

June 29, 2023

Mark Gardner Whitewater Building Materials Corporation 940 South 10<sup>th</sup> Street Grand Junction, CO 81501

#### Re: Graff Pit, Permit M-2017-027, Updated Reclamation Cost Estimate and Notification of Compliance Requirement

Dear Mr. Gardner:

Based on my inspection in October 2022 and a review of the files for the Graff Pit, I have updated the Reclamation Cost Estimate (RCE) for this permit. The last estimate was completed in 2017, as part of the initial application, and the estimated total was \$30,996.49. As you are aware, this equals the actual surety for this permit.

Some key changes:

- I added a task for pumping out water in the pit prior to grading.
- I added a task for grading the site.
- I added additional indirect costs for a job supervisor and for administrative costs.
- Revegetation costs decreased due to the use of more economical mulching material.

The details of the new estimate are enclosed. The total is \$38, 201. This increase is due to inflation as well as the addition of tasks noted above.

I will add a compliance requirement to this permit stating that additional bond (\$7,205) must be provided by Whitewater Building Materials Corporation prior to the beginning of mining activity at this site.

If you have any questions, please contact me at Rob.Zuber@state.co.us or by calling (720) 601-2276.

Thank you,

Rob Zuber, P.E. Environmental Protection Specialist

Enclosure

Cc: Michael Cunningham, DRMS



### COST SUMMARY WORK

<b>OJECT</b>	<u>IDENTIFIC</u>	CATION			
Task #:	000	State:	Colorado	Abbreviation:	None
Date:	6/28/2023	County:	Delta	Filename:	M027-000
User:	RDZ				

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Dewater lower part of lake prior to grading	PUMPING	1	37.72	\$1,932
01b	Grade 37 acres of site	DOZER	2	10.12	\$6,659
02	Place topsoil on 13 acres	GRADER	2	5.00	\$1,533
05	Dryland seeding/mulching of 13 acres	REVEGE	1	7.00	\$17,747
10	Mobilization/Demobilization	MOBILIZE	1	0.34	\$2,747
		<u>SUBTC</u>	DTALS:	60.18	\$30,618

## **INDIRECT COSTS**

#### OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$618
Performance bond:	1.05	Total =	\$321
Job superintendent:	17.12	Total =	\$1,286
Profit:	10.00	Total =	\$3,062
		TOTAL O & P =	\$5,288
		CONTRACT AMOUNT (direct + O & P) = $($	\$35,906

#### LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): Engineering work and/or contract/bid preparation: Reclamation management and/or administration:	\$500 0.00 5.00	Total = Total =	\$500 \$0 \$1,795
CONTINGENCY:	0.00	Total =	\$0
	TOTAL IN	NDIRECT COST =	\$7,583
TOTAL BO	ND AMOUNT (d	irect + indirect) =	\$38,201

#### PUMPING WORK

Task description:	Dewater lower part of la	ke prior to grading		
: Graff Pit	Permit Actio	on: 2023 Update	Permit/Job#:	M2017027
PROJECT IDENTI	FICATION			
Task #:         01A           Date:         6/28/2023           User:         RDZ	State:   Colora     County:   Delta	do		None M027-01a
Agency or orga	anization name: DRMS			
HOURLY EQUIPM				
	Description		Quantity	
Make and Model:	Centrifugal pump - 90M, 6	in.	1	
Attachment 1:	Suction hose - 6 in. diam., 2		1	
Attachment 2:	Discharge hose - 6 in. D., 2	25 ft.	1	
Labor Unit 1:	Pump operator		1	
Weight:	65 per day 1.05 JS Tons)			
Cost Breakdown:				
	<b></b>	Utilization %		
Ownership Cost		NA 100		
Operating Cost Operator Cost		100 NA		
Total Unit Cost				
Total Fleet Cost				
PUMPING QUANT			~	
Initial Pond Vo Final Pond Vo		gallons	Conversion factor:	325850.5800
Total Pond Inflow Su		ganons	Unit inflow rate in	
	Area: 5,000	Sq. ft.	gph/sq. ft.:	0.0000
Total Pond Inflow Vo		1		
per	Hour: 0.00	gallons		
Source	of estimated volume: <u>5 acre</u>	es of lake, 2 feet deep		
PUMPING TIME				
Ma	ximum Pump Capacity:	90,000	gph/pump	
	Estimated Suction Head:	15	feet	
Est	imated Discharge Head:	1	feet	
	Total Head:	16	feet	
	CPB Pump Capacity:	76,800	gph/pump	
	Site Altitude:	4,800	feet	
Adju	sted Pumping Capacity:	76,800	gph	
	adjusted Pumping Time:	42.43	hours	
	during Initial Pumping:	0	gallons	
	adjusted Pumping Time:	42.43	Hours	
	tude Adjustment Factor: Pump Efficiency Factor:	0.9700 0.9167	(3% rule) (55 min./hr.)	
	djusted Pumping Time:	37.73	hours	
JOB TIME AND CC	• • • •			
JOD TIME AND CU	<u></u>	Total job	time: <u>37.73</u>	Hours
Unit cost: \$0.0	00593 /Gallon	Total job	cost: \$1,932	

Page 1 of 2

### BULLDOZER WORK

		s of site			
Graff Pit	P	ermit Action:	2023 Update	Permit/Job#:	M2017027
PROJECT IDENTI	<b>IFICATION</b>				
Task #:         01B           Date:         6/28/202           User:         RDZ	State County			Abbreviation: Filename:	None M027-01b
Agency or or	ganization name:	DRMS			
HOURLY EQUIPM	MENT COST				
	Cat D9T - 9SU				
1	405				
· · ·	Semi-Universal NA				
	l per day				
	CRG)				
Cost Breakdown:					
o 11 o		<b>A</b> 4 ·	<u>Utilization %</u>		
Ownership Cost/Hour		\$146.30	NA		
Operating Cost/Hour		\$141.41	100		
Ripper own. Cost/Hour		\$0.00	NA		
Ripper op. Cost/Hour		\$0.00	0		
Operator Cost/Hour	r:	\$41.30	NA		
Total unit Cost/Hour: Total Fleet Cost/Hour:					
Total Fleet Cost/Hour: <u>MATERIAL QUAN</u> Initial Volume: _ 30	\$658.02 NTITIES 0,000				
Total Fleet Cost/Hour: <u>MATERIAL QUAN</u> Initial Volume: <u>30</u> Swell factor: <u>1.</u>	\$658.02 NTITIES				
Total Fleet Cost/Hour:         MATERIAL QUAN         Initial Volume:       30         Swell factor:       1.1         Loose volume:       30	\$658.02 NTITIES 0,000 000 0,000 LCY		= 30.000 CY (rounded).		
Total Fleet Cost/Hour:         MATERIAL QUAN         Initial Volume:       30         Swell factor:       1.1         Loose volume:       30         Source of estimated vo	\$658.02 NTITIES 0,000 000 0,000 LCY olume:37 acree	es X 6 inches ndbook	= 30,000 CY (rounded).		
Total Fleet Cost/Hour: <u>MATERIAL QUAN</u> Initial Volume: <u>30</u> Swell factor: <u>1.</u>	\$658.02 NTITIES 0,000 000 0,000 LCY olume:37 acree		= 30,000 CY (rounded).		
Total Fleet Cost/Hour:         MATERIAL QUAN         Initial Volume:       30         Swell factor:       1.1         Loose volume:       30         Source of estimated vo	\$658.02 NTITIES 0,000 000 0,000 LCY olume: <u>37 acree</u> Cat Ha		= 30,000 CY (rounded).		
Total Fleet Cost/Hour:         MATERIAL QUAN         Initial Volume:       30         Swell factor:       1.4         Loose volume:       30         Source of estimated vo       Source of estimated sw         HOURLY PRODUCE       40	\$658.02 NTITIES 0,000 000 0,000 LCY olume: <u>37 acree</u> vell factor: <u>Cat Ha</u> CTION		 = 30,000 CY (rounded).		
Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 30 Swell factor: 1. Loose volume: 30 Source of estimated vo Source of estimated sw HOURLY PRODUC Average push distance:	\$658.02 NTITIES 0,000 000 0,000 LCY olume: <u>37 acree</u> yell factor: <u>Cat Ha</u> CTION : <u>50 feet</u>	ndbook	 = 30,000 CY (rounded).		
Total Fleet Cost/Hour:         MATERIAL QUAN         Initial Volume:       30         Swell factor:       1.4         Loose volume:       30         Source of estimated vo       Source of estimated sw         HOURLY PRODUCE       40	\$658.02 NTITIES 0,000 000 0,000 LCY olume: <u>37 acre</u> yell factor: <u>Cat Ha</u> CTION : <u>50 feet</u>	ndbook	 = 30,000 CY (rounded).	<u>.</u>	
Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 30 Swell factor: 1. Loose volume: 30 Source of estimated vo Source of estimated sw HOURLY PRODUC Average push distance:	\$658.02         NTITIES         0,000         000         000         0,000 LCY         olume:       37 acres         cat Ha         CTION         :       50 feet         duction:       2,110.5 L	ndbook			
Total Fleet Cost/Hour:         MATERIAL QUAN         Initial Volume:       30         Swell factor:       1.1         Loose volume:       30         Source of estimated vo       Source of estimated sw         HOURLY PRODUC       Average push distance:         Unadjusted hourly product       Source	\$658.02           NTITIES           0,000           000           000           0,000 LCY           olume:         37 acression           vell factor:         Cat Ha           CTION         50 feet           duction:         2,110.5 L           description:         Partl	ndbook .CY/hr		·	
Total Fleet Cost/Hour:         MATERIAL QUAN         Initial Volume:       30         Swell factor:       1.1         Loose volume:       30         Source of estimated vo       30         Source of estimated sw       4000000000000000000000000000000000000	\$658.02         NTITIES         0,000         000         000         0,000 LCY         olume:       37 acression         vell factor:       Cat Ha         CTION         :       50 feet         duction:       2,110.5 L         description:       Partl         :       -5 %	ndbook .CY/hr			
Total Fleet Cost/Hour:         MATERIAL QUAN         Initial Volume:       30         Swell factor:       1.1         Loose volume:       30         Source of estimated vo       30         Source of estimated sw       4000000000000000000000000000000000000	\$658.02         NTITIES         0,000         000         0,000 LCY         olume:       37 acression         vell factor:       Cat Ha         CTION         :       50 feet         duction:       2,110.5 L         description:       Partl         :       -5 %         4,800 feet	ndbook .CY/hr			
Total Fleet Cost/Hour:         MATERIAL QUAN         Initial Volume:       30         Swell factor:       1.1         Loose volume:       30         Source of estimated vo       30         Source of estimated sw       4000000000000000000000000000000000000	\$658.02         NTITIES         0,000         000         0,000 LCY         olume:       37 acree         vell factor:       Cat Ha         CTION         :       50 feet         duction:       2,110.5 L         description:       Partl         :       -5 %         4,800 feet       2,100 lbs/LCY         Earth - Loam	ndbook .CY/hr			
Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: <u>30</u> Swell factor: <u>1.1</u> Loose volume: <u>30</u> Source of estimated vo Source of estimated vo Source of estimated sw HOURLY PRODUC Average push distance: Unadjusted hourly proc Materials consistency of Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correctin Operato	\$658.02         NTITIES         0,000         000         000         0,000 LCY         olume:       37 acree         vell factor:       Cat Ha         CTION         :       50 feet         duction:       2,110.5 L         description:       Partl         :       -5 %         4,800 feet       2,100 lbs/LCY         Earth - Loam       Con Factor         or Skill:	ndbook .CY/hr y consolidated 	stockpile 1.1		
Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: <u>30</u> Swell factor: <u>1.1</u> Loose volume: <u>30</u> Source of estimated vo Source of estimated vo Source of estimated sw HOURLY PRODUC Average push distance: Unadjusted hourly proc Materials consistency of Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correctii Operato Material consi	\$658.02         NTITIES         0,000         000         000         0,000 LCY         olume:       37 acressing         vell factor:       Cat Ha         CTION         :       50 feet         duction:       2,110.5 L         description:       Partl         :       -5 %         4,800 feet         2,100 lbs/LCY         Earth - Loam         ion Factor         or Skill:         istency:	ndbook .CY/hr y consolidated  0.750 1.100	stockpile 1.1 <u>Source</u> (AVG.) (CAT HB)		
Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: <u>30</u> Swell factor: <u>1.1</u> Loose volume: <u>30</u> Source of estimated vo Source of estimated vo Source of estimated sw HOURLY PRODUC Average push distance: Unadjusted hourly proc Materials consistency of Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correcti Operator Material consi	\$658.02         NTITIES         0,000         000         000         0,000 LCY         olume:       37 acressing         vell factor:       Cat Ha         CTION         :       50 feet         duction:       2,110.5 L         description:       Partl         :       -5 %         4,800 feet         2,100 lbs/LCY         Earth - Loam         ion Factor         or Skill:         istency:	ndbook .CY/hr y consolidated 	stockpile 1.1 Source (AVG.)		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.700	(FND-MF)
Push gradient:	1.115	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.095	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.7023	
Adjusted unit production: 1,	482.20 LCY/hr	
Adjusted fleet production: 29	<b>064.4</b> LCY/hr	

# JOB TIME AND COST

Fleet size:	2 Dozer(s)
Unit cost:	\$0.222/LCY

Total job time:	10.12 Hours
Total job cost:	\$6,659

### MOTOR GRADER WORK

Fask description:						
Graff Pit	Perm	nit Action:	2023 Update	P	ermit/Job#:	M2017027
PROJECT IDENTI	<b>FICATION</b>					
Task #: 02	State:	Colorado		Abb	reviation:	None
Date: $6/28/202$		Delta			Filename:	M027-02
User: RDZ	<u> </u>	Dena			inchanne.	11027 02
Agency or org	ganization name: DRI	MS				
HOURLY EQUIPM	<u>IENT COST</u>					
Basic Machi	ne: CAT 120M			Horsepower:		138
Ripper Attachme	ent:			Shift Basis:	2 p	er day
11				Data Source:		CRG)
~ ~						,
Cost Breakdown:			1	TT.'11 0/		
<u>^</u>			ф <b>л</b> а аа	Utilization %		
	nership Cost/Hour:		\$73.33	NA 100	-	
1	berating Cost/Hour:		\$51.09	100	-	
	nership Cost/Hour:		\$0.00	NA	-	
	perating Cost/Hour:		\$0.00	NT A	-	
	perator Cost/Hour:		\$28.71	NA	-	
10	tal Unit Cost/Hour:		\$153.13			
MATERIAL QUAN	al Fleet Cost/Hour: <u>NTITIES</u> ea to be graded or ripped	\$ <b>30</b>	6.26			acres
MATERIAL QUAN Total Are	TITIES	l: <u>13.00</u>	application			acres
MATERIAL QUAN Total Are Sou	<b>NTITIES</b> ea to be graded or ripped arce of estimated acreage	l: <u>13.00</u>				acres
MATERIAL QUAN Total Are	NTITIES ea to be graded or ripped arce of estimated acreage CTION	d: <u>13.00</u> e: <u>Permit</u>	application			acres
MATERIAL QUAN Total Are Sou	<b>NTITIES</b> ea to be graded or ripped arce of estimated acreage CTION Average Grader Spe	d: <u>13.00</u> e: <u>Permit</u> eed:	application	mph		acres
MATERIAL QUAN Total Are Sou	<b>NTITIES</b> ea to be graded or ripped arce of estimated acreage CTION Average Grader Spe Selected Applicati	1: <u>13.00</u> e: <u>Permit</u> eed: <u></u> ion:	application 1.50 Finish	grading (0-2.5 m		acres
MATERIAL QUAN Total Are Sou	<b>NTITIES</b> ea to be graded or ripped arce of estimated acreage CTION Average Grader Spe Selected Applicati Selected Blade Ang	1: <u>13.00</u> e: <u>Permit</u> eed: <u></u> gle:	application 1.50 Finish 30	grading (0-2.5 m degrees		acres
MATERIAL QUAN Total Are Sou HOURLY PRODU	<b>NTITIES</b> ea to be graded or ripped arce of estimated acreage CTION Average Grader Spe Selected Applicati Selected Blade Any Effective Blade Leny	d:13.00 e:Permit eed: ion: gle: gth:	application 1.50 Finish 30 10.40	grading (0-2.5 m degrees feet		acres
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MATERIAL QUAN Total Are Sou HOURLY PRODUC Widt Net gradin	NTITIES ea to be graded or ripped arce of estimated acreage CTION Average Grader Spe Selected Applicati Selected Blade Ang Effective Blade Leng h of blade overlap per pa g or ripping width per pa	d: <u>13.00</u> e: <u>Permit</u> eed: <u></u> gle: <u></u> gth: <u></u> ass: <u></u>	application 1.50 Finish 30 10.40 2.00 8.40	grading         (0-2.5 m)           degrees         degrees           feet         feet           feet         feet		acres
MATERIAL QUAN Total Are Sou HOURLY PRODUC Widt Net gradin	NTITIES ea to be graded or ripped arce of estimated acreage CTION Average Grader Spe Selected Applicati Selected Blade Any Effective Blade Leny h of blade overlap per pa g or ripping width per pa ted Hourly Unit Producti	d: <u>13.00</u> e: <u>Permit</u> eed: <u></u> gle: <u></u> gth: <u></u> ass: <u></u>	application 1.50 Finish 30 10.40 2.00 8.40 1.5273	grading (0-2.5 m degrees feet feet	our	acres
MATERIAL QUAN Total Are Sou HOURLY PRODU( Widt Net gradin Unadjust	NTITIES ea to be graded or ripped arce of estimated acreage CTION Average Grader Spe Selected Applicati Selected Blade Any Effective Blade Leny h of blade overlap per pa g or ripping width per pa ted Hourly Unit Producti	1:       13.00         e:       Permit         eed:	application 1.50 Finish 30 10.40 2.00 8.40 1.5273 Si	grading (0-2.5 m degrees feet feet feet acres/ho	our	acres
MATERIAL QUAN Total Are Sou HOURLY PRODUC Widt Net gradin Unadjust	NTITIES ea to be graded or ripped arce of estimated acreage CTION Average Grader Spe Selected Applicati Selected Blade Ang Effective Blade Leng h of blade overlap per pa g or ripping width per pa g or ripping width per pa ted Hourly Unit Production on Factors	1:       13.00         e:       Permit         eed:	application 1.50 Finish 30 10.40 2.00 8.40 1.5273 Si	grading (0-2.5 m degrees feet feet feet acres/ho	our	acres
MATERIAL QUAN Total Are Sou HOURLY PRODUC Widt Net gradin Unadjust tob Condition Correction Altitude Adj:	<b>NTITIES</b> ea to be graded or ripped         ea to be graded or ripped         arce of estimated acreage <b>CTION</b> Average Grader Spe         Selected Applicati         Selected Blade Ang         Effective Blade Leng         h of blade overlap per page         g or ripping width per page         ed Hourly Unit Production         on Factors         1.00	d:       13.00         e:       Permit         eed:	application 1.50 Finish 30 10.40 2.00 8.40 1.5273 Si 3)	grading (0-2.5 m degrees feet feet feet acres/ho	our	acres
MATERIAL QUAN Total Are Sou HOURLY PRODU Widt Net gradin Unadjust Ob Condition Correction Altitude Adj: Job Efficiency:	VTITIES         ea to be graded or ripped         ea to be graded or ripped         arce of estimated acreage         CTION         Average Grader Spectre         Selected Applicati         Selected Blade Ang         Effective Blade Leng         h of blade overlap per pagor ripping width per page         g or ripping width per page         intervention         Actors         1.00         0.85	d:       13.00         e:       Permit         eed:	application 1.50 Finish 30 10.40 2.00 8.40 1.5273 Si 3) v.)	grading (0-2.5 m degrees feet feet feet acres/ho	our	acres
MATERIAL QUAN Total Are Sou HOURLY PRODUC Widt Net gradin Unadjust tob Condition Correction Altitude Adj:	<b>NTITIES</b> ea to be graded or ripped         ea to be graded or ripped         arce of estimated acreage <b>CTION</b> Average Grader Spe         Selected Applicati         Selected Blade Ang         Effective Blade Leng         h of blade overlap per pag         g or ripping width per pag         ed Hourly Unit Production <u>0.85</u> 0.8500	d:       13.00         e:       Permit         eed:	application 1.50 Finish 30 10.40 2.00 8.40 1.5273 Si 3) v.)	grading (0-2.5 m degrees feet feet feet acres/ho te Altitude: <u>4800</u>	our	acres
MATERIAL QUAN Total Are Sou HOURLY PRODUC Widt Net gradin Unadjust Ob Condition Correction Altitude Adj: Job Efficiency: Net Correction:	<b>NTITIES</b> ea to be graded or ripped         ea to be graded or ripped         arce of estimated acreage <b>CTION</b> Average Grader Spectration         Selected Application         Selected Blade Angle         Effective Blade Length         h of blade overlap per particle         g or ripping width per particle         intervention         Actors         1.00         0.85         0.8500         Adjusted Hourly Unit F	d:13.00 e:Permit eed: gle: gth: ass: ass: ion: Source (CAT HI (2sh/d, fai multiplier Production:	application 1.50 Finish 30 10.40 2.00 8.40 1.5273 Si 3) v.) 1.2982	grading (0-2.5 m degrees feet feet feet acres/ho te Altitude: <u>4800</u>	our	acres
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MATERIAL QUAN Total Are Sou HOURLY PRODUC Widt Net gradin Unadjust Ob Condition Correction Altitude Adj: Job Efficiency: Net Correction:	NTITIES         ea to be graded or ripped         erce of estimated acreage         CTION         Average Grader Spe         Selected Applicati         Selected Blade Ang         Effective Blade Leng         h of blade overlap per pag         g or ripping width per pag         math for the selectors         1.00         0.85         0.8500         Adjusted Hourly Unit F         Adjusted Hourly Fleet F	d:13.00 e:Permit eed: gle: gth: ass: ass: ion: Source (CAT HI (2sh/d, fai multiplier Production:	application 1.50 Finish 30 10.40 2.00 8.40 1.5273 Si 3) v.) 1.2982	grading (0-2.5 m degrees feet feet feet acres/ho te Altitude: <u>4800</u>	our	acres
MATERIAL QUAN Total Are Sou HOURLY PRODUC Widt Net gradin Unadjust Ob Condition Correction Altitude Adj: Job Efficiency: Net Correction:	NTITIES         ea to be graded or ripped         erce of estimated acreage         CTION         Average Grader Spe         Selected Applicati         Selected Blade Ang         Effective Blade Leng         h of blade overlap per pag         g or ripping width per pag         math for the selectors         1.00         0.85         0.8500         Adjusted Hourly Unit F         Adjusted Hourly Fleet F	d:13.00 e:Permit eed: gle: gth: ass: ass: ion: Source (CAT HI (2sh/d, fai multiplier Production:	application 1.50 Finish 30 10.40 2.00 8.40 1.5273 Si 3) v.) 1.2982	grading (0-2.5 m degrees feet feet feet acres/hout te Altitude: <u>4800</u>	our feet	acres
MATERIAL QUAN Total Are Sou HOURLY PRODUC Widt Net gradin Unadjust Job Condition Correction Altitude Adj: Job Efficiency: Net Correction:	NTITIES         ea to be graded or ripped         arce of estimated acreage         CTION         Average Grader Spe         Selected Applicati         Selected Blade Ang         Effective Blade Leng         h of blade overlap per pa         g or ripping width per pa         ted Hourly Unit Production         On Factors         1.00         0.85         0.8500         Adjusted Hourly Unit F         Adjusted Hourly Fleet F         OST	d:13.00 e:Permit eed: gle: gth: ass: ass: ion: Source (CAT HI (2sh/d, fai multiplier Production:	application 1.50 Finish 30 10.40 2.00 8.40 1.5273 Si 3) v.) 1.2982 2.5964	grading (0-2.5 m degrees feet feet feet acres/ho te Altitude: <u>4800</u> acres/Hour ccres/Hour	our feet	

## **REVEGETATION WORK**

Task description:		otion:	Dryland seeding/mulching of			
Site:	Graff Pit		Permit Action:	2023 Update	Permit/Job	#: <u>M2017027</u>
<u>P</u> l	ROJECT	IDENTIFIC	CATION			
	Task #: Date:	05 6/28/2023	State: <u>Colorado</u> County: Delta		Abbreviation: Filename:	None M027-05
	User:	RDZ	·			
	Age	ency or organiz	zation name: DRMS			

### **FERTILIZING**

#### Materials

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

### Application

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

#### **TILLING**

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 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
Crested Wheatgrass - Fairway	1.50	6.89	\$6.04
White Sweet Clover	1.50	8.95	\$6.19
Streambank Wheatgrass - Sodar	3.00	9.78	\$17.10
Thickspike Wheatgrass - Critana	3.00	10.61	\$20.63
Saltbush, Four Wing	0.25	0.34	\$3.13
Sumac, Skunkbrush	0.25	0.12	\$5.25
Rabbitbrush, Douglas	0.25	3.73	\$3.63
Totals Seed Mix	9.75	40.42	\$61.95

#### 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 - 2,4D @ 1.0 pt/ac	1.00	ACRE	\$3.04	\$3.04
Straw, delivered {MEANS 31 25 14.16 1200}	1.00	TON	\$421.36	\$421.36
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
	Total Mulch Application Cost/Acre	\$214.57

#### **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: \$1,050.10
Cost /Acre*: \$1,050.10
SEEDING, MULCHING

## EQUIPMENT MOBILIZATION/DEMOBILIZATION

		bilization/Demob	ilization				
: Graff Pit		Permit	Action: 2023	Update	]	Permit/Job#: <u>M</u>	2017027
PROJECT IDE	NTIFICATI	<u>ON</u>					
Task #: 10		State: Co	olorado		Abbre	viation: None	:
Date: 6/2 User: RD	8/2023 Z	County: De	elta		Fi	lename: M027	7-10
Agency	or organization	name: DRMS					
EQUIPMENT 1	TRANSPOR	<u>T RIG COST</u>					
				(	Shift ba Cost Data Sour	1	
Truck	Tractor Desc	ription: GENE	RIC ON-HIGH		JCK TRACTO (2ND HALF,	OR, 6X4, DIESEI 2006)	L POWERED,
Truc	k Trailer Desc	ription: G			SENECK, DR (25T, 50T, AN	OP DECK EQU ID 100T)	IPMENT
Cost Breakdown:							
Available Die C							
Available Rig C		0-25 Tons	26-50 Tons		- Tons		
Ownership	Cost/Hour:	\$15.25	\$23.06	\$3	37.58		
Ownership Operating	Cost/Hour: Cost/Hour:	\$15.25 \$25.26	\$23.06 \$30.83	\$3 \$5	37.58 51.41		
Ownership Operating Operator	Cost/Hour: Cost/Hour: Cost/Hour:	\$15.25 \$25.26 \$27.71	\$23.06 \$30.83 \$27.71	\$3 \$5 \$2	37.58 51.41 27.71		
Ownership Operating Operator Helper	Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	\$15.25 \$25.26 \$27.71 \$0.00	\$23.06 \$30.83 \$27.71 \$20.22	\$3 \$5 \$2 \$2 \$2	37.58           51.41           27.71           20.22		
Ownership Operating Operator Helper	Cost/Hour: Cost/Hour: Cost/Hour:	\$15.25 \$25.26 \$27.71	\$23.06 \$30.83 \$27.71	\$3 \$5 \$2 \$2 \$2	37.58 51.41 27.71		
Ownership Operating Operator Helper Total Unit	Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	\$15.25 \$25.26 \$27.71 \$0.00 \$68.22 <b>/ENT:</b>	\$23.06 \$30.83 \$27.71 \$20.22 \$101.82	\$3 \$5 \$2 \$2 \$2 \$1	37.58       51.41       27.71       20.22       36.92		
Ownership Operating Operator Helper Total Unit NON ROADAB Machine	Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPM Weight/	\$15.25 \$25.26 \$27.71 \$0.00 \$68.22 <b>MENT:</b> Owner ship	\$23.06 \$30.83 \$27.71 \$20.22 \$101.82 Haul Rig	\$3 \$5 \$2 \$2 \$2 \$1 \$1	7.58 51.41 27.71 20.22 36.92 Haul Trip	Return Trip	DOT Permit
Ownership Operating Operator Helper Total Unit NON ROADAB Machine Description	Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPN Weight/ Unit (TONS)	\$15.25 \$25.26 \$27.71 \$0.00 \$68.22 <b>/ENT:</b> Owner ship Cost/hr/ unit	\$23.06 \$30.83 \$27.71 \$20.22 \$101.82 Haul Rig Cost/hr/uni t	Size	87.58 51.41 27.71 20.22 36.92 Haul Trip Cost/hr/ fleet	Cost/hr/ fleet	Cost/ fleet
Ownership Operating Operator Helper Total Unit NON ROADAB Machine	Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: EEEQUIPN Weight/ Unit (TONS) 65.36	\$15.25 \$25.26 \$27.71 \$0.00 \$68.22 <b>IENT:</b> Owner ship Cost/hr/ unit \$165.36	\$23.06 \$30.83 \$27.71 \$20.22 \$101.82 Haul Rig Cost/hr/uni	\$3 \$5 \$2 \$2 \$2 \$1 \$1 Fleet	87.58 51.41 27.71 20.22 36.92 Haul Trip Cost/hr/ fleet \$604.56	Cost/hr/ fleet \$273.84	Cost/ fleet \$500.00
Ownership Operating Operator Helper Total Unit NON ROADAB Machine Description	Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPN Weight/ Unit (TONS)	\$15.25 \$25.26 \$27.71 \$0.00 \$68.22 <b>/ENT:</b> Owner ship Cost/hr/ unit	\$23.06 \$30.83 \$27.71 \$20.22 \$101.82 Haul Rig Cost/hr/uni t	Size	87.58 51.41 27.71 20.22 36.92 Haul Trip Cost/hr/ fleet	Cost/hr/ fleet	Cost/ fleet
Ownership Operating Operator Helper Total Unit NON ROADAB Machine Description Cat D9T - 9SU Drill/Broadcast Seeder with	Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: EEEQUIPN Weight/ Unit (TONS) 65.36	\$15.25 \$25.26 \$27.71 \$0.00 \$68.22 <b>IENT:</b> Owner ship Cost/hr/ unit \$165.36	\$23.06 \$30.83 \$27.71 \$20.22 \$101.82 Haul Rig Cost/hr/uni t \$136.92	\$3 \$5 \$2 \$2 \$1 \$1 Fleet Size 2	87.58 51.41 27.71 20.22 36.92 Haul Trip Cost/hr/ fleet \$604.56	Cost/hr/ fleet \$273.84	Cost/ fleet \$500.00

## **ROADABLE EQUIPMENT:**

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

## **EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region: Total one-way travel distance: Average Travel Speed:	DELTA 3.00 35.00	miles mph
Total Non-Roadable Mob/Demob Cost *	\$2,746.97	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$0.00	

Transportation Cycle Time:

	Non- Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.09	0.09
Return Time (Hours):	0.09	0.09
Loading Time (Hours):	0.00	NA
Unloading Time (Hours):	0.00	NA
Subtotals:	0.17	0.17

#### JOB TIME AND COST

Total job time: 0.34 Hours

Total job cost: \$2,747