			

Task # 006

Operator Skill:	0.750	(AVG.)
Material consistency:	1.200	(CAT HB)
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.700	(FND-MF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.7519

Adjusted unit production:	690.54 LCY/hr
Adjusted fleet production:	<b>690.54</b> LCY/hr

Fleet size:	1 Dozer(s)
Unit cost:	\$0.649/LCY

Total job time:	<b>4.26</b> Hours	
Total job cost:	\$1,908	

# **REVEGETATION WORK**

Task descri	ption:	Revegetation of disturbed ar	eas		
te: Del Nort	te NKSN Pit	Permit Action:	SI-01	Permit/Jol	o#: <u>M2012007</u>
<b>PROJECT</b>	IDENTIFIC	CATION			
Task #: Date:	007	State: <u>Colorado</u> County: Rio Grande		Abbreviation: Filename:	None M007-007
Date.	9/1/2025	County: Rio Grande	;	Filename.	W1007-007

#### **FERTILIZING**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Materials	<b>*</b> 0.00
			Cost/Acre	\$0.00

### Application

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

# **TILLING**

Description	Cost /Acre
Weed control spraying (MEANS 31 31 16.13 3100)	\$338.80
Total Tilling Cost/Acre	\$338.80

#### **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Nespar	0.90	2.91	\$7.99
Crested Wheatgrass - Ephraim	1.50	6.89	\$6.49
Russian Wildrye - Bozoisky	0.50	2.01	\$3.24
Western Wheatgrass - Arriba	2.00	5.05	\$13.00
Totals Seed Mix	4.90	16.86	\$30.72

#### Application

Drill Seeding (DRMS Survey Cost)	\$232.00
Total Seed Application Cost/Acre	<b>****</b>
Total Seeu Application CostActe	\$232.00

### Total Seed Application Cost/Acre

# **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 Stoo	ck Cost / Acre	\$0.00

Estimat	No. of Acres: ed Failure Rate:			Cost /Acre: Cost /Acre*:	
*Selected Replanti	ng Work Items:	TILLING,SEEI	DING		
Initial Job Cost:	\$6,015.20				
Reseeding Job Cost:	\$1,503.80				
Total Job Cost:	\$7,519				
Job Hours:	10.00				

# EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description:	Ha	ul reclamation eq	uipment to and	l from site	•		
e: Del Norte NK	SN Pit	Permit	Action: <u>SI-01</u>			Permit/Job#: <u>N</u>	12012007
PROJECT IDE	NTIFICAT	<u>ION</u>					
Task #: 008	8	State: Co	olorado		Abbre	eviation: None	;
Date: 9/7	/2023	County: Rie	o Grande		Fi	ilename: M007	7-008
User: TJ1	1						
Agency	or organizatio	n name: DRMS					
EQUIPMENT 7	<b>FRANSPOR</b>	<u>AT RIG COST</u>					
					Shift ba		
				(	Cost Data Sou	rce: CRG Da	ita
Trucl	k Tractor Dese	cription: GENE	RIC ON-HIGH		JCK TRACTO (2ND HALF,	OR, 6X4, DIESE	L POWERED,
True	k Trailer Deso	cription: G	ENERIC FOLD			ROP DECK EQU	IPMENT
IIuc	k Huner Des	diption. Of			(25T, 50T, Al		
					(201,001,11	(2 1001)	
Cost Breakdown:							
Available Rig C	apacities	0-25 Tons	26-50 Tons	51+	- Tons		
Ownership	Cost/Hour:	\$20.26	\$36.04	\$4	17.05		
Operating	g Cost/Hour:	\$39.51	\$76.08	\$8	32.85		
Operator	r Cost/Hour:	\$22.52	\$22.52	\$2	22.52		
Helper	r Cost/Hour:	\$0.00	\$23.53	\$2	23.53		
Total Uni	t Cost/Hour:	\$82.29	\$158.17	\$1	75.95		
NON ROADAB	LE EQUIP	MENT:					
Machine	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return Trip	DOT Permit
Description	Unit	Cost/hr/ unit	Cost/hr/uni	Size	Cost/hr/	Cost/hr/ fleet	Cost/ fleet
T	(TONS)		t		fleet		
Cat D8T - 8SU	47.71	\$241.38	\$158.17	1	\$399.55	\$158.17	\$250.00
CAT 938H	16.34	\$43.90	\$82.29	1	\$126.19	\$82.29	\$250.00
Drill/Broadcast Seeder with	25.00	\$6.73	\$82.29	1	\$89.02	\$82.29	\$250.00
Tractor							

Subtotals: \$614.76 \$322.75 \$750.00

# **ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
		Subtotals:	\$0.00	\$0.00

# **EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region:	MONTE VISTA	
Total one-way travel distance:	18.00	miles
Average Travel Speed:	50.00	mph
Total Non-Roadable Mob/Demob Cost *	\$3,404.53	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$0.00	

Transportation Cycle Time:

	Non- Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.36	0.36
Return Time (Hours):	0.36	0.36
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.72	0.72

#### JOB TIME AND COST

Total job time: **3.44** Hours

Total job cost: \_\_\_\_\_\$3,405

# EQUIPMENT MOBILIZATION/DEMOBILIZATION

<u>O'Rourke Pit</u>							
PROJECT IDEN		Permit	Action: SI-01			Permit/Job#: <u>N</u>	12012007
	<u>NTIFICATI</u>	<u>ON</u>					
Task #:009Date: $9/7/$ User:TJ1	/2023		olorado O Grande			eviation: <u>None</u> ilename: <u>M00</u>	e 7-009
Agency of EQUIPMENT T	or organization						
	Tractor Descr		RIC ON-HIGH	WAY TRU	Shift ba Cost Data Sou JCK TRACTO (2ND HALF,	rce: $CRG D$ OR, 6X4, DIESE	ata
	k Trailer Desci	ription: Gl			SENECK, DF (25T, 50T, A)	ROP DECK EQU ND 100T)	JIPMENT
ost Breakdown:							
	apacities	0-25 Tons	26-50 Tons	51-	- Tons		
Available Rig Ca	apacities Cost/Hour:	<b>0-25 Tons</b> \$20.26	<b>26-50 Tons</b> \$36.04		+ <b>Tons</b> 47.05		
Available Rig Ca Ownership				\$4			
Available Rig Ca Ownership Operating Operator	Cost/Hour: Cost/Hour: Cost/Hour:	\$20.26	\$36.04	\$2 \$8 \$2	47.05 82.85 22.52		
Ownership Operating Operator	Cost/Hour: Cost/Hour:	\$20.26 \$39.51	\$36.04 \$76.08	\$2 \$8 \$2	47.05 82.85		
Available Rig Ca Ownership Operating Operator Helper	Cost/Hour: Cost/Hour: Cost/Hour:	\$20.26 \$39.51 \$22.52	\$36.04 \$76.08 \$22.52	\$4 \$8 \$2 \$2 \$2	47.05 82.85 22.52		
Available Rig Ca Ownership Operating Operator Helper	Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	\$20.26 \$39.51 \$22.52 \$0.00 \$82.29	\$36.04 \$76.08 \$22.52 \$23.53	\$4 \$8 \$2 \$2 \$2	47.05 82.85 22.52 23.53		
Available Rig Ca Ownership Operating Operator Helper Total Unit	Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPM	\$20.26 \$39.51 \$22.52 \$0.00 \$82.29 <b>IENT:</b>	\$36.04 \$76.08 \$22.52 \$23.53 \$158.17	\$4 \$8 \$2 \$2 \$2	47.05 32.85 22.52 23.53 75.95	Return Trip	DOT Permit
Available Rig Ca Ownership Operating Operator Helper Total Unit	Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	\$20.26 \$39.51 \$22.52 \$0.00 \$82.29	\$36.04 \$76.08 \$22.52 \$23.53	\$4 \$8 \$2 \$2 \$1 \$1	47.05 82.85 22.52 23.53	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
Available Rig Ca Ownership Operating Operator Helper Total Unit NON ROADAB	Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: <b>LE EQUIPM</b> Weight/	\$20.26 \$39.51 \$22.52 \$0.00 \$82.29 <b>IENT:</b> Owner ship	\$36.04 \$76.08 \$22.52 \$23.53 \$158.17 Haul Rig	\$4 \$8 \$2 \$2 \$1 \$1 Fleet	47.05 82.85 22.52 23.53 75.95 Haul Trip		
Available Rig Ca Ownership Operating Operator Helper Total Unit NON ROADAB	Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPM Weight/ Unit	\$20.26 \$39.51 \$22.52 \$0.00 \$82.29 <b>IENT:</b> Owner ship	\$36.04 \$76.08 \$22.52 \$23.53 \$158.17 Haul Rig Cost/hr/uni	\$4 \$8 \$2 \$2 \$1 \$1 Fleet	47.05 82.85 22.52 23.53 75.95 Haul Trip Cost/hr/		

# **ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
		Subtotals:	\$0.00	\$0.00

# **EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region: Total one-way travel distance: Average Travel Speed:	MONTE VISTA 18.00 50.00	miles mph
Total Non-Roadable Mob/Demob Cost *	\$801.38	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$0.00	

Transportation Cycle Time:

	Non- Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.36	0.36
Return Time (Hours):	0.36	0.36
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.72	0.72

#### JOB TIME AND COST

Total job time: 3.44 Hours