August 29, 2016

Jason Burkey Oldcastle SW Group, Inc. dba United Companies 2273 River Road Grand Junction, CO 81502



1313 Sherman Street, Room 215 Denver, CO 80203

#### RE: North Bank Resources, Permit No. M-2006-018, Technical Revision (TR-4) Approval

Dear Mr. Burkey:

On August 29, 2016 the Division of Reclamation, Mining and Safety (Division) approved the Technical Revision request (TR-4) submitted on August 16, 2016, addressing the following:

Revise seed mix

The terms of the TR-4 approved by the Division are hereby incorporated into Permit No. M-2006-018. All other conditions and requirements of the permit remain in full force and effect.

The estimated liability amount of \$231,576 exceeds the \$196,600 Financial Warranty currently held for this site. If you have not already done so, please submit additional bond in the amount of \$34,976. 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

my Geldell

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

Cc:

Russ Means, Senior EPS, Grand Junction DRMS



#### **COST SUMMARY WORK**

te: Nor	rth Bank Resources	Permit Action:	TR-4	Permit/Job	#: <u>M2006018</u>
PROJ	ECT IDENTIFIC	<u>ATION</u>			
	sk #: ACY Date: 9/6/2016	State: Colorado County: Garfield		Abbreviation: Filename:	None M018-ACY
	Jser: ACY	County: Garriela			MOTO ACT

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

Task		Form	Fleet	Task	
Task	Description	Used	Size	Hours	Cost
01a	Remove overland conveyor	DEMOLISH	1	40.00	\$100,728.32
02a	Reduce remaining slopes to 3H:1V and final site	DOZER	2	39.07	\$12,512.00
	grading		ļ		
03a	Transport topsoil to areas that will be seeded	LOADER	2	75.74	\$21,288.00
03b	Spread topsoil	DOZER	2	16.12	\$5,162.00
04a	Revegetate upland areas (3.3 ac cell B & 14. ac Cell A)	REVEGE	1	40.00	\$29,954.00
04b	Revegetate riparian areas (3.3 ac Cell B & 1.7 ac Cell A)	REVEGE	1	10.00	\$12,915.00
05a	Mobilize reclamation crew and equipment	MOBILIZE	1	2.57	\$4,714.00
		SUBTO	TALS:	223.5	\$187,273

#### **INDIRECT COSTS**

#### OVERHEAD AND PROFIT:

Liability insurance:2.02Total =\$3,782.91Performance bond:1.05Total =\$1,966.37Job superintendent:111.75Total =\$8,323.14

Profit: 10.00 Total = \_\_\$18,727.30

TOTAL O & P = \$32,799.72

CONTRACT AMOUNT (direct + O & P) = \$220,072.72

#### LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): 500.00 Total = 500.00

Engineering work and/or contract/bid preparation: 0.00 Total = \$0.00

Reclamation management and/or administration: 5.00 \$11,003.64

CONTINGENCY: 0.00 Total = \$0.00

TOTAL INDIRECT COST = \$44,303.36

TOTAL BOND AMOUNT (direct + indirect) = \$231,576.36

## **DEMOLITION WORK**

Task descrip	tion: Remo	ve overland conveyor				
Site: North Ban	k Resources	Permit Action: TR-4		Pe	ermit/Job#: _	M2006018
PROJECT IDENT	<u>IFICATION</u>					
Task #: 01A Date: 9/6/2016 User: ACY Agence		State: Colorado unty: Garfield  ne: DRMS		Abbreviat Filena		
<u>UNIT COSTS</u>				Location	adjustment:	: 102.20 %
Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	<b>Total Cost</b>
Conveyor	5,600 ft. length	Conveyor, overland, including supports - 5 ft. W x 6 ft. H housing	5,600.00	LF	\$17.60	\$98,560.00
Job Hours:	40 00	Subtotal (unadjusted): \$98	s 560 00	(adj	otal Cost usted for ocation):	\$100 728 32

## **BULLDOZER WORK**

Task description:	Reduce	remainin	g slopes to	3H:1V and fina	ıl site gradir	ng	
: North Bank Resour	ces	Perr	nit Action:	TR-4		Permit/Job#:	M2006018
PROJECT IDENTI	FICATION						
Task #: 02A		State:	Colorado			Abbreviation:	None
Date: $\frac{02A}{9/6/2016}$		County:	Garfield			Filename:	M018-01a
User: ACY		Jouinty.	Garricia			Thename.	W1016-01a
	<del></del>						
Agency or org	ganization nan	ne: DR	MS				
HOURLY EQUIPM	IENT COST	<u>r</u>					
	Cat D8T - 8U						
· <u> </u>	05						
• • • • • • • • • • • • • • • • • • • •	Iniversal			_			
	IA .						
	per day						
Data Source:(	CRG)						
Cost Breakdown:							
				<u>Utilizati</u>			
Ownership Cost/Hour			\$52.86	NA		<u> </u>	
Operating Cost/Hour			\$68.35	100		<u>—</u> .	
Ripper own. Cost/Hour			\$0.00	NA	1	<u>—</u> .	
Ripper op. Cost/Hour			\$0.00	0		_	
Operator Cost/Hour	:		\$38.89	NA	1	<u> </u>	
Total unit Cost/Hour:	\$160.10						
Total Fleet Cost/Hour:	\$320.20						
Total Ticet Cost Hour.	ψ320.20						
MATERIAL QUAN	TITIES						
	,874		<u>—</u> .				
	000 <b>,874</b> LCY						
Loose volume: 25	,0/4 LC I		_				
Source of estimated vol				on, Mining & S	afety		
Source of estimated sw	en ractor:	Cat Hand	DOOK				
HOURLY PRODUC	<u>CTION</u>						
Average push distance:		0 feet					
Unadjusted hourly prod	luction: 93	1.6 LCY/	hr				
Materials consistency d	lescription:	Compa	cted fill or e	mbankment 0.9			
Average push gradient:							
Average site altitude:	5,350 fee	t					
Material weight:	2,900 lbs/	LCY					
Weight description:	Sand and	gravel - l	Dry				
Job Condition Correction	on Factor			<u>S</u>	ource		
Operato	or Skill:	0.	750		AVG.)		
Material consi			900		AT HB))		
Dozing n		1.	000		GEN.)		
Vis	sibility:	1.0	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: 0.3554

Adjusted unit production: 331.09 LCY/hr
Adjusted fleet production: 662.18 LCY/hr

## **JOB TIME AND COST**

Fleet size: 2 Dozer(s)
Unit cost: \$0.484/LCY

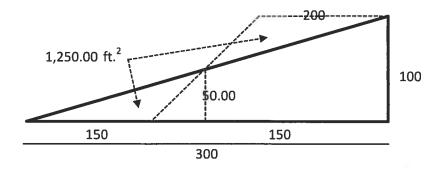
Total job time: 39.07 Hours
Total job cost: \$12,512

# Highwall reduction - cut and fill

Remaining grading in East reclaimed area

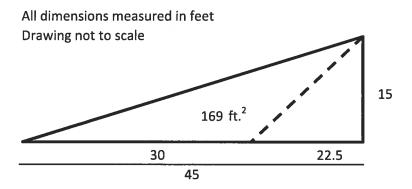
		_	
	100.0	lighwall Height (ft.)	Hi
	30	th of Highwall (lft.)	Lengt
H:1V	2.0	Initial Slope	****
H:1V	3	Desired Slope	
'	37,500	l to be moved (ft. <sup>3</sup> )	Volume of material
	1.389	to be moved (vd.3)	Volume of material t

All dimensions measured in feet Drawing not to scale



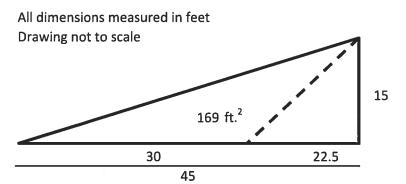
West highwall

VV CSt Highwall		_
Highwall Height (ft.)	15.00	
Length of Highwall (lft.)	900.00	
<b>– – –</b> Initial Slope	1.50	H:1V
Desired Slope	3.00	H:1V
Volume of material to be moved (ft.3)	151,875	
Volume of material to be moved (yd.3)	5,625	



South bank

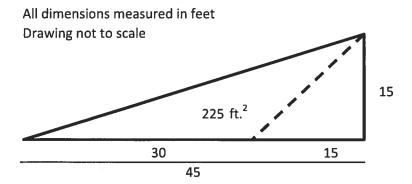
Highwall Height (ft.)	15
Length of Highwall (Ift.)	600.00
<b></b> Initial Slope	1.50 H:1V
——— Desired Slope	3.00 H:1V
Volume of material to be moved (ft.3)	101,250
Volume of material to be moved (yd.3)	3,750



North bank by stockpiles

· - · · · · · · · · · · · · · · · · · ·		
Highwall Height (ft.)	15	
Length of Highwall (lft.)	700.00	
<b>- — —</b> Initial Slope	1.00	H:1V
Desired Slope	3.00	H:1V
me of material to be moved (ft. <sup>3</sup> )	157,500	

Volume of material to be moved (ft.<sup>3</sup>) 157,500 Volume of material to be moved (yd.<sup>3</sup>) 5,833



## **Trench Volume**

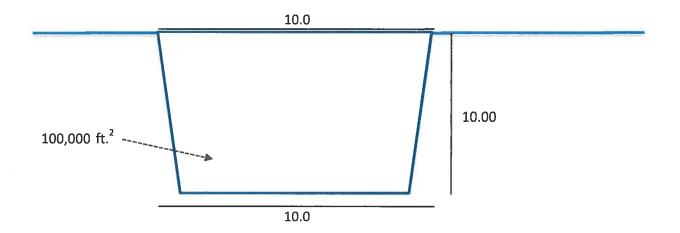
Backfill dewatering trench

Top Width of Trench (ft.)	10.0
Top Bottom of Trench (ft.)	
Length of Highwall (lft.)	
Trench Height (ft.)	10.0

Total Volume of material to be moved (ft. 3) 100,000

Total Volume of material to be moved (yd. 3) 3,704

Length of the original channel path within the permitted boundary



All dimensions measured in feet Drawing not to scale

## Highwall reduction - cut and fill

Active mine area, center pond

Highwall Height (ft.) 15.0

Length of Highwall (lft.) 300

Initial Slope 0.5 H:1V

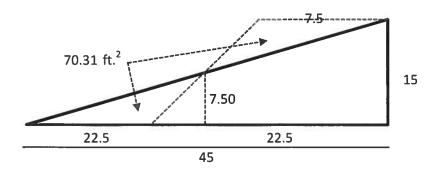
Desired Slope 3 H:1V

Volume of material to be moved (ft.3)

Volume of material to be moved (yd.3)

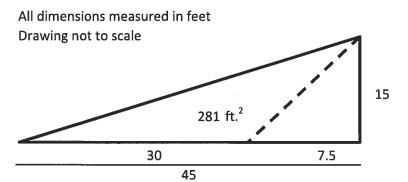
781

All dimensions measured in feet Drawing not to scale



Active mine area, center pond

riotire illine area, contor perio	
Highwall Height (ft.)	15
Length of Highwall (Ift.)	300.00
<b>– – –</b> Initial Slope	0.50 H:1V
Desired Slope	3.00 H:1V
Volume of material to be moved (ft. 3)	84,375
Volume of material to be moved (yd. <sup>3</sup> )	3,125



## Highwall reduction - cut and fill

North bank

Highwall Height (ft.) 15.0

Length of Highwall (lft.) 1600

----- Initial Slope 2.0

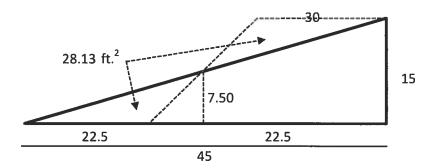
Desired Slope 3 H:1V

Volume of material to be moved (ft. 3) 45,000

Volume of material to be moved (yd.<sup>3</sup>)

1,667

All dimensions measured in feet Drawing not to scale



## WHEEL LOADER – LOAD AND CARRY WORK

Task description:	Transpo	rt topsoil to areas	mat will be se	eaea		
: North Bank Re	sources	Permit Action	: TR-4		Permit/Job#:	M2006018
PROJECT IDE	NTIFICATION					
Task #: 03A		State: Colorado	O		Abbreviation:	None
Date: 9/6/2	2016	County: Garfield			Filename:	M08-03a
User: ACY						
Agency of	or organization nan	ne: DRMS				
HOURLY EQU	IPMENT COST	<u> </u>				
Basic Mach	ine: CAT 972H			Horsepo	ower:	287
Attachme				Shift E		er day
1 10000	11015 040			Data So		CRG)
Cost Breakdown:						,
Cost Bleakdowii.			Utilization	%		
Ownership	Cost/Hour:	\$44.71	NA			
	Cost/Hour:	\$57.22	100			
Operator	Cost/Hour:	\$38.60	NA			
Total Unit	Cost/Hour:	\$140.53				
Total Flee	t Cost/Hour:	\$281.05	_			
MATERIAL Q	HANTITIES					
Initial volum		CCY	C11	f	000	
Loose volum			Swell	factor: 1.0	000	
	ource of estimated e of estimated swe		imate 16 ac. at	12" depth (A	Active cell A)	
HOURLY PRO	DUCTION					
Loader Cycle Time		ed Basic Cycle Tim	e (load, dump,	maneuver):	0.525	minutes
Cycle Time	e Factors			ĺ	_ , , ,	
				l	Factor (min )	Source
	viateriai:   Mater	al up to 1/8" diame	ter 0.02		Factor (min.) 0.020	Source (Cat HB)
		al up to 1/8" diame		ss 0.01	0.020 0.010	(Cat HB)
	tockpile: Conve		0 ft. high or le		0.020	
S Truck Ov	tockpile: Conve vnership: No ad	yor or dozer piled 1	0 ft. high or le tapplicable 0.0	00	0.020 0.010	(Cat HB) (Cat HB)
S Truck Ov O	tockpile: Convey vnership: No ad peration: No ad	yor or dozer piled 1 justment - factor no ljustment - factor no nal target 0.00	0 ft. high or le t applicable 0.0 ot applicable 0.	00	0.020 0.010 0.000	(Cat HB) (Cat HB) (Cat HB)
S Truck Ov O	tockpile: Convey vnership: No ad peration: No ad	yor or dozer piled 1 justment - factor no ljustment - factor no nal target 0.00 Net C	0 ft. high or le t applicable 0.0 t applicable 0.0 cycle Time Adj	00 00 ustment:	0.020 0.010 0.000 0.000 0.000 0.000 0.030	(Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
S Truck Ov O	tockpile: Convey vnership: No ad peration: No ad	yor or dozer piled 1 justment - factor no ljustment - factor no nal target 0.00 Net C	0 ft. high or le t applicable 0.0 ot applicable 0.	00 00 ustment:	0.020 0.010 0.000 0.000 0.000	(Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)
S Truck Ov O	tockpile: Conve vnership: No ad peration: No ad o Target: Nomin	yor or dozer piled 1 justment - factor no ljustment - factor no nal target 0.00 Net C Adju	0 ft. high or le t applicable 0.0 t applicable 0.0 cycle Time Adj	00 00 ustment:	0.020 0.010 0.000 0.000 0.000 0.000 0.030	(Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
S Truck Ov O Dum	tockpile: Conveyenceship: No adoperation: No a	yor or dozer piled 1 justment - factor no ljustment - factor no nal target 0.00  Net C  Adju  s  irt, little maintenand	t applicable 0.0 or applicable 0.0 or applicable 0.0 cycle Time Adjusted Basic Cycle, no water, 2'	oo	0.020 0.010 0.000 0.000 0.000 0.030 0.555	(Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
S Truck Ov O Dum	tockpile: Conveyenceship: No adoperation: No a	yor or dozer piled 1 justment - factor no ljustment - factor no nal target 0.00 Net C Adju	t applicable 0.0 or applicable 0.0 or applicable 0.0 cycle Time Adjusted Basic Cycle, no water, 2'	oo	0.020 0.010 0.000 0.000 0.000 0.030 0.555	(Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
S Truck Ov O Dum	tockpile: Convey vnership: No ad peration: No	yor or dozer piled 1 justment - factor no ljustment - factor no nal target 0.00  Net C  Adju  s  irt, little maintenand	t applicable 0.0 or applicable 0.0 or applicable 0.0 cycle Time Adjusted Basic Cycle, no water, 2'	oo	0.020 0.010 0.000 0.000 0.000 0.030 0.555	(Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
S Truck Ov O Dum  Rolling Resistance	tockpile: Convergence Converge	yor or dozer piled I justment - factor no ljustment - factor no nal target 0.00 Net C Adju s irt, little maintenand irt, little maintenand	to ft. high or let applicable 0.0 or applicable 0.0 dycle Time Adjusted Basic Cycle, no water, 2'ce, no water, 2'	oo	0.020 0.010 0.000 0.000 0.000 0.030 0.555 ion 5.0	(Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes
S Truck Ov O Dum  Rolling Resistance	tockpile: Convergence Converge	yor or dozer piled I justment - factor no ljustment - factor no nal target 0.00  Net C  Adju	to ft. high or let applicable 0.0 or applicable 0.0 dycle Time Adjusted Basic Cycoce, no water, 2'ce, no water, 2'ce, Rolling	oo	0.020 0.010 0.000 0.000 0.000 0.030 0.555 ion 5.0 ion 5.0	(Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
S Truck Ov O Dum  Rolling Resistance	tockpile: Convergence Converge	yor or dozer piled I justment - factor no ljustment - factor no nal target 0.00 Net C Adju s irt, little maintenand irt, little maintenand	to ft. high or let applicable 0.0 or applicable 0.0 dycle Time Adjusted Basic Cycle, no water, 2'ce, no water, 2'	oo	0.020 0.010 0.000 0.000 0.000 0.030 0.555 ion 5.0	(Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes

Total Travel Time: 0.8771 minutes
Total Cycle Time: 1.4321 minutes

### **Load Bucket Capacity**

Rated Capacity: 5.60 LCY (heaped)

Bucket Fill Factor: 0.875 Loose material - 1" and over (85 - 90%) 0.875

Adjusted Capacity: 4.90 LCY

### Job Condition Correction Factors

Site Altitude: 5350 feet

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

Unadjusted Hourly Unit Production: 205.30 LCY/Hour Adjusted Hourly Unit Production: 170.40 LCY/Hour Adjusted Hourly Fleet Production: 340.79 LCY/Hour

### **JOB TIME AND COST**

Fleet size:	2	Loader(s)	Total job time:	75.74	Hours
Unit cost:	\$0.825	/LCY	Total job cost:	\$21,288	

## **BULLDOZER WORK**

Task description:	Spre	ad topsoil				
: North Bank Res	ources	Peri	nit Action:	TR-4	Permit/Job#:	M2006018
PROJECT IDEN	NTIFICATION	<u>ON</u>				
Task #: 03B		State:	Colorado		Abbreviation:	None
Date: 9/6/2	016	County:	Garfield		Filename:	M018-03b
User: ACY		J			-	
Agency or	organization	name: DR	RMS			
HOURLY EQUI	PMENT CO	OST				
Basic Machine:	Cat D8T - 8	<u>-</u>				
Horsepower:	305			<del></del>		
Blade Type:	Universal					
Attachment:	NA					
Shift Basis:	1 per day			<u> </u>		
Data Source:	(CRG)			<u>—</u>		
Cost Breakdown:						
				<u>Utilization %</u>		
Ownership Cost/H			\$52.86	NA		
Operating Cost/H			\$68.35	100		
Ripper own. Cost/H			\$0.00	NA		
Ripper op. Cost/H			\$0.00	0		
Operator Cost/H	lour:		\$38.89	NA		
MATERIAL QU Initial Volume: Swell factor:	25,813 1.000					
Loose volume:	<b>25,813</b> LCY					
Source of estimated Source of estimated	l swell factor:	16 ac of t Cat Hand		eep (active cell A)		
HOURLY PROI						
Average push distart Unadjusted hourly						
j j -		100 feet 931.6 LCY/	hr			
Materials consisten	production:	931.6 LCY/	hr stockpile 1.2			
Materials consisten  Average push gradi  Average site altitud	production:cy description ent:0 %	931.6 LCY/ : Loose s				
Average push gradi	production:	931.6 LCY/ : Loose s				
Average push gradi Average site altitud	production:	931.6 LCY/ Loose s  feet  lbs/LCY				
Average push gradi Average site altitud Material weight: Weight description:	production:	931.6 LCY/ Loose s  feet  lbs/LCY  oil	stockpile 1.2	Source (AVG.)		
Average push gradi Average site altitud Material weight: Weight description: Job Condition Corr Ope	production:	931.6 LCY/ Loose s  feet  lbs/LCY  oil  0.	stockpile 1.2	(AVG.)		
Average push gradi Average site altitud Material weight: Weight description: Job Condition Corr Ope Material co	production:	931.6 LCY/ : Loose s  feet  lbs/LCY oil  0. 1.	stockpile 1.2			

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: 0.8593

Adjusted unit production: 800.52 LCY/hr
Adjusted fleet production: 1601.04 LCY/hr

## **JOB TIME AND COST**

Fleet size: 2 Dozer(s)
Unit cost: \$0.200/LCY

Total job time: 16.12 Hours 55,162

## REVEGETATION WORK

Task description:	Revegetate upland a	reas (5.6 ac ce	ll B & 13.7 a	c Cell A)		
North Bank Resour	Permit Permit	Action: TR-4	ļ		Permit/Job#	: M2006018
PROJECT IDENTIF	FICATION					
Task #: 04A		olorado		۸h	breviation:	None
Date: 9/6/2016		arfield		AU		None M018-04a
User: ACY	County	arricia		=	Thename.	W1010-0 <del>-1</del> α
Agency or org	anization name: DRMS					
<u>ERTILIZING</u>						
Description		Units / Acre	Unit	Cos	t / Unit	Cost /Acre
				\$		\$
				Tot	al Fertilizer Materials Cost/Acre	\$0.00
Description						Cost /Acre
		Total	Fertilizer A	pplicatio	n Cost/Acre	\$0.00
<u> </u>						
Description						Cost /Acre
Disc harrowing, 6" d	eep (MEANS 32 91 13.23	6100)				\$107.59
			Та	tal Tillin	g Cost/Acre	
SEEDING			- 10	tai Illiii	g Cost/Acre	\$107.59
ELDING				Rate –		
Seed Mix				PLS	Seeds	Cost /Acre
				LBS /	per SQ.	
				Acre	FT	
Alkali Sacaton				2.00	78.05	\$45.72
Alkaligrass, Fult's				2.00	55.10	\$6.46

Blue Grama - Native

Saltgrass, Inland

Galleta

Bottlebrush Squirreltail

Western Wheatgrass - Arriba

\$10.37

\$24.91

\$25.25

\$9.23 \$23.54

\$145.48

1.00

1.00

1.00

2.50

0.50

10.00

**Totals Seed Mix** 

16.32

4.41

3.65

6.31

6.93

170.77

Application

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

### **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - 2,4D @ 1.0 pt/ac	1.00	ACRE	\$1.25	\$1.25
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$246.00	\$492.00
Total Mulch Materials Cost/Acre				\$493.25

**Application** 

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$66.02
Power mulcher (MEANS 32 91 13.16 0350)		\$97.14
Weed spray, truck, aquatic area, nox. [DMG]		\$62.72
	<b>Total Mulch Application Cost/Acre</b>	\$225.88

### **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:
 19.3
 Cost /Acre:
 \$1,204.20

 Estimated Failure Rate:
 25%
 Cost /Acre\*:
 \$1,204.20

\*Selected Replanting Work Items: TILLING, SEEDING, NURSERY, MULC

HING

Initial Job Cost: \$23,241.06

Reseeding Job Cost: \$5,810.27

Total Job Cost: \$29,051

Job Hours: 40.00

## **REVEGETATION WORK**

Description	Task description:	Revegetate ripari	an areas (3.3 ac (	Cell B & 1.7	7 ac Cell A)		
Task #: 04B	North Bank Resour	rces Peri	Permit Action: TR-4 Permit/Job#:				: <u>M2006018</u>
Date:   9/6/2016   County:   Garfield   Filename:   M018-04b	PROJECT IDENTIF	<u>ICATION</u>					
Date:   9/6/2016   County:   Garfield   Filename:   M018-04b     User:   ACY	Task #: 04B	State:	Colorado		Abb	reviation:	None
DRMS	Date: 9/6/2016					Filename:	M018-04b
Description	User: ACY						
Description	Agency or orga	anization name: DR	MS				
Description	FEDTII IZING						
Description	Materials						
S   S   Total Fertilizer   Materials   Cost/Acre   \$0.00				TIm:4	Cost	/ I Init	Cost /Acro
Total Fertilizer Materials Cost/Acre \$0.00  pplication  Description  Cost /Acre  \$  Total Fertilizer Application Cost/Acre \$0.00  FILLING  Description  Description  Cost /Acre  Solution  Cost /Acre  Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)  Total Tilling Cost/Acre \$107.59  FEDING  Rate - PLS Seeds PET SQ. ET Seeds PET SQ. ET SQ.	Description		Acre	Omt		. r Cint	
pplication  Description  Total Fertilizer Application Cost/Acre \$0.00  ILLING  Description  Cost /Acre \$0.00  Total Fertilizer Application Cost/Acre \$107.59  EEDING  Rate - PLS PLS PLS PET SC. ET PLS PET SQ. ET PT.					\$		\$
Description  Total Fertilizer Application Cost/Acre  Total Fertilizer Application Cost/Acre  Solution  Cost /Acre  Solution  Total Fertilizer Application Cost/Acre  Total Tilling Cost/Acre  Solution  Total Tilling Cost/Acre  Seed Mix  Rate - PLS Seeds PLS Seeds PLS PET SOLET Cost /Acre  Rate - PLS Seed Seed Seed Seed Seed Seed Seed Se					Tota		
pplication  Description  Total Fertilizer Application Cost/Acre \$0.00  ILLING  Description  Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)  Total Tilling Cost/Acre \$107.59  EEDING  Rate - PLS Seeds PLS FT SQ. F							Φ0.00
Description   Cost /Acr   \$   Total Fertilizer Application Cost/Acre   \$0.00						Cost/Acre	\$0.00
Total Fertilizer Application Cost/Acre \$0.00  TLLING  Description Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)  Total Tilling Cost/Acre \$107.59  EEDING  Rate - PLS PLS PET SQ. ET. ET.	Application  Description						Cost /Acre
TLLING  Description Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)  Total Tilling Cost/Acre \$107.59  EEDING  Rate - PLS Seeds per SQ. LBS / PT.							\$
Description			Total	Fertilizer	Application	n Cost/Acre	\$0.00
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)   \$107.59	<u> FILLING</u>						
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)   \$107.59	Description						Cost /Acre
Total Tilling Cost/Acre \$107.59  EEDING  Rate - PLS Seeds per SQ. LBS / ET Cost /Acr	Disc harrowing, 6" d	eep (MEANS 32 91 13	.23 6100)				
Rate - PLS Seeds   Cost /Acr   LBS / ET   ET	J			J	Fotal Tilling	g Cost/Acre	\$107.59
Seed Mix  Rate – PLS Seeds Cost /Acr LBS / per SQ. ET	SEEDING						,
Seed Mix  PLS Seeds Cost /Acr  LBS / per SQ.  FT					Rate –		
	Seed Mix				PLS LBS /	per SQ.	Cost /Acre
Acre   1	Alkali Sacaton					58 54	\$34.29

Alkali Bulrush

Common Rush

Beaked Sedge

Torrey's Rush

Nebraska Sedge

Softstem Bulrush

Creeping Spike Rush

Common Three Square

Alkaligrass, Fult's

\$5.97

\$16.38

\$0.32

\$184.26

\$137.17

\$363.14

\$106.46

\$112.60

\$41.50

0.10

0.10

0.10

0.90

0.80

1.50

0.80

0.40

0.30

0.99

1.42

2.75

7.35

12.48

10.10

112.95

6.28

330.58

Western Wheatgrass - Native	0.30	0.76	\$0.92
Saltgrass, Inland	0.10	1.39	\$4.71
Totals Seed Mix	6.90	545.59	\$1,007.71

Application

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

### **MULCHING and MISCELLANEOUS**

#### Materials

	Units /			
Description	Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - 2,4D @ 1.0 pt/ac	1.00	ACRE	\$1.25	\$1.25
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$246.00	\$492.00
Total Mulch Materials Cost/Acre				\$493.25

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$66.02
Power mulcher (MEANS 32 91 13.16 0350)		\$97.14
Weed spray, truck, aquatic area, nox. [DMG]		\$62.72
	<b>Total Mulch Application Cost/Acre</b>	\$225.88

### **NURSERY STOCK PLANTING**

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

## **JOB TIME AND COST**

~				
Estimated Failure Rate:	25%	Cost /Acre*:	\$2,066.43	
No. of Acres:	5	Cost /Acre:	\$2,066.43	

\*Selected Replanting Work Items: TILLING, SEEDING, NURSERY, MULC

HING

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

\$10,332.15

\$2,583.04

\$12,915

10.00

## EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description:	Mobilize reclan	ation crew and o	equipment		
e: North Bank Resources	Pe	rmit Action:TI	₹-4	Permit/Jol	o#: <u>M2006018</u>
PROJECT IDENTIFIC	<u>ATION</u>				
Task #: 05A	State:	Colorado		Abbreviation:	None
Date: 9/6/2016 User: ACY	County:	Garfield		Filename:	M018-05a
Agency or organiz	ation name: DI	RMS			
EQUIPMENT TRANSP	ORT RIG COS	ST			
EQUITION THAT	ONI MIG COL	<u>,,,                                  </u>		Shift basis:	1 per day
					CRG Data
Truck Tractor	Description: G	ENERIC ON-HIC	GHWAY TRUCK T 400 HP (2ND		DIESEL POWERED,
Truck Trailer	Description:	GENERIC FO	LDING GOOSENE	,	K EQUIPMENT
			TRAILER (25T,	50T, AND 100T)	
Cost Breakdown:					
Available Rig Capacities	0-25 Tons	s 26-50 To	ns 51+ Tons	<u></u>	
Ownership Cost/Hor	ur: \$16.63	\$18.37	\$22.33		
Operating Cost/Hor	ur: \$44.38	\$46.13	\$50.07		
Operator Cost/Ho	ur: \$27.66	\$27.66	\$27.66		
Helper Cost/Hor	\$0.00	\$25.39	\$25.30		

### **NON ROADABLE EQUIPMENT:**

Total Unit Cost/Hour:

\$88.67

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 - 8U	48.33	\$58.56	\$117.55	2	\$352.21	\$235.10	\$250.00
CAT 972H	28.00	\$36.70	\$117.55	2	\$308.50	\$235.10	\$500.00
Drill/Broadcast	25.00	\$39.59	\$88.67	1	\$128.26	\$88.67	\$250.00
Seeder with							
Tractor							
Power Mulcher	6.00	\$6.72	\$88.67	1	\$95.39	\$88.67	\$250.00
(Reinco M90)							

\$117.55

\$125.45

Subtotals: \$884.36 \$647.54 \$1,250.00

### **ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Light Duty Pickup, 4x4, 1 T. Crew	\$25.30	1	\$25.30	\$25.30

Subtotals:	\$25.30	\$25.30

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

Nearest Major City or Town within project area region:

Total one-way travel distance:

Average Travel Speed:

RIFLE

5.00

miles

35.00

mph

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

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.14	0.14
Return Time (Hours):	0.14	0.14
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.29	0.29

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

Total job cost: 2.57 Hours

Total job cost: \$4,714