November 1, 2016

Ken Skoglund Boyce Land & Cattle Co., LLC P.O. Box 209 Moffat, CO 81143

1313 Sherman Street, Room 215 Denver, CO 80203

COLORADO

Division of Reclamation, Mining and Safety

Department of Natural Resources

### RE: Cotton Creek Pit, Permit No. M-2013-054, Reclamation Costs Update and Notice of Surety Increase (SI-1)

Dear Mr. Skoglund:

In an effort to ensure the Financial Warranty for the above referenced site adequately reflects the actual current costs of fulfilling the requirements of the approved reclamation plan, the Colorado Division of Reclamation, Mining and Safety (Division) has updated the reclamation cost estimate (copy enclosed).

Division calculations estimate the cost to reclaim the above referenced site to be <u>\$14,150</u> rounded up from <u>\$14,149.46</u>. This is an increase of <u>\$4,029.26</u> over the <u>\$10,120.74</u> currently held by the Division. This estimate is based on conditions observed during the October 4, 2016 inspection. *Therefore, pursuant to Section 34–32.5–117(4) of the Colorado Land Reclamation Act, adequate Financial Warranty must be submitted to the Division within 60 days of the mailing date of this letter.* The additional amount needs to be accepted prior to **Friday, December 30, 2016**. Please review the enclosed figures as soon as possible and contact our office if any calculation errors are noted.

Please make arrangements with Barbara Coria at the Division of Reclamation, Mining and Safety Denver Office, phone no. 303.866.3567, ext. 8148 for submittal of the financial warranty. Any questions regarding completion, execution and/or submittal of financial warranty forms should also be directed to Barbara Coria.

If you require additional information, or have questions or concerns, please feel free to contact me. Amy Yeldell at the Division of Reclamation, Mining and Safety, 1313 Sherman St., Room 215, Denver, CO 80203. Direct contact can be made by phone at 970-254-8511 or via email at amy.yeldell@ state.co.us

Sincerely,

Amy Geldell

*Amy Yeldell* Environmental Protection Specialist Department of Natural Resources Division of Reclamation, Mining and Safety Phone: (970) 254-8511

Ec: Russ Means, Senior EPS, Grand Junction DRMS Stephanie Mitchell, EPS, Grand Junction DRMS Enc: Financial Warranty Cost Estimate

### COST SUMMARY WORK

Task description:		Post inspection	10-4-16 upda	ite		_	
Site: Cotton C	Creek Pit	Pe	rmit Action:	2016-10	Permit/Job	#: <u>M2013054</u>	
PROJECT Task #: Date: User:	ACY           10/12/2016           ACY	State:	Colorado Saguache		Abbreviation: Filename:	None M054-ACY	

Agency or organization name: DRMS

### TASK LIST (DIRECT COSTS)

Task		Form	Fleet	Task Hours	Cost
	Description	Used	Size		
01a	Dispose of debris	DEMOLISH	1	3.00	\$2.65
02a	Reduce pit slopes to 3:1	DOZER	1	0.94	\$188.00
03a	Spread topsoil on pit slopes	DOZER	1	8.86	\$1,774.00
04a	Rip pit floor and staging area	RIPPER	1	4.52	\$968.00
05a	Carry topsoil to pit floor	LOADER	1	19.85	\$1,917.00
06a	Spread topsoil on pit floor	DOZER	1	3.26	\$652.00
07a	Revegetate 5-acre disturbed area	REVEGE	1	12.00	\$2,661.00
08a	Haul reclamation equipment to and from site	MOBILIZE	1	5.84	\$3,755.00
		<u>SUBTC</u>	DTALS:	58.27	\$11,918

### **INDIRECT COSTS**

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

Liability insurance:	2.02	Total =	\$240.74
Performance bond:	1.05	Total =	\$125.14
Job superintendent:	0.00	Total =	\$0.00
Profit:	10.00	Total =	\$1,191.80
		TOTAL O & P =	\$1,557.68
		CONTRACT AMOUNT (direct + O & P) = $($	\$13,475.68

#### LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): Engineering work and/or contract/bid preparation:	0.00 0.00	Total = Total =	0.00 \$0.00
Reclamation management and/or administration:	5.00	_	\$673.78
CONTINGENCY:	0.00	Total =	\$0.00
	TOTAL I	NDIRECT COST =	\$2,231.46
TOTAL BO	ND AMOUNT (	direct + indirect) =	\$14,149.46

### **DEMOLITION WORK**

Т	ask descriptio	n: <b>D</b>	ispose of debris				
Site:	Site: Cotton Creek Pit		Permit Action: 2016-	10	Pe	ermit/Job#: _	M2013054
<u>PROJEC</u>	CT IDENTI	<b>TICATION</b>					
Task #: Date: User:	01A 10/12/2016 ACY Agency	or organization	State: <u>Colorado</u> County: <u>Saguache</u> name: <u>DRMS</u>		Abbreviat Filena		
<u>UNIT CC</u>	<u>OSTS</u>				Location	adjustment	<u>: 91.60 %</u>
10 12 11 1 1 1	re or Item cription	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Misc debr	is	15 cy	Push demolished materials/rubble/debris	10.00	CY	\$0.29	\$2.89

			Total Cost	
	S	ubtotal	(adjusted for	
Job Hours:	3.00 (unad	justed): \$2.89	location):	\$2.65

### BULLDOZER WORK

Task description:	Reduce pit slope	s to 3:1			
Cotton Creek Pit	Per	mit Action:	2016-10	Permit/Job#:	M2013054
PROJECT IDENTI	<b>FICATION</b>				
Task #: 02A	State:	Colorado		Abbreviation:	None
Date: $\frac{0211}{10/12/201}$		Saguache		Filename:	M054-02a
User: ACY		U		-	
A gancy or org	anization name: DI	RMS			
Agency of orga					
HOURLY EQUIPM	ENT COST				
	at D8T - 8SU				
Horsepower: 31					
	mi-Universal				
Attachment: N.					
	per day (RG)				
	KU)				
Cost Breakdown:			<b>TT</b> . <b>11</b> . <b>1</b> . <b>1</b>		
Ownership Cost/Hours		\$82.01	<u>Utilization %</u> NA		
Ownership Cost/Hour: Operating Cost/Hour:		\$82.01	100		
Ripper own. Cost/Hour:		\$0.00	NA		
Ripper op. Cost/Hour:		\$0.00	0		
		\$38.89			
Operator Cost/Hour:		\$20.09	NA		
-	\$200.13	\$30.09	NA		
Total unit Cost/Hour:	\$200.13 \$200.13	\$38.89	NA		
-	\$200.13 <b>\$200.13</b>	\$38.89			
Total unit Cost/Hour:	\$200.13	\$38.89	NA		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN	\$200.13 TITIES	\$38.87	NA		
Total unit Cost/Hour: Total Fleet Cost/Hour: <u>MATERIAL QUAN</u> Initial Volume:500	\$200.13 <u>TITIES</u>	\$38.87	NA		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 500 Swell factor: 1.3	\$200.13 TITIES ) 30	\$38.87	NA		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 500 Swell factor: 1.3 Loose volume: 665	\$200.13 <b>TITIES</b> ) 30 31 30 31 31 31 31 31 31 31 31 31 31				
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 500 Swell factor: 1.3 Loose volume: 665 Source of estimated volu	\$200.13 TITIES 30 5 LCY Ime: Division	 of Reclamati	on, Mining & Safety		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 500 Swell factor: 1.3 Loose volume: 665	\$200.13 TITIES 30 5 LCY Ime: Division	 of Reclamati			
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 500 Swell factor: 1.3 Loose volume: 665 Source of estimated volu Source of estimated swe	\$200.13 TITIES 30 5 LCY 1me: Division 11 factor: Cat Hand	 of Reclamati			
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 500 Swell factor: 1.3 Loose volume: 665 Source of estimated volu	\$200.13 TITIES 30 5 LCY 1me: Division 11 factor: Cat Hand	 of Reclamati			
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 500 Swell factor: 1.3 Loose volume: 665 Source of estimated volu Source of estimated swe HOURLY PRODUC Average push distance:	\$200.13 TITIES 30 5 LCY 1me: Division 11 factor: Cat Hand TTION 50 feet	of Reclamati			
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUAN         Initial Volume:       500         Swell factor:       1.3         Loose volume:       665         Source of estimated volu         Source of estimated swe         HOURLY PRODUCC	\$200.13 TITIES 30 5 LCY 1me: Division 11 factor: Cat Hand TTION 50 feet	of Reclamati			
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 500 Swell factor: 1.3 Loose volume: 665 Source of estimated volu Source of estimated swe HOURLY PRODUC Average push distance:	\$200.13         TITIES         0         30         5 LCY         ume:       Division         11 factor:       Cat Hand         TION         250 feet         action:       1,400.0 LC	of Reclamati book			
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUAN         Initial Volume:       500         Swell factor:       1.3         Loose volume:       665         Source of estimated volu         Source of estimated swe         HOURLY PRODUC         Average push distance:         Unadjusted hourly produce         Materials consistency definition	\$200.13         TITIES         30         30         31         32         33         34         35         36         37         38         39         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         31         32         33         34         35         36         37         38         39         30         30         30         30         31         32         33         34         35         36         37         38         39         30         310	of Reclamati lbook	on, Mining & Safety		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 500 Swell factor: 1.3 Loose volume: 665 Source of estimated volu Source of estimated volu Source of estimated swe HOURLY PRODUC Average push distance: Unadjusted hourly produ	\$200.13         TITIES         30         30         5 LCY         ime:       Division         11 factor:       Cat Hand         TION         action:       50 feet         action:       1,400.0 LC         escription:       Compa         -20 %	of Reclamati lbook	on, Mining & Safety		
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUAN         Initial Volume:       500         Swell factor:       1.3         Loose volume:       665         Source of estimated volu         Source of estimated swe         HOURLY PRODUC         Average push distance:         Unadjusted hourly produce         Materials consistency definition	\$200.13         TITIES         30         30         31         32         33         34         35         36         37         38         39         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         31         32         33         34         35         36         37         38         39         30         30         30         30         31         32         33         34         35         36         37         38         39         30         310	of Reclamati lbook	on, Mining & Safety		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 500 Swell factor: 1.3 Loose volume: 665 Source of estimated volu Source of estimated volu Source of estimated swe HOURLY PRODUC Average push distance: Unadjusted hourly produ Materials consistency de Average push gradient:	\$200.13         TITIES         30         30         5 LCY         ime:       Division         11 factor:       Cat Hand         TION         action:       50 feet         action:       1,400.0 LC         escription:       Compa         -20 %	of Reclamati lbook	on, Mining & Safety		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 500 Swell factor: 1.3 Loose volume: 665 Source of estimated volu Source of estimated volu Source of estimated swe HOURLY PRODUC Average push distance: Unadjusted hourly produ Materials consistency de Average push gradient: Average push gradient: Average site altitude:	\$200.13         TITIES         30         30         5 LCY         ame:       Division         11 factor:       Cat Hand         CTION         action:       1,400.0 LC         escription:       Compa         -20 %         7,800 feet	 of Reclamati lbook Y/hr ucted fill or en	on, Mining & Safety		
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUAN         Initial Volume:       500         Swell factor:       1.3         Loose volume:       665         Source of estimated volu         Source of estimated swe         HOURLY PRODUC         Average push distance:         Unadjusted hourly produce         Materials consistency de         Average site altitude:         Material weight:	\$200.13         TITIES         30         30         5 LCY         ame:       Division         11 factor:       Cat Hand         TION         action:       1,400.0 LC         escription:       Compa         -20 %       7,800 feet         2,900 lbs/LCY       Decomposed rock	 of Reclamati lbook Y/hr ucted fill or en	on, Mining & Safety		
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUAN         Initial Volume:       500         Swell factor:       1.3         Loose volume:       665         Source of estimated volu         Source of estimated swe         HOURLY PRODUC         Average push distance:         Unadjusted hourly produce         Materials consistency de         Average push gradient:         Average site altitude:         Material weight:         Weight description:         Job Condition Correctio         Operator	\$200.13         TITIES         30         30         5 LCY         ime:       Division         11 factor:       Cat Hand         TTION         action: $50$ feet         action: $1,400.0$ LC         escription:       Compa $-20$ % $7,800$ feet         2,900 lbs/LCY       Decomposed rock         n Factor       0.		on, Mining & Safety on, Mining & Safety mbankment 0.9 , 50% Earth Source (AVG.)		
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUAN         Initial Volume:       500         Swell factor:       1.3         Loose volume:       665         Source of estimated volu         Source of estimated swe         HOURLY PRODUC         Average push distance:         Unadjusted hourly produce         Materials consistency de         Average push gradient:         Average site altitude:         Material weight:         Weight description:         Job Condition Correction         Operator         Material consist	\$200.13         TITIES         30         20         50 feet         1,400.0 LC         escription:       Compa         -20 %         7,800 feet         2,900 lbs/LCY         Decomposed rock         n Factor         Skill:       0.         tency:       0.		 on, Mining & Safety  mbankment 0.9 , 50% Earth  (AVG.) (CAT HB))		
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUAN         Initial Volume:       500         Swell factor:       1.3         Loose volume:       665         Source of estimated volu       500         Source of estimated swee       665         HOURLY PRODUC       Average push distance:         Unadjusted hourly produce       Materials consistency de         Average push gradient:       Average site altitude:         Material weight:       Weight description:         Job Condition Correction       Operator         Material consist       Dozing m	\$200.13 <b>FITTLES</b> 30         30         5 LCY         ime:       Division         11 factor:       Cat Hand <b>TTION</b> action: $50$ feet         action: $1,400.0$ LC         escription:       Compa $-20$ % $7,800$ feet $2,900$ lbs/LCY       Decomposed rock         n Factor $\circ$ skill:       0.         tency:       0.         ethod: $1.$		on, Mining & Safety on, Mining & Safety mbankment 0.9 , 50% Earth Source (AVG.)		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.426	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.5068	
Adjusted unit production: 7	09.52 LCY/hr	
Adjusted fleet production: 7	09.52 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.282/LCY
Total job times	0 04 Hours

Total job time:	<b>0.94</b> Hours
Total job cost:	\$188

### BULLDOZER WORK

Task description:	Spread topsoil or	n pit slopes			
Cotton Creek Pit	Per	mit Action:	2016-10	Permit/Job#:	M2013054
PROJECT IDENTIF	FICATION				
Task #: 03A	State:	Colorado		Abbreviation:	None
Date: $10/12/201$		Saguache		Filename:	M054-03a
User: ACY				<u>-</u>	
Agency or orga	anization name: DF	RMS			
HOURLY EQUIPM	ENT COST				
Basic Machine: Ca	at D8T - 8SU				
Horsepower: 31					
	mi-Universal				
Attachment: NA					
	per day				
Data Source: (C	RG)				
Cost Breakdown:					
			Utilization %		
Ownership Cost/Hour:		\$82.01	NA		
Operating Cost/Hour:		\$79.23	100		
Ripper own. Cost/Hour:		\$0.00	NA		
Ripper op. Cost/Hour:		\$0.00	0		
Operator Cost/Hour:		\$38.89	NA		
MATERIAL QUAN' Initial Volume: 5,3' Swell factor: 1.00	78				
	78 LCY				
Source of estimated volu	1 ac @ 8	,			
Source of estimated swe					
HOURLY PRODUC	TION				
Average push distance:	80 feet				
Unadjusted hourly produ		ĥr			
Materials consistency de			stockpile 1.1		
·	·		•		
A wara as much and isn't	-20 %				
Average push gradient: Average site altitude:	7,800 feet				
	7,800 feet 2,550 lbs/LCY				
Average site altitude:		1		_	
Average site altitude: Material weight: Weight description: Job Condition Correction	2,550 lbs/LCY Earth - Dry packed		Source	_	
Average site altitude: Material weight: Weight description: Job Condition Correction Operator	2,550 lbs/LCY Earth - Dry packed <u>n Factor</u> Skill: 0.	750	(AVG.)		
Average site altitude: Material weight: Weight description: <u>Job Condition Correction</u> Operator Material consis	2,550 lbs/LCY Earth - Dry packed n Factor Skill: 0. tency: 1.	750 100	(AVG.) (CAT HB)		
Average site altitude: Material weight: Weight description: Job Condition Correction Operator Material consis Dozing m	2,550 lbs/LCY Earth - Dry packed n Factor Skill: 0. tency: 1. ethod: 1.	750	(AVG.)		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.700	(FND-MF)
Push gradient:	1.426	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.902	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.6165	
Adjusted unit production: 60	)6.76 LCY/hr	
Adjusted fleet production: 60	06.76 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.330/LCY

Total job time:	8.86 Hours
Total job cost:	\$1,774

### BULLDOZER RIPPING WORK

Site	: Cotton Creek	Pit	Permit Action: _	2016-10	Perm	it/Job#: <u>M</u>	2013054
	PROJECT ID	ENTIFICATION					
	Task #: 044				Abbrevi		
		<u>12/2016</u> Count	zy: Saguache		File	name: M0	54-04a
	User: <u>AC</u>						
	•••	or organization name:	DRMS				
	HOURLY EQ	UIPMENT COST					
		Machine: Cat D8T - 85			Horsepower:	310	
	Ripper Att	achment: <u>3-Shank Rip</u>	per		Shift Basis: Data Source:	1 per da (CRG)	
						(CKU)	·
	Cost Breakdown:	<u>.</u>		I	Utilization %		
		Ownership Cost/Hour:		\$82.01	NA		
	р.	Operating Cost/Hour:		\$79.23	100		
		er Ownership Cost/Hour: ber Operating Cost/Hour:		\$8.40 \$5.62	NA 100		
	Kipp	Operator Cost/Hour:		\$38.89	NA		
		Total Unit Cost/Hour:		\$214.15			
		Total Fleet Cost/Hour:	\$214	l.15			
	MATERIAL Q				.1 .1		
			Sele	cted estimating	method: Area		
	Alternate Method	<u>ls:</u>					
ismic:	NA	I	Bank Volume:	NA	BCY	NA	
	2 00		$\mathbf{D} = \mathbf{D} = (1 + (0))$	1.00			DOV
Area:	3.00		Rip Depth (ft):	1.00	Volume: 4,84		BCY or 0
Area:	3.00	acres F					BCY or (
Area:	<u> </u>	Source of estimated qua					BCY or 0
Area:		Source of estimated qua	antity: <u>Applica</u>	ation	Volume:4,84	0	BCY or (
Area:	HOURLY PRO	Source of estimated qua	antity: <u>Applica</u>			0	BCY or C
Area:	HOURLY PRO	Source of estimated qua	antity: <u>Applica</u>	ation NA	Volume: 4,84	0	BCY or 0
Area:	HOURLY PRO	Source of estimated qua <u>ODUCTION</u> Seismic V Average Ripping	antity: <u>Applica</u> Velocity:	ntion NA 2.56	Volume: 4,84	0	BCY or (
Area:	HOURLY PRO	Source of estimated qua <u>ODUCTION</u> Seismic V Average Ripping Average Ripping	antity: <u>Applica</u> Velocity: g Depth: g Width:	ntion NA 2.56 7.08	Volume: 4,84	0	BCY or 0
Area:	HOURLY PRO	Source of estimated qua <u>ODUCTION</u> Seismic V Average Ripping Average Ripping Average Ripping Average Doze	g Depth: g Width: Length: r Speed:	NA           2.56           7.08           300.00           88.00	Volume: 4,84	0	BCY or (
Area:	HOURLY PRO	Source of estimated qua <u>ODUCTION</u> Seismic V Average Ripping Average Ripping Average Ripping Average Ripping Average Maneuvo	g Depth: g Width: r Speed: er Time:	NA           2.56           7.08           300.00           88.00           0.25	Volume: 4,84	0	BCY or 0
Area:	HOURLY PRO Seismic: Area:	Source of estimated qua <u>ODUCTION</u> Seismic V Average Ripping Average Ripping Average Ripping Average Doze Average Maneuvo Production per u	g Depth: g Width: r Speed: er Time:	NA           2.56           7.08           300.00           88.00	Volume: 4,84	0	BCY or 0
Area:	HOURLY PRO	Source of estimated qua <u>ODUCTION</u> Seismic V Average Ripping Average Ripping Average Ripping Average Doze Average Maneuvo Production per u	g Depth: g Width: r Speed: er Time:	NA           2.56           7.08           300.00           88.00           0.25	Volume: 4,84	0	BCY or (
Area:	HOURLY PRO Seismic: Area: Job Condition Co	Source of estimated qua <u>ODUCTION</u> Seismic V Average Ripping Average Ripping Average Ripping Average Doze Average Maneuvo Production per u	Applica Velocity: g Depth: g Width: Length: r Speed: er Time: nit area:	NA           2.56           7.08           300.00           88.00           0.25	Volume: 4,84	0	BCY or (
Area:	HOURLY PRO Seismic: Area: Job Condition Co	Source of estimated qua <u>ODUCTION</u> Seismic V Average Ripping Average Ripping Average Ripping Average Doze Average Maneuve Production per u <u>orrection Factors</u> adjusted Hourly Unit Pro	Applica Velocity: g Depth: g Width: Length: r Speed: er Time: nit area:	NA           2.56           7.08           300.00           88.00           0.25           0.800	Volume: 4,84	0	BCY or 0
Area:	HOURLY PRO Seismic: Area: Job Condition Co	Source of estimated qua <u>ODUCTION</u> Seismic V Average Ripping Average Ripping Average Ripping Average Maneuva Production per u <u>prrection Factors</u> adjusted Hourly Unit Pro Site A Altitu	Applica Applica Velocity: g Depth: g Width: Length: r Speed: r Speed: nit area: duction: Altitude: ude Adj:	NA           2.56           7.08           300.00           88.00           0.25           0.800           0.800           7,800           1.00	Volume: 4,84	40	BCY or (
Area:	HOURLY PRO Seismic: Area: Job Condition Co	Source of estimated qua <u>ODUCTION</u> Seismic V Average Ripping Average Ripping Average Ripping Average Naneuvo Production per u <u>orrection Factors</u> adjusted Hourly Unit Pro Site A Altitu Job Eff	Applica Applica Velocity: g Depth: g Width: Length: r Speed: r Time: nit area: duction: Altitude: iciency:	NA           2.56           7.08           300.00           88.00           0.25           0.800           0.800           7,800           1.00           0.83	Volume: 4,84	40	BCY or (
Area:	HOURLY PRO Seismic: Area: Job Condition Co	Source of estimated qua <u>ODUCTION</u> Seismic V Average Ripping Average Ripping Average Ripping Average Maneuva Production per u <u>orrection Factors</u> adjusted Hourly Unit Pro Site A Altitu Job Eff Net Con	Applica Velocity: g Depth: g Width: tength: r Speed: er Time: nit area: duction: Altitude: iciency: rrection:	NA           2.56           7.08           300.00           88.00           0.25           0.800           0.800           7,800           1.00           0.83           0.83	Volume: 4,84	40	BCY or (
Area:	HOURLY PRO Seismic: Area: Job Condition Co	Source of estimated qua <u>ODUCTION</u> Seismic V Average Ripping Average Ripping Average Ripping Average Maneuva Production per u <u>orrection Factors</u> adjusted Hourly Unit Pro Site A Altitu Job Eff Net Con Adjusted Hourly U	Applica Velocity: g Depth: g Width: Length: r Speed: r Time: nit area: duction: Altitude: iciency: rrection: Juit Production:	NA           2.56           7.08           300.00           88.00           0.25           0.800           7,800           1.00           0.83           0.83           0.66	Volume: 4,84	40	BCY or 0
Area:	HOURLY PRO Seismic: Area: Job Condition Co Un	Source of estimated qua <u>ODUCTION</u> Seismic V Average Ripping Average Ripping Average Ripping Average Ripping Average Maneuva Production per u <u>orrection Factors</u> adjusted Hourly Unit Pro Site A Altitu Job Eff Net Con Adjusted Hourly U	Applica Velocity: g Depth: g Width: Length: r Speed: r Time: nit area: duction: Altitude: iciency: rrection: Juit Production:	NA           2.56           7.08           300.00           88.00           0.25           0.800           0.800           7,800           1.00           0.83           0.83	Volume: 4,84	40	BCY or (
Area:	HOURLY PRO Seismic: Area: Job Condition Co	Source of estimated qua <u>ODUCTION</u> Seismic V Average Ripping Average Ripping Average Ripping Average Ripping Average Maneuva Production per u <u>orrection Factors</u> adjusted Hourly Unit Pro Site A Altitu Job Eff Net Con Adjusted Hourly U	Applica Velocity: g Depth: g Width: Length: r Speed: r Time: nit area: duction: Altitude: iciency: rrection: Juit Production:	NA           2.56           7.08           300.00           88.00           0.25           0.800           7,800           1.00           0.83           0.83           0.66	Volume: 4,84	40	BCY or (
Area:	HOURLY PRO Seismic: Area: Job Condition Co Un	Source of estimated qua <u>ODUCTION</u> Seismic V Average Ripping Average Ripping Average Ripping Average Ripping Average Maneuva Production per u <u>orrection Factors</u> adjusted Hourly Unit Pro Site A Altitu Job Eff Net Con Adjusted Hourly U	antity:       Applica         Velocity:	NA           2.56           7.08           300.00           88.00           0.25           0.800           7,800           1.00           0.83           0.83           0.66	Volume: 4,84	)	BCY or 0

### WHEEL LOADER - LOAD AND CARRY WORK

Cotton Creek Pit		Permit Ac	ction:	2016-10		Permit/Job#:	M2013054
ROJECT IDEN	FIFICATION						
		States Cal	I .			<b>A h h</b> and <b>i s i s</b>	Nama
Task #: 05A Date: 10/12/2	016		orado uache			Abbreviation: Filename:	None M054-05a
User: ACY	2010 0	County: Sagu	uache			rnename.	W1054-05a
Agency or o	organization nam	e: DRMS					
HOURLY EQUIP	MENT COST						
Basic Machine	e: CAT 938H				Horsep	ower.	172
Attachment					Shift		ber day
i ittaoininoint i					Data So	1	CRG)
							/
Cost Breakdown:			1	Utilization	0/		
Ownership C	ost/Hour	\$25.66		Utilizatior NA	1 70		
Ownership C Operating C		\$32.31		100			
Operator C		\$38.60		NA			
Total Unit C		\$96.57		1111			
Total Ollit C		\$70.57					
Total Fleet C	Cost/Hour:	\$96.57					
T., 141-1	4,302	CC	21/2				
Initial volume: Loose volume:	4,302	LC	CY	Swel	l factor: <u>1</u> .	.000	
Loose volume: Sou	4,302 rce of estimated	LC volume: 4 a	CY ac @8"		l factor: <u>1</u> .	.000	
Loose volume: Sou	4,302	LC volume: 4 a	CY		l factor: <u>1</u> .	.000	
Loose volume: Sou Source o	4,302 rce of estimated of estimated swel	LC volume: 4 a	CY ac @8"		l factor: <u>1</u> .	.000	
Loose volume: Sou Source of HOURLY PROD	4,302 rce of estimated of estimated swel	volume: <u>4</u> a ll factor: <u>Ca</u> t	CY <u>ic @8"</u> t Handb	pook			
Loose volume: Sou Source of HOURLY PROD	4,302 rce of estimated of estimated swel	LC volume: 4 a	CY <u>ic @8"</u> t Handb	pook		0.483	minutes
Loose volume: Sou Source of HOURLY PROD	4,302 rce of estimated of estimated swel UCTION Unadjuste	volume: <u>4</u> a ll factor: <u>Ca</u> t	CY <u>ic @8"</u> t Handb	pook			minutes
Loose volume: Sou Source of HOURLY PROD Loader Cycle Time: Cycle Time F	4,302 rce of estimated of estimated swel UCTION Unadjuste	volume: <u>4</u> a ll factor: <u>Ca</u> t	CY <u>t @8"</u> t Handb	book load, dump	, maneuver):	0.483	
Loose volume: Sou Source of HOURLY PRODU Loader Cycle Time F Cycle Time F Ma Stoo	4,302 rce of estimated of estimated swel UCTION Unadjuste Factors tterial: No adj ckpile: Dumpe	LC volume: <u>4 a</u> ll factor: <u>Cat</u> ed Basic Cycle <u>ustment - facto</u> ed by truck 0.02	Y t Handb Time ( or not ap 2	book load, dump oplicable 0.	, maneuver):	0.483 Factor (min.) 0.000 0.020	Source (Cat HB) (Cat HB)
Loose volume: Sou Source of HOURLY PRODU Loader Cycle Time: Cycle Time F Ma Stoo Truck Owne	4,302 rce of estimated of estimated swel UCTION Unadjuste Factors aterial: No adj ckpile: Dumpe ership: No adj	LC volume: <u>4 a</u> ll factor: <u>Cat</u> ed Basic Cycle ustment - facto	Y t Handb Time ( or not ap 2	book load, dump oplicable 0.	, maneuver):	0.483 Factor (min.) 0.000	Source (Cat HB)
Loose volume: Source of HOURLY PRODI Loader Cycle Time: Cycle Time F Ma Stoo Truck Owne Oper	4,302 rce of estimated of estimated swel UCTION Unadjuste Vactors Aterial: No adj ckpile: Dumpe ership: No adj ration: Consta	LC volume: <u>4 a</u> ll factor: <u>Cat</u> ed Basic Cycle ustment - facto ed by truck 0.0 ustment - facto ustment - facto unt operation -0	CY t Handb Time ( or not ap 2 or not ap	book load, dump oplicable 0.	, maneuver):	0.483 Factor (min.) 0.000 0.020 0.000 -0.040	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB)
Loose volume: Sou Source of HOURLY PRODU Loader Cycle Time: Cycle Time F Ma Stoo Truck Owne	4,302 rce of estimated of estimated swel UCTION Unadjuste Vactors Aterial: No adj ckpile: Dumpe ership: No adj ration: Consta	LC volume: <u>4 a</u> ll factor: <u>Cat</u> ed Basic Cycle ustment - facto ed by truck 0.02 ustment - facto nt operation -0 nal target 0.00	Y t Handb Time ( pr not ap 2 pr not ap ).04	book load, dump oplicable 0.	, maneuver): 00	0.483 Factor (min.) 0.000 0.020 0.000 -0.040 0.000	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)
Loose volume: Source of HOURLY PRODI Loader Cycle Time: Cycle Time F Ma Stoo Truck Owne Oper	4,302 rce of estimated of estimated swel UCTION Unadjuste Vactors Aterial: No adj ckpile: Dumpe ership: No adj ration: Consta	LC volume: <u>4 a</u> ll factor: <u>Ca</u> ed Basic Cycle ustment - facto ustment - facto ustment - facto nt operation -0 al target 0.00 N	CY t Handt Time ( pr not ap 2 pr not ap ).04 Jet Cycl	book load, dump oplicable 0. oplicable 0. le Time Ad	, maneuver): 00 00 00	0.483 Factor (min.) 0.000 0.020 0.000 -0.040 0.000 -0.020	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
Loose volume: Source of HOURLY PRODI Loader Cycle Time: Cycle Time F Ma Stoo Truck Owne Oper	4,302 rce of estimated of estimated swel UCTION Unadjuste Vactors Aterial: No adj ckpile: Dumpe ership: No adj ration: Consta	LC volume: <u>4 a</u> ll factor: <u>Ca</u> ed Basic Cycle ustment - facto ustment - facto ustment - facto nt operation -0 al target 0.00 N	CY t Handt Time ( pr not ap 2 pr not ap ).04 Jet Cycl	book load, dump oplicable 0.	, maneuver): 00 00 00	0.483 Factor (min.) 0.000 0.020 0.000 -0.040 0.000	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)
Loose volume: Source of HOURLY PRODI Loader Cycle Time: Cycle Time F Ma Stoo Truck Owne Oper Dump T	4,302 rce of estimated of estimated swel UCTION Unadjuste Factors aterial: No adj ckpile: Dumpe ership: No adj ration: Consta Farget: Nomin	LC volume: <u>4 a</u> ll factor: <u>Cat</u> ed Basic Cycle ustment - facto ed by truck 0.02 ustment - facto int operation -0 ial target 0.00 N	CY t Handt Time ( pr not ap 2 pr not ap ).04 Jet Cycl	book load, dump oplicable 0. oplicable 0. le Time Ad	, maneuver): 00 00 00	0.483 Factor (min.) 0.000 0.020 0.000 -0.040 0.000 -0.020	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
Loose volume: Source of HOURLY PRODI Loader Cycle Time: Cycle Time F Ma Stoo Truck Owne Oper Dump T	4,302 rce of estimated of estimated swel UCTION Unadjuste Factors aterial: No adj ckpile: Dumpe ership: No adj ration: Consta Target: Nomin	LC volume: <u>4 a</u> ll factor: <u>Cat</u> ed Basic Cycle <u>ustment - facto</u> ed by truck 0.02 ustment - facto int operation -0 nal target 0.00 N A S	CY t Handt Time ( pr not ap 2 pr not ap 2 pr not ap 2 Jet Cycl Adjusted	book load, dump oplicable 0. oplicable 0. le Time Ad d Basic Cyd	, maneuver): 00 00 00 justment: cle Time:	0.483 Factor (min.) 0.000 0.020 0.000 -0.040 0.000 -0.020 0.463	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
Loose volume: Source of HOURLY PRODI Loader Cycle Time: Cycle Time F Ma Stoo Truck Owne Oper Dump T Rolling Resistance –	4,302 rce of estimated of estimated swel UCTION Unadjuste Vactors Aterial: No adj ckpile: Dumpe ership: No adj ration: Consta Carget: Nomin	LC volume: <u>4 a</u> ll factor: <u>Cat</u> ed Basic Cycle <u>ustment - facto</u> ed by truck 0.00 ustment - facto int operation -0 nal target 0.00 N <u>A</u> <u>S</u> irt, little mainte	Time ( <u>or not ap</u> <u>2</u> <u>2</u> <u>2</u> <u>2</u> <u>2</u> <u>2</u> <u>2</u> <u>2</u>	book load, dump oplicable 0. oplicable 0. le Time Ad d Basic Cyo no water, 1	, maneuver): 00 00 00 ustment: 2le Time: " tire penetra	0.483 Factor (min.) 0.000 0.020 0.000 -0.040 0.000 -0.020 0.463 ttion 4.0	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
Loose volume: Source of HOURLY PRODI Loader Cycle Time: Cycle Time F Ma Stoo Truck Owne Oper Dump T Rolling Resistance –	4,302 rce of estimated of estimated swel UCTION Unadjuste Vactors Aterial: No adj ckpile: Dumpe ership: No adj ration: Consta Carget: Nomin	LC volume: <u>4 a</u> ll factor: <u>Cat</u> ed Basic Cycle <u>ustment - facto</u> ed by truck 0.02 ustment - facto int operation -0 nal target 0.00 N A S	Time ( <u>or not ap</u> <u>2</u> <u>2</u> <u>2</u> <u>2</u> <u>2</u> <u>2</u> <u>2</u> <u>2</u>	book load, dump oplicable 0. oplicable 0. le Time Ad d Basic Cyo no water, 1	, maneuver): 00 00 00 ustment: 2le Time: " tire penetra	0.483 Factor (min.) 0.000 0.020 0.000 -0.040 0.000 -0.020 0.463 ttion 4.0	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
Loose volume: Source of HOURLY PRODI Loader Cycle Time: Cycle Time F Ma Stoo Truck Owne Oper Dump T Rolling Resistance – H Ret	4,302         rce of estimated         of estimated swel         UCTION         Unadjuste         Factors         aterial:       No adj         ckpile:       Dumpe         ership:       No adj         ration:       Consta         Carget:       Nomin         Road Conditions         faul:       Rutted di         urn:       Rutted di	LC volume: <u>4 a</u> ll factor: <u>Cat</u> ed Basic Cycle <u>ustment - facto</u> ed by truck 0.00 ustment - facto int operation -0 nal target 0.00 N <u>A</u> <u>S</u> irt, little mainte	Time ( <u>or not ap</u> <u>2</u> <u>2</u> <u>2</u> <u>2</u> <u>2</u> <u>2</u> <u>2</u> <u>2</u>	book load, dump oplicable 0. oplicable 0. le Time Ad d Basic Cyo no water, 1	, maneuver): 00 00 00 ustment: 2le Time: " tire penetra	0.483 Factor (min.) 0.000 0.020 0.000 -0.040 0.000 -0.020 0.463 ttion 4.0	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
Loose volume: Source of HOURLY PRODI Loader Cycle Time: Cycle Time F Ma Stoo Truck Owne Oper Dump T Rolling Resistance –	4,302         rce of estimated         of estimated swel         UCTION         Unadjuste         Factors         aterial:       No adj         ckpile:       Dumpe         ership:       No adj         ration:       Consta         Carget:       Nomin         Road Conditions         faul:       Rutted di         urn:       Rutted di	LC volume: <u>4 a</u> ll factor: <u>Cat</u> ed Basic Cycle <u>ustment - facto</u> ed by truck 0.00 ustment - facto int operation -0 nal target 0.00 N <u>A</u> <u>S</u> irt, little mainte	Time ( or not ap 2 or not ap 2 or not ap 0.04 Jet Cycl Adjusted enance, enance,	book load, dump oplicable 0. oplicable 0. le Time Ad d Basic Cyo no water, 1	, maneuver): 00 00 00 ustment: 2le Time: " tire penetra	0.483 Factor (min.) 0.000 0.020 0.000 -0.040 0.000 -0.020 0.463 ttion 4.0	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes

Haul Route:

Return Route:

300

300

0.00

0.00

4.00

4.00

4.00

4.00

(Cat HB)

(Cat HB)

0.2477

0.2310

Load Bucket Capacity		Total Trav Total Cyc		
Rated Capacit Bucket Fill Facto Adjusted Capacit Job Condition Correction Site Altitude: <u>7800</u> feet	r: 1.050 y: <b>4.10</b>	LCY (heaped) Other - moist loam LCY	(100-110%) 1.050	
Altitude Adj: Job Efficiency: Net Correction: Un	1.00         0.83         0.83         adjusted Hourly Unit Hadjusted Hourly Unit Hadjusted Hourly Fleet Hadjusted Had	Production: 216.67	LCY/Hour	
JOB TIME AND CO	<u>ST</u>			
Fleet size:	1 Loader(s)	Total job tin	ne: <b>19.86</b>	Hours
Unit cost: \$0.	446 /LCY	Total job co	st: \$1,917	

Page 1 of 2

### BULLDOZER WORK

	:	Spread topsoil	on pit nooi			
Cotton Creek	x Pit	Pe	ermit Action:	2016-10	Permit/Job#:	M2013054
PROJECT ID	ENTIFI	<u>CATION</u>				
	A /12/2016 CY	State: County:			Abbreviation: Filename:	None M054-06a
Agency	y or organi	ization name: <u>I</u>	DRMS			
HOURLY EQ	UIPME	NT COST				
Basic Machin	-	D8T - 8SU				
Horsepowe		i-Universal				
Blade Typ Attachmer		1-Universal				
Shift Basi		r day				
Data Sourc						
Cost Breakdown		·				
<u>Cost Broakdown</u>	<u>-</u> -			Utilization %		
Ownership Cos			\$82.01	NA		
Operating Cos			\$79.23	100		
Ripper own. Cos			\$0.00	NA		
Ripper op. Cos	-		\$0.00	0		
Operator Cos	st/Hour:		\$38.89	NA		
MATERIAL	DI LA NTT	TIES				
Initial Volume	: 2,151					
	$\frac{2,151}{1.000}$					
Initial Volume Swell factor	$\begin{array}{c} :  2,151 \\ \vdots  1.000 \\ \vdots  2,151 \\ \end{array}$	LCY ne: Half vo	lume transport	ted		
Initial Volume Swell factor Loose volume Source of estima	: 2,151 : 1.000 : 2,151 ated volum	LCY ne: <u>Half vo</u> factor: <u>Cat Har</u>		ted		
Initial Volume Swell factor Loose volume Source of estima Source of estima <b>HOURLY PR</b> Average push di	: 2,151 : 1.000 : 2,151 ited volum ited swell ODUCT stance:	LCY he: <u>Half vo</u> factor: <u>Cat Han</u> <u>ION</u> <u>50 feet</u>	ndbook	ted		
Initial Volume Swell factor Loose volume Source of estima Source of estima	: 2,151 : 1.000 : 2,151 ited volum ited swell ODUCT stance:	LCY he: <u>Half vo</u> factor: <u>Cat Han</u> <u>ION</u> <u>50 feet</u>	ndbook	ted		
Initial Volume Swell factor Loose volume Source of estima Source of estima <b>HOURLY PR</b> Average push di Unadjusted hour	: <u>2,151</u> : <u>1.000</u> : <u>2,151</u> ited volum ited swell <b>ODUCT</b> stance: ly product	LCY he: Half vo factor: Cat Har ION 50 feet tion: 1,400.0 L	ndbook			
Initial Volume Swell factor Loose volume Source of estima Source of estima <b>HOURLY PR</b> Average push di Unadjusted hour	: <u>2,151</u> : <u>1.000</u> : <u>2,151</u> ited volum ited swell <b>ODUCT</b> stance: ly product tency desc adient:	LCY he: Half vo factor: Cat Har ION 50 feet tion: 1,400.0 L	ndbook CY/hr			
Initial Volume Swell factor Loose volume Source of estima Source of estima <b>HOURLY PR</b> Average push di Unadjusted hour Materials consis Average push gr Average site alti	: <u>2,151</u> : <u>1.000</u> : <u>2,151</u> ited volum ited swell <b>ODUCT</b> stance: ly product tency desc adient: tude:	LCY he: <u>Half vo</u> factor: <u>Cat Han</u> <b>ION</b> tion: <u>50 feet</u> 1,400.0 L cription: Loose 0 %	ndbook CY/hr			
Initial Volume Swell factor Loose volume Source of estima Source of estima <b>HOURLY PR</b> Average push di Unadjusted hour Materials consis Average push gr Average site alti	: 2,151 : 1.000 : 2,151 ited volum ited swell ODUCT stance: ly product tency desc adient: tude:	LCY         he:       Half vo         factor:       Cat Har         ION         tion:       50 feet         1,400.0 L         cription:       Loose         0 %       7,800 feet	ndbook CY/hr e stockpile 1.2			
Initial Volume Swell factor Loose volume Source of estima Source of estima <b>HOURLY PR</b> Average push di Unadjusted hour Materials consis Average push gr Average site alti Material weight: Weight descripti Job Condition C	: 2,151 : 1.000 : 2,151 ited volum ited swell ODUCT stance: ly product tency desc adient: tude: - on: - orrection l	LCY           he:         Half vo           factor:         Cat Har           ION         50 feet           tion:         1,400.0 L           cription:         Loose           0 %         7,800 feet           2,550 lbs/LCY         Earth - Dry pack           Eactor         -	rdbook CY/hr e stockpile 1.2			
Initial Volume Swell factor Loose volume Source of estima Source of estima <b>HOURLY PR</b> Average push di Unadjusted hour Materials consis Average push gr Average site alti Material weight: Weight descripti	: 2,151 : 1.000 : 2,151 ited volum ited swell ODUCT stance: ly product tency desc adient: tude: on: orrection I Operator S	LCY           le:         Half vo           factor:         Cat Har           ION         50 feet           tion:         1,400.0 L           cription:         Loose           0 %         7,800 feet           2,550 lbs/LCY         Earth - Dry pack           Factor         kill:	rdbook CY/hr e stockpile 1.2 ed 0.750			
Initial Volume Swell factor Loose volume Source of estima Source of estima <b>HOURLY PR</b> Average push di Unadjusted hour Materials consis Average push gr Average site alti Material weight: Weight descripti Job Condition C	: 2,151 : 1.000 : 2,151 ited volum ited swell ODUCT stance: ly product tency desc adient: tude: on: orrection I Dperator S il consister	LCY         he:       Half vo         factor:       Cat Har         ION       50 feet         tion:       1,400.0 L         cription:       Loose         0 %       7,800 feet         2,550 lbs/LCY       Earth - Dry pack         Factor       kill:	ed 0.750 1.200	<u>Source</u> (AVG.) (CAT HB)		
Initial Volume Swell factor Loose volume Source of estima Source of estima <b>HOURLY PR</b> Average push di Unadjusted hour Materials consis Average push gr Average site alti Material weight: Weight descripti Job Condition C	: 2,151 : 1.000 : 2,151 ited volum ited swell ODUCT stance: ly product tency desc adient: tude: on: orrection I Operator S	LCY           he:         Half vo           factor:         Cat Har           ION         50 feet           tion:         1,400.0 L           cription:         Loose           0 %         2,550 lbs/LCY           Earth - Dry pack         Factor           kill:	rdbook CY/hr e stockpile 1.2 ed 0.750			

Job efficiency	: 0.830	(1 SHIFT/DAY)
Spoil pile	: 0.700	(FND-MF)
Push gradient	: 1.000	(CAT HB)
Altitude	: 1.000	(CAT HB)
Material Weight	: 0.902	(CAT HB)
Blade type	: 1.000	(PAT)
Net correction	: 0.4717	
Adjusted unit production:	660.38 LCY/hr	
Adjusted fleet production:	660.38 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.303/LCY

Total job time:	<b>3.26</b> Hours
Total job cost:	\$652

# **REVEGETATION WORK**

Task description:		Revegetate 5-acre disturbed	area		
e: Cotton	C <b>reek Pit</b>	Permit Action:	2016-10	Permit/Jol	o#: <u>M2013054</u>
PROJECT	<b>IDENTIFIC</b>	CATION			
					NT
Task #:	07A	State: Colorado		Abbreviation:	None
Task #: Date:		Colorado County: Saguache		Abbreviation: Filename:	M054-07a

### **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)	\$107.59
Total Tilling Cost/Acre	\$107.59

### **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Blue Grama - Hachita	1.00	16.32	\$10.67
Crested Wheatgrass - Hy-Crest	3.00	13.77	\$7.17
Russian Wildrye - Bozoisky	2.00	8.03	\$12.50
Yellow Sweet Clover - Madrid	1.00	5.97	\$2.56
Western Wheatgrass - Arriba	5.00	12.63	\$18.45
Totals Seed Mix	12.00	56.73	\$51.35

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	\$1.25	\$1.25
Total Mulch Materials Cost/Acre				\$1.25

#### Application

Description		Cost /Acre
Weed spray, truck, non-aquatic areas, ann. [DMG]		\$22.81
	Total Mulch Application Cost/Acre	\$22.81

### NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Totals 1	Nursery Stoc	k Cost / Acre	\$0.00

Estimate *Selected Replanti	No. of Acres: ed Failure Rate: ng Work Items:	30%	DING	Cost /Acre: Cost /Acre*:	
Initial Job Cost: Reseeding Job Cost: Total Job Cost: Job Hours:	\$586.41 \$2,661				

# EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description	: <u>Ha</u>	ul reclamation eq	uipment to and	l from site	9		
e: Cotton Creek	Pit	Permit	Action: 2016-	-10	]	Permit/Job#:	M2013054
PROJECT IDE	NTIFICATI	ON					
Task #: 08	sk #: 08A State: Colorado Abbreviation: None						None
Date: 10	/12/2016	County: Sa	guache		Fi	lename: N	M054-08a
User: AC	CY						
Agency	or organization	n name: DRMS					
EQUIPMENT '	<u>FRANSPOR</u>	<u>T RIG COST</u>					
				,	Shift ba		er day
				(	Cost Data Sour	rce: <u>CR</u>	G Data
Truc	k Tractor Desc	ription: GENE	RIC ON-HIGH	WAY TRU	JCK TRACTO	DR, 6X4, DI	ESEL POWERED,
					(2ND HALF,	,	
Truc	k Trailer Desc	ription: G	ENERIC FOLD				EQUIPMENT
			]	FRAILER	(25T, 50T, AN	ND 100T)	
Cost Breakdown:							
Available Rig (	Sana aiting	0-25 Tons	26-50 Tons	51	- Tons		
	p Cost/Hour:	\$16.63	\$18.37		22.33		
	g Cost/Hour:	\$44.38	\$46.13		50.07		
	r Cost/Hour:	\$27.66	\$27.66		27.66		
	r Cost/Hour:	\$0.00	\$25.39		25.39		
	t Cost/Hour:	\$88.67	\$117.55		25.45		
		40000	+	+-			
NON ROADAB	<b>BLE EOUIP</b>	MENT:					
	1						
Machine	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return Tri Cost/hr/ fl	
Description	Unit	Cost/hr/ unit	Cost/hr/uni	Size	Cost/hr/	COSUM/ II	cost/ neet
G . DOT . 0071	(TONS)		t		fleet	¢105.45	<b>#250.00</b>
Cat D8T - 8SU	53.08	\$63.00	\$125.45	1	\$188.45	\$125.45	\$250.00
CAT 938H Drill/Broadcast	16.34 25.00	\$21.45 \$39.59	\$88.67 \$88.67	1	\$110.12 \$128.26	\$88.67 \$88.67	\$250.00 \$250.00
Seeder with Tractor	25.00	\$39.39	φ <b>68.0</b> 7	1	φ128.20	Φδδ.07	\$250.00

Subtotals: \$426.83 \$302.79 \$750.00

# **ROADABLE EQUIPMENT:**

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

### **EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region: Total one-way travel distance: Average Travel Speed:	ALAMOSA 48.00 50.00	miles mph
Total Non-Roadable Mob/Demob Cost *	\$3,754.53	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$0.00	

Transportation Cycle Time:

	Non- Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.96	0.96
Return Time (Hours):	0.96	0.96
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	2.92	1.92

### JOB TIME AND COST

Total job time: **5.84** Hours

Total job cost: \$3,755

October 14, 2016

Ken Skoglund Boyce Land & Cattle Co., LLC P.O. Box 209 Moffat, CO 81143



**COLORADO** Division of Reclamation, Mining and Safety Department of Natural Resources

1313 Sherman Street, Room 215 Denver, CO 80203

# RE: Cotton Creek Pit, Permit No. M-2013-054, Explanation of Surety Increase (SI-1)

Dear Mr. Skoglund:

This reclamation cost update was based on conditions observed on the October 4, 2016 site inspection. No Surety increases have occurred since the permit issuance in 2014. Since the permit issuance mining as progressed and is at or near the maximum 5 acres disturbance as per the approved permit.

Typically the Division updates the reclamation cost estimate following a permit revision or a field inspection, both of which have recently happened. It is Division policy to periodically update its costs to ensure that the Financial Warranty adequately, reflects the actual current cost of fulfilling the requirements of the approved reclamation plan.

Below is a table summarizing input values that have been updated in Surety Increase (SI-1). This table does not account for price changes resulting from inflation or other RS Means cost changes. Bond calculations are based on a combination of field observations and worst case scenario based on the approved reclamation permit.

Task	Form Used	Change	Justification
01a	Demo	-	Remove line item to create excavated pit since one now exits
		+	Add job hours
		-	Material has been removed update volumes 15 cy -> 10 cy
03a	Dozer	+	Adjusted topsoil volumes, assumed 1 ac @ 8". 881cy ->1076 cy
05a	Loader	+	Adjusted topsoil volumes, assume 4 ac @ 8". 1076cy ->4302 cy
06a	Dozer	+	Adjusted topsoil volumes, assume half of transported volume needs spread. 1076cy -> 2151 cy
07a	Reveg	-	Switch when weed application is employed. Tilling->mulching. Line items have different costs, post seeding is more practical



Please feel free to contact me with any further questions. Amy Yeldell at the Division of Reclamation, Mining and Safety, 1313 Sherman St., Room 215, Denver, CO 80203. Direct contact can be made by phone at 970-254-8511 or via email at amy.yeldell@state.co.us

Sincerely,

Amy Geldell

*Amy Yeldell* Environmental Protection Specialist Department of Natural Resources Division of Reclamation, Mining and Safety Phone: (970) 254-8511 Fax: (970) 241-1516

Ec: Russ Means, Senior EPS, GJFO DRMS Stephanie Mitchell, EPS, GJFO DRMS