

May 3, 2023

David Forenza Mesa Agg LLC P.O. Box 7790 Avon, CO 81620

RE: Orchard Mesa Aggr, Permit No. M-1995-005, Proposed Surety Increase SI-3

Dear Mr. Forenza:

This reclamation cost update was in response to the site inspection conducted on April 18, 2023. It is Division policy to periodically update its costs to ensure that the Financial Warranty adequately, reflects the actual current cost of fulfilling the requirements of the approved reclamation plan.

The bond was last recalculated in 2020 with SO-1. The bond was considered sufficient, as the estimated amount was calculated to be \$55,836 and the current required amount was \$56,400.43. Prior to SO-1 there have been no increases since 2013. Below is a table summarizing input values that have been updated in since the SO-1 calculation. This table does not account for price changes resulting from inflation or other RS Means cost changes. Bond calculations are based on a combination of field observations and worst case scenario based on the approved reclamation plan.

Task	Form Used	Description
01a	Dozer	No Changes.  Approx. 1100 LF of highwall, portions require backfill. 11,074 CCY graded is sufficient.
02a	Ripper	Estimated 13 ac needs ripping
03a	Loader	Affected acreage ~20 ac, prev. reclaimed is 4.32. 15.68 requires topsoil.  15.68 ac @ 4 in = 8,432 CCY
03b	Dozer	Grade transported volume of topsoil 9,486 LCY
04a	Reveg	Reveg 15.68 ac of affected lands not prev. reclaimed



04b	Reveg	Touch up seeding of prev. reclaimed lands 4.32 ac. (2023 ann rpt) Prev. estimated at 7 ac
05a	Mob	No changes
05b	Mob	No changes

Per policy I wanted to send this out for review prior to issuance. Please look it over and let me know if there are errors or concerns. If no response is received by Friday, June 2, 2023 then I'll issue SI-3 the following Monday as is. SI-3 will result in a total required bond amount of \$78,239, which is an increase of \$21,838.57 over the \$56,400.43 currently held.

Sincerely,

Amy Yeldell

**Environmental Protection Specialist** 

Amy Geldell

Ec:

Travis Marshall, Senior EPS, Grand Junction DRMS Ivan Geer

#### **COST SUMMARY WORK**

e: Orcha	rd Mesa Aggr	Permit Action:	04-2023	Permit/Job	#: <u>M1995005</u>
<b>PROJEC</b>	T IDENTIFICA	TION			
Task # Date		State: Colorado County: Mesa		Abbreviation: _ Filename:	None M005-ACY
User	-	County: Mesa		rnename.	WIOO3-AC I

#### **TASK LIST (DIRECT COSTS)**

Task		Form	Fleet	Task	
Task	Description	Used	Size	Hours	Cost
01a	Regrading highwalls from near vertical to 3H:1V	DOZER	1	20.08	\$5,271
02a	Rip compacted areas	RIPPER	1	19.58	\$5,542
03a	Transport topsoil	LOADER	1	41.80	\$5,883
03b	Grade topsoil	DOZER	1	12.57	\$3,300
04a	Reveg of active mine areas	REVEGE	1	24.00	\$27,272
04b	Reveg of unreleased reclaimed areas areas	REVEGE	1	8.00	\$5,120
05a	Initial Mobilization	MOBILIZE	1	2.44	\$3,408
05b	Secondary Mobilization	MOBILIZE	1	2.44	\$1,398
		SUBTO	TALS:	130.91	\$57,194

## **INDIRECT COSTS**

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

2.02 Total = Liability insurance: \$1,155 Performance bond: 1.05 Total = \$601 Job superintendent: 65.46 Total = \$4,918 Profit: \$5,719 10.00 Total =

TOTAL O &  $P = \frac{12,393}{}$ 

CONTRACT AMOUNT (direct + O & P) =  $\frac{$42,555}{$69,587}$ 

#### LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): \$500 Total = \$500

Engineering work and/or contract/bid preparation: Reclamation management and/or administration: 5.00 \$2,957

\$3,479

CONTINGENCY: 3.00 Total = \$1,716

TOTAL INDIRECT COST = \$21,045

TOTAL BOND AMOUNT (direct + indirect) = \$78,239

# **BULLDOZER WORK**

Orchard Mesa A	agr	Dor	mit Action:	04 2023	Permit/Job#:	M1995005
Of Chard Wiesa A	ıggı		int Action	04-2023	_ 1 CIIIII / 300π.	W11993003
<u>PROJECT IDEN</u>	TIFICAT	ION				
Task #: 01A		State:	Colorado		Abbreviation:	None
Date: 5/3/20	)23	County:	Mesa		Filename:	M005-01a
User: ACY		-				
Agency or	organizatio	n name: DF	RMS			
HOURLY EQUI	PMENT (	COST				
Basic Machine:	Cat D8T -	<u></u>				
Horsepower:	310	050		<del>_</del>		
Blade Type:	Semi-Uni	versal		<u> </u>		
Attachment:	NA					
Shift Basis:	1 per day					
Data Source:	(CRG)			<u>—</u>		
Cost Breakdown:						
				<u>Utilization %</u>		
Ownership Cost/H			\$124.85	NA		
Operating Cost/H			\$97.63	100		
Ripper own. Cost/H			\$0.00	NA		
Ripper op. Cost/H			\$0.00	0		
Operator Cost/H	our:		\$40.04	NA		
Total unit Cost/Hou	r: \$26	2.52				
Total Fleet Cost/Ho		2.52				
MATERIAL QU	ANTITIE	S				
		<u>~</u>				
Initial Volume:	11,074					
Swell factor:	1.090	<b>X</b> 7	<u>—</u>			
Loose volume:	<b>12,071</b> LC	<u>Y</u>	_			
Source of estimated	volume:	2000 LF	@ 20'H verti	ical to 3H:1V		
Source of estimated Source of estimated				ical to 3H:1V		
				ical to 3H:1V		
	swell factor	r: Cat Hand		ical to 3H:1V		
Source of estimated  HOURLY PROD	swell factor	r: Cat Hand		ical to 3H:1V		
Source of estimated  HOURLY PROD  Average push distar	swell factor  DUCTION  nce:	Cat Hand 50 feet	book	ical to 3H:1V		
Source of estimated  HOURLY PROD	swell factor  DUCTION  nce:	r: Cat Hand	book	ical to 3H:1V		
Source of estimated  HOURLY PROD  Average push distar	swell factor  DUCTION  nce:  production:	50 feet 1,400.0 LC	book Y/hr	mbankment 0.9		
Source of estimated  HOURLY PROI  Average push distar  Unadjusted hourly p	swell factor  DUCTION  nce:  production:  cy description	50 feet 1,400.0 LC  on: Compa	book Y/hr			
Source of estimated  HOURLY PROD  Average push distar  Unadjusted hourly p  Materials consistence	buction  Duction  nce:  broduction:  cy description  ent: 0 %	50 feet 1,400.0 LC  on: Compa	book Y/hr			
HOURLY PROD  Average push distar Unadjusted hourly p  Materials consistence  Average push gradic  Average site altitude	buction:  ce: broduction:  cy description  ent: e:  0 % 4,90	Cat Hand  50 feet  1,400.0 LC  on: Compa	book Y/hr			
HOURLY PROD  Average push distar  Unadjusted hourly p  Materials consistence  Average push gradie	buction:  ce: broduction:  cy description  ent: e:  0 % 4,90	50 feet 1,400.0 LC  Compa	book Y/hr			
HOURLY PROD  Average push distar Unadjusted hourly p  Materials consistence  Average push gradic  Average site altitude	buction:  cy description  et: 0 %  et: 4,90  2,40	Cat Hand  50 feet  1,400.0 LC  on: Compa	Y/hr cted fill or er			
HOURLY PROI Average push distar Unadjusted hourly p Materials consistence Average push gradic Average site altitude Material weight: Weight description:	buction:  oroduction:  cy description  ent:	Cat Hand  50 feet  1,400.0 LC  on: Compa  00 feet  00 lbs/LCY  y and gravel - I	Y/hr cted fill or er	mbankment 0.9		
HOURLY PROI  Average push distar Unadjusted hourly p  Materials consistence Average push gradic Average site altitude Material weight:  Weight description:  Job Condition Corre	buction:  oroduction:  cy description  ent: 0 % 4,90	50 feet 1,400.0 LC  on: Compa  00 feet  00 lbs/LCY  y and gravel - I	Y/hr cted fill or er	mbankment 0.9		
HOURLY PROE Average push distar Unadjusted hourly p Materials consistence Average push gradic Average site altitude Material weight: Weight description: Job Condition Corre Ope	buction:  cy description  ent: 0 % e: 4,90  Clay  ection Factor rator Skill:	50 feet 1,400.0 LC  on: Compa  00 feet  00 lbs/LCY  y and gravel - I	Y/hr cted fill or er	mbankment 0.9  Source (AVG.)		
HOURLY PROI  Average push distar Unadjusted hourly p  Materials consistence Average push gradic Average site altitude Material weight:  Weight description:  Job Condition Corre Ope Material co	buction:  cy description  ent: 0 % e: 4,90  Clay  ection Factor rator Skill:	7: Cat Hand  50 feet  1,400.0 LC  20: Compa  00 feet  00 lbs/LCY  y and gravel - I  1. Cat Hand  1. Compa  1. Compa	Y/hr cted fill or er  Dry	mbankment 0.9		

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:	0.958	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4294

Adjusted unit production:
Adjusted fleet production:
601.16 LCY/hr
601.16 LCY/hr

# **JOB TIME AND COST**

Fleet size: 1 Dozer(s)
Unit cost: \$0.437/LCY

Total job time: 20.08 Hours
Total job cost: \$5,271

# **BULLDOZER RIPPING WORK**

	on: Rip	compacted areas				
Site: Orchard N	Iesa Aggr	Permit Action:	04-2023	Permit/Jo	ob#: <u>M1995005</u>	
<b>PROJECT</b>	IDENTIFICAT	ION				
Task #:	02A	State: Colorado		Abbreviation	on: None	
Date:	5/3/2023	County: Mesa		Filenam	ne: M005-02a	
User: _	ACY					
Age	ncy or organization	n name: DRMS				_
<b>HOURLY</b> I	EQUIPMENT C	<u>OST</u>				
Ba	sic Machine: Ca	nt D8T - 8SU		Horsepower:	310	
Ripper	Attachment: 3-	Shank Ripper	<del></del>	Shift Basis:	1 per day	
				Data Source:	(CRG)	_
Cost Breakdo	wn:					
			****	Utilization %		
	Ownership (		\$124.85 \$97.63	NA 100		
P	Operating ( ipper Ownership (		\$97.63	100 NA		
	Ripper Ownership C		\$7.30	100		
•	Operator (		\$40.04	NA		
	Total Unit C		\$282.92			
	Total Fleet C	Cost/Hour: \$282	.92			
MATERIA	L QUANTITIES	Sele	cted estimating	method: Area		
Alternate Me		Sele	cted estimating	method: Thea		<del></del>
ismic: NA	<del>nous.</del>	Bank Volume:	NA	BCY	NA	
Area: 13.00	acres	Rip Depth (ft):	2.00	Volume: 41,947		CY or C
<u> </u>		imated quantity: Staff es				01 01 0
HOUDI V I	PRODUCTION	matea quantity. Stair es	timates .			_
	KODUCTION					
Seismic:		Coismia Valositus	NA	feet/second		
		Seismic Velocity:	INA	lee/second		
Area:		<b>D</b>	2.5	0		
		ge Ripping Depth: ge Ripping Width:	2.56 7.08	feet/pass		
		e Ripping Width:	300.00	feet/pass feet/pass		
		rage Dozer Speed:	88.00	feet/minute		
		e Maneuver Time:	0.25	minutes/pass		
		ction per unit area:	0.800	acres/hour		
Job Condition	Correction Factor	<u>'S</u>				
	II		0.000	Acres/hr		
	Unadjusted Houri	y Unit Production:	0.800	ACICS/III		
	Unadjusted Houri			feet		
	Unadjusted Houri	y Unit Production:  Site Altitude: Altitude Adj:	4,900 1.00			
	Onadjusted Houri	Site Altitude:	4,900 1.00 0.83	feet		
	Onagjusted Houri	Site Altitude: Altitude Adj:	4,900 1.00	feet (CAT HB)		
	v	Site Altitude: Altitude Adj: Job Efficiency:	4,900 1.00 0.83	feet (CAT HB) (1 shift/day)		
	Adjusteo	Site Altitude: Altitude Adj: Job Efficiency: Net Correction:	4,900 1.00 0.83 0.83	feet (CAT HB) (1 shift/day) multiplier		
JOB TIME	Adjusteo	Site Altitude: Altitude Adj: Job Efficiency: Net Correction:	4,900 1.00 0.83 0.83	feet (CAT HB) (1 shift/day) multiplier Acres/hr		
<b>JOB TIME</b> Fleet size	Adjusted Adjusted <b>AND COST</b>	Site Altitude: Altitude Adj: Job Efficiency: Net Correction:	4,900 1.00 0.83 0.83	feet (CAT HB) (1 shift/day) multiplier Acres/hr Acres/hr	Hours	S

# WHEEL LOADER – LOAD AND CARRY WORK

Task description:	Transpo	ort topsoil				
: Orchard Mesa A	ggr	Permit Acti	ion: <u>04-2023</u>		Permit/Job#:	M1995005
PROJECT IDEN	TIFICATION					
Task #: 03A		State: Color	ado		Abbreviation:	None
Date: $\frac{-5/3}{20}$	23	County: Mesa			Filename:	M005-03a
User: ACY						
Agency or	organization nar	ne: DRMS				
HOURLY EQUI	PMENT COST	<u>Γ</u>				
Basic Machir	ne: CAT 972H	_ [		Horsep	ower.	287
Attachment			_	Shift 1		per day
7 ttaenment	1. KOIB Cac	<u>'</u>	_	Data So		CRG)
G . B . 1.1				2 2		0110)
Cost Breakdown:			I Itilianti	on 04		
Ownership (	Cost/Hour:	\$53.96	Utilizatio NA	Л1 70		
Operating (		\$50.78	100			
Operator (		\$35.97	NA			
Total Unit C		\$140.71				
Total Fleet	Cost/Hour:	\$140.71	<u> </u>			
Total Tiect		Ψ110.71				
MATERIAL QU	<u>ANTITIES</u>					
Initial volume:	8,432	CC	/ Swe	ell factor:	.125	
Loose volume:	9,48					
Cov	irce of estimated	volume: 4" d	anth array 15 60			
	of estimated swe		epth over 15.68 Handbook	ac		
Source	or estimated swe	in factor. Cat	Handbook			
HOURLY PROD	UCTION					
Loader Cycle Time:		ed Basic Cycle T	Time (load, dum	p, maneuver):	0.525	minutes
Cycle Time 1	Factors			_	Factor (min.)	Source
•		l material 0.02			0.020	(Cat HB)
		eyor or dozer pile	ed 10 ft. high or	less 0.01	0.010	(Cat HB)
Truck Own		non ownership of			-0.040	(Cat HB)
		ant operation -0.0			-0.040	(Cat HB)
Dump		nal target 0.00			0.000	(Cat HB)
_		Ne	t Cycle Time A	djustment:	-0.050	minutes
		A	djusted Basic C	ycle Time:	0.475	minutes
Rolling Resistance -	Road Condition	<u>ıs</u>				
Ī	Haul: Rutted of	lirt, little mainten	ance, no water.	2" tire penetra	tion 5.0	
		lirt, little mainten				
	-		· · · · · · · · · · · · · · · · · · ·	•		
Haul and Return Tin	<u>ne</u>					
	Length	Grade Res.	Rolling	Total Res.	Travel Time	Source
	(feet)	(%)	Res. (%)	(%)	(minutes)	Source
Haul Route:	500	0.00	5.00	5.00	0.4611	(Cat HB)
Return Route:	500	0.00	5.00	5.00	0.4160	(Cat HB)

Total Travel Time: 0.8771 minutes Total Cycle Time: 1.3521 minutes **Load Bucket Capacity** Rated Capacity: LCY (heaped) 5.60 Bucket Fill Factor: Other - rock/dirt mixtures (100-120%) 1.100 1.100 Adjusted Capacity: LCY 6.16 Job Condition Correction Factors Site Altitude: 4900 feet Source Altitude Adj: (CAT HB) Job Efficiency: 0.83 (1 shift/day) Net Correction: 0.83 multiplier Unadjusted Hourly Unit Production: 273.36 LCY/Hour Adjusted Hourly Unit Production: 226.89 LCY/Hour Adjusted Hourly Fleet Production: 226.89 LCY/Hour JOB TIME AND COST Fleet size: 1 Loader(s) Total job time: 41.81 Hours

Total job cost:

\$5,883

Unit cost: \$0.620

/LCY

# **BULLDOZER WORK**

Task description:	Grade topsoil			
: Orchard Mesa Aggr	Permit Action:	04-2023	Permit/Job#:	M1995005
PROJECT IDENTIFI	<u>[CATION</u>			
Task #: 03B	State: Colorado		Abbreviation:	None
Date: 5/3/2023	County: Mesa		Filename:	M005-03b
User: ACY				
Agency or organ	nization name: DRMS			
HOURLY EQUIPME	ENT COST			
Basic Machine: Cat	D8T - 8SU			
Horsepower: 310				
<b>7</b> 1	ni-Universal	<u> </u>		
Attachment: NA				
	er day	<u> </u>		
Data Source: (CR	.(1)			
Cost Breakdown:		1		
0 1: 0 ///	Ф1 <b>2</b> 4.05	<u>Utilization %</u>		
Ownership Cost/Hour: Operating Cost/Hour:	\$124.85 \$97.63	NA 100		
Ripper own. Cost/Hour:	\$0.00	NA		
Ripper op. Cost/Hour:	\$0.00	0	<del></del>	
Operator Cost/Hour:	\$40.04	NA		
-	·	1111		
Total unit Cost/Hour:	\$262.52			
Total Fleet Cost/Hour:	\$262.52			
MADEDIAL OHAND	WALLS			
MATERIAL QUANT	111ES			
Initial Volume: 9,486				
Swell factor: 1.000				
Loose volume: 9,480	6 LCY			
Source of estimated volur	ne: Transported topsoil			
Source of estimated swell	<u>L</u>			
HOURLY PRODUCT	CION			
Average push distance:	50 feet			
Unadjusted hourly produc	etion: 1,400.0 LCY/hr			
Materials consistency des	cription: Loose stockpile 1.2			
Average push gradient:	0 %			
Average site altitude:	4,900 feet			
Material weight:	2,550 lbs/LCY			
Weight description:	Earth - Dry packed			
Job Condition Correction	Factor	Source		
Operator S		(AVG.)		
Material consiste		(CAT HB)		
Dozing me		(GEN.)		
Visib	ility: 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:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.5390

Adjusted unit production: 754.60 LCY/hr
Adjusted fleet production: 754.6 LCY/hr

# **JOB TIME AND COST**

Fleet size: 1 Dozer(s)
Unit cost: \$0.348/LCY

Total job time: 12.57 Hours
Total job cost: \$3,300

# **REVEGETATION WORK**

Task description: Reveg of active mine areas

Site: Orchard Mesa Aggr Permit Action: 04-2023 Permit/Job#: M1995005

## **PROJECT IDENTIFICATION**

Task #:04AState:ColoradoAbbreviation:NoneDate:5/3/2023County:MesaFilename:M005-04a

User: ACY

Agency or organization name: DRMS

#### **FERTILIZING**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
8-24-24, 10-15-15, 10-20-20	50.00	pound	\$0.35	\$17.50
			Total Fertilizer Materials	
			Cost/Acre	\$17.50

**Application** 

Description		Cost /Acre
Tractor towed spreader (MEANS 32 01 90.13 0120)		\$39.64
	<b>Total Fertilizer Application Cost/Acre</b>	\$39.64

## **TILLING**

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

## **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Paloma	3.25	10.52	\$36.16
Sand Dropseed	0.25	29.84	\$2.44
Crested Wheatgrass - Fairway	2.00	9.18	\$8.05
Galleta	2.00	7.30	\$44.70
Saltbush, Four Wing	1.00	1.38	\$12.50
Saltbush, Shadscale	1.00	1.49	\$10.00
Winter Fat	1.00	2.55	\$20.50
Totals Seed Mix	10.50	62.26	\$134.34

## Application

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

#### **MULCHING and MISCELLANEOUS**

#### Materials

	Units /			
Description	Acre	Unit	Cost / Unit	Cost /Acre
Hay, delivered {MEANS 31 25 14.16 1200}	1.00	TON	\$421.36	\$421.36
Herbicide - 2,4D @ 1.0 pt/ac	1.00	ACRE	\$3.04	\$3.04
Total Mulch Materials Cost/Acre				\$424.40

**Application** 

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$73.00
Power mulcher (MEANS 32 91 13.16 0350)		\$141.57
Weed spray, truck, non-aquatic area, nox. [DMG]		\$62.72
	<b>Total Mulch Application Cost/Acre</b>	\$277.29

## **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:
 15.68
 Cost /Acre:
 \$1,242.35

 Estimated Failure Rate:
 40%
 Cost /Acre\*:
 \$1,242.35

\*Selected Replanting Work Items: FERTILIZING,TILLING,SEEDING,MU

LCHING

Initial Job Cost: \$19,480.05

Reseeding Job Cost: \$7,792.02

Total Job Cost: Job Hours: 24.00

# **REVEGETATION WORK**

Task description:	Reveg of unrelea	sed reclaimed are	as areas			
Orchard Mesa Aggr	Per	rmit Action: 04-20	023		Permit/Job#:	M1995005
PROJECT IDENTIF	<u>ICATION</u>					
Task #: 04B	State:	Colorado		Abb	reviation: N	None
Date: 5/3/2023	County:	Mesa		_		M005-04b
User: ACY				<del>_</del>		
Agency or orga	nization name:DR	RMS				
ERTILIZING						
Aaterials						
Description		Units / Acre	Unit	Cost	/ Unit	Cost /Acre
-				\$		\$
				T-4-	1 E - 411	
				Tota	al Fertilizer Materials	
					Cost/Acre	\$0.00
Description						Cost /Acre
						\$
		Total	Fertilizer A	pplication	Cost/Acre	\$0.00
<u> TILLING</u>						
Description						Cost /Acre
Disc harrowing, 6" de	ep (MEANS 32 91 13	3.23 6100)				\$117.18
					G 4/1	
			To	otal Tilling	g Cost/Acre	\$117.18
SEEDING						
G IM				Rate –	Soods	Coat /A sees
Seed Mix				PLS	Seeds per SQ.	Cost /Acre
				LBS /	FT FQ.	
Indian Ricegrass - Pal	oma			Acre 3.25	10.52	\$36.16
I moran racegrass - I al	VIII			J.4J	10.52	Ψ50.10

Sand Dropseed

Saltbush, Four Wing

Saltbush, Shadscale

Galleta

Winter Fat

Crested Wheatgrass - Fairway

\$2.44

\$8.05

\$44.70

\$12.50

\$10.00

\$20.50

\$134.34

0.25

2.00

2.00

1.00

1.00

1.00

10.50

**Totals Seed Mix** 

29.84

9.18

7.30

1.38

1.49

2.55

62.26

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
Hay, delivered {MEANS 31 25 14.16 1200}	1.00	TON	\$421.36	\$421.36
Herbicide - 2,4D @ 1.0 pt/ac	1.00	ACRE	\$3.04	\$3.04
Total Mulch Materials Cost/Acre				\$424.40

**Application** 

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$73.00
Power mulcher (MEANS 32 91 13.16 0350)		\$141.57
Weed spray, truck, non-aquatic area, nox. [DMG]		\$62.72
	<b>Total Mulch Application Cost/Acre</b>	\$277.29

## **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: 4.32 Cost /Acre:  $\frac{\$1,185.21}{0\%}$ \*Selected Replanting Work Items: NONE

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

\$5,120.11

\$0.00

\$5,120

\$8.00

# EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description: Ini	tial Mobilization			
e: Orchard Mesa Aggr	Permit	Action: 04-2023	Permit/Jo	bb#: M1995005
PROJECT IDENTIFICAT	<u>ION</u>			
Task #: 05A	State: C	olorado	Abbreviation:	None
Date: 5/3/2023	County: N	<b>l</b> esa	Filename:	M005-05a
User: ACY	=			
Agency or organizatio	n name: DRMS	S		
<u>EQUIPMENT TRANSPOR</u>	T RIG COST			
			Shift basis:	1 per day
			Cost Data Source:	CRG Data
Truck Tractor Dag	orintian: CENI	EDIC ON HIGHW	AY TRUCK TRACTOR, 6X4,	DIEGEI DOWEDED
Truck Tractor Desc	Aiption. GENI		400 HP (2ND HALF, 2006)	DIESEL FOWERED,
Truck Trailer Desc	erintion:		IG GOOSENECK, DROP DEC	CK EQUIPMENT
Truck Trunci Best	oription.		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/Hours	\$27.71	\$27.71	\$27.71	

#### **NON ROADABLE EQUIPMENT:**

Helper Cost/Hour:
Total Unit 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 D8T - 8SU	53.08	\$137.95	\$136.92	1	\$274.87	\$136.92	\$250.00
CAT 972H	28.00	\$53.96	\$101.82	1	\$155.78	\$101.82	\$250.00
Drill/Broadcast	25.00	\$6.25	\$68.22	1	\$74.47	\$68.22	\$250.00
Seeder with							
Tractor							
Power Mulcher	6.00	\$14.79	\$68.22	1	\$83.01	\$68.22	\$250.00
(Bowie LD-90)							

\$20.22

\$101.82

\$20.22

\$136.92

Subtotals: \$588.13 \$375.18 \$1,000.00

## **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	\$80.76	1	\$80.76	\$80.76

Subtotals:	\$80.76	\$80.76

## **EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region:

Total one-way travel distance:

Average Travel Speed:

GRAND JUNCTION
miles

5.00
mph

#### **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):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.22	0.22

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

Total job time:	2.44	Hours
Total job cost:	\$3,408	

# EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description:	Secondary Mobiliz	ation		
ite: Orchard Mesa Aggr	Permi	it Action: 04-2023	Permit/Jol	o#: M1995005
PROJECT IDENTIFICA	<u>TION</u>			
Task #: 05B	State: C	Colorado	Abbreviation:	None
Date: 5/3/2023	County: N	Mesa	Filename:	M005-05b
User: ACY	_			
Agency or organizat	ion name: DRM	S		
8,8				
EQUIPMENT TRANSPO	ORT RIG COST			
	THE COST			
				1 per day
			Cost Data Source:	CRG Data
Truck Tractor De	escription: GEN	ERIC ON-HIGHWA	AY TRUCK TRACTOR, 6X4,	DIESEL POWERED.
	<b>r</b>		400 HP (2ND HALF, 2006)	
Truck Trailer De	escription:		G GOOSENECK, DROP DEC	K EOUIPMENT
	r		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	
Helner 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		
Drill/Broadcast	25.00	\$6.25	\$68.22	1	\$74.47	\$68.22	\$250.00
Seeder with							
Tractor							
Power Mulcher	6.00	\$14.79	\$68.22	1	\$83.01	\$68.22	\$250.00
(Bowie LD-90)							

\$101.82

\$136.92

Subtotals: \$157.48 \$136.44 \$500.00

# **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.	\$80.76	1	\$80.76	\$80.76
Crew				

Cubtotala	¢00.76	¢00.76	
Subtotals:	\$80.76	\$80.76	

## **EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region:

Total one-way travel distance:

Average Travel Speed:

GRAND JUNCTION
miles

5.00
mph

#### **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):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.22	0.22

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

Total job time:	2.44	Hours
Total job cost:	\$1,398	