September 25, 2018

Donald Corson C&B Sand and Gravel, Inc. P.O. Box 147 Baggs, WY 82321



1313 Sherman Street, Room 215 Denver, CO 80203

RE: Sheehan Pit, Permit No. M-2007-058, Technical Revision (TR-1) Approval

Dear Mr. Corson:

On September 25, 2018 the Division of Reclamation, Mining and Safety (Division) <u>approved</u> the Technical Revision request (TR-1) submitted on September 21, 2018, addressing the following:

Revise mining plan to allow for on-site fuel storage and additional support facilities (buildings).

The terms of the TR-1 approved by the Division are hereby incorporated into Permit No. M-207-058. All other conditions and requirements of the permit remain in full force and effect.

The estimated liability amount of \$51,470.00 exceeds the \$39,260.00 Financial Warranty currently held for this site. If you have not already done so, please submit additional bond in the amount of \$12,210.00. The revision will not be final until the bond is approved by the Division.

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 Yeldell

Environmental Protection Specialist Department of Natural Resources Division of Reclamation, Mining and Safety

Phone: (970) 254-8511 Fax: (970) 241-1516

Cc: Wally Erickson, Senior EPS, Grand Junction DRMS



COST SUMMARY WORK

: She	ehan Pit	Permit Action	on: 2018-07	Permit/Jol	b#: <u>M2007058</u>
PROJI	ECT IDENTIFIC	<u>CATION</u>			
Tas	sk #: ACY	State: Colorac	lo	Abbreviation:	None
Γ	Date: 8/20/2018	County: Moffat		Filename:	M058-ACY
	Jser: ACY				

TASK LIST (DIRECT COSTS)

Task		Form	Fleet	Task	
Task	Description	Used	Size	Hours	Cost
01a	Main- Slope Highwalls	DOZER	1	68.95	\$15,527.00
02a	Main-Distribute Topsoil	DOZER	1	16.83	\$3,698.00
03a	Main-Reveg disturbed area	REVEGE	1	16.00	\$11,332.00
04a	Stockpile- Rip	RIPPER] 1	1.06	\$239.00
05a	Stockpile-Distribute Topsoil	DOZER	1	0.38	\$83.00
06a	Stockpile- Reveg disturbed area	REVEGE	1	4.00	\$1,120.00
07a	Initial Mobilization of Reclamation Equipment	MOBILIZE	1	6.80	\$4,338.00
08a	Secondary Mobilization of Reclamation	MOBILIZE	1	6.80	\$2,534.00
	Equipment				
09a	Main-Remove Shed	DEMOLISH	1	2.00	\$213.92
		CLIDTO	TALC.	122.82	\$39,085
		SUBTO	IALS:	122.02	427,000

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: \$789.52 2.02 Total = Performance bond: \$410.39 1.05 Total = Total = Job superintendent: 40.00 \$2,922.00 Profit: Total = 10.00 \$3,908.50

TOTAL O & $P = \frac{$8,030.41}{}$

CONTRACT AMOUNT (direct + O & P) = $\sqrt{\$47,115.41}$

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): 0.00 Total = 0.00

Engineering work and/or contract/bid preparation: 4.25 Total = \$2,002.40

Reclamation management and/or administration: 5.00 \$2,355.77

CONTINGENCY: 0.00 Total = \$0.00

TOTAL INDIRECT COST = \$12,388.59

TOTAL BOND AMOUNT (direct + indirect) = \$51,473.59

BULLDOZER WORK

Task description:	Main- Slope Highwalls					
: Sheehan Pit	Permit Action:	2018-07	Permit/Job#:	M2007058		
PROJECT IDENTIFI	<u>ICATION</u>					
Task #: 01A	State: Colorado		Abbreviation:	None		
Date: 8/20/2018	County: Moffat		Filename:	M058-01a		
User: ACY			-			
Agency or organ	nization name: DRMS					
HOURLY EQUIPME	NT COST					
Basic Machine: Cat	D8T - 8SU					
Horsepower: 310	1					
Blade Type: Sen	ni-Universal					
Attachment: 3-sh	nank ripper					
	er day					
Data Source: (CR	RG)	<u></u>				
Cost Breakdown:						
Cost Divardo Wil.		Utilization %				
Ownership Cost/Hour:	\$93.62	NA				
Operating Cost/Hour:	\$73.35	100				
Ripper own. Cost/Hour:	\$8.93	NA				
Ripper op. Cost/Hour:	\$7.78	100				
Operator Cost/Hour:	\$41.52	NA				
Total unit Cost/Hour: Total Fleet Cost/Hour:	\$225.20 \$225.20					
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 24,0°	\$225.20 ITIES 74					
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 24,0' Swell factor: 1.330	\$225.20 ITIES 74					
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 24,0' Swell factor: 1.330	\$225.20 ITIES 74					
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 24,0' Swell factor: 1.330	\$225.20 ITIES 74 0 18 LCY	0'H x 500'W benches 1:	1 to 3:1			
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 24,0° Swell factor: 1.330 Loose volume: 32,0°	\$225.20 ITIES 74 0 18 LCY ne:		1 to 3:1			
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 24,0° Swell factor: 1.33° Loose volume: 32,0° Source of estimated volume	\$225.20 ITIES 74 0 18 LCY ne:		1 to 3:1			
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 24,0° Swell factor: 1.330 Loose volume: 32,00 Source of estimated volum Source of estimated swell	\$225.20 ITIES 74 0 18 LCY ne:		1 to 3:1			
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 24,0′ Swell factor: 1.330′ Loose volume: 32,0′ Source of estimated volumes Source of estimated swell HOURLY PRODUCT	\$225.20 ITIES 74 0 18 LCY ne:		1 to 3:1			
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 24,0′ Swell factor: 1.330′ Loose volume: 32,0′ Source of estimated volumes Source of estimated swell HOURLY PRODUCT Average push distance:	\$225.20 ITIES 74 0 18 LCY ne:	0'H x 500'W benches 1:	1 to 3:1			
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 24,0° Swell factor: 1.330 Loose volume: 32,0° Source of estimated volumes Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des	\$225.20 ITIES 74 0 18 LCY ne:	0'H x 500'W benches 1:	1 to 3:1			
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 24,0° Swell factor: 1.33° Loose volume: 32,0° Source of estimated volumes Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product	\$225.20 ITIES 74 0 18 LCY ne:	0'H x 500'W benches 1:	I to 3:1			
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 24,0 Swell factor: 1.330 Loose volume: 32,0 Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient:	\$225.20 ITIES 74 0 18 LCY ne:	0'H x 500'W benches 1:	1 to 3:1			
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 24,0' Swell factor: 1.330 Loose volume: 32,00 Source of estimated volumes Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude:	\$225.20	0'H x 500'W benches 1:	1 to 3:1			
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 24,0′ Swell factor: 1.330′ Loose volume: 32,0′ Source of estimated volumes Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction	\$225.20	0'H x 500'W benches 1:: or blasted 0.7 x, 50% Earth Source	1 to 3:1			
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 24,0′ Swell factor: 1.330 Loose volume: 32,00 Source of estimated volumes Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description:	\$225.20 ITIES 74 0 18 LCY ne:	0'H x 500'W benches 1:	1 to 3:1			

Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3317

Adjusted unit production: 464.38 LCY/hr
Adjusted fleet production: 464.38 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.485/LCY

Total job time: 68.95 Hours
Total job cost: \$15,527

BULLDOZER WORK

T	ask description:	Mai	in-Distribute	Topsoil				
e: _	Sheehan Pit		Peri	nit Action:	2018-07		Permit/Job#:	M2007058
<u>P</u>	ROJECT IDE	NTIFICAT:	<u>ION</u>					
	Task #: 02A		State:	Colorado			Abbreviation:	None
	Date: 8/20	/2018	County:	Moffat			Filename:	M058-02a
	User: ACY	•	•				-	
	Agency o	r organizatior	n name: DR	MS				
<u>H</u>	IOURLY EQU	IPMENT C	<u>OST</u>					
	Basic Machine:	Cat D8T -	8SU					
	Horsepower:	310	1					
	Blade Type:	Semi-Univ						
	Attachment:	3-shank rij	pper					
	Shift Basis: Data Source:	1 per day (CRG)						
		(CKG)						
<u>C</u>	ost Breakdown:				1			
				.		zation %		
(Ownership Cost/I			\$93.62		NA 100		
	Operating Cost/I			\$73.35		100		
	ipper own. Cost/I			\$8.93		NA		
	Ripper op. Cost/l			\$2.33		30	<u> </u>	
	Operator Cost/I	Hour:		\$41.52]	NA		
	IATERIAL QI Initial Volume: Swell factor:	2,151 1.000	<u>S</u>	 				
	Loose volume:	2,151 LCY						
	ource of estimated			ac disturbed book	<u> </u>			
H	OURLY PRO	DUCTION						
	verage push dista nadjusted hourly		150 feet 634.3 LCY/	hr				
M	laterials consister	ncy description	n: Rock, a	vg. ripped o	r blasted 0.7			
	verage push grad verage site altitud		0 feet	<u> </u>				
M	laterial weight:	2,650	0 lbs/LCY					
W	eight description	: Deco	omposed rock	- 25% Rock	, 75% Earth			
Jo	ob Condition Cor					<u>Source</u>		
		erator Skill:		750		(AVG.)		
		consistency:		700	((CAT HB)		
	Doz	ing method:		000		(GEN.)		
		Visibility:	1.	000		(AVG.)		

0.830	(1 SHIFT/DAY)
0.800	(FND-RF)
0.666	(CAT HB)
1.000	(CAT HB)
0.868	(CAT HB)
1.000	(PAT)
	0.800 0.666 1.000 0.868

Net correction: 0.2015

Adjusted unit production: 127.81 LCY/hr
Adjusted fleet production: 127.81 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$1.719/LCY

Total job time: 16.83 Hours
Total job cost: \$3,698

REVEGETATION WORK

	Permit Action: 2018-07 Permit/Job#:					#: <u>M2007058</u>
ROJECT IDENTIFICATION Task #: 03A		Colorado		Ab	breviation:	None
Date: 8/20/2018 User: ACY	County: N	Moffat			Filename:	M058-03a
Agency or organization	name: DRM	S				
ERTILIZING						
aterials						
Description		Units / Acre	Unit	Cos	st / Unit	Cost /Acre
				\$		\$
				То	tal Fertilizer Materials	
					Cost/Acre	\$0.00
Description	NIC 22 01 12 2	2 (100)				Cost /Acre
Description Disc harrowing, 6" deep (MEA	ANS 32 91 13.2	3 6100)				Cost /Acre \$106.29
Description	ANS 32 91 13.2	3 6100)	,	Fotal Tillii	ng Cost/Acre	
Description Disc harrowing, 6" deep (MEA	ANS 32 91 13.2.	3 6100)		Total Tilliı	ng Cost/Acre	\$106.29
Description Disc harrowing, 6" deep (MEA	ANS 32 91 13.2.	3 6100)		Rate – PLS LBS / Acre	Seeds per SQ. FT	\$106.29
Description Disc harrowing, 6" deep (MEA EEDING Seed Mix Bluebunch Wheatgrass - Secan		3 6100)		Rate – PLS LBS / Acre	Seeds per SQ. FT	\$106.29 \$106.29 Cost /Acre
Description Disc harrowing, 6" deep (MEA EEDING Seed Mix Bluebunch Wheatgrass - Secan Indian Ricegrass - Native		3 6100)		Rate – PLS LBS / Acre 10.00 2.00	Seeds per SQ. FT 32.14 6.47	\$106.29 \$106.29 Cost /Acre \$78.50 \$14.00
Description Disc harrowing, 6" deep (MEA EEDING Seed Mix Bluebunch Wheatgrass - Secan Indian Ricegrass - Native Crested Wheatgrass - Nordan		3 6100)		Rate – PLS LBS / Acre 10.00 2.00 4.00	Seeds per SQ. FT 32.14 6.47 18.37	\$106.29 \$106.29 Cost /Acre \$78.50 \$14.00 \$16.40
Description Disc harrowing, 6" deep (MEA EEDING Seed Mix Bluebunch Wheatgrass - Secan Indian Ricegrass - Native			Seed Mix	Rate – PLS LBS / Acre 10.00 2.00	Seeds per SQ. FT 32.14 6.47	\$106.29 \$106.29 Cost /Acre \$78.50 \$14.00

Description

Hydro seeding (MEANS 32 92 19.14 0200)		\$919.12
	Total Seed Application Cost/Acre	\$919.12

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - Curtail @ 4.0 pt/ac	1.00	ACRE	\$7.34	\$7.34
Hydromulch tackifier, <15 ac. {Materials Only}	1.00	ACRE	\$496.58	\$496.58
Silt fence, Materials (MEANS 31 25 14.16	40.00	LINEAR	\$0.46	\$18.40
1000)		FOOT		
Total Mulch Materials Cost/Acre				\$522.32

Application

Description	Cost /Acre
NA-mulch application incl. with hydroseeding	\$0.00
Silt fence, Labor + Maint for 6 months (MEANS 32 25 14.16 1100)	\$6.20
Weed spray, hand, non-aquatic area, nox. [DMG]	\$184.32
Total Mulch Application Cost/Acre	\$190.52
EK	\$190.32

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

1 1 D 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	THE PLANTS SEEDING		φ1,000.71	_
Estimated Failure Rate:	50%	Cost /Acre*:	\$1 888 74	
No. of Acres:	4	Cost /Acre:	\$1,888.74	

*Selected Replanting Work Items: TILLING, SEEDING, MULCHING

Initial Job Cost: \$7,554.96

Reseeding Job Cost: \$3,777.48

Total Job Cost: \$11,332

16.00

BULLDOZER RIPPING WORK

	Task description:	Stockpile- Rip							
Site	: Sheehan Pit	Permit Ac	etion:201	8-07	Permit/Job#	#: <u>M20070</u>	58		
	PROJECT IDENTIFICATION								
	Task #: 04A	A State: Colo	orado		Abbreviation:	None			
		0/2018 County: Mor			Filename:	M058-04	a		
	User: AC								
	Agency	or organization name: <u>DRMS</u>							
	HOURLY EQ	UIPMENT COST							
	Basic I	Machine: Cat D8T - 8SU			Horsepower:	310			
	Ripper Atta	-				per day			
	••					(CRG)			
	Cost Breakdown:								
	Cost Bigaing with				Utilization %				
		Ownership Cost/Hour:		\$93.62	NA				
		Operating Cost/Hour:		\$73.35	100				
		er Ownership Cost/Hour:		\$8.93	NA				
	Ripp	per Operating Cost/Hour:		\$7.78	100				
		Operator Cost/Hour:		\$41.52	NA				
		Total Unit Cost/Hour:	3	\$225.20					
		Total Fleet Cost/Hour:	\$225.20						
	MATERIAL Q	OUANTITIES	Selected	estimating 1	method: Area				
	Alternate Method		Beleeted	estimating i	Tireu				
Seismic:	NA	 Bank Volu	ıme: NA		BCY	NA			
Area:	$\frac{10.62}{0.62}$	acres Rip Depth			Volume: 2,001	IVA	BCY or CC		
					<u> </u>				
		Source of estimated quantity:	viaximum d	isturbance i	IN AMI-1				
	HOURLY PRO	<u>DDUCTION</u>							
	Seismic:								
		Seismic Velocity:		NA	feet/second				
	Area:								
		Average Ripping Depth:		2.00	mph				
		Average Ripping Width:		7.08	degrees				
		Average Ripping Length:		100.00	feet				
		Average Dozer Speed:		88.00	feet				
		Average Maneuver Time:		0.25	feet				
		Production per unit area:		0.703	acres/hour				
	Job Condition Co	rrection Factors							
	Una	adjusted Hourly Unit Production:		0.703	Acres/hr				
		Site Altitude:		6,630	feet				
		Altitude Adj:		1.00	(CAT HB)				
		Job Efficiency:		0.83	(1 shift/day)				
		Net Correction:		0.83	multiplier				
		Adjusted Hourly Unit Produ	ction:	0.58	Acres/hr				
		Adjusted Hourly Fleet Produ		0.58	Acres/hr				
	JOB TIME AND COST								
	Fleet size:	1 Grader(s)	То	tal job time	: 1.06	Ho	urs		
	Unit cost:	\$385.719 Per acre	т,	otal job cost	t: \$239				
	Omi Cost.	φ303./17 101 αστο	10	rai jou cost	ΨΔ <i>39</i>				

BULLDOZER WORK

Task description:	Stockp	ile-Distribute Topsoil			
e: Sheehan Pit		Permit Action:	2018-07	Permit/Job#:	M2007058
PROJECT IDEN	NTIFICATION	<u>N</u>			
Task #: 05A		State: Colorado		Abbreviation:	None
Date: 8/20/	2018	County: Moffat		Filename:	M058-05a
User: ACY		•		•	
Agency or	r organization na	me: DRMS			
HOURLY EQU	PMENT COS	<u>T</u>			
Basic Machine:	Cat D8T - 8S	U			
Horsepower:	310	.1			
Blade Type:	Semi-Univers		<u> </u>		
Attachment: Shift Basis:	3-shank rippe 1 per day	r			
Data Source:	(CRG)		<u></u>		
	(CRO)				
Cost Breakdown:			** *****		
O	T	ф02 с 2	<u>Utilization %</u>		
Ownership Cost/F		\$93.62 \$73.35	NA 100		
Operating Cost/F Ripper own. Cost/F		\$8.93	NA		
Ripper op. Cost/F		\$2.33	30		
Operator Cost/F		\$41.52			
Operator Cost/F	10u1.	Φ41.32	NA		
Total unit Cost/Hou	ır: \$219.75				
Total Fleet Cost/Ho					
MATERIAL QU	<u> JANTITIES</u>				
Initial Volume:	250				
Swell factor:	1.215				
Loose volume:	304 LCY				
-					
Source of estimated	_	3" over 0.62 ac distur	bed		
Source of estimated	swell factor:	Cat Handbook			
HOURLY PROI	<u>DUCTION</u>				
Average push dista	nce: 7	5 feet			
Unadjusted hourly		,017.1 LCY/hr			
Materials consisten	cy description:	Partly consolidated	stockpile 1.1		
Average push gradi Average site altitud		et			
Material weight:	1,600 lb				
Weight description	·				
			Carres		
Job Condition Corr	ection Factor erator Skill:	0.750	Source (AVG.)		
	onsistency:	1.100	(CAT HB)		
			` '		
DUZI			` ,		
Dozi	ng method: Visibility:	1.000 1.000	(GEN.) (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:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.7877

Adjusted unit production: 801.17 LCY/hr
Adjusted fleet production: 801.17 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.274/LCY

Total job time: 0.38 Hours
Total job cost: \$83

REVEGETATION WORK

	Sheehan Pit		Permit A	ction: 2018	-07		Permit/Ioh#	: M2007058
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				<u> </u>		2 0111110,000.11	
R	OJECT IDENTIFIC	CATION						
	Task #: 06A	State	· Colo	orado		Ał	obreviation:	None
	Date: $\frac{8/20}{2018}$	County						M058-06a
	User: ACY					<del>_</del>	_	11000 000
	Agency or organiz	zation name:	DRMS					
	RTILIZING							
a	terials			TI:4a /				
1	Description			Units / Acre	Unit	Co	st / Unit	Cost /Acre
				Tiere		_		_
						\$		\$
						To	tal Fertilizer	
							Materials	
							Cost/Acre	\$0.00
]	Description							Cost /Acre
	Description			Total	Fertilizer	Applicatio	on Cost/Acre	
	Description  LLING			Total	Fertilizer	Application	on Cost/Acre	\$
II.	LLING			Total	Fertilizer	Application	on Cost/Acre	\$ \$0.00
	LLING Description	o (MEANS 32 91	13.23.6		Fertilizer	Application	on Cost/Acre	\$ \$0.00 Cost /Acre
	LLING	) (MEANS 32 91	13.23 6		Fertilizer	Application	on Cost/Acre	\$ \$0.00
	LLING Description	o (MEANS 32 91	13.23 6				on Cost/Acre	\$ <b>\$0.00</b> Cost /Acre \$106.29
]	LLING  Description  Disc harrowing, 6" deep	o (MEANS 32 91	13.23 6					\$ \$0.00 Cost /Acre
]	LLING Description	o (MEANS 32 91	13.23 61					\$ <b>\$0.00</b> Cost /Acre \$106.29
	LLING  Description Disc harrowing, 6" deep	o (MEANS 32 91	13.23 6			Fotal Tillin	ng Cost/Acre	\$0.00 Cost /Acre \$106.29 \$106.29
	LLING  Description  Disc harrowing, 6" deep	o (MEANS 32 91	13.23 6			Fotal Tillin Rate – PLS	ng Cost/Acre	\$ <b>\$0.00</b> Cost /Acre \$106.29
	LLING  Description Disc harrowing, 6" deep	) (MEANS 32 91	13.23 61			Rate – PLS LBS /	ng Cost/Acre	\$0.00 Cost /Acre \$106.29 \$106.29
	LLING  Description  Disc harrowing, 6" deep  EDING  Seed Mix		13.23 61			Rate – PLS LBS / Acre	ng Cost/Acre  Seeds per SQ. FT	\$0.00  Cost /Acre \$106.29  \$106.29
	Description Disc harrowing, 6" deep  EDING Seed Mix  Indian Ricegrass - Nativ	ve	13.23 6			Rate – PLS LBS / Acre 1.00	Seeds per SQ. FT	\$0.00  Cost /Acre \$106.29  \$106.29  Cost /Acre
	Description Disc harrowing, 6" deep  EDING Seed Mix  Indian Ricegrass - Nativ Western Wheatgrass - N	ve Jative	13.23 6			Rate – PLS LBS / Acre 1.00 2.90	Seeds per SQ. FT  3.24 7.32	\$0.00  Cost /Acre \$106.29  \$106.29  Cost /Acre  \$7.00 \$20.79
	LLING  Description Disc harrowing, 6" deep  EDING  Seed Mix  Indian Ricegrass - Nativ Western Wheatgrass - N Needlegrass, Green - Lo	re Vative Jodorm	13.23 6			Rate – PLS LBS / Acre 1.00 2.90 5.50	Seeds per SQ. FT  3.24  7.32  22.85	\$0.00  Cost /Acre \$106.29  \$106.29  Cost /Acre  \$7.00 \$20.79 \$27.39
	Description Disc harrowing, 6" deep  EDING Seed Mix  Indian Ricegrass - Nativ Western Wheatgrass - N	re Vative Jodorm	13.23 6			Rate – PLS LBS / Acre 1.00 2.90	Seeds per SQ. FT  3.24 7.32	\$0.00  Cost /Acre \$106.29  \$106.29  Cost /Acre  \$7.00 \$20.79

Description

Cost /Acre

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

#### **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Hay, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$288.00	\$576.00
Herbicide - Curtail @ 4.0 pt/ac	1.00	ACRE	\$7.34	\$7.34
Total Mulch Materials Cost/Acre				\$583.34

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$68.78
Power mulcher (MEANS 32 91 13.16 0350)		\$92.78
Weed spray, hand, non-aquatic area, nox. [DMG]		\$184.32
	<b>Total Mulch Application Cost/Acre</b>	\$345.88

## **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:
 0.62
 Cost /Acre:
 \$1,338.10

 Estimated Failure Rate:
 35%
 Cost /Acre*:
 \$1,338.10

*Selected Replanting Work Items: TILLING,SEEDING,MULCHING

Initial Job Cost: \$829.62

Reseeding Job Cost: \$290.37

Total Job Cost: \$1,120

4.00

# EQUIPMENT MOBILIZATION/DEMOBILIZATION

rask descr	ipiion: <b>ini</b>	uai Modilizatio	n of Reclamat	ion Equipn	nent		
ite: Sheehan Pit		Perm	it Action: 20	18-07	Permit/Jo	b#: M2007058	
PROJECT	T IDENTIFICAT	<u>ION</u>					
Task #:			Colorado		Abbreviation:	None	
Date: User:		County:	Moffat		Filename:	M058-07a	
Aş	gency or organizatio	n name: DRM	IS				
<u>EQUIPMI</u>	ENT TRANSPOR	T RIG COST					
						1 per day	
					Cost Data Source:	CRG Data	
	Truck Tractor Desc	cription: GEN	ERIC ON-HIC		RUCK TRACTOR, 6X4,	DIESEL POWERED,	
				400 H	IP (2ND HALF, 2006)		
	Truck Trailer Desc	cription:	GENERIC FOLDING GOOSENECK, DROP DECK EQUIPMENT				
				TRAILE	R (25T, 50T, AND 100T)		
Cost Breakd	lown:						
Available	Rig Capacities	0-25 Tons	26-50 To	ns 5	1+ Tons		
Owi	Ownership Cost/Hour: \$16.63		\$18.37		\$22.33		
Op	erating Cost/Hour:	\$44.38	\$46.13		\$50.07		
Ō	perator Cost/Hour:	\$27.66	\$27.66		\$27.66		
	Helper Cost/Hour:	\$0.00	\$25.39		\$25.39		
Tot	al Unit Cost/Hour:	\$88.67	\$117.55		\$125.45		

# **NON ROADABLE EQUIPMENT:**

Machine	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return Trip	DOT Permit
Description	Unit	Cost/hr/ unit	Cost/hr/uni	Size	Cost/hr/	Cost/hr/ fleet	Cost/ fleet
	(TONS)		t		fleet		
Cat D8T - 8SU	53.08	\$102.55	\$125.45	1	\$228.00	\$125.45	\$250.00
Drill/Broadcast	25.00	\$15.54	\$88.67	1	\$104.21	\$88.67	\$250.00
Seeder with							
Tractor							
Power Mulcher	6.00	\$8.33	\$88.67	1	\$97.00	\$88.67	\$250.00
(Bowie LD-90)							

Subtotals: \$429.21 \$302.79 \$750.00

## **ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Hydroseeder with Tractor	\$73.49	1	\$73.49	\$73.49
Light Duty Pickup, 4x4, 1 T.	\$19.39	1	\$19.39	\$19.39
Crew				

Subtotals:	\$92.88	\$92.88
Subibliais.	D74.00	D74.00

## **EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region: CRAIG, CO

Total one-way travel distance: 60.00 miles

Average Travel Speed: 50.00 mph

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

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	1.20	1.20
Return Time (Hours):	1.20	1.20
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	3.40	2.40

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

Total job cost: 6.80 Hours

Total job cost: \$4,338

# EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description:	secondary Mobiliz	ation of Reclamati	on Equipment			
Site: Sheehan Pit	Permi	t Action: 2018-07	7 Permit/	Permit/Job#: M2007058		
PROJECT IDENTIFICA	<u>TION</u>					
Task #: 08A Date: 8/20/2018		Colorado Moffat	Abbreviation Filename			
User: ACY						
Agency or organizat	ion name: DRM	S				
EQUIPMENT TRANSPO			Shift basis: Cost Data Source:	1 per day CRG Data		
Truck Tractor De	escription: GEN		AY TRUCK TRACTOR, 6X 400 HP (2ND HALF, 2006)	4, DIESEL POWERED,		
Truck Trailer D	escription:	GENERIC FOLDIN	IG GOOSENECK, DROP DI AILER (25T, 50T, AND 100	_		
Cost Breakdown:						
<b>Available Rig Capacities</b>	0-25 Tons	26-50 Tons	51+ Tons			
Ownership Cost/Hour		\$18.37	\$22.33			
Operating Cost/Hour		\$46.13	\$50.07			
Operator Cost/Hour		\$27.66	\$27.66			
Helper Cost/Hour	· ·	\$25.39	\$25.39			
Total Unit Cost/Hour	: \$88.67	\$117.55	\$125.45			

## **NON ROADABLE EQUIPMENT:**

Machine	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return Trip	DOT Permit
Description	Unit	Cost/hr/ unit	Cost/hr/uni	Size	Cost/hr/	Cost/hr/ fleet	Cost/ fleet
	(TONS)		t		fleet		
Drill/Broadcast	25.00	\$15.54	\$88.67	1	\$104.21	\$88.67	\$250.00
Seeder with							
Tractor							
Power Mulcher	6.00	\$8.33	\$88.67	1	\$97.00	\$88.67	\$250.00
(Bowie LD-90)							

Subtotals: \$201.21 \$177.34 \$500.00

## **ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Hydroseeder with Tractor	\$73.49	1	\$73.49	\$73.49
Light Duty Pickup, 4x4, 1 T. Crew	\$19.39	1	\$19.39	\$19.39

Subtotals:	<b>\$92.88</b>	<b>\$92.88</b>

## **EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region:

Total one-way travel distance:

Average Travel Speed:

CRAIG, CO
miles
50.00
mph

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

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	1.20	1.20
Return Time (Hours):	1.20	1.20
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	3.40	2.40

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

Total job cost: 6.80 Hours

Total job cost: \$2,534

# **DEMOLITION WORK**

Main-Remove Shed

Task description:

Site: Sheehan Pit Per		Permit Action: 2018-	Permit Action: 2018-07 P		Permit/Job#: <u>M2007058</u>		
PROJECT IDE	NTIFICATION						
Task #: 09A Date: 8/20/ User: ACY	2018 Co	State: Colorado unty: Moffat		Abbreviati Filena			
Aş	gency or organization nar	ne: DRMS					
UNIT COSTS				Location	adjustment	<u>: 95.50 %</u>	
Structure or Ite Description	em Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost	
Shed	10' x 8' x 8'	Bldg. (SN) demo./off-site disposal in approved landfill - Max. 15 mile haul	640.00	CF	\$0.35	\$224.00	
Job Hours:	2.00	Subtotal (unadjusted): \$2	24.00	(adju	otal Cost usted for ocation):	\$213.92	