# **COST SUMMARY WORK**

te: Yoast Mine		Permit A	ction: MT6	Permit/Job#: C1994082		
ROJECT	IDENTIFICAT	<u> ION</u>				
Task #:	000	State: Cole	orado	Abbreviation:	None	
Date:	12/19/2022	County: Rou	tt	Filename:	C082-000	
User:	RAR	<del>-</del>				

# **TASK LIST (DIRECT COSTS)**

Table		Form	Fleet	Task	
Task	Description	Used	Size	Hours	Cost
001	Herbicide Plateau Remains	REVEGE	1	100.00	\$22,179
031	Regrade Pond 011	DOZER	1	30.20	\$10,518
032	Regrade Pond 012	DOZER	1	96.23	\$33,511
035	Reconstruct Drainage Channels	POSTMININ G	1	92.44	\$31,488
037	Regrade Pond 12A	DOZER	1	44.72	\$15,573
046	Replace Topsoil from Stockpile L to Unreleased Pond 12 Area	SCRAPER1	2	73.72	\$198,482
065	Drill Seed Mix 1	REVEGE	1	173.90	\$5,546
066	Drill Seed mix 2	REVEGE	1	19.00	\$13,454
068	Broadcast Seed Mix 1	REVEGE	1	13.00	\$18,217
070	Shrub/Tree Planting - List 1 - Areas NOT Released	REVEGE	1	20.00	\$59,876
074	Drill Seed Mix 1 - Reseed Phase II Areas-100% of 19.85 Acre	REVEGE	1	252.30	\$9,588
085	Mobilize/Demobilize Equipment for Initial Reclamation	MOBILIZE	1	3.33	\$12,695
086	Mobilize/Demobilize Equipment for Pond Removal	MOBILIZE	1	3.33	\$2,946
087	Mobilize/Demobilize Equipment for Site Maintenance	MOBILIZE	1	11.33	\$58,933
		933.5	\$493,006		

## **INDIRECT COSTS**

## OVERHEAD AND PROFIT:

 Liability insurance:
 2.02 Total = \$9,959 

 Performance bond:
 1.05 Total = \$5,177 

 Job superintendent:
 407.75 Total = \$30,634 

 Profit:
 10.00 Total = \$49,301 

 TOTAL O & P = \$95,070

CONTRACT AMOUNT (direct + O & P) =  $\frac{$558,076}{$588,076}$ 

## LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs):	\$500	Total =	\$500
Engineering work and/or contract/bid preparation:	6.59	Total =	\$38,754
Reclamation management and/or administration:	4.89		\$28,757
CONTINGENCY:	0.00	Total =	\$0

TOTAL INDIRECT COST = \$163,081

TOTAL BOND AMOUNT (direct + indirect) = \_\_\$656,087

# **REVEGETATION WORK**

Task description:	Herbicide Platea	u Remains				
e: Yoast Mine	Permit Action: MT6			Permit/Job#: C1994082		
PROJECT IDENTIFIC           Task #:         001           Date:         1/26/2023           User:         RAR	State: County:	Colorado Routt		Ab		None C1994082
Agency or organ  FERTILIZING	ization name: DR	RMS				
Materials						
Description		Units / Acre	Unit	Cos	st / Unit	Cost /Acre
				\$		\$
				Tot	tal Fertilizer Materials Cost/Acre	\$0.00
		Total	Fertilizer	Applicatio	on Cost/Acre	\$ \$0.00
<u> </u>				Tr ·····		30.00
Description						Cost /Acre
						\$
			7	Fotal Tillin	g Cost/Acre	\$0.00
<u>SEEDING</u>						
Seed Mix				Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
						\$
		Totals S	eed Mix	0.00	0.00	\$0.00
Application						
Description						Cost /Acre
						¢

Total Seed Application Cost/Acre	\$0.00

## **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - Plateau @ 1.0 pt/ac	1.00	ACRE	\$11.21	\$11.21
Total Mulch Materials Cost/Acre				\$11.21

**Application** 

Description		Cost /Acre
Weed spray, truck, non-aquatic area, nox. [DMG]		\$62.72
	<b>Total Mulch Application Cost/Acre</b>	\$62.72

## **NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
	\$0.00				

## **JOB TIME AND COST**

No. of Acres: 300 Cost /Acre: \$73.93 Estimated Failure Rate: 20% Cost /Acre\*: \$0.00 \*Selected Replanting Work Items: NONE

Initial Job Cost: \$22,179.00

Reseeding Job Cost: \$0.00

Total Job Cost: Job Hours: 100.00

# **BULLDOZER WORK**

Yoast Mine	Yoast Mine Permit Action		MT6	Permit/Job#:C19940	
PROJECT IDENTII	FICATION				
Task #: 031	State:	Colorado		Abbreviation:	None
Date: 12/16/20	County:	Routt		Filename:	1994082
User: RAR					
Agency or org	anization name: DI	RMS			
HOURLY EQUIPM	ENT COST				
Basic Machine: C	Cat D9T - 9SU				
	05				
	emi-Universal				
	-shank ripper				
	per day				
Data Source: (0	CRG)				
Cost Breakdown:					
0 11 0 7		<b>#1463</b> 0	<u>Utilization %</u>		
Ownership Cost/Hour		\$146.30 \$141.41	NA 100		
Operating Cost/Hour Ripper own			100		
Cost/Hour		\$17.01	NA		
Ripper op. Cost/Hour		\$2.21	25		
Operator Cost/Hour		\$41.30	NA	<del></del>	
Total unit Cost/Hour:	\$348.23	1			
Total Fleet Cost/Hour:			<u> </u>		
Total Fleet Cost/Hour.	φ340.23		<u> </u>		
MATERIAL QUAN	TITIES				
	389	<u>—</u>			
	165	_			
	773 LCY				

## **HOURLY PRODUCTION**

Average push distance: 150 feet

Unadjusted hourly

production:

910.5 LCY/hr

Materials consistency

description:

Compacted fill or embankment 0.9

0 % Average push

gradient:

Average site altitude:

7,000 feet

Material weight:

2,900 lbs/LCY

Weight description:

Decomposed rock - 50% Rock, 50% Earth

Job Condition Correction Factor

ition Correction Factor		Source
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:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)

1.000

(PAT)

0.3554 Net correction:

Blade type:

Adjusted unit production:

323.59 LCY/hr

Adjusted fleet production:

323.59 LCY/hr

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

Fleet size: 1 Dozer(s)

Unit cost: \$1.076/LCY

Total job time: **30.20** Hours Total job cost: \$10,518

# **BULLDOZER WORK**

Task descript  : Yoast Min				MT6	Permit/Jo	b#: C1994082
					<del></del>	<del></del>
PROJECT I	<u>DENTIFI</u>	CATION				
Task #:	032	State:	Colorado		Abbreviation:	None
Date:	12/16/2022	2 County:	Routt		Filename:	1994082
User:	RAR					
Agei	ncy or organ	nization name: DF	RMS			
<b>HOURLY E</b>	QUIPME	NT COST				
Basic Mac	hine: Cat	t D9T - 9SU				
Horsepo				-		
Blade 7		ni-Universal		<del>-</del>		
Attachr		hank ripper		-		
Shift E		er day		-		
Data So	urce: (CF	RG)		-		
Cost Breakdov	wn:					
				<u>Utilization %</u>		
Ownership (			\$146.30	NA		
Operating (			\$141.41	100		
	ipper own. Cost/Hour:		\$17.01	NA		
Ripper op.			\$2.21	25		
Operator (		-	\$41.30	NA		
			<b>\$.1.0</b> 0	11/1		
Total unit Co		\$348.23				
Total Fleet C	Cost/Hour:	\$348.23				
***	OH AND	илина				
<u>MATERIAI</u>	L QUANT	ITIES				
Initial Volu	me: 26,7	29				
Swell fac			_			
Loose volu	me: <b>31,1</b>	<b>39</b> LCY	<u> </u>			
Source of es	timated volu	ume: Division	of Reclamatio	on, Mining & Safety		
Source of es				on, mining at surety		
factor:						

#### **HOURLY PRODUCTION**

Average push distance: 150 feet

Unadjusted hourly

production:

910.5 LCY/hr

Materials consistency

description:

Compacted fill or embankment 0.9

Average push

gradient:

0 %

Average site altitude:

7,250 feet

Material weight:

2,900 lbs/LCY

Weight description:

Decomposed rock - 50% Rock, 50% Earth

0.750

0.900

Job Condition Correction Factor Operator Skill:

Material consistency: Dozing method:

Visibility:

Spoil pile:

Altitude:

Job efficiency:

Push gradient:

Material Weight:

1.000 1.000 0.830 0.800

1.000

1.000 0.7931.000 (CAT HB) (CAT HB)

(CAT HB) (PAT)

Source

(AVG.)

(CAT HB))

(GEN.)

(AVG.)

(1 SHIFT/DAY)

(FND-RF)

Blade type: Net correction:

0.3554

Adjusted unit production: Adjusted fleet

production:

323.59 LCY/hr

323.59 LCY/hr

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

Fleet size: 1 Dozer(s)

Unit cost:

\$1.076/LCY

Total job time:

**96.23** Hours

Total job cost:

\$33,511

# Post-Mining Drainage Channel Construction (Ditches)

Task description:		Task description: Reconstruct Drainage Channels							
Site:	Site: Yoast Mine			Permit Action:	MT6		Permit/Job#: C1994082		
<u>P</u>	ROJECT 1	<u>IDENTIFIC</u>	ATION						
	Task #:	035	State	e: Colorado			Abbreviation:	None	
	Date:	2/1/2023	County	y: Routt			Filename:	MT6	-
	User:	RAR							_
	Age	ncy or organiz	ation name: _	DRMS					
	Channel			Width	Side	Width	Excavated	Excavated	
		Length	Depth	(bottom)	Slopes	(top)	Vol./LF	Vol.	
		(ft)	(ft)	(ft)	(XH:1V)	(ft)	(CY)	(total)	
								(CY)	
	YPM-4	150	0.50	1.00	3.00	4.00	0.0463	7	
	TPM-5-1	0	0.00	0.00	0.00	0.00	0.0000	0	
	YPM 6-2	1,440	0.80	5.00	3.00	9.80	0.2193	316	
	YPM 6-3	750	0.90	5.00	3.00	10.40	0.2567	193	
	YPM 7	1,540	0.80	2.00	3.00	6.80	0.1304	201	

3.00

0.00

9.80

0.00

0.2841

0.0000

321

0

1,037

Riprap		Perimeter,	Area for	Riprap Vol.
	Riprap	P	Geotextile	(CY)
	Thickness	(ft)	(excl.	
	(2xD50)	, ,	anchor	
	(ft)		trenches)	
	, ,		(sf)	
	0.00	4.16	624	0
	0.00	0.00	0	0
	0.00	10.06	14,486	0
	0.00	10.69	8,019	0
	0.00	7.06	10,872	0
	0.00	10.22	11,551	0
	0.00	0.00	0	0
Totals:			45,552	0

2.00

0.00

1.30

0.00

## Materials Needed:

YPM 13

YPM 20

Totals:

1,130

0

5,010

Geotextile (SY incl. 15%

Costs:

Material Costs:	Geotextile (SY):	\$4.26	Riprap (CY):	\$37.00	Excavation (CY):	\$0.00
Labor Cost:	•	\$0.30	•	\$14.05	•	\$2.73
Equipment Cost:	•	\$0.00	•	\$13.95	•	\$2.04
Means Reference	31 32 1916		31 37 1310		31 23 1642 0310	
	1510		0100			

Totals:

Geotextile (SY): \$26,541.59 Riprap (CY): \$0.00 Excavation (CY): \$4,946.26

Hours:

Geotextile (SY):
87.50 SY/HR
Riprap (CY):
7.75 CY/HR
Excavation (CY):
40.00 CY/HR

66.52

0.00

25.92

Total Post-Mining Channel Reconstruction hours: 92.44 Hours
Total Post-Mining Channel Reconstruction Cost: \$31,488

# **BULLDOZER WORK**

Yoast Mine	Permit Action:	MT6	Permit/Jo	b#: C1994082
PROJECT IDENTIFIC	<u>ATION</u>			
Task #: 037	State: Colorado		Abbreviation:	None
Date: 12/19/2022	County: Routt		Filename:	1994082
User: RAR				
Agency or organiz	ation name: DRMS			
HOURLY EQUIPMENT	T COST			
Basic Machine: Cat D	9T - 9SU			
Horsepower: 405	<u> </u>			
Blade Type: Semi-	-Universal			
	nk ripper			
Shift Basis: 1 per	·			
Data Source: (CRG	<del>(i)</del>			
Cost Breakdown:				
0 1' 0 //	¢1.46.20	<u>Utilization %</u>		
Ownership Cost/Hour: Operating Cost/Hour:	\$146.30 \$141.41	NA 100		
Ripper own.				
Cost/Hour:	\$17.01	NA		
Ripper op. Cost/Hour:	\$2.21	25	<del></del>	
Operator Cost/Hour:	\$41.30	NA		
Total unit Cost/Hour:	\$348.23		<del></del>	
	\$348.23	<del></del>		
	ф <b>5-т</b> 0.23			
MATERIAL QUANTIT	TES			
	<u>125</u>			
Initial Volume: 9,920				
Swell factor: 1.165	II CV			
Loose volume: 11,557				

#### **HOURLY PRODUCTION**

Average push distance:

Unadjusted hourly

production:

175 feet 805.3 LCY/hr

\_\_\_\_

Materials consistency

description:

Compacted fill or embankment 0.9

Source

(AVG.)

(CAT HB))

(GEN.)

(AVG.)

(1 SHIFT/DAY)

(FND-RF)

(CAT HB)

(CAT HB)

(CAT HB)

(PAT)

Average push

gradient:

5 %

Average site altitude:

7,400 feet

Material weight:

2,900 lbs/LCY

Weight description:

Decomposed rock - 50% Rock, 50% Earth

0.750

0.900

1.000

1.000

0.830

0.800

0.903

1.000

0.793

Job Condition Correction Factor

Operator Skill: \_ Material consistency: \_ Dozing method: \_ Visibility:

Job efficiency: Spoil pile: Push gradient:

Altitude: Material Weight: Blade type:

0.3209

Net correction: 0.3209 258.42 LCY/hr

Adjusted unit production: Adjusted fleet production:

**258.42** LCY/hr

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

Fleet size: 1 Dozer(s)

Unit cost:

\$1.348/LCY

Total job time: Total job cost: **44.72** Hours **\$15,573** 

# SCRAPER TEAM WORK

Task description: Replace Topsoil from Stockpile L to Unreleased Pond 12 Area						
Site: Yoast Mine		Permit Action	: <u>MT6</u>	I	Permit/Job#: C1	994082
PROJECT IDENT	<u> TIFICATION</u>					
Task #: 046		state: Colorado			viation: None	
Date: 12/19/ User: RAR	<u>/2022</u> Coi	unty: Routt		Fil	ename: 199408	32
	organization name:	DRMS				
HOURLY EQUIP			COSTS	Shift basis: 1 per	day	
		Eauipme	ent Description		<del></del>	
		craper: Cat 63	7G w/push-pull			
Cymma		Dozer: NA				<u></u>
Suppor	rt Equipment -Load Dumi-	o Area: NA NA				
Road Mai	intenance –Motor (		4M			
	-Water	Truck: Water	Tanker, 10,000 C	ial.		
Cost Breakdown:	Scraper Wor		Support Equ Load Area		Maintenanc Motor Grader	e Equipment Water Truck
	Scraper	Dozer	Load Area	Dump Area	Motor Grader	water Truck
%Utilization-machine:	100	NA	NA	NA	25	25
Ownership cost/hour:	\$287.19	NA	NA	NA	\$114.80	\$91.73
Operating cost/hour:	\$277.83	NA	NA	NA	\$19.85	\$32.57
%Utilization-ripper:	NA	NA	NA	NA	NA	NA
Ripper own. cost/hour:	NA	NA	NA	NA	\$0.00	\$0.00
Ripper op. cost/hour:	NA	NA	NA	NA	\$0.00	\$0.00
Operator cost/hour:	\$30.90	NA	NA	NA	\$28.56	\$21.12
Unit Subtotals:	\$595.92	NA	NA	NA	\$163.20	\$145.42
Number of Units:	4	0	0	0	1	1
Group Subtotals:	Work:	\$2,383.68	Support:	\$0.00	Maint:	\$308.62
Total work team cost	/hour: <b>\$2.692.30</b>	1				
	<u> </u>					
<b>MATERIAL QUA</b>	NTITIES					
Initial volume:	127,255	CCY	Swell fac	tor: 1.115		
Loose volume:	141,889	LCY	SWell lac			
Sour	rce of estimated vo	lume: Division	of Reclamation	Mining & Safety	7	
	of estimated swell f			willing & Salety	(	
			<del></del>			
<b>HOURLY PRODU</b>	UCTION					
			Scraper F	Bowl (volume) Ba	isis:	
M-4:-1 ' 1	2 100 11/1 037		-			CV
Material weight: Material description:	2,100 lbs/LCY Earth - Loam			Volume: 24.00 Volume: 34.00		.CY .CY
Rated Payload:	81,600 pounds			Volume: 34.00 29.00		.CY
Payload Capacity:	38.86 LCY		Adjusted (			CY

$\sim$	1	<b>m</b> ·		
Cyc	le.	111	me	
Cyc	ı	1 11	ш	•

Scraper Loading Time:  $\frac{1.00}{0.60}$  Minutes Maneuver and Spread Time:  $\frac{0.60}{0.60}$  Minutes

Job Condition Correction:

	Scraper	Push Dozer	Source
Altitude Adj:	0.980	NA	(CAT HB)
Job Efficiency:	0.830	NA	(CAT HB)
Net Correction:	0.813	NA	

#### Travel Time:

Road Condition: Firm, smooth, rolling, dirt/lt. surfaced, watered, maintained 3.0

#### Haul Route:

Seg #	Haul Distance (Ft)	Grade	Roll. Res	<b>Total Res</b>	Velocity	Travel Time
		(%)	(%)	(%)	(fpm)	(min)
1	1400.00	-5.00	3.00	-2.00	2972	0.53

Haul Time: 0.53 minutes

Site Altitude: 7800 feet

#### Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1400.00	5.00	3.00	8.00	1931	0.81

Return Time: 0.81 minutes

Total Scraper team cycle time: 2.94 minutes

Adjusted for job conditions: 962.33 LCY/Hour

Selected Number of Scrapers: 2 Scraper(s)
Adjusted single scraper team (unit) hourly production: 962.33 LCY/Hour
Adjusted multiple scraper team (fleet) hourly production: 1,924.65 LCY/Hour

Unadjusted unit production/hour: 1,183.67 LCY/Hour Optimal Number of Scrapers per push

dozer:

#### JOB TIME AND COST

 Fleet size:
 2
 Team(s)
 Total job time:
 73.72
 Hours

 Unit cost:
 \$1.399
 /LCY
 Total job cost:
 \$198,482

# **REVEGETATION WORK**

Ta	ısk descrip	otion:	Drill Seed Mix 1				
e: _	Yoast Mi	Permit Action: MT6 Permit/Job#:		#: <u>C1994082</u>			
<u>PR</u>	<u>OJECT</u>	IDENTIFIC	CATION				
	Task #:	065	State:	Colorado		Abbreviation:	None
	Date:	12/19/2022	County:	Routt		Filename:	1994082
	User:	RAR					
	Age	ency or organi	zation name: DF	RMS			
<u>FE</u>	RTILIZ	<u>ING</u>					
Ma	terials			Units /			
	Descripti	on		Acre	Unit	Cost / Unit	Cost /Acre
						\$	\$
						Total Fertilizer	
						Materials	
						Cost/Acre	\$0.00
Apj	plication						
	Descripti	on					Cost /Acre
							\$
				Total	Fertilizer A	application Cost/Acre	\$0.00
TII	LLING						
	Descripti	on					Cost /Acre
			(MEANS 32 91 1	3.23 6100)			\$117.18
					To	otal Tilling Cost/Acre	\$117.18

# **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Arrowleaf Balsamroot	0.50	0.62	\$35.10
Alpine Fescue	0.10	2.98	\$1.81
Big Bluegrass - Sherman	0.10	2.07	\$0.85
Bitterbrush, Antelope	1.00	0.31	\$19.50
Orchardgrass - Paiute	0.03	0.37	\$0.12
Mountain Brome - Bromar	1.10	1.77	\$4.18
Slender Wheatgrass - San Luis	1.10	4.02	\$4.68
Streambank Wheatgrass - Sodar	0.50	1.63	\$2.85
Thickspike Wheatgrass - Critana	0.50	1.77	\$3.44
Needlegrass, Green - Lodorm	1.10	4.57	\$12.95
Western Wheatgrass - Rosanna	1.10	2.78	\$6.33
Sagebrush, Mountain or Big	0.25	13.20	\$4.94

Flax, Lewis Blue	0.50	3.32	\$8.25
Snowberry, Mountain	0.50	0.86	\$25.25
Penstemon, Palmer	0.10	2.21	\$5.45
Penstemon, Rocky Mountain	0.25	3.92	\$7.38
Yarrow, Western	0.10	6.08	\$4.18
Basin Wildrye - Trailhead	1.10	4.47	\$16.95
Canada Bluegrass - Reubens	0.05	2.87	\$0.33
Alfalfa - Travois (Yellow Alfalfa)	0.10	0.48	\$0.26
Lupine, Tailcup	1.00	0.55	\$72.00
Bluebunch Wheatgrass - Goldar	0.50	1.61	\$2.30
Aster, Pacific	0.10	1.74	\$11.95
Totals Seed Mix	11.68	64.19	\$251.02

**Application** 

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

#### **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 Stock Cost / Acre					\$0.00	

## **JOB TIME AND COST**

Cost /Acre: \$600.20 Cost /Acre\*: \$600.20 No. of Acres: 8.4 Estimated Failure Rate: 10%
\*Selected Replanting Work Items: TILLING,SEEDING

Initial Job Cost: \$5,041.68 Reseeding Job Cost: \$504.17 Total Job Cost: \$5,546

Job Hours: **173.90** 

# **REVEGETATION WORK**

7	Гask descri <sub>l</sub>	otion:	Drill Seed mix 2	,				
Site:	Yoast Mi	ine	Pe	rmit Action:	MT6	Permit/Jo	b#: <u>C1994082</u>	
<u>P</u>	ROJECT	<u>IDENTIFIC</u>	<u>CATION</u>					
	Task #:	066	State:	Colorado		Abbreviation:	None	
	Date:	12/19/2022	County:	Routt		Filename:	1994082	
	User:	RAR						
	Age	ency or organiz	zation name:DI	RMS				

# **FERTILIZING**

#### Materials

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

Application

Description	Cost /Acre
	\$
Total Fartilizer Application Cost/Acre	00.00
Total Fertilizer Application Cost/Acre	\$0.00

# **TILLING**

Description		Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)		\$117.18
	<b>Total Tilling Cost/Acre</b>	\$117.18

# **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Big Bluegrass - Sherman	0.50	10.33	\$4.24
Beardless (Creeping) Wildrye - Shoshone	3.00	10.33	\$70.26
Blue Wildrye - Arlington or Elkton	1.00	3.44	\$6.66
Mountain Brome - Bromar	2.00	3.21	\$7.60
Blanketflower, Perennial	0.25	0.75	\$13.50
Slender Wheatgrass - San Luis	2.00	7.30	\$8.50
Needlegrass, Green - Lodorm	1.00	4.16	\$11.78
Western Wheatgrass - Rosanna	3.00	7.58	\$17.25
Rose, Wood's	1.00	0.00	\$20.50
Sagebrush, Silver	0.25	4.86	\$7.75
Reed Canarygrass - VNS	0.25	2.90	\$1.24
Snowberry, Mountain	2.00	3.44	\$101.00

Totals Seed Mix	19.70	78.72	\$396.60
Aster, Pacific	0.10	1.74	\$11.95
Lupine, Tailcup	1.00	0.55	\$72.00
Basin Wildrye - Trailhead	2.00	8.13	\$30.82
Yarrow, Western	0.10	6.08	\$4.18
Penstemon, Rocky Mountain	0.25	3.92	\$7.38

**Application** 

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

## **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 Stock Cost / Acre					\$0.00

## **JOB TIME AND COST**

No. of Acres:	16.4	Cost /Acre:	\$745.78
Estimated Failure Rate:	10%	Cost /Acre*:	\$745.78
*Selected Replanting Work Items:	TILLING,SEEDIN	IG	_

Initial Job Cost: \$12,230.79

Reseeding Job Cost: \$1,223.08

Total Job Cost: \$13,454

19.00

# **REVEGETATION WORK**

Yoast Mine	Permit Action	n: <u>MT6</u>	Permit/Jo	b#: <u>C1994082</u>
ROJECT IDENT	<u>IFICATION</u>			
Task #: 068 Date: 12/19/2	State: Colorado County: Routt	)	Abbreviation: Filename:	None 1994082

#### **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 Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)		Cost /Acre \$117.18
Disc harrowing, or deep (MLMAS 32 91 13.23 0100)	Total Tilling Cost/Acre	

# **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Arrowleaf Balsamroot	1.00	1.24	\$70.20
Alpine Fescue	0.20	5.97	\$3.62
Big Bluegrass - Sherman	0.20	4.13	\$1.70
Bitterbrush, Antelope	2.00	0.62	\$39.00
Orchardgrass - Paiute	0.06	0.74	\$0.24
Mountain Brome - Bromar	2.20	3.54	\$8.36
Slender Wheatgrass - San Luis	2.20	8.03	\$9.35
Streambank Wheatgrass - Sodar	1.00	3.26	\$5.70
Thickspike Wheatgrass - Critana	1.00	3.54	\$6.88
Needlegrass, Green - Lodorm	2.20	9.14	\$25.91
Western Wheatgrass - Rosanna	2.20	5.56	\$12.65
Sagebrush, Mountain or Big	0.50	26.40	\$9.88

Flax, Lewis Blue	1.00	6.63	\$16.50
Snowberry, Mountain	1.00	1.72	\$50.50
Penstemon, Palmer	0.20	4.42	\$10.90
Penstemon, Rocky Mountain	0.50	7.84	\$14.75
Yarrow, Western	0.20	12.16	\$8.36
Basin Wildrye - Trailhead	2.20	8.94	\$33.90
Canada Bluegrass - Reubens	0.10	5.74	\$0.65
Alfalfa - Travois (Yellow Alfalfa)	0.20	0.96	\$0.51
Lupine, Tailcup	2.00	1.10	\$144.00
Bluebunch Wheatgrass - Goldar	1.00	3.21	\$4.60
Aster, Pacific	0.20	3.48	\$23.90
Totals Seed Mix	23.36	128.38	\$502.05

Application

Description	Cost /Acre
Broadcast seeding [DMG]	\$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/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 Ac	eres: 13.7	Cost /Acre:	\$886.45
Estimated Failure R	ate: 50%	Cost /Acre*:	\$886.45
*Selected Replanting Work Ite	ms: TILLING SEEDI	NG	

Selected Replanting Work Items: TILLING, SEEDING

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

\$12,144.37
\$6,072.18
\$18,217
\$13.00

# **REVEGETATION WORK**

Description	Yoast Mine	Peri	mit Action: MT6			Permit/Job#	#: <u>C1994082</u>
Task #: 070	ROJECT IDENTIF	TICATION					
Note   Cost / Acre   Cost / Unit   Cost / Unit   Cost / Cost / Acre   Cost /	Task #: 070 Date: 12/19/202	State: Colorado					
Description	Agency or orga	anization name: DR	MS				
Units / Acre	ERTILIZING						
Description	aterials						
Total Fertilizer Materials   S0.00	Description			Unit	Co	st / Unit	Cost /Acre
Materials   Cost/Acre   S0.00					\$		\$
Cost /Acre   S					To	Materials	\$0.00
S   S   S   S   S   S   S   S   S   S	pplication						
Total Fertilizer Application Cost/Acre   S0.00	Description						Cost /Acre
Cost /Acre   S117.18							\$
Cost /Acre   S117.18			Total	Fertilizer	Applicati	on Cost/Acre	\$0.00
Since   Sinc	<u>LLING</u>						
Since   Sinc	Description						Cost /Acre
EDING  Seed Mix  Rate - PLS LBS / PTSQ. FT  Seeds per SQ. FT  \$  Totals Seed Mix 0.00 0.00 \$0.00  Description  Cost /Acre		eep (MEANS 32 91 13	.23 6100)				\$117.18
Seed Mix  Rate - PLS LBS / Acre  Seeds per SQ. FT  \$  Totals Seed Mix 0.00 0.00 \$0.00  Dication  Cost /Acre				,	Total Tilli	ng Cost/Acre	\$117.18
Seed Mix  PLS LBS / Acre  Seeds per SQ. FT  \$  Totals Seed Mix 0.00 0.00 \$0.00  Solution  Cost /Acre  Cost /Acre	EEDING						
Totals Seed Mix 0.00 0.00 \$0.00  Description  Cost /Acre	Seed Mix				PLS LBS /	per SQ.	Cost /Acre
Description  Cost /Acre							\$
Description Cost /Acre \$			Totals S	Seed Mix	0.00	0.00	\$0.00
\$	plication						
	Description						Cost /Acre
Total Seed Application Cost/Acre \$0.00							\$
			Т	otal Seed	Applicati	on Cost/Acre	\$0.00

## **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
Chokecherry	1500	Bare root seedling, 11-16 inch ht. (MEANS)	\$2.35	\$0.00	\$3,525.00
Oak, Gambel's	1500	Bare root seedling, 11-16 inch ht. (MEANS)	\$2.35	\$0.00	\$3,525.00
Serviceberry	1500	Bare root seedling, 11-16 inch ht. (MEANS)	\$2.35	\$0.00	\$3,525.00

## **JOB TIME AND COST**

 No. of Acres:
 4
 Cost /Acre:
 \$10,692.18

 Estimated Failure Rate:
 40%
 Cost /Acre\*:
 \$10,692.18

\*Selected Replanting Work Items: TILLING,NURSERY

Initial Job Cost: \$42,768.72

Reseeding Job Cost: \$17,107.49

Total Job Cost: Job Hours: \$20.00

# **REVEGETATION WORK**

Acre	
Permit/Job	o#: <u>C1994082</u>
reviation:	None
Filename:	1994082
=	
t / Unit	Cost /Acre
	\$
-1 E ('''	
al Fertilizer	
Materials Cost/Acre	
CUSHACIE	ν φυ.υυ
	Cost /Acre
	•
n Cost/Acre	\$0.00
	Cost /Acre
	\$
	-
g Cost/Acre	\$0.00
<u> </u>	
Seeds	Cost /Acre
per SQ.	Cost/Acre
FT SQ.	
	\$35.10
	\$1.81
2.98	\$0.85
	\$19.50
0.6 2.9	62 98 07

0.03

1.10

1.10

0.50

0.50

1.10

0.37

1.77

4.02

1.63

1.77

4.57

\$0.12

\$4.18

\$4.68

\$2.85

\$3.44

\$12.95

Orchardgrass - Paiute

Mountain Brome - Bromar

Slender Wheatgrass - San Luis

Streambank Wheatgrass - Sodar

Thickspike Wheatgrass - Critana

Needlegrass, Green - Lodorm

Totals Seed Mix	11.68	64.19	\$251.02
Aster, Pacific	0.10	1.74	\$11.95
Bluebunch Wheatgrass - Goldar	0.50	1.61	\$2.30
Lupine, Tailcup	1.00	0.55	\$72.00
Alfalfa - Travois (Yellow Alfalfa)	0.10	0.48	\$0.26
Canada Bluegrass - Reubens	0.05	2.87	\$0.33
Basin Wildrye - Trailhead	1.10	4.47	\$16.95
Yarrow, Western	0.10	6.08	\$4.18
Penstemon, Rocky Mountain	0.25	3.92	\$7.38
Penstemon, Palmer	0.10	2.21	\$5.45
Snowberry, Mountain	0.50	0.86	\$25.25
Flax, Lewis Blue	0.50	3.32	\$8.25
Sagebrush, Mountain or Big	0.25	13.20	\$4.94
Western Wheatgrass - Rosanna	1.10	2.78	\$6.33

Application

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

# **MULCHING and MISCELLANEOUS**

#### Materials

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

Application

Cost /Acre	Cost /Acre
\$	\$
\$0.00	st/Acre \$0.00
·e	t/Acr

## **NURSERY STOCK PLANTING**

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

# **JOB TIME AND COST**

No. of Acres:	19.85	Cost /Acre:	\$483.02
Estimated Failure Rate:	0%	Cost /Acre*:	\$483.02
*Coloated Donlanting Work Itams	CEEDING		

Selected Replanting Work Items: SEEDING

Initial Job Cost:

Reseeding Job Cost:

Total Job Cost:

Job Hours:

\$9,587.95

\$0.00

\$9,588

252.30

# EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description: Mo	bilize/Demobiliz	e Equipment for I	nitial Reclamation	
te: Yoast Mine	Permit	Action: MT6	Permit/J	ob#: <u>C1994082</u>
PROJECT IDENTIFICATI	<u>ON</u>			
Task #: 085 Date: 1/11/2023 User: RAR		olorado outt	Abbreviation: Filename:	
Agency or organization	n name: DRMS	5		
EQUIPMENT TRANSPOR	T RIG COST			
			Shift basis: Cost Data Source:	1 per day CRG Data
Truck Tractor Desc	ription: GENI		AY TRUCK TRACTOR, 6X4 400 HP (2ND HALF, 2006)	, DIESEL POWERED,
Truck Trailer Desc	ription: C	GENERIC FOLDIN	G GOOSENECK, DROP DE AILER (25T, 50T, AND 1007	~
Cost Breakdown:				
Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons	
Ownership Cost/Hour:	\$15.25	\$23.06	\$37.58	
Operating Cost/Hour:	\$25.26	\$30.83	\$51.41	
Operator Cost/Hour:	\$27.71	\$27.71	\$27.71	

\$20.22

\$101.82

\$20.22

\$136.92

## **NON ROADABLE EQUIPMENT:**

Total Unit Cost/Hour:

Helper Cost/Hour:

\$0.00

\$68.22

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
-	(TONS)		t		fleet		
Cat D11T - 11U	134.12	\$257.09	\$136.92	2	\$788.02	\$273.84	\$500.00
Cat 637G w/push- pull	59.59	\$287.19	\$136.92	4	\$1,696.44	\$547.68	\$1,000.00
CAT 14M	23.57	\$114.80	\$68.22	1	\$183.02	\$68.22	\$250.00
Water Tanker, 5,000 Gal.	15.00	\$37.19	\$68.22	1	\$105.41	\$68.22	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$6.25	\$68.22	1	\$74.47	\$68.22	\$0.00
Truck Mounted - 3.0 in 1,700 ft. capy.	0.00	\$27.65	\$68.22	1	\$95.87	\$68.22	\$0.00

Subtotals: \$2,943.23 \$1,094.40 \$2,000.00

# **ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Fuel Tanker, 6x4, 210 HP	\$48.30	1	\$48.30	\$48.30
Lube Truck, 6x4, 250 HP	\$48.30	1	\$48.30	\$48.30
Flatbed Truck, 6x4, 45K GVW	\$54.51	1	\$54.51	\$54.51
Light Duty Pickup, 4x4, 1 T.	\$24.30	1	\$24.30	\$24.30
Crew				

Subtotals:	\$175.41	\$175.41
Subtotals.	D1/J.T1	DI/3.TI

## **EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region:
Total one-way travel distance:
Average Travel Speed:

HAYDEN
miles
30.00
mph

## **Transportation Cycle Time:**

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.33	0.33
Return Time (Hours):	0.33	0.33
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.67	0.67

## **JOB TIME AND COST**

Total job time:	3.33	Hours
		=:

Total job cost: \$12,695

# EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description: Me	obilize/Demobiliz	e Equipment for l	Pond Removal	
e: Yoast Mine	Permi	t Action: MT6	Permit/Jo	b#: <u>C1994082</u>
PROJECT IDENTIFICAT	<u>ION</u>			
Task #: 086	State: C	Colorado	Abbreviation:	None
Date: 1/11/2023 User: RAR	County: R	Loutt	Filename:	C1994082
Agency or organization	n name: DRM	S		
EQUIPMENT TRANSPOR	RT RIG COST			
EQUITMENT TRANSPOT	TING COST		Shift basis:	1 per day
				CRG Data
Truck Tractor Des	cription: GEN	ERIC ON-HIGHW	AY TRUCK TRACTOR, 6X4, 400 HP (2ND HALF, 2006)	DIESEL POWERED,
Truck Trailer Des	cription:	GENERIC FOLDIN	NG GOOSENECK, DROP DEC	CK EQUIPMENT
		TR	AILER (25T, 50T, AND 100T)	)
Cost Breakdown:				
Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons	
Ownership Cost/Hour:	\$15.25	\$23.06	\$37.58	
Operating Cost/Hour:	\$25.26	\$30.83	\$51.41	
Operator Cost/Hour:	\$27.71	\$27.71	\$27.71	
Helper Cost/Hour:	\$0.00	\$20.22	\$20.22	

## **NON ROADABLE EQUIPMENT:**

Total Unit Cost/Hour:

\$68.22

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
_	(TONS)		t		fleet		
Cat D9T - 9SU	60.01	\$146.30	\$136.92	1	\$283.22	\$136.92	\$250.00
Cat 627G	41.80	\$179.93	\$101.82	1	\$281.75	\$101.82	\$250.00
Drill/Broadcast	25.00	\$6.25	\$68.22	1	\$74.47	\$68.22	\$0.00
Seeder with							
Tractor							

\$101.82

\$136.92

Subtotals: \$639.44 \$306.96 \$500.00

## **ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Flatbed Truck, 6x4, 45K GVW	\$54.51	1	\$54.51	\$54.51

Subtotals: \$54.51 \$54.51

## **EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region:
Total one-way travel distance:
Average Travel Speed:

HAYDEN

10.00
miles

30.00

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

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.33	0.33
Return Time (Hours):	0.33	0.33
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.67	0.67

## **JOB TIME AND COST**

Total job time: 3.33 Hours

Total job cost: \$2,946

# EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description: Mo	bilize/Demobiliz	e Equipment for S	ite Maintenance	
te: Yoast Mine	Permit	Action: MT6	Permit/	Job#: <u>C1994082</u>
PROJECT IDENTIFICATI	<u>ON</u>			
Task #: 087 Date: 1/11/2023 User: RAR		olorado outt	Abbreviation Filename	· · · - · · · · · · · · · · · · ·
Agency or organization	n name: DRMS	5		
EQUIPMENT TRANSPOR	T RIG COST			
			Shift basis: Cost Data Source:	1 per day CRG Data
Truck Tractor Desc	ription: GENI		AY TRUCK TRACTOR, 6X 400 HP (2ND HALF, 2006)	4, DIESEL POWERED,
Truck Trailer Desc	ription: C	GENERIC FOLDIN	G GOOSENECK, DROP DI AILER (25T, 50T, AND 100	~
Cost Breakdown:				
Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons	
Ownership Cost/Hour:	\$15.25	\$23.06	\$37.58	
Operating Cost/Hour:	\$25.26	\$30.83	\$51.41	
Operator Cost/Hour:	\$27.71	\$27.71	\$27.71	

## **NON ROADABLE EQUIPMENT:**

Total Unit Cost/Hour:

Helper Cost/Hour:

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
_	(TONS)		t		fleet		
Cat D3K XL - 3P	9.22	\$27.70	\$68.22	5	\$479.60	\$341.10	\$0.00
Cat D7R DS	34.57	\$92.78	\$101.82	5	\$973.00	\$509.10	\$0.00
Series II LGP							
Cat 336D L 10'-6"	32.23	\$83.53	\$101.82	5	\$926.75	\$509.10	\$1,250.00
Stick							
CAT 14M	23.57	\$114.80	\$68.22	10	\$1,830.20	\$682.20	\$2,500.00
Drill/Broadcast	25.00	\$6.25	\$68.22	5	\$372.35	\$341.10	\$0.00
Seeder with							
Tractor							

\$20.22

\$101.82

\$20.22

\$136.92

\$0.00

\$68.22

Subtotals: \$4,581.90 \$2,382.60 \$3,750.00

## **ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Generic 8-10 cy, 6x4	\$91.11	10	\$911.10	\$911.10
Flatbed Truck, 6x4, 45K GVW	\$54.51	10	\$545.10	\$545.10

Subtotals:	\$1,456,20	\$1,456,20	
Subibitals.	31.430.20	D1.400.20	

# **EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region:

Total one-way travel distance:

Average Travel Speed:

HAYDEN

miles

30.00

mph

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

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.33	0.33
Return Time (Hours):	0.33	0.33
Loading Time (Hours):	2.50	NA
Unloading Time (Hours):	2.50	NA
Subtotals:	5.67	0.67

## **JOB TIME AND COST**

Total job time: 11.33 Hours

Total job cost: \$58,933