

Department of Natural Resources

January 3, 2023

Jason Burkey Oldcastle SW Group, Inc. dba United Companies of Mesa County 2273 River Road Grand Junction, CO 81502-3609

Re: Chambers Pit - File No. M-1979-205 Oldcastle SW Group, Inc. dba United Companies of Mesa County **Surety Increase (SI-1)** Chambers Pit, M-1979-205 Surety Increase 2023.

Dear Jason Burkey:

On January 3, 2023 the Division of Reclamation, Mining and Safety increased the current Financial Warranty for this permit to \$297,269.00, in accordance with Rule 4.2.1 of the Rules and Regulations. This is an increase of \$85,269.00.

Please see the November 1, 2022 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 (January 3, 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 March 4, 2023, if the amount of any increased Financial Warranty has not been provided.

Bond Held:	\$212,000.00
Prior Liability:	\$212,000.00
Change in Liability:	\$85,269.00
Revised Liability:	\$297,269.00
Prior Permit Acreage:	110.00



Change in Permit Acreage:	0.00
Revised Permit Acreage:	110.00
Prior Affected Acreage:	110.00
Change in Affected Acreage:	0.00
Revised Affected Acreage:	110.00

If you have any questions, please contact me by telephone at (303) 866-3567 x 8185, or by email at Clayton.wein@state.co.us.

Sincerely,

Clayton C. Wein

Environmental Protection Specialist

cc: Jason Burkey

M-GR-04

COST SUMMARY WORK

]	Task descrip	otion:	Post Inspection	n Update				
Site:	Chamber	s Pit	F	Permit Action:	11-2022	Permit/Jol	o#: <u>M1979205</u>	
<u>P</u>]	ROJECT	IDENTIFIC	<u>CATION</u>					
	Task #:	000	States	Colorado		Abbreviation:	None	
	Date:	12/12/2022	County	Garfield		Filename:	M205-000	
	Heer.	CCW		-				

TASK LIST (DIRECT COSTS)

Agency or organization name: DRMS

		Form	Fleet	Task	
Task	Description	Used	Size	Hours	Cost
01a	AM-2 Area 1 Secondary Reveg Wetlands	REVEGE	1	1.00	\$864
01b	AM-2 Area 1 Secondary Reveg Dryland	REVEGE	1	2.00	\$2,587
02a	AM-2 Area 1 Rip access road	RIPPER	1	0.77	\$221
02b	AM-2 Area 1 Transport topsoil for access road	LOADER	1	10.93	\$1,591
02c	AM-2 Area 1 Spread topsoil on access road	DOZER	1	1.00	\$265
02d	AM-2 Area 1 Access Road Reveg Dryland	REVEGE	1	1.00	\$924
03a	AM-2 Area 2 Dewater 12.1 ac pond	PUMPING	1	147.44	\$14,016
04a	AM-2 Area 2 Highwall Reduction	DOZER	1	61.95	\$16,342
05a	AM-2 Area 2 Removal of Scale foundation	DEMOLISH	1	20.00	\$1,991
06a	AM-2 Area 2 Rip compacted areas	RIPPER	1	4.67	\$1,329
07a	AM-2 Area 2 Transport topsoil	LOADER	1	41.11	\$5,981
07b	AM-2 Area 2 Spread topsoil	DOZER	1	7.85	\$2,072
08a	AM-2 Area 2 Reveg Wetlands	REVEGE	1	1.00	\$1,080
08b	AM-2 Area 2 Reveg Dryland	REVEGE	1	8.00	\$8,546
08c	AM-2 Area 2 Trees/Shrubs	REVEGE	1	20.00	\$1,735
09a	Main Dewater 20.17 ac pond	PUMPING	1	261.77	\$24,884
10a	Main Removal of Scale foundation	DEMOLISH	1	20.00	\$6,560
11a	Main Highwall Reduction	DOZER	1	20.91	\$5,515
11b	Main Grading import stockpiles on pit floor	DOZER	1	15.64	\$4,127
12a	Main-Transport topsoil from Glen Pit	TRUCK1	1	28.90	\$37,910
12b	Main Spread topsoil	DOZER	1	31.91	\$8,417
13a	Main Reveg Wetlands	REVEGE	1	2.50	\$4,679
13b	Main Reveg Dryland	REVEGE	1	30.00	\$54,870
13c	Main Trees/Shribs	REVEGE	1	20.00	\$516
14a	Mobilization of Equipment	MOBILIZE	1	2.34	\$6,428
14b	Secondary mobilization of equipment	MOBILIZE	1	2.34	\$1,376
		SUBTO	OTALS:	765.03	\$214,826

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$4,339
Performance bond:	1.05	Total =	\$2,256
Job superintendent:	382.52	Total =	\$28,738
Profit:	10.00	Total =	\$21,483

TOTAL O & P = $\frac{$321,465}{$56,816}$

Cost Summary Worksheet Cont a	1 ask	rr 000		1 age 2 01 2
	CONT	RACT AMOUNT	(direct + O & P) =	\$271,642
LEGAL - ENGINEERING - PROJECT MANAC	SEMENT	:		
Financial warranty processing (legal/related	l costs):	\$500	Total =	\$500
Engineering work and/or contract/bid preparents		4.25	Total =	\$11,545
Reclamation management and/or adminis	tration:	5.00	- -	\$13,582
CONTING	ENCY:	0.00	Total =	\$0
		TOTAL IN	DIRECT COST =	\$82,443
TO	TAL BO	ND AMOUNT (di	irect + indirect) =	\$297,269

REVEGETATION WORK

_	Chambers Pit	Pern	nit Action: 11-2	.022	Permit/Job#	t: <u>M1979205</u>
R	OJECT IDENTIFICATI	ON				
	Task #: 01A Date: 12/12/2022 User: CCW	State:	Colorado Garfield			None M205-01a
	Agency or organization	n name: DRM	MS			
E	<u>CRTILIZING</u>					
1a	terials		*** ** /	T	ı	T
	Description		Units / Acre	Unit	Cost / Unit	Cost /Acre
L					\$	\$
					Total Fertilizer Materials Cost/Acre	\$0.00
Ар	plication					
ſ						
	Description					Cost /Acre
	Description					Cost /Acre
	Description		Tota	l Fertilizer A	application Cost/Acre	
	Description LLING		Tota	l Fertilizer A	application Cost/Acre	\$
			Tota	l Fertilizer A	application Cost/Acre	\$
	LLING Description Disc harrowing, 6" deep (ME		23 6100)	l Fertilizer A	application Cost/Acre	\$ \$0.00 Cost /Acre \$117.18
	LLING Description		23 6100)	l Fertilizer A	application Cost/Acre	\$ \$0.00 Cost /Acre
<u>[]</u>	LLING Description Disc harrowing, 6" deep (ME		23 6100)		application Cost/Acre	\$ \$0.00 Cost /Acre \$117.18
<u>FII</u>	LLING Description Disc harrowing, 6" deep (ME		23 6100)			\$ \$0.00 Cost /Acre \$117.18 \$290.40
TII	LLING Description Disc harrowing, 6" deep (ME) Weed control spraying (MEA)		23 6100)	To		\$0.00 Cost /Acre \$117.18 \$290.40

Beaked Sedge

Canada Wildrye

Nebraska Sedge

Hardstem Bulrush

Slender Wheatgrass - Pryor

\$220.00

\$27.10

\$598.80

\$166.50

\$10.63

\$1,104.03

1.00

2.50

4.00

1.00

2.50

13.00

Totals Seed Mix

8.32

6.60

37.19

20.94

101.92

9.13

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
Herbicide - Glyphosate (Journey)@ 1.0 pt/ac	1.00	ACRE	\$4.61	\$4.61
Herbicide - Plateau @ 1.0 pt/ac	1.00	ACRE	\$11.21	\$11.21
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$421.36	\$842.72
Total Mulch Materials Cost/Acre				\$858.54

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, aquatic area, nox. [DMG]		\$62.72
	Total Mulch Application Cost/Acre	\$277.29

NURSERY STOCK PLANTING

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

JOB TIME AND COST

 No. of Acres:
 0.3
 Cost / Acre:
 \$2,879.44

 Estimated Failure Rate:
 0%
 Cost / Acre*:
 \$2,879.44

*Selected Replanting Work Items: TILLING,SEEDING,MULCHING

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

\$863.83

\$0.00

\$864

1.00

REVEGETATION WORK

Chambers Pit	F	'ermit A	Action: <u>11-2</u>	022	Permit/Job#	: <u>M1979205</u>
ROJECT IDEN	[IFICATION					
Task #: 01B	State:	Col	orado		Abbreviation:	None
Date: 12/12 User: CCW	J	Gar	field		Filename:	M205-01b
Agency or	organization name:I	ORMS				
<u>FERTILIZING</u>						
Aaterials			Units /			
Description			Acre	Unit	Cost / Unit	Cost /Acre
					\$	\$
					Total Fertilizer Materials Cost/Acre	\$0.00
Application Description						Cost /Acre
						\$
			Total	l Fertilizer A	Application Cost/Acre	\$0.00
TILLING			Tota	l Fertilizer A	application Cost/Acre	\$0.00
			Tota	l Fertilizer A	Application Cost/Acre	\$0.00
Description Disc harrowing, 6	5" deep (MEANS 32 91		5100)	l Fertilizer A	application Cost/Acre	Cost /Acre \$117.18
Description Disc harrowing, 6	5" deep (MEANS 32 91 aying (MEANS 31 31 1		5100)	l Fertilizer A	application Cost/Acre	Cost /Acre

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Paloma	3.00	9.71	\$33.38
Crested Wheatgrass - Ephraim	1.50	6.89	\$6.49
Canby Bluegrass - Canbar	0.50	10.63	\$5.13
Canada Wildrye	1.25	3.30	\$13.55
Slender Wheatgrass - Pryor	1.25	4.56	\$5.31
Streambank Wheatgrass - Sodar	1.50	4.89	\$8.55
Totals Seed Mix	9.00	39.98	\$72.40

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
Herbicide - Glyphosate (Journey)@ 1.0 pt/ac	1.00	ACRE	\$4.61	\$4.61
Herbicide - Plateau @ 1.0 pt/ac	1.00	ACRE	\$11.21	\$11.21
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$421.36	\$842.72
Total Mulch Materials Cost/Acre				\$858.54

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
	Total Mulch Application Cost/Acre	\$277.29

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:
 1.4
 Cost / Acre:
 \$1,847.81

 Estimated Failure Rate:
 0%
 Cost / Acre*:
 \$1,847.81

*Selected Replanting Work Items: TILLING,SEEDING,MULCHING

Initial Job Cost: \$2,586.93

Reseeding Job Cost: \$0.00

Total Job Cost: Job Hours: \$2,587

2.00

BULLDOZER RIPPING WORK

Task description:	AM-2 Area 1 Rip access ro	ad			
Site: Chambers Pit	Permit Action	: 11-2022		Permit/Job#: M	1979205
PROJECT IDENTIF	<u>ICATION</u>				
Task #: 02A	State: Colorado	ı	Abbre	eviation: None	
Date: 12/12/202			 Fi	ilename: M205	-
User: CCW					
Agency or orga	nization name: DRMS				
HOURLY EQUIPME	ENT COST				
Basic Machin	e: Cat D8T - 8SU		Horsepower:	310	
Ripper Attachmen	:		Shift Basis:	1 per day	
			Data Source:	(CRG)	
Cost Breakdown:					
			Utilization %		
	ership Cost/Hour:	\$124.85	NA		
	rating Cost/Hour:	\$97.63	100		
	ership Cost/Hour:	\$13.10	NA 100		
	rating Cost/Hour:erator Cost/Hour:	\$7.30 \$41.30	100 NA		
-	Unit Cost/Hour:	\$284.18	NA		
Total	Fleet Cost/Hour: \$28	34.18			
	Bank Volume: Rip Depth (ft):	2.00	BCY Volume:	NA 1,613	BCY or CCY
Source	e of estimated quantity: 1800	LF x 12' W			
HOURLY PRODUCT	<u> TION</u>				
Seismic:					
	Seismic Velocity:	NA	feet/seco	ond	
Area:					
<u>1 11 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 </u>	Average Ripping Depth:	2.56	feet/pass	S	
	Average Ripping Width:	7.08	feet/pass	S	
	Average Ripping Length:	200.00	feet/pass		
	Average Dozer Speed:	88.00	feet/min		
1	Average Maneuver Time:	0.25	minutes/		
	Production per unit area:	0.773	acres/ho	ur	
Job Condition Correction	Factors				
Unadjusted	Hourly Unit Production:	0.773	Acres/hr	•	
	Site Altitude:	5,320	feet		
	Altitude Adj:	1.00	(CAT H	/	
	Job Efficiency:	0.83	(1 shift/o		
	Net Correction:	0.83	multiplie	er -	
	djusted Hourly Unit Production:		Acres/hr		
Ac	djusted Hourly Fleet Production:	0.64	Acres/hr		
JOB TIME AND COS	<u>ST</u>				
Fleet size:	1 Grader(s)	Total job tim	e: <u>0</u>	0.78	Hours
Unit cost: \$442	9.852 Per acre	Total job cos	st· \$	221	

WHEEL LOADER – LOAD AND CARRY WORK

Task description:	AM-2 Area 1 Transport to	psoil for access ro	oad		
te: Chambers Pit	Permit Action	:11-2022		Permit/Job#	#: <u>M1979205</u>
PROJECT IDENTIFICA	ATION				
Task #: 02B Date: 12/12/2022 User: CCW	State: Colorado County: Garfield			reviation: _ Filename: _	None M205-02b
Agency or organiza	tion name: DRMS				
HOURLY EQUIPMENT	COST				
	AT 972H OPS Cab		Horsepower: Shift Basis: Data Source:	1 pe	87 er day RG)
Cost Breakdown:	ı	TT/11'- /' 0/			
Ownership Cost/Hou Operating Cost/Hou Operator Cost/Hou Total Unit Cost/Hou	\$50.78 ar: \$40.71	Utilization % NA 100 NA	_ _ _		
Total Fleet Cost/Ho	<u> </u>				
MATERIAL QUANTIT	<u>ES</u>				
Initial volume: 810 Loose volume:	903 CCY	Swell facto	or: 1.115		
	stimated volume: 1800FL ated swell factor: Cat Han	x 12'W x 12" D dbook			
HOURLY PRODUCTIO	<u>N</u>				
Loader Cycle Time:	Unadjusted Basic	•	, dump, neuver):	0.525	minutes
Cycle Time Factors				or (min.)	Source
Material:	Material 3/4" to 6" diamet	ter 0.00	0	.000	(Cat HB)
Stockpile:	Conveyor or dozer piled 1 0.00	0 ft. high and up	0	.000	(Cat HB)
Truck Ownership:	Common ownership of tru	icks and loaders -	-0	0.040	(Cat HB)
Operation:	Constant operation -0.04		-0	0.040	(Cat HB)
Dump Target:	Nominal target 0.00			.000	(Cat HB)
	•	ele Time Adjustme ed Basic Cycle Tir		.445	minutes minutes
Rolling Resistance – Road Co	onditions	-			
Haul:	Soft, rutted dirt, no maintena	ance or water 8" t	ire nenetratio	n 14	
	Soft, rutted dirt, no maintena				
	,,	, 5	1		

Haul and Return Time

	Length (feet)	Grade Res. (%)	Rolling Res. (%)	Total Res. (%)	Travel Time (minutes)	Source
Haul Route:	1000	0.00	14.00	14.00	1.8047	(Cat HB)
Return Route:	1000	0.00	14.00	14.00	1.4657	(Cat HB)

Total Travel Time:	3.2704	minutes
Total Cycle Time:	3.7154	minutes

Load Bucket Capacity

Rated Capacity:	5.60	LCY (heaped)	
Bucket Fill Factor:	1.100	Other - rock/dirt mixtures	(100-120%) 1.100
Adjusted Capacity:	6.16	LCY	

Job Condition Correction Factors

Site Altitude: 5320 feet

		Source
Altitude Adj:	1.00	(CAT HB)
Job Efficiency:	0.83	(1 shift/day)
Net Correction:	0.83	multiplier

Unadjusted Hourly Unit Production:	99.48	LCY/Hour
Adjusted Hourly Unit Production:	82.57	LCY/Hour
Adjusted Hourly Fleet Production:	82.57	LCY/Hour

JOB TIME AND COST

Fleet size:	1	Loader(s)	Total job time:	10.94	Hours
Unit cost:	\$1.762	/LCY	Total job cost:	\$1,591	

BULLDOZER WORK

Task description: AM-2 A	Area 1 Spread topsoil o	n access road		
: Chambers Pit	Permit Action:	11-2022	Permit/Jo	b#: <u>M1979205</u>
PROJECT IDENTIFICATION				
Task #: 02C Date: 12/12/2022 User: CCW	State: Colorado County: Garfield		Abbreviation: Filename:	None M205-02c
Agency or organization nar	me: DRMS			
HOURLY EQUIPMENT COST	<u>r</u>			
Basic Machine: Horsepower: Blade Type: Attachment: Shift Basis: Cat D8T - 8SU 310 Semi-Univers NA 1 per day				
Data Source: (CRG)				
Cost Breakdown:	*	<u>Utilization %</u>		
Ownership Cost/Hour: Operating Cost/Hour:	\$124.85 \$97.63	NA 100		
Ripper own.	\$0.00	NA		
Cost/Hour: Ripper op. Cost/Hour:	\$0.00	0		
Operator Cost/Hour:	\$41.30	NA		
Total Fleet Cost/Hour: \$263.78 MATERIAL QUANTITIES Initial Volume: 919		_		
Swell factor: 1.000 Loose volume: 919 LCY				
Source of estimated volume: Source of estimated swell factor:	Transported volume Cat Handbook			
HOURLY PRODUCTION				
) feet 400.0 LCY/hr	_		
Materials consistency description:	Loose stockpile 1.2			
Average push 0 % gradient:				
Average site altitude: 5,320 fee	et			
Material weight: 2,100 lbs	s/LCY		<u> </u>	
Weight description: Earth - L	oam			
Job Condition Correction Factor		Source		

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:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.095	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.6544

Adjusted unit production:
Adjusted fleet production:

916.16 LCY/hr

916.16 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.288/LCY

Total job time: 1.00 Hours
Total job cost: \$265

REVEGETATION WORK

: _	Chambers Pit	Permit Action: 11-2022 Permit/Job#				: <u>M1979205</u>
PR	OJECT IDENTIFI	<u>CATION</u>				
	Task #: 02D	State:	Colorado		Abbreviation:	None
	Date: 12/12/2022 User: CCW	County:				M205-02d
		ization name: DR	MS			
₹E	<u>RTILIZING</u>					
Ma	terials		Units /			
	Description		Acre	Unit	Cost / Unit	Cost /Acre
					\$	\$
					Total Fertilizer Materials Cost/Acre	\$0.00
Γ	plication Description					Cost /Acre
Total Fertilizer Application Cost/Acre					\$0.00	
	LLING					
						Cost /Acre
	Description	p (MEANS 32 91 13	3.23 6100)			Cost /Acre \$117.18
		p (MEANS 32 91 13 (MEANS 31 31 16.	3.23 6100) 13 3100)			

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Paloma	3.00	9.71	\$33.38
Crested Wheatgrass - Ephraim	1.50	6.89	\$6.49
Canby Bluegrass - Canbar	0.50	10.63	\$5.13
Canada Wildrye	1.25	3.30	\$13.55
Slender Wheatgrass - Pryor	1.25	4.56	\$5.31
Streambank Wheatgrass - Sodar	1.50	4.89	\$8.55
Totals Seed Mix	9.00	39.98	\$72.40

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
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Herbicide - Plateau @ 1.0 pt/ac	1.00	ACRE	\$11.21	\$11.21
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$421.36	\$842.72
Total Mulch Materials Cost/Acre				\$858.54

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
	Total Mulch Application Cost/Acre	\$277.29

NURSERY STOCK PLANTING

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

JOB TIME AND COST

 No. of Acres:
 0.5
 Cost / Acre:
 \$1,847.81

 Estimated Failure Rate:
 0%
 Cost / Acre*:
 \$1,847.81

*Selected Replanting Work Items: TILLING,SEEDING,MULCHING

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

\$923.91

\$0.00

\$924

1.00

PUMPING WORK

Task description:	AM-2	Area 2 Dewater	12.1 ac pond			
Site: Chambers Pit		Permit Ac	tion: <u>11-20</u>	22	Permit/Job	#: <u>M1979205</u>
PROJECT IDENTIFI	CATION					
Task #: 03A Date: 12/12/2022 User: CCW	2	State: Color County: Garfie			Abbreviation: Filename:	None M205-03a
Agency or organ	nization na	me: DRMS				
HOURLY EQUIPME		-				
	Descript	<u> </u>			Quantity	
Make and Model:	Submersible pump - 460v, 8 in.				3	
Attachment 1:	Suction	hose - 6 in. diam.	, 25 ft.		3	
Attachment 2:		ge hose - 6 in. D.,	25 ft.		24	
Labor Unit 1:	Pump op	perator			1	
Horsepower:	95					
	er day	_				
Weight:	0.70	_				
(US	S Tons)					
Cost Breakdown:						
			Utiliza	tion %		
Ownership Cost/I		\$54.69	N			
Operating Cost/I		\$12.69		00		
Operator Cost/I		\$27.68	N	<u>A</u>		
Total Unit Cost/F	Hour:	\$95.06				
Total Fleet Cost/	Hour:	\$95.06				
PUMPING QUANTIT	TIES					
Initial Pond Volu	ume:	242.00			Conversion factor:	325850.5800
Final Pond Volu		78,855,840.36	gallo	ns		
Total Pond Inflow Sur	rface	, ,			Unit inflow rate in	
	Area:	18,800	Sq. ft		gph/sq. ft.:	0.3516
Total Pond Inflow Vol		6,610.08	galloı	าร		
1		•				
Source o	f estimated	l volume: 12.1	ac at 20 ft de	epth		
PUMPING TIME						
Max	imum Pum	p Capacity:	170,0	00	gph/pump	
		ction Head:	5		feet	
Estin	nated Discl	narge Head:	20		feet	
		Total Head:	25		feet	
		p Capacity:	165,6		gph/pump	
	Si	te Altitude:	5,32	0	feet	
A 1°	1.0	G :	40.6.0	0.0	1	
		g Capacity:	496,8		gph	
Initial Unadjusted Pumping Time:		158.		hours		
	Inflow during Initial Pumping: Net Unadjusted Pumping Time:		1,049, 160.3		gallons Hours	
		nent Factor:	1.000		(3% rule)	
		ency Factor:	0.91		(55 min./hr.)	
		nping Time:	147.4		hours	
JOB TIME AND COS	T					
	_			Total job tim	e: 147.44	Hours
Unit cost: \$0.00	00175	/Gallon		Total job cos	st: \$14,016	

BULLDOZER WORK

Task description:	AM-2 Area 2 Highwall Redu	ıction	
te: Chambers Pit	Permit Action:	11-2022 Permit	/Job#: <u>M1979205</u>
PROJECT IDENTII	FICATION		
Task #: 04A Date: 12/12/20 User: CCW	State: Colorado County: Garfield	Abbreviatio Filenam	
Agency or org	ganization name: DRMS		
HOURLY EQUIPM	ENT COST		
	Cat D8T - 8SU	_	
	310	_	
• • • • • • • • • • • • • • • • • • • •	Semi-Universal	_	
	NA per day	_	
	CRG)	_	
Cost Breakdown:		_	
0-11004/11	ф1 2 4.07	<u>Utilization %</u>	
Ownership Cost/Hour		NA 100	
Operating Cost/Hour Ripper owr			
Cost/Hour	r:	NA	
Ripper op. Cost/Hour Operator Cost/Hour	-	0 NA	
Total Fleet Cost/Hour	\$263.78	<u> </u>	
MATERIAL QUAN	<u>TITIES</u>		
Initial Volume: 22	2,222		
	050		
Loose volume: 23	3,333 LCY		
Source of estimated sy factor:	·	F cut/fill 1:1 20'H to 3:1	
HOURLY PRODUC	<u>CTION</u>		
Average push distance Unadjusted hourly production:	75 feet 1,017.1 LCY/hr		
Materials consistency	description: Partly consolidated	stockpile 1.1	
Average push gradient:	0 %		
Average site altitude:	5,320 feet		
Material weight:	3,400 lbs/LCY		
Weight description:	Sand and gravel - Wet		
		Sayurs -	
Job Condition Correction	on ractor	Source	

Operator Skill:	0.750	(AVG.)
Material consistency:	1.100	(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:	0.676	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3703

Adjusted unit production:

Adjusted fleet production:

376.63 LCY/hr

376.63 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.700/LCY

Total job time: 61.95 Hours
Total job cost: \$16,342

DEMOLITION WORK

Site: C	Chambers Pit	Permit Action:	11-2022	Permit	/Job#:	M1979205
OJECT	Γ IDENTIFICAT	<u>ION</u>				
Task #:	05A	State: Colorado		Abbreviation:	None	;
Date:	12/12/2022	County: Garfield		Filename:	M205	5-05a
User:	CCW			•		

UNIT COSTS

Location adjustment: 95.50 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Scale footers	12' x 70'	Demo. and on-site disposal in existing pit, 1.5 ft. x 3 ft Max. 200 ft. push	164.00	LF	\$10.45	\$1,713.80
Scale ramps	2 x 12'W x 20'L	Demo. and on-site disposal in existing pit, 4 in. thick - Max. 200 ft. push	480.00	SF	\$0.77	\$371.52

Subtotal Subtotal (adjusted for Job Hours: 20.00 (unadjusted): \$2,085.32 location): \$1,991.48

BULLDOZER RIPPING WORK

Task description:	AM-2 Area 2 Rip compacte	d areas			
Site: Chambers Pit	Permit Action:	11-2022	Pe	ermit/Job#: M	1979205
PROJECT IDENTIFI	CATION				
Task #: 06A	State: Colorado		Abbrevi	iation: None	
Date: 12/12/2022				name: M205	-
User: CCW	· <u></u>				
Agency or organ	nization name: DRMS				
HOURLY EQUIPME	NT COST				
Basic Machine	e: Cat D8T - 8SU		Horsepower:	310	
Ripper Attachmen	t: 3-Shank Ripper		Shift Basis:	1 per day	
			Data Source:	(CRG)	
Cost Breakdown:					
			Utilization %		
	rship Cost/Hour:	\$124.85	NA		
	ating Cost/Hour:	\$97.63	100		
	rship Cost/Hour:	\$13.10	NA 100		
	ating Cost/Hour: rator Cost/Hour:	\$7.30 \$41.30	100 NA		
-	Unit Cost/Hour:	\$284.18	INA		
		<u>`</u>			
Total	Fleet Cost/Hour: \$284	4.18			
	Bank Volume: cres Rip Depth (ft): of estimated quantity: Staff ex	NA 2.00 stimates	BCY Volume: 9	NA 9,680	BCY or CCY
HOURLY PRODUCT	· ·				
Seismic:					
<u>Scisific.</u>	Seismic Velocity:	NA	feet/secon	d	
Amon	,				
Area:	Average Ripping Depth:	2.56	feet/pass		
	Average Ripping Width:	7.08	feet/pass		
	Average Ripping Length:	200.00	feet/pass		
	Average Dozer Speed:	88.00	feet/minut	e	
	Average Maneuver Time:	0.25	minutes/pa		
	Production per unit area:	0.773	acres/hour		
Job Condition Correction	<u>Factors</u>				
Unadjusted	Hourly Unit Production:	0.773	Acres/hr		
	Site Altitude:	5,320	feet		
	Altitude Adj:	1.00	(CAT HB)		
	Job Efficiency:	0.83	(1 shift/day	y)	
	Net Correction:	0.83	multiplier		
	djusted Hourly Unit Production:	0.64	Acres/hr		
Ad	ljusted Hourly Fleet Production:	0.64	Acres/hr		
JOB TIME AND COS	<u>8T</u>				
Fleet size: 1	Grader(s)	Total job time	e: 4.6	8	Hours
Unit cost: \$442	852 Per acre	Total job cos	t· \$1.3	29	

WHEEL LOADER – LOAD AND CARRY WORK

e: Chambers Pit	AM-2 Area 2 Transport to	эрзон			
<u></u>	Permit Action	n: <u>11-2022</u>		Permit/Jol	b#: <u>M197920</u>
PROJECT IDENTIFICA	<u>ATION</u>				
Task #: 07A	State: Colorado	0	Abbi	reviation:	None
Date: 12/12/2022 User: CCW	County: Garfield		I	Filename:	M205-07a
Agency or organiza	ation name: DRMS				
HOURLY EQUIPMENT	COST				
Basic Machine: C.	AT 972H		Horsepower:		287
Attachment 1: Ro	OPS Cab		Shift Basis:	1 p	er day
			Data Source:	((CRG)
Cost Breakdown:					
		Utilization %			
Ownership Cost/Hou		NA	<u></u>		
Operating Cost/Hou		100	<u></u>		
Operator Cost/Hou		NA			
Total Unit Cost/Hou	ur: \$145.45	=			
Total Fleet Cost/Ho	our: \$145.45				
		depth			
Source of estima	ated swell factor. Cat Ha				
		ndbook			
HOURLY PRODUCTIO	<u> </u>				
HOURLY PRODUCTIO	<u> </u>	c Cycle Time (load	l, dump, neuver):	0.525	minutes
HOURLY PRODUCTIO Loader Cycle Time: Cycle Time Factors	DN Unadjusted Basid	c Cycle Time (load mar	neuver):	0.525 r (min.)	Source
HOURLY PRODUCTIO Loader Cycle Time: Cycle Time Factors Material:	Unadjusted Basic Material 3/4" to 6" diame	c Cycle Time (load mar	neuver): Facto		
HOURLY PRODUCTIO Loader Cycle Time: Cycle Time Factors Material: Stockpile:	Unadjusted Basic Material 3/4" to 6" diame Conveyor or dozer piled 0.00	c Cycle Time (load mar eter 0.00 10 ft. high and up	neuver): Facto 0.	r (min.)	Source
HOURLY PRODUCTIO Loader Cycle Time: Cycle Time Factors Material:	Unadjusted Basic Material 3/4" to 6" diame Conveyor or dozer piled	c Cycle Time (load mar eter 0.00 10 ft. high and up	neuver): Facto 0.	r (min.)	Source (Cat HB)
HOURLY PRODUCTIO Loader Cycle Time: Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	Unadjusted Basic Material 3/4" to 6" diame Conveyor or dozer piled 0.00 Common ownership of tr 0.04 Constant operation -0.04	c Cycle Time (load mar eter 0.00 10 ft. high and up rucks and loaders -	neuver): Facto 0. 00	r (min.) 000 000 .040	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB)
HOURLY PRODUCTIO Loader Cycle Time: Cycle Time Factors Material: Stockpile: Truck Ownership:	Unadjusted Basic Material 3/4" to 6" diame Conveyor or dozer piled 0.00 Common ownership of tr 0.04 Constant operation -0.04 Nominal target 0.00	c Cycle Time (load mar eter 0.00 10 ft. high and up rucks and loaders -	neuver): Facto 0. 00 -0 0.	r (min.) 000 000 .040 .040	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)
HOURLY PRODUCTIO Loader Cycle Time: Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	Unadjusted Basic Material 3/4" to 6" diame Conveyor or dozer piled 0.00 Common ownership of tr 0.04 Constant operation -0.04 Nominal target 0.00 Net Cy	c Cycle Time (load mar eter 0.00 10 ft. high and up rucks and loaders -	neuver): Facto 0. 00 -0 0. ent: -0	r (min.) 000 000 .040 .040 .000 .080	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
HOURLY PRODUCTIO Loader Cycle Time: Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	Unadjusted Basic Material 3/4" to 6" diame Conveyor or dozer piled 0.00 Common ownership of tr 0.04 Constant operation -0.04 Nominal target 0.00 Net Cy	c Cycle Time (load mar eter 0.00 10 ft. high and up rucks and loaders -	neuver): Facto 0. 00 -0 0. ent: -0	r (min.) 000 000 .040 .040	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)
HOURLY PRODUCTIO Loader Cycle Time: Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	Unadjusted Basic Material 3/4" to 6" diame Conveyor or dozer piled 0.00 Common ownership of tr 0.04 Constant operation -0.04 Nominal target 0.00 Net Cy Adjus	c Cycle Time (load mar eter 0.00 10 ft. high and up rucks and loaders -	neuver): Facto 0. 00 -0 0. ent: -0	r (min.) 000 000 .040 .040 .000 .080	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
HOURLY PRODUCTIO Loader Cycle Time: Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	Unadjusted Basic Material 3/4" to 6" diame Conveyor or dozer piled 0.00 Common ownership of tr 0.04 Constant operation -0.04 Nominal target 0.00 Net Cy Adjus	c Cycle Time (load mar eter 0.00 10 ft. high and up rucks and loaders - cycle Time Adjustmented Basic Cycle Time	neuver): Facto	r (min.) 000 000 .040 .040 .000 .080 445	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
HOURLY PRODUCTIO Loader Cycle Time: Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Rolling Resistance – Road Co	Unadjusted Basic Material 3/4" to 6" diame Conveyor or dozer piled 0.00 Common ownership of tr 0.04 Constant operation -0.04 Nominal target 0.00 Net Cy Adjus onditions	c Cycle Time (load mar eter 0.00 10 ft. high and up rucks and loaders - cycle Time Adjustmented Basic Cycle Time annce or water, 8" to	Facto 0.	r (min.) 000 000 .040 .040 000 .080 445	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes

		Length (feet)	Grade Res. (%)	Rolling Res. (%)	Total Res. (%)	Travel Time (minutes)	Source
_	Haul Route:	400	0.00	14.00	14.00	0.7219	(Cat HB)
	Return Route:	400	0.00	14.00	14.00	0.5863	(Cat HB)

Total Travel Time:	1.3082	minutes
Total Cycle Time:	1.7532	minutes

Load Bucket Capacity

Rated Capacity:	5.60	LCY (heaped)	
Bucket Fill Factor:	1.100	Other - rock/dirt mixtures	(100-120%) 1.100
Adjusted Capacity:	6.16	LCY	

Job Condition Correction Factors

Site Altitude: 5320 feet

		Source
Altitude Adj:	1.00	(CAT HB)
Job Efficiency:	0.83	(1 shift/day)
Net Correction:	0.83	multiplier

Unadjusted Hourly Unit Production:	210.82	LCY/Hour
Adjusted Hourly Unit Production:	174.98	LCY/Hour
Adjusted Hourly Fleet Production:	174.98	LCY/Hour

JOB TIME AND COST

Fleet size:	1	Loader(s)	Total job time:	41.12	Hours
Unit cost:	\$0.831	/LCY	Total job cost:	\$5,981	

BULLDOZER WORK

Task description:	AM-2 Area 2 Spread topsoil			
e: Chambers Pit	Permit Action:	11-2022	Permit/Jol	b#: <u>M1979205</u>
PROJECT IDENTIF	<u>ICATION</u>			
Task #: 07B Date: 12/12/202 User: CCW	State: Colorado County: Garfield		Abbreviation: Filename:	None M205-07b
Agency or orga	nnization name: DRMS			
HOURLY EQUIPME	ENT COST			
Horsepower: 31 Blade Type: Se Attachment: N	emi-Universal			
	CRG)			
Cost Breakdown:	010405	<u>Utilization %</u>		
Ownership Cost/Hour: Operating Cost/Hour:		NA 100		
Ripper own. Cost/Hour:	00.02	NA		
Ripper op. Cost/Hour:		0		
Operator Cost/Hour:		NA		
MATERIAL QUANT Initial Volume: 7,1 Swell factor: 1.0 Loose volume: 7,1	95			
Source of estimated vol Source of estimated sw factor:	lume: Transported volume			
HOURLY PRODUC	ΓΙΟΝ			
Average push distance: Unadjusted hourly production:	50 feet 1,400.0 LCY/hr			
Materials consistency d	lescription: Loose stockpile 1.2			
Average push gradient:	0 %			
Average site altitude:	5,320 feet			
Material weight:	2,100 lbs/LCY			
Weight description:	Earth - Loam			
Job Condition Correction	1 Factor	Source		

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:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.095	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.6544

Adjusted unit production:
Adjusted fleet production:

916.16 LCY/hr

916.16 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.288/LCY

Total job time: 7.85 Hours
Total job cost: \$2,072

REVEGETATION WORK

	Permit Action: 11-2022 Permit/Job#:			: <u>M1979205</u>		
ROJECT IDENTIFIC	<u>CATION</u>					
Task #: 08A	State: Col	orado		Abł	oreviation:	None
Date: 12/14/2022				M205-08a		
User: CCW						
Agency or organi	zation name: DRMS					
<u>ERTILIZING</u>						
<u> Iaterials</u>						
Description		Units / Acre	Unit	Cost	t / Unit	Cost /Acre
				\$		\$
				Tota	al Fertilizer Materials Cost/Acre	\$0.00
Description						Cost /Acre
						\$
		Total	Fertilizer A	Application	n Cost/Acre	\$0.00
<u>TILLING</u>						
TILLING Description						Cost /Acre
Description Disc harrowing, 6" deep	p (MEANS 32 91 13.23 6					\$117.18
Description Disc harrowing, 6" deep	p (MEANS 32 91 13.23 6 (MEANS 31 31 16.13 31					
Description Disc harrowing, 6" deep			Т	otal Tillin	g Cost/Acre	\$117.18
Description Disc harrowing, 6" deep			Т	otal Tillin	g Cost/Acre	\$117.18 \$290.40

Alkali Bulrush

Beaked Sedge

Canada Wildrye

Nebraska Sedge

Hardstem Bulrush

Slender Wheatgrass - Pryor

\$81.00

\$220.00

\$27.10

\$598.80

\$166.50

\$10.63

\$1,104.03

2.00

1.00

2.50

4.00

1.00

2.50

13.00

Totals Seed Mix

19.74

8.32

6.60

37.19

20.94

101.92

9.13

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
Herbicide - Glyphosate (Journey)@ 1.0 pt/ac	1.00	ACRE	\$4.61	\$4.61
Herbicide - Plateau @ 1.0 pt/ac	1.00	ACRE	\$11.21	\$11.21
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$421.36	\$842.72
Total Mulch Materials Cost/Acre				\$858.54

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, aquatic area, nox. [DMG]		\$62.72
	Total Mulch Application Cost/Acre	\$277.29

NURSERY STOCK PLANTING

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

JOB TIME AND COST

 No. of Acres:
 0.3
 Cost /Acre:
 \$2,879.44

 Estimated Failure Rate:
 25%
 Cost /Acre*:
 \$2,879.44

*Selected Replanting Work Items: TILLING, SEEDING, MULCHING

Initial Job Cost: \$863.83

Reseeding Job Cost: \$215.96

Total Job Hours: \$1,080

1.00

REVEGETATION WORK

Chambers Pit	Per	Permit Action: 11-2022 Permit/Job#s				
ROJECT IDENTIFIC	<u>CATION</u>					
Task #:08B	State:	Colorado			None	
Date: 12/14/2022 User: CCW	County:	Garfield		Filename:	M205-08b	
Agency or organ	ization name:DR	RMS				
ERTILIZING						
aterials		Timita /	-			
Description		Units / Acre	Unit	Cost / Unit	Cost /Acre	
				\$	\$	
				Total Fertilizer Materials Cost/Acre	\$0.00	
pplication						
Description					Cost /Acre	
					\$	
		Tota	l Fertilizer A	application Cost/Acre	\$0.00	
<u>LLING</u>						
					Cost /Acre	
Description					011710	
Description Disc harrowing, 6" dee Weed control spraying					\$117.18 \$290.40	

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Paloma	3.00	9.71	\$33.38
Crested Wheatgrass - Ephraim	1.50	6.89	\$6.49
Canby Bluegrass - Canbar	0.50	10.63	\$5.13
Canada Wildrye	1.25	3.30	\$13.55
Slender Wheatgrass - Pryor	1.25	4.56	\$5.31
Streambank Wheatgrass - Sodar	1.50	4.89	\$8.55
Totals Seed Mix	9.00	39.98	\$72.40

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
Herbicide - Glyphosate (Journey)@ 1.0 pt/ac	1.00	ACRE	\$4.61	\$4.61
Herbicide - Plateau @ 1.0 pt/ac	1.00	ACRE	\$11.21	\$11.21
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$421.36	\$842.72
Total Mulch Materials Cost/Acre				\$858.54

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
	Total Mulch Application Cost/Acre	\$277.29

NURSERY STOCK PLANTING

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

JOB TIME AND COST

 No. of Acres:
 3.7
 Cost /Acre:
 \$1,847.81

 Estimated Failure Rate:
 25%
 Cost /Acre*:
 \$1,847.81

*Selected Replanting Work Items: TILLING, SEEDING, MULCHING

Initial Job Cost: \$6,836.90

Reseeding Job Cost: \$1,709.22

Total Job Hours: \$8,546

8.00

REVEGETATION WORK

Chambers Pit	Permit A	Action: 11-202	.2		Permit/Joba	#: <u>M1979205</u>
PROJECT IDENTIFICAT	<u>ION</u>					
Task #: 08C	State: Col	orado		Al	obreviation:	None
Date: 12/14/2022		field			Filename:	M205-08c
User: CCW	=					
Agency or organization	on name: DRMS					
FERTILIZING .						
Materials						
Description		Units /	Unit	Co	st / Unit	Cost /Acre
Description		Acre	Unit		St / Cilit	
				\$		\$
				To	otal Fertilizer	
					Materials Cost/Acre	\$0.00
					CUSUACIE	φυ.υυ
Application						
Description						Cost /Acre
•						\$
		Total I	ertilizer	Applicati	on Cost/Acre	\$0.00
<u> </u>						
Description						Cost /Acre
						\$
						-
			,	Total Tilli	ng Cost/Acre	\$0.00
SEEDING						
SEEDING				T		
Seed Mix				Rate – PLS	Seeds	Cost /Acre
NOVE ITEM				LBS /	per SQ.	
				Acre	FT	
						\$
					0.05	
		Totals Se	ed Mix	0.00	0.00	\$0.00
Application						
Description						Cost /Acre
_						\$
						Φ

ĺ		
	Total Seed Application 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/Acr	e \$0.00

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
Buffaloberry, Russet	148	Tubling, 3 cu. in. container (MEANS)	\$1.14	\$2.40	\$168.72
Cottonwood, Narrowleaf	148	Bare root seedling, 11-16 inch ht. (MEANS)	\$2.35	\$2.40	\$347.80
Willow, Sandbar	148	Bare root seedling, 11-16 inch ht. (MEANS)	\$2.35	\$2.40	\$347.80
Sumac, Smooth	148	Tubling, 3 cu. in. container (MEANS)	\$3.54	\$2.40	\$523.92
		Totals	Nursery Stoc	k Cost / Acre	\$1,388.24

JOB TIME AND COST

No. of Acres:	1	Cost /Acre:	\$1,388.24	
Estimated Failure Rate:	25%	Cost /Acre*:	\$1,388.24	Ī
*Selected Replanting Work Items:	NURSERY			

Initial Job Cost: \$1,388.24

Reseeding Job Cost: \$347.06

Total Job Cost: Job Hours: 20.00

PUMPING WORK

Task description:	Main	Dewater 20.17 ac	pond			
Site: Chambers Pit		Permit Ac	tion: 11-20)22	Permit/Job	#: <u>M1979205</u>
PROJECT IDENTIFI	CATIO	<u>N</u>				
Task #: 09A Date: 12/14/2022 User: CCW	2	State: Color County: Garfi			_ Abbreviation: _ Filename: _	None 09a
Agency or organ	nization n	ame: DRMS				
HOURLY EQUIPME						
-	Descri				Quantity	
Make and Model:		rsible pump - 460v	, 8 in.		3	
Attachment 1:		n hose - 6 in. diam.			3	
Attachment 2:	Discha	rge hose - 6 in. D.,	25 ft.		24	
Labor Unit 1:	Pump	operator			1	
Horsepower:	95					
	per day					
<u></u>	0.70					
(U	S Tons)					
Cost Breakdown:						
				ation %		
Ownership Cost/l		\$54.69		NA .		
Operating Cost/l		\$12.69		00		
Operator Cost/		\$27.68	r	JA		
Total Unit Cost/l	Hour:	\$95.06				
Total Fleet Cost/	Hour:	\$95.06				
PUMPING QUANTIT	TIES .					
Initial Pond Vol	ume:	403.40			Conversion factor:	325850.5800
Final Pond Vol		131,448,123.97	gallo	ns	Conversion factor.	323030.3000
Total Pond Inflow Su			8		Unit inflow rate in	
I	Area:	112,000	Sq. f	t.	gph/sq. ft.:	0.3516
Total Pond Inflow Vo		20 270 20				
per I		39,379.20	gallo			
Source of	of estimat	ed volume: 20.1	7 ac at 20 ft	depth		
PUMPING TIME						
Max	imum Pu	mp Capacity:	170,	000	gph/pump	
		Suction Head:	5		feet	
		charge Head:	20)	feet	
		Total Head:	2:	5	feet	
		mp Capacity:	165,		gph/pump	
		Site Altitude:	5,3	20	feet	
		ing Capacity:	496,		gph	
		imping Time:	264		hours	
		tial Pumping:	10,419		gallons	
		imping Time: tment Factor:	285 1.00		Hours (3% rule)	
		iency Factor:	0.91		(5% rule) (55 min./hr.)	
		imping Time:	261		hours	
						
JOB TIME AND COS	<u>, 1</u>			Total job ti	ime: 261.78	Hours
Unit cost: \$0.00	00175	/Gallon		Total job o	cost: \$24,884	

DEMOLITION WORK

Site: C	hambers Pit		Permit Action:	11-2022	Permit	/Job#: _	M1979205
ROJECT	Γ IDENTIFICAT	<u>ION</u>					
Task #:	10A	State:	Colorado		Abbreviation:	None	
Date:	12/14/2022	County:	Garfield		Filename:	M205-	-10a
User:	CCW						

UNIT COSTS

Location adjustment: 95.50 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Scale footers	12' x 70'	Demo. and on-site disposal in existing pit, 1.5 ft. x 3 ft Max. 200 ft. push	164.00	LF	\$10.45	\$1,713.80
Scale ramps	2 x 12'W x 20'L	Demo. and on-site disposal in existing pit, 4 in. thick - Max. 200 ft. push	480.00	SF	\$0.77	\$371.52
Scale- Loading/Hauling	70' x 12'	Loading and 2 mile haul, no salvage - Machine loading	32.00	CY	\$19.40	\$620.80
Scale-Hauling	70' x 12'	Hauling only, per mile, 12-18 CY truck - 50 mph average speed	10.00	MI	\$3.78	\$37.80
Scale house	60'L x 12"W x 10'H	Bldg. (SN) demo./off- site disposal in approved landfill - Max. 15 mile haul	7,200.00	CF	\$0.36	\$2,620.80
Scale house foundation	60' L x 12' W	Demo. and on-site disposal in existing pit, 1.5 ft. x 3 ft Max. 200 ft. push	144.00	LF	\$10.45	\$1,504.80

				Total Cost	
		Subtotal		(adjusted for	
Job Hours:	20.00	(unadjusted):	\$6,869.52	location):	\$6,560.39
				·	

BULLDOZER WORK

Task description:	Main Highwall Reduction			
e: Chambers Pit	Permit Action:	11-2022	Permit/Jol	b#: M1979205
PROJECT IDENTIF	<u>ICATION</u>			
Task #: 11A Date: 12/14/202 User: CCW	State: Colorado County: Garfield		Abbreviation: Filename:	None M205-11a
Agency or orga	nnization name: DRMS			
HOURLY EQUIPME	ENT COST			
Horsepower: 31 Blade Type: Se Attachment: N	emi-Universal	- - -		
	CRG)	_		
Cost Breakdown:		<u>Utilization %</u>		
Ownership Cost/Hour: Operating Cost/Hour:		NA 100		
Ripper own.	00.02	NA		
Cost/Hour: Ripper op. Cost/Hour:		0		
Operator Cost/Hour:	-	NA		
MATERIAL QUANT Initial Volume: 7,5 Swell factor: 1.0	00 50			
Loose volume: 7,8	75 LCY			
Source of estimated vol Source of estimated sw factor:		'H to 3:1		
HOURLY PRODUC	ΓΙΟΝ			
Average push distance: Unadjusted hourly production:	75 feet 1,017.1 LCY/hr	<u> </u>		
Materials consistency d	lescription: Partly consolidated s	stockpile 1.1		
Average push gradient:	0 %			
Average site altitude:	5,320 feet			
Material weight:	3,400 lbs/LCY		<u></u>	
Weight description:	Sand and gravel - Wet			
Job Condition Correction	1 Factor	Source		

Operator Skill:	0.750	(AVG.)
Material consistency:	1.100	(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:	0.676	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3703

Adjusted unit production:

Adjusted fleet production:

376.63 LCY/hr

376.63 LCY/hr

JOB TIME AND COST

376.63 LCY/hr

Fleet size: 1 Dozer(s)

Unit cost: \$0.700/LCY

Total job time: 20.91 Hours
Total job cost: \$5,515

BULLDOZER WORK

Task description: Main (Grading import stockpi	les on pit floor		
: Chambers Pit	Permit Action:	11-2022	Permit/Jo	b#: M1979205
PROJECT IDENTIFICATION				
Task #: 11B Date: 12/14/2022 User: CCW	State: Colorado County: Garfield		Abbreviation: Filename:	None M205-11b
Agency or organization na	me: DRMS			
HOURLY EQUIPMENT COS	<u>r</u>			
Basic Machine: Horsepower: Blade Type: Attachment: Shift Basis: Cat D8T - 8S 310 Semi-Univers NA 1 per day				
Data Source: (CRG)				
Cost Breakdown:		<u>Utilization %</u>		
Ownership Cost/Hour: Operating Cost/Hour:	\$124.85 \$97.63	NA 100		
Ripper own.	\$0.00	NA		
Cost/Hour: Ripper op. Cost/Hour:	\$0.00	0		
Operator Cost/Hour:	\$41.30	NA		
MATERIAL QUANTITIES				
Initial Volume: 5,000 Swell factor: 1.215				
Loose volume: 6,075 LCY				
Source of estimated volume: Source of estimated swell factor:	Staff estimates Cat Handbook			
HOURLY PRODUCTION				
	5 feet ,017.1 LCY/hr	_		
Materials consistency description:	Partly consolidated st	ockpile 1.1		
Average push 0 % gradient:				
Average site altitude: 5,320 fe	et			
Material weight: 3,300 lb	s/LCY		_	
Weight description: Decomp	osed rock - 75% Rock, 2	25% Earth		
Job Condition Correction Factor		Source		

Operator Skill:	0.750	(AVG.)
Material consistency:	1.100	(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:	0.697	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3818

Adjusted unit production:
Adjusted fleet production:

388.33 LCY/hr

388.33 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.679/LCY

Total job time: 15.64 Hours
Total job cost: \$4,127

TRUCK/LOADER TEAM WORK

ite: Chambers Pit		Perm	it Action	: _11-2022		Permit/Job#:	M1979205
PROJECT IDEN	TIFICATION						
Task #: 12A	1/2022		Colorado Garfield				None 1205-12a
	organization nan	ne: DRM	1S				
		-			~1.10.1		
HOURLY EQUII	PMENT COST	-	Γ	: D		sis: 1 per day	
T	ruck Loader Tea	m -Truck:	Cat 73	ipment Descr	iption		
1	Tuck Loader Tea	-Loader:	CAT 9				
Suppo	ort Equipment -L		Cat D8	T - 8SU			
D 114		mp Area:	NA				
Road Ma	aintenance –Moto	or Grader: ter Truck:	NA NA				
	,,,,	ter Truen.	1111				
Cost Breakdown:	Truck/Loa				Equipment		nance Equipmen
	Truck	Loader		oad Area	Dump Area	Motor Grader	Water Truck
Utilization-machine:	100		100	25	NA	NA	
Ownership cost/hour:	\$97.13		3.96	\$124.85	NA	NA	
Operating cost/hour:	\$65.52	\$50	0.78	\$24.41	NA	NA	
%Utilization-riper:	NA NA	<u> </u>	0.00	NA \$0.00	NA NA	NA NA	
Ripper op. cost/hour:	NA NA		0.00	\$0.00	NA NA	NA NA	
Operator cost/hour:	\$32.54		0.71	\$41.30	NA NA	NA NA	
Unit Subtotals:	\$195.19	\$14:		\$190.56	NA NA	NA NA	
Number of Units:	5	Ψ17,	1	1	0	0	
Group Subtotals:	Work:	\$1,121.40		Support:	\$190.56	Maint:	
Total work team cos	t/hour: \$1,311. 9	-		11			
MATERIAL QUA	ANTITIFS						
Initial volume			CCY	Curall	factor: 1.115		
Loose volume		5	LCY	Swell	1actor. 1.113		
Sou	urce of estimated	volume:	Half nec	essary volum	e		
Source	of estimated swe	_	Cat Han	dbook			
	Material Purcha	ise Cost: _ tal Cost:	\$0.00				
	10	iai Cost.	\$0.00				
HOURLY PRO	DUCTION						
Truck Capacity:							
Truck Payload (weig							
Material v	weight: 2,100			Pounds/LCY	7		

Pounds

Description:

Rated Payload:

Earth - Loam

62,000

Truck/Loader Worksheet Con-	t'd	Task # 12A	L		Page 2 of	` 4
Payload Capacity: _	29.52	LCY				
Truck Bed (volume) Basis: Struck Volume: Heaped Volume: Average Volume: Adjusted Volume:	17.10 22.10 19.60 22.10	LCY LCY LCY LCY				
	ruck Volume	Based on Number o	f Loader Passes:	18.48	LCY	
Loading Tool Capacity			D., .1	Cl	NIA	
Rated Capacity: _ Bucket Fill Factor: _ Adjusted Capacity: _	5.600 1.100 6.160	LCY (heaped) Other - rock/d LCY	l	tet Size Class: 00-120%) 1.100	NA	 _
Job Condition Corrections:		S	Site Altitude (ft.):	<u>5320</u> feet		
Altitude Adj: Job Efficiency:	Truck 1.000 0.830	Loader 1.000 0.830	Source (CAT HE (CAT HE	3)		
Net Correction:	0.830	0.830				
Loading Tool Cycle Time:	-	Number of Loading	Tool Passes Req	uired to Fill	2	passes
Excavators and Front Shovels	<u>s:</u>	_	•	Truck:	3	-
Machine Cycle Time vs Selected Value w	rithin this Basi	c Rating: NA				
Track Loaders – N	Material Descr	ription:				
Cycle Time Elements (min.):						
Load: NA	N	Ianeuver: NA		Dump: 0	.100	
Wheel and Track	Loaders - Una	adjusted Basic Load	•	oad, dump, maneuver):	0.525 mir	nutes
Cycle Time Factors				Factor (min.) Source	
Material: Stockpile:		" to 6" diameter 0.0 dozer piled 10 ft. h		0.000	(Cat HB)	
	0.00	•		0.000	(Cat HB)	_
Truck Ownership:	Common ov 0.04	vnership of trucks ar	nd loaders -	-0.040	(Cat HB)	
Operation: Dump Target:		eration -0.04		-0.040 0.000	(Cat HB) (Cat HB)	
Dump rangen	1 (Ollimar tar)		ne Adjustment:	-0.080	minutes	_
			ler Cycle Time: Time per Truck:	0.445 0.990	minutes minutes	
Truck Cycle Time:						
Truck Exchange Time:	0.60	Minutes	Adjusted	for site altitude	: 0.600	Minutes
Truck Load Time:		Minutes		for site altitude		Minutes
Truck Maneuver and Dump Time:	1.00	Minutes	-	for site altitude		Minutes

<u>Truck Travel (Haul & Return) Time:</u> penetration 4.0

Road Condition: Rutted dirt, little maintenance, no water, 1" tire

TT	1	-			
Ha	111	ĸ	α	111	0
ппа	uı	11	w	uı	ν.

Seg#	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	5280.00	0.00	4.00	4.00	1774	3.166

Haul Time: **3.166** minutes Return Route: Haul Distance Grade (%) Roll. Res Total Res Velocity Travel Seg# Time (%) (Ft) (%)(fpm) (min) 5280.00 0.00 4.00 4.00 2855 2.017

Return Time: 2.017 minutes
Total Truck Cycle Time: 7.773 minutes

Loading Tool unit

Production 697.36 LCY/Hour Adjusted for job efficiency: 578.81 LCY/Hour Truck Unit Production 142.65 LCY/Hour Adjusted for job efficiency: 118.40 LCY/Hour

Optimal No. of Trucks: 5 Truck(s) Selected Number of Trucks: 5 Truck(s)

Adjusted hourly truck team production: 591.99 LCY/Hour Adjusted single truck/loader team production: 578.81 LCY/Hour Adjusted multiple truck/loader team production: 578.81 LCY/Hour

JOB TIME AND COST

 Fleet size:
 1
 Team(s)
 Total job time:
 28.90
 Hours

 Unit cost:
 \$2.267
 /LCY
 Total job cost:
 \$37,910

BULLDOZER WORK

Task description: Main Spread topsoil			
te: Chambers Pit Permit Action:	11-2022	Permit/Jo	b#: <u>M1979205</u>
PROJECT IDENTIFICATION			
Task #:12BState:ColoradoDate:12/14/2022County:GarfieldUser:CCW		Abbreviation: Filename:	None M205-12b
Agency or organization name: DRMS			
HOURLY EQUIPMENT COST			
Basic Machine: Cat D8T - 8SU Horsepower: 310 Blade Type: Semi-Universal Attachment: NA Shift Basis: 1 per day			
Data Source: (CRG)			
Cost Breakdown:	<u>Utilization %</u>		
Ownership Cost/Hour: \$124.85 Operating Cost/Hour: \$97.63	NA 100		
Ripper own.	NA		
Cost/Hour: \$0.00 Ripper op. Cost/Hour: \$0.00	0		
Operator Cost/Hour: \$41.30	NA		
Total Fleet Cost/Hour: \$263.78 MATERIAL QUANTITIES Initial Volume: 29,234			
Swell factor: 1.000 Loose volume: 29,234 LCY			
Source of estimated volume: Source of estimated swell factor: 24.16 ac @ 12" depth Cat Handbook			
HOURLY PRODUCTION			
Average push distance: 50 feet Unadjusted hourly 1,400.0 LCY/hr production:			
Materials consistency description: Loose stockpile 1.2			
Average push 0 % gradient:			
Average site altitude: 5,320 feet			
Material weight: 2,100 lbs/LCY		_	
Weight description: Earth - Loam			
Job Condition Correction Factor	Source		

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:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.095	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.6544

Adjusted unit production:
Adjusted fleet production:

916.16 LCY/hr

916.16 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.288/LCY

Total job time: 31.91 Hours
Total job cost: \$8,417

REVEGETATION WORK

Chambers Pit	Permit Action:11-2022 Permit/Job#:			: M1979205		
ROJECT IDENTIFICA	ATION					
Task #: 13A		orado		Ab	breviation:	None
Date: 12/14/2022	Date: 12/14/2022 County: Garfield Filename: M				M205-13a	
User: CCW						
Agency or organiza	ntion name: DRMS					
ERTILIZING						
Materials						
Description		Units / Acre	Unit	Cos	st / Unit	Cost /Acre
				\$		\$
				Tot	tal Fertilizer Materials Cost/Acre	\$0.00
Application Description						Cost /Acre
Description						\$
		Tota	l Fertilizer	Application	on Cost/Acre	\$0.00
<u> </u>						
Description						Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)					\$117.18	
Weed control spraying (MEANS 31 31 16.13 3100)					\$290.40	
			,	Total Tillin	ng Cost/Acre	\$407.58
SEEDING						
				Rate –		
Seed Mix				PLS LBS /	Seeds per SQ.	Cost /Acre

Alkali Bulrush

Beaked Sedge

Canada Wildrye

Hardstem Bulrush Nebraska Sedge

Slender Wheatgrass - Pryor

	2.50	6.60	\$27.10
	4.00	37.19	\$598.80
	1.00	20.94	\$166.50
	2.50	9.13	\$10.63
Totals Seed Mix	13.00	101.92	\$1,104.03

ĒΤ

19.74

8.32

LBS/

Acre

2.00

1.00

\$81.00

\$220.00

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
Herbicide - Glyphosate (Journey)@ 1.0 pt/ac	1.00	ACRE	\$4.61	\$4.61
Herbicide - Plateau @ 1.0 pt/ac	1.00	ACRE	\$11.21	\$11.21
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$421.36	\$842.72
Total Mulch Materials Cost/Acre				\$858.54

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, aquatic area, nox. [DMG]		\$62.72
	Total Mulch Application Cost/Acre	\$277.29

NURSERY STOCK PLANTING

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

JOB TIME AND COST

 No. of Acres:
 1.3
 Cost /Acre:
 \$2,879.44

 Estimated Failure Rate:
 25%
 Cost /Acre*:
 \$2,879.44

*Selected Replanting Work Items: TILLING, SEEDING, MULCHING

Initial Job Cost: \$3,743.27

Reseeding Job Cost: \$935.82

Total Job Cost: \$4,679

2.50

REVEGETATION WORK

PROJECT IDENTIFICATION Task #: 13B	Task description:	Main Reveg Dryland				
Task #: 13B	te: Chambers Pit	Permit Act	ion: <u>11-20</u>	022	Permit/Job	#: <u>M1979205</u>
Date: 12/14/2022 County: Garfield Filename: M205-13b User: CCW Agency or organization name: DRMS FERTILIZING Materials Description Units / Acre Unit Cost / Unit Cost / Acre \$ \$ \$ \$ Total Fertilizer	PROJECT IDENTIFI	[CATION				
FERTILIZING Materials Description Units / Acre Unit Cost / Unit Cost / Acre \$ Total Fertilizer	Date: 12/14/202					
Description Units / Acre Unit Cost / Unit Cost / Acre \$ Total Fertilizer	Agency or organ	nization name: DRMS				
Total Fertilizer	Materials			Unit	Cost / Unit	Cost /Acre
					\$	\$
Cost/Acre \$0.00					Materials	\$0.00
						Cost /Acre
Application Cost /Acr	Description					\$
Description Cost /Acro			Total	Fertilizer A	pplication Cost/Acre	\$0.00

TILLING

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.18
Weed control spraying (MEANS 31 31 16.13 3100)	\$290.40
Total Tilling Cost/Acre	\$407.58

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Paloma	6.00	19.42	\$66.75
Crested Wheatgrass - Ephraim	3.00	13.77	\$12.98
Canby Bluegrass - Canbar	1.00	21.26	\$10.25
Canada Wildrye	2.50	6.60	\$27.10
Slender Wheatgrass - Pryor	2.50	9.13	\$10.63
Streambank Wheatgrass - Sodar	3.00	9.78	\$17.10
Totals Seed Mix	18.00	79.96	\$144.80

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
Herbicide - Glyphosate (Journey)@ 1.0 pt/ac	1.00	ACRE	\$4.61	\$4.61
Herbicide - Plateau @ 1.0 pt/ac	1.00	ACRE	\$11.21	\$11.21
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$421.36	\$842.72
Total Mulch Materials Cost/Acre				\$858.54

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
	Total Mulch Application Cost/Acre	\$277.29

NURSERY STOCK PLANTING

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

JOB TIME AND COST

No. of Acres: 22.86 Cost /Acre: \$1,920.21 Estimated Failure Rate: 25% Cost /Acre*: \$1,920.21

*Selected Replanting Work Items: TILLING, SEEDING, MULCHING

Initial Job Cost: \$43,896.00 Reseeding Job Cost: \$10,974.00 Total Job Cost: **\$54,870** Job Hours: **30.00**

REVEGETATION WORK

ROJECT IDENTIFICATION Task #: 13C	_	Chambers Pit	Perm	nit Action: 11-20)22		Permit/Job#	#: <u>M1979205</u>
Date: 12/14/2022 County: Garfield User: CCW Agency or organization name: DRMS ERTILIZING aterials Description Units / Acre Unit Description Total Fertilizer / ELLING Description Totals Seed Mix Totals Seed Mix	PR	OJECT IDENTIFICAT	<u> TION</u>					
User: CCW Agency or organization name: DRMS ERTILIZING atterials Description Total Fertilizer A ELLING Description Total Seed Mix Totals Seed Mix		Task #: 13C	State:	Colorado		Al	breviation:	None
Agency or organization name: DRMS ERTILIZING aterials Description Units / Acre Unit Description Total Fertilizer / ELLING Description Total Seed Mix Totals Seed Mix		Date: 12/14/2022					Filename:	M205-13c
Description Total Fertilizer A EEDING Seed Mix Totals Seed Mix Description Totals Seed Mix Description		User: <u>CCW</u>	_					
Description Description Total Fertilizer A CLLING Description Totals Seed Mix Totals Seed Mix		Agency or organizati	on name: DRM	MS				
Description Units / Acre Unit Description Total Fertilizer / ULLING Description Total Seed Mix Totals Seed Mix	Œ	RTILIZING						
Description Acre Unit Description Total Fertilizer A LLING Description T EEDING Seed Mix Totals Seed Mix	<u> Iat</u>	terials						
Description Total Fertilizer A LLING Description T EEDING Seed Mix Totals Seed Mix		Description			IInit	Co	st / Unit	Cost /Acre
Description Total Fertilizer A ELLING Description T EEDING Seed Mix Totals Seed Mix Oplication	-	Description		Acre	Unit		st / Unit	Cost/Acre
Description Total Fertilizer A ELLING Description T EEDING Seed Mix Totals Seed Mix Oplication						\$		\$
Description Total Fertilizer A ELLING Description T EEDING Seed Mix Totals Seed Mix Oplication						То	tal Fertilizer	
Description Total Fertilizer A ELLING Description T EEDING Seed Mix Totals Seed Mix Oplication							Materials	00.00
Description Total Fertilizer A ELLING Description T EEDING Seed Mix Totals Seed Mix Oplication							Cost/Acre	\$0.00
Description Total Fertilizer A ELLING Description T EEDING Seed Mix Totals Seed Mix Oplication	hnn	dication						
Total Fertilizer A ELLING Description T EEDING Seed Mix Totals Seed Mix oplication								Cost /Acre
Description TEEDING Seed Mix Totals Seed Mix Oplication	_	Description						
Description TEEDING Seed Mix Totals Seed Mix Oplication								\$
Description TEEDING Seed Mix Totals Seed Mix Oplication				Total	Fertilizer	Application	on Cost/Acre	\$0.00
Description T EEDING Seed Mix Totals Seed Mix oplication	<u></u>							φυ.υυ
EEDING Seed Mix Totals Seed Mix oplication	II	LLING						
EEDING Seed Mix Totals Seed Mix oplication		D						Cost /Acre
Seed Mix Totals Seed Mix pplication		Description						
Seed Mix Totals Seed Mix pplication								\$
Seed Mix Totals Seed Mix pplication					,	Total Tilli	ng Cost/Acre	## A A A
Seed Mix Totals Seed Mix pplication						TOTAL THILL	ng Cust/Acre	\$0.00
Totals Seed Mix	<u>SEI</u>	EDING						
Totals Seed Mix						Rate –		
pplication	5	Seed Mix				PLS	Seeds	Cost /Acre
pplication						LBS /	per SQ. FT	
pplication						Acre	1.	
pplication								\$
pplication				_		0.55	0.00	
•				Totals S	seed Mix	0.00	0.00	\$0.00
Description	\pp	olication						
]	Description						Cost /Acre
								\$

ĺ		
	Total Seed Application 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
Buffaloberry, Russet	44	Tubling, 3 cu. in. container (MEANS)	\$1.14	\$2.40	\$50.16
Cottonwood, Narrowleaf	44	Bare root seedling, 11-16 inch ht. (MEANS)	\$2.35	\$2.40	\$103.40
Willow, Sandbar	44	Bare root seedling, 11-16 inch ht. (MEANS)	\$2.35	\$2.40	\$103.40
Sumac, Smooth	44	Tubling, 3 cu. in. container (MEANS)	\$3.54	\$2.40	\$155.76
	\$412.72				

JOB TIME AND COST

No. of Acres:	1	Cost /Acre:	\$412.72
Estimated Failure Rate:	25%	Cost /Acre*:	\$412.72
*Selected Replanting Work Items:	NURSERY		

Initial Job Cost: \$412.72

Reseeding Job Cost: \$103.18

Total Job Cost: \$516

Job Hours: \$20.00

EQUIPMENT MOBILIZATION/DEMOBILIZATION

rask description: Nio	obilization of Equ	uipment		
e: Chambers Pit	Permi	t Action: 11-20	22 Permit	t/Job#: <u>M1979205</u>
PROJECT IDENTIFICATI	<u>[ON</u>			
Task #: 14A Date: 12/14/2022 User: CCW		Colorado Garfield	Abbreviation Filenam	
Agency or organization	n name: DRM	S		
EQUIPMENT TRANSPOR	T RIG COST			
			Shift basis: _ Cost Data Source: _	1 per day CRG Data
Truck Tractor Desc	ription: GEN	ERIC ON-HIGHV	WAY TRUCK TRACTOR, 62 400 HP (2ND HALF, 2006)	
Truck Trailer Desc	ription:		ING GOOSENECK, DROP D TRAILER (25T, 50T, AND 10	•
Cost Breakdown:				
Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons	
Ownership Cost/Hour:	\$15.25	\$23.06	\$37.58	

\$30.83

\$27.71

\$20.22

\$101.82

\$51.41

\$27.71

\$20.22

\$136.92

NON ROADABLE EQUIPMENT:

Total Unit Cost/Hour:

Operating Cost/Hour:

Operator Cost/Hour:

Helper Cost/Hour:

\$25.26

\$27.71

\$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		
Submersible pump	0.70	\$14.38	\$68.22	1	\$82.60	\$68.22	\$250.00
- 460v, 8 in.							
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
CAT 973D	29.07	\$147.66	\$101.82	1	\$249.48	\$101.82	\$250.00
Cat 365C L 13'-7"	77.56	\$146.89	\$136.92	1	\$283.81	\$136.92	\$250.00
Stick							
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)							

Subtotals: \$1,204.02 \$682.14 \$1,750.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Generic 12-18 cy, 6x4	\$113.40	1	\$113.40	\$113.40
Cat 730	\$194.56	5	\$972.80	\$972.80
Flatbed Truck, 4x2, 30K GVW	\$60.02	1	\$60.02	\$60.02

Task # 14A

Subtotals: \$1,146.22 \$1,146.22

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:

Total one-way travel distance:

Average Travel Speed:

RIFLE

3.00

miles

35.00

mph

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.09	0.09
Return Time (Hours):	0.09	0.09
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.17	0.17

JOB TIME AND COST

Total job cost: 2.34 Hours

Total job cost: \$6,428

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description: Sec	condary mobiliza	tion of equipme	nt		
ite: Chambers Pit	Permit	t Action:11-20	22	Permit/Job#	t: M1979205
PROJECT IDENTIFICAT	<u>ION</u>				
Task #: 14B	State: C	Colorado	Al	obreviation:	None
Date: 12/14/2022 User: CCW	County: G	arfield		Filename:	M205-14b
Agency or organizatio	n name: DRMS	S			
EQUIPMENT TRANSPOR	T RIG COST				
			Shif	t basis:	per day
			Cost Data S		RG Data
Truck Tractor Desc	cription: GENI	ERIC ON-HIGH	WAY TRUCK TRAC 400 HP (2ND HA		IESEL POWERED,
Truck Trailer Desc	cription:	GENERIC FOLD	ING GOOSENECK,	DROP DECK	EQUIPMENT
		7	TRAILER (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 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
Drill/Broadcast Seeder with Tractor	25.00	\$6.25	\$68.22	1	\$74.47	\$68.22	\$250.00
Power Mulcher (Bowie LD-90)	6.00	\$14.79	\$68.22	1	\$83.01	\$68.22	\$250.00

\$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
Flatbed Truck, 4x2, 30K GVW	\$60.02	1	\$60.02	\$60.02

Subtotals:	\$60.02	\$60.02

EQUIPMENT HAUL DISTANCE and Time

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

RIFLE
3.00
miles
35.00
mph

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.09	0.09
Return Time (Hours):	0.09	0.09
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.17	0.17

JOB TIME AND COST

Total job cost: 2.34 Hours

Total job cost: \$1,376