# STATE OF COLORADO

#### DIVISION OF RECLAMATION, MINING AND SAFETY

Department of Natural Resources

1313 Sherman St., Room 215 Denver, Colorado 80203 Phone: (303) 866-3567 FAX: (303) 832-8106



John W. Hickenlooper Governor

Mike King Executive Director

Loretta Piñeda Director

February 12, 2014

Mr. Richard Connell Connell Resources, Inc. 7785 Highland Meadows Pkwy., Ste. 100 Fort Collins, CO 80528

Re: White River City Pit, Permit No. M-2006-084, Financial Warranty Increase, Revision No. SI-1

Dear Mr. Connell:

On February 12, 2014 the Division of Reclamation, Mining and Safety increased the current Financial Warranty for this permit to \$447,245.79, in accordance with Rule 4.2.1 of the Rules and Regulations. This is an increase of \$48,826.79.

The Division ordered amendment of the current Financial Warranty or submittal of a new Financial Warranty reflecting the increase, within 60 days from the date of this letter. If you wish to submit a different type of Financial Warranty, please contact Barbara Coria at (303) 866-3567 to determine the applicable form.

If you have any questions, please contact me at (970) 241-2042.

Sincerely,

Travis Marshall

**Environmental Protection Specialist** 

Enclosure – Reclamation Cost Estimate Update, SI-1

#### **COST SUMMARY WORK**

e: White R	ver City Pit		Permit Action:	SI-1	Permit/Jo	ob#: <u>M2006084</u>
PROJECT	T IDENTIFICA	TION				
Task #:	001	State:	Colorado	Abbi	eviation:	None
Date:	2/12/2014	County:	Rio Blanco	F	ilename:	M084-001
User:	THM	_			-	

#### TASK LIST (DIRECT COSTS)

Task		Form	Fleet	Task	
IASK	Description	Used	Size	Hours	Cost
01a	Dewatering of pit	PUMPING	1	897.95	\$44,763.00
02a	Construction of wetland shelf in Phase 3	DOZER	4	281.45	\$223,054.01
02b	Grading of pit slopes from 2H:1V to 3H:1V	DOZER	4	6.26	\$4,964.74
03a	Rip compacted areas prior to topsoiling	RIPPER	4	8.59	\$7,250.00
04a	Grading of pit slopes from 2H:1V to 3H:1V	DOZER	4	22.94	\$18,177.45
05a	Revegetate 11.8 acres with dry land seed mix	REVEGE	1	12.00	\$15,502.45
06a	Revegetate 11.4 acres with riparian seed mix	REVEGE	1	8.00	\$36,024.91
07a	Mobilization	MOBILIZE	1	3.77	\$7,603.71
		SUBTO	DTALS:	1240.96	\$357,340.27

#### **INDIRECT COSTS**

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

Liability insurance: 2.02% Total = \$7,218.27 Performance bond: 1.05% Total = \$3,752.07 Job superintendent: 171.50 hrs \$11,217.82 Total = Profit: 10.00% Total = \$35,734.03

> TOTAL O & P = \$57,922.19 CONTRACT AMOUNT (direct + O & P) = \$415,262.46

#### 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% \$20,763.12

CONTINGENCY: 3.00 Total = \$10,720.21

TOTAL INDIRECT COST = \$89,905.52

TOTAL BOND AMOUNT (direct + indirect) = \$447,245.79

## **PUMPING WORK**

Task description:	Dewatering of pit				
Site: White River City Pit	Perm	it Action:	SI-1	Permit/Job#:	M2006084
PROJECT IDENTIF	ICATION				
Task #: 01A Date: 2/12/2014 User: THM	State: _ County: _	Colorado Rio Blanco		Abbreviation: Filename:	None M084-01a
Agency or organ	nization name: DRI	MS			
HOURLY EQUIPME	ENT COST				
Make and Model:  Attachment 1:  Attachment 2:  Labor Unit 1:  Horsepower:	Description Centrifugal pump - Suction pipe - 8 in. Discharge pipe - 8 in. Pump operator (san	diam., 25 ft. n. D., 25 ft.		Quantity   1   1   1   1   1   1	
Shift Basis: 1 p	ner day 1.50 S Tons)				
Cost Breakdown:  Ownership Cost/H Operating Cost/H Operator Cost/H Total Unit Cost/H Total Fleet Cost/H	Hour:       \$18.5         Hour:       \$22.94         Hour:       \$49.85         Hour:       \$49.8	1 4 5	Utilization % NA 100 NA		
PUMPING QUANTIT					
Initial Pond Volu Final Pond Volu			gallons	Conversion factor:	325850.5800
Total Pond Inflow Sur	rface Area: 1,00		_	Unit inflow rate in gph/sq. ft.:	0.0879
per H	Hour: 87.9	0	gallons		
Source of	of estimated volume:	Previously	excepted values		
PUMPING TIME					
	timum Pump Capacity stimated Suction Head			gph/pump	
	nated Discharge Head			feet feet	
2011.	Total Head		<del></del>	feet	
	CPB Pump Capacity		111,000	gph/pump	
	Site Altitude		5,700	feet	
Adius	ted Pumping Capacity	,·	111,000	gph	
	ljusted Pumping Time			hours	
	during Initial Pumping		91,526	gallons	
	djusted Pumping Time			Hours	
	ide Adjustment Factor			(3% rule)	
	ump Efficiency Factor			(55 min./hr.)	
I otal Ac	ljusted Pumping Time		897.96	hours	
JOB TIME AND COS	<u>ST</u>		Total job time:	897.96	Hours
Unit cost: \$0.00	0387 /Gallon		Total job cost	\$44,763.0	0

## **BULLDOZER WORK**

Task description:	Construction of wetland she	If in Phase 3		
ite: White River City Pit	Permit Action:	SI-1	Permit/Job#:	M2006084
PROJECT IDENTIF	<u>ICATION</u>			
Task #: 02A	State: Colorado		Abbreviation:	None
Date: 2/12/2014	County: Rio Blance	Λ	Filename:	M084-02a
User: THM	County		i nename.	141004-024
Agency or organ	nization name: DRMS			
HOURLY EQUIPME	ENT COST			
Basic Machine: Cat	D8T - 8SU			
Horsepower: 310				
	ni-Universal			
Attachment: NA				
	er day	_		
	RG)			
Cost Breakdown:		1		
		<u>Utilization %</u>		
Ownership Cost/Hour:	\$56.69	NA		
Operating Cost/Hour:	\$104.03	100		
Ripper op. Cost/Hour:	\$0.00	0		
Operator Cost/Hour:	\$37.41	NA		
Total unit Cost/Hour:	\$198.13			
Total Fleet Cost/Hour:				
Total Fleet Cost/Hour.	\$792.53			
MATERIAL QUANT	TITIES			
Initial Volume: 229,				
Swell factor: 1.00				
Loose volume: 229,	931 LCY			
Source of estimated volume	me: Division of Reclamati	ion Mining & Cofety		
Source of estimated swel		ion, willing & Safety		
Source of estimated swer	Tactor: Cat Handbook			
HOURI V PRODUC	FION			
HOURLY PRODUCT	HON			
Average push distance:	250 feet			
Unadjusted hourly produ-				
3				
Materials consistency des	scription: Partly consolidated	stockpile 1.1		
Average push gradient:	-5 %			
Average site altitude:	5,700 feet			
Average site attitude.	3,700 1001			
Material weight:	2,600 lbs/LCY			
Weight description:	Clay and gravel - Wet			
Job Condition Correction	Factor	Course		
Operator		Source		
Material consist		(AVG.)		
		(CEN)		
Dozing me	ethod: 1.000	(GEN.)		

Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.115	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.885	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.5406

Adjusted unit production:

204.24 LCY/hr

Adjusted fleet production:

816.96 LCY/hr

## **JOB TIME AND COST**

Fleet size: 4 Dozer(s)

Unit cost: \$0.970/LCY

Total job time: 281.45 Hours
Total job cost: \$223,054.01

## **BULLDOZER WORK**

Task description: Grading of pit slopes fro	m 2H:1V to 3H:1V		
Site: White River City Pit Permit Action	on: SI-1	Permit/Job#:	M2006084
PROJECT IDENTIFICATION			
Task #: 02B State: Colors	ado	Abbreviation:	None
Date: 2/12/2014 County: Rio B		Filename:	M084-02b
User: THM		i iioiidiiio.	11100 : 020
A constant on a			
Agency or organization name: DRMS			
HOURLY EQUIPMENT COST			
Basic Machine: Cat D8T - 8SU			
Horsepower: 310			
Blade Type: Semi-Universal			
Attachment: NA			
Shift Basis: 1 per day			
Data Source: (CRG)			
Cost Breakdown:			
	Utilization %		
Ownership Cost/Hour: \$56.69	NA NA		
Operating Cost/Hour: \$104.03	100		
Ripper op. Cost/Hour: \$0.00	0		
Operator Cost/Hour: \$37.41	NA		
·	1421		
Total unit Cost/Hour: \$198.13			
Total Fleet Cost/Hour: \$792.53			
MATERIAL QUANTITIES			
MATERIAL QUANTITIES			
Initial Volume: 8,454			
Swell factor: 1.000			
Loose volume: 8,454 LCY			
Source of estimated volume: Division of Recla	mation, Mining & Safety		
Source of estimated swell factor: Cat Handbook	mation, wining & outery		
HOURLY PRODUCTION			
Average push distance: 150 feet			
Unadjusted hourly production: 634.3 LCY/hr			
Materials consistency description: Consolidated st	rockpile 1 0		
	e e e e e e e e e e e e e e e e e e e		
Average push gradient:5 %			
Average site altitude: 5,700 feet			
Material weight: 2,400 lbs/LCY			
Weight description: Clay and gravel - Dry			
Job Condition Correction Factor	Source		
Operator Skill: 0.750	(AVG.)		
Material consistency: 1.000	(CAT HB)	)	
Dozing method: 1.000	(GEN)	<del>,</del>	

Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.115	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.958	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.5319

Adjusted unit production:

337.38 LCY/hr

Adjusted fleet production:

1349.52 LCY/hr

## **JOB TIME AND COST**

Fleet size: 4 Dozer(s)

Unit cost: \$0.587/LCY

Total job time: 6.26 Hours
Total job cost: \$4,964.74

## **BULLDOZER RIPPING WORK**

	Task description:	Rip com	pacted areas prior to	topsoiling		
Site:	White River Cit	y Pit	Permit Action:	SI-1	Permit/Job#:	M2006084
	PROJECT IDEN	NTIFICATION				
	Task #: 03A Date: 2/12/		State: Colorado County: Rio Blanco	)	Abbreviation: Filename:	None M084-03a
	User: THM		DDMC			
		r organization nar				
	HOURLY EQUI		_			
	Basic M Ripper Attac		T - 8SU k Ripper	_	Shift Basis: 1 p	310 per day CRG)
	Cost Breakdown:					
		Ownership Cost/l Operating Cost/l r Operating Cost/l Operator Cost/l Total Unit Cost/l	Hour:       \$104         Hour:       \$6.         Hour:       \$37	.00 4.03 53 .41	Utilization % NA 100 100 NA	
		Total Fleet Cost/l	Hour: \$843	3.94		
	MATERIAL QU	JANTITIES	Sele	ected estimating r	method: Area	
	Alternate Methods:				I I I I I I I I I I I I I I I I I I I	
Seismic: Area:			Bank Volume: Rip Depth (ft): ed quantity: Data p	NA 2.00 provided in AM-1	BCY Volume: 74,859	NA BCY or CCY
	HOURLY PRO	DUCTION				
	Seismic:	Seis	mic Velocity:	NA	feet/second	
	Area:		ipping Depth:ipping Width:	2.56 7.08	mph degrees	
		Average Ri Average	pping Length: Dozer Speed: uneuver Time:	400.00 88.00 0.25	feet feet	
		Production	per unit area:	0.813	acres/hour	
	Job Condition Corr	ection Factors				
	Unac	djusted Hourly Un	it Production:	0.813	Acres/hr	
		J	Site Altitude: Altitude Adj: bb Efficiency:	5,700 1.00 0.83	feet (CAT HB) (1 shift/day)	
			et Correction:	0.83	multiplier	
			urly Unit Production: Irly Fleet Production:	0.68 <b>2.70</b>	Acres/hr Acres/hr	
	JOB TIME ANI	O COST				
	Fleet size:	4	rader(s)	Total job time	8.59	Hours
	Unit cost:	\$312.490 P	er acre	Total job cost	\$7,250.00	

## **BULLDOZER WORK**

White River City Pit	Permit Action: _S	SI-1	Permit/Job#:	M2006084
PROJECT IDENTIFICAT  Task #: 04A Date: 2/12/2014 User: THM  Agency or organizatio	State: Colorado County: Rio Blanco		Abbreviation: Filename:	None M084-04a
HOURLY EQUIPMENT O	COST			
Basic Machine: Horsepower: Blade Type: Attachment: Shift Basis: Data Source:  Cat D8T - 310 Semi-Uni NA 1 per day (CRG)		- - - -		
<u>Cost Breakdown</u> :		<u>Utilization %</u>		
Ownership Cost/Hour:	\$56.69	NA		
Operating Cost/Hour:	\$104.03	100		
Ripper op. Cost/Hour: Operator Cost/Hour:	\$0.00 \$37.41	0 NA		
MATERIAL QUANTITIES  Initial Volume: 18,392  Swell factor: 1.000  Loose volume: 18,392 LC				
Source of estimated volume: Source of estimated swell factor	Division of Reclamation Cat Handbook	n, Mining & Safety		
HOURLY PRODUCTION				
Average push distance: Unadjusted hourly production:	350 feet 233.3 LCY/hr			
Materials consistency description	n: Loose stockpile 1.2			
Average push gradient: $0\%$ Average site altitude: $5,70$	0 feet			
Material weight: 1,60	0 lbs/LCY			
Weight description:Top	Soil			
Job Condition Correction Facto Operator Skill:	<u>r</u> 0.750	Source (AVG.)		
Material consistency:	1.200	(CAT HB)		
Dozing method:	1.000	(GEN.)		

Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.8593

Adjusted unit production: 200.47 LCY/hr

Adjusted fleet production: 801.88 LCY/hr

## **JOB TIME AND COST**

Fleet size: 4 Dozer(s)

Unit cost: \$0.988/LCY

Total job time: 22.94 Hours

Total job cost: \$18,177.45

## **REVEGETATION WORK**

Task description	. Rev	egetate 11.0 a	icies with dry lar	id Seed III	X		
White River	City Pit	Perr	nit Action: SI-1			Permit/Job#	E: M2006084
PROJECT ID	ENTIFICATI	ION					
Task #: 05	A	State:	Colorado			Abbreviation:	None
Date: 2/1	12/2014		Rio Blanco			Filename:	
User: Th	HM	-					
Agency	or organization	n name: DR	LMS				
FERTILIZIN(	G						
Materials							
Description			Units /	Unit		ost / Unit	Cost /Acre
Description			Acre	Unit		UST / UIII	Cost/Acre
					\$		\$
· '						4.15	
					Т	otal Fertilizer	
						Materials	<b>#0.00</b>
						Cost/Acre	\$0.00
Application							
Description							
Description							Cost /Acre
Description							
Description							Cost /Acre
Description			Total	Fertilizer	Applicat	ion Cost/Acre	\$
Description			Total	Fertilizer	Applicat	ion Cost/Acre	
			Total	Fertilizer	Applicat	ion Cost/Acre	\$
TILLING			Total	Fertilizer	Applicat	ion Cost/Acre	\$ \$0.00
FILLING  Description	. 6" deen (MEA	NS 32 91 13		Fertilizer	Applicat	ion Cost/Acre	\$ \$0.00 Cost /Acre
FILLING  Description	5, 6" deep (MEA	ANS 32 91 13.		Fertilizer	Applicat	ion Cost/Acre	\$ \$0.00
TILLING  Description	, 6" deep (MEA	ANS 32 91 13.				ion Cost/Acre	\$ \$0.00 Cost /Acre
TILLING  Description	g, 6" deep (MEA	ANS 32 91 13.					\$ \$0.00 Cost /Acre \$98.01
FILLING  Description  Disc harrowing	g, 6" deep (MEA	ANS 32 91 13.			Total Till		\$ \$0.00 Cost /Acre \$98.01
TILLING  Description  Disc harrowing	g, 6" deep (MEA	ANS 32 91 13.			Total Till		\$ \$0.00 Cost /Acre \$98.01
TILLING  Description  Disc harrowing	s, 6" deep (MEA	ANS 32 91 13.			Total Till  Rate – PLS	Seeds	\$ \$0.00 Cost /Acre \$98.01 \$98.01
TILLING  Description  Disc harrowing	g, 6" deep (MEA	ANS 32 91 13.			Total Till	ing Cost/Acre	\$ \$0.00 Cost /Acre \$98.01 \$98.01
TILLING  Description  Disc harrowing	g, 6" deep (MEA	ANS 32 91 13.			Rate – PLS LBS / Acre	Seeds per SQ. FT	\$ \$0.00 Cost /Acre \$98.01 S98.01
Description Disc harrowing SEEDING Seed Mix		ANS 32 91 13.			Rate – PLS LBS / Acre 0.50	Seeds per SQ. FT 19.51	\$ \$0.00 Cost /Acre \$98.01 \$98.01 Cost /Acre
Description Disc harrowing  SEEDING  Seed Mix  Alkali Sacaton Crested Wheats					Rate – PLS LBS / Acre	Seeds per SQ. FT 19.51 6.89	\$ \$0.00  Cost /Acre \$98.01  \$98.01  Cost /Acre \$11.41 \$3.63
Description Disc harrowing  SEEDING  Seed Mix  Alkali Sacaton Crested Wheats	grass - Fairway				Rate – PLS LBS / Acre 0.50 1.50 1.50	Seeds per SQ. FT 19.51 6.89 8.95	\$ \$0.00 Cost /Acre \$98.01 \$98.01 Cost /Acre \$11.41 \$3.63 \$3.83
Description Disc harrowing  SEEDING  Seed Mix  Alkali Sacaton Crested Wheat Yellow Sweet ( Galleta	grass - Fairway				Rate – PLS LBS / Acre 0.50 1.50 1.50 3.00	Seeds per SQ. FT  19.51 6.89 8.95 10.95	\$ \$0.00 Cost /Acre \$98.01 \$98.01 Cost /Acre \$11.41 \$3.63 \$3.83 \$75.60
Description Disc harrowing  SEEDING  Seed Mix  Alkali Sacaton Crested Wheats Yellow Sweet G Galleta Streambank William	grass - Fairway Clover - Madrid	àlT			Rate – PLS LBS / Acre 0.50 1.50 1.50	Seeds per SQ. FT 19.51 6.89 8.95	\$ \$0.00 Cost /Acre \$98.01 \$98.01 Cost /Acre \$11.41 \$3.63 \$3.83

Saltbush, Four Wing

Sumac, Smooth

\$2.68

\$7.38

\$141.81

0.25

0.25

0.34

0.28

71.04

	Totals Seed Mix 13.25	
pplication		
Description		Cost /Acre
Drill seeding (DRMS Cost Data)		\$88.20
	Total Seed Application Cost/Acre	\$88.20

## MULCHING and MISCELLANEOUS

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$265.00	\$530.00
Total Mulch Materials Cost/Acre				\$530.00

**Application** 

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$65.89
Power mulcher (MEANS 32 91 13.16 0250)		\$86.68
	Total Mulch Application Cost/Acre	\$152.57

## **NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Tot	als Nursery Stoo	ek Cost / Acre	\$0.00

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

No. of Acres: 11.8

Cost /Acre: \$1,010.59

Estimated Failure Rate: 30%

Cost /Acre\*: \$1,010.59

\*Selected Replanting Work Items: TILLING, SEEDING, MULCHING

Initial Job Cost: \$11,924.96

Reseeding Job Cost: \$3,577.49

Total Job Cost: \$15,502.45

Job Hours: 12.00

## **REVEGETATION WORK**

White River City Pit Permit Action: SI-1 Pe				Permit/Job#	: M2006084
PROJECT IDENTIFICATION					
	Colorado		A	Abbreviation:	
Date: 2/12/2014 County: F User: THM	Rio Blanco			Filename:	M084-06a
	c				
Agency or organization name: <u>DRM</u>	5				
FERTILIZING					
Materials					
Description	Units /	E7	Cant	/ Unit	Cost /Acre
Description	Acre	Unit	Cost	/ Unit	Cost /Acre
			\$		\$
			Tota	l Fertilizer	
				Materials	<b>CO.OO</b>
				Cost/Acre	\$0.00
Application					
Description					Cost /Acre
					\$
	Total	Fertilizer A	Application	Cost/Acre	\$0.00
THE FALC					
TILLING					
Description					Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23	6100)				\$98.01
		Т	otal Tilling	Cost/Acre	\$98.01
CEEDING					
SEEDING					
Seed Mix			Rate – PLS	Seeds	Cost /Acre
~ www.atAAdB			LRS /	per SQ.	5000//1016

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Alkali Sacaton	2.00	78.05	\$45.62
Aquatic Sedge	2.00	52.90	\$469.94
Great Basin Wildrye - Magnar	3.00	12.19	\$22.47
Slender Wheatgrass - Native	6.00	21.90	\$13.50
Slender Wheatgrass - Pryor	6.00	21.90	\$18.54
Red Top	2.00	229.11	\$12.26
Reedgrass, Canadian (or Blue Joint)	1.00	102.85	\$203.10
Reedgrass, Northern - Native	1.00	102.85	\$137.92
Saltgrass, Inland	2.00	27.72	\$93.98
Timothy, Alpine - Native	2.00	59.69	\$54.14

	Totals Seed Mix	27.00	709.16	\$1,071.47
Application				
Description				Cost /Acre
Hydro seeding (MEANS 32 92 19.14 0200)				\$847.24
	Total Seed	Application	on Cost/Acre	\$847.24

## **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$265.00	\$530.00
Total Mulch Materials Cost/Acre				\$530.00

**Application** 

Description		Cost /Acre
Power mulcher (MEANS 32 91 13.16 0250)		\$86.68
	Total Mulch Application Cost/Acre	\$86.68

#### **NURSERY STOCK PLANTING**

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

## **JOB TIME AND COST**

No. of Acres: 11.4

Cost /Acre: \$2,633.40 Cost /Acre\*: \$2,633.40 Estimated Failure Rate: 20% C
\*Selected Replanting Work Items: TILLING,SEEDING,MULCHING

Initial Job Cost: \$30,020.76 Reseeding Job Cost: \$6,004.15 Total Job Cost: \$36,024.91

Job Hours: 8.00

## **EQUIPMENT MOBILIZATION/DEMOBILIZATION**

Task description:	<b>Aobilization</b>			
e: White River City Pit	Permit	Action: SI-1	Permit/Job#:	M2006084
PROJECT IDENTIFICA	TION			
Task #: 07A Date: 2/12/2014 User: THM		Colorado Rio Blanco	Abbreviation: Filename:	None M084-07a
Agency or organizat	tion name: DRM	S		
EQUIPMENT TRANSPO	ORT RIG COST			
				l per day CRG Data
Truck Tractor De	escription: GEN	NERIC ON-HIGHW	AY TRUCK TRACTOR, 6X4, D 400 HP (2ND HALF, 2006)	DIESEL POWERED,
Truck Trailer De	escription: GEN	ERIC FOLDING G	DOSENECK, DROP DECK EQU (25T, 50T, AND 100T)	JIPMENT TRAILER
Cost Breakdown:				
Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons	
Ownership Cost/Hour:	\$16.63	\$18.37	\$22.33	

\$46.13

\$27.66

\$25.39

\$117.55

\$50.07

\$27.66

\$25.39

\$125.45

#### **NON ROADABLE EQUIPMENT:**

Operating Cost/Hour:

Operator Cost/Hour:

Total Unit Cost/Hour:

Helper Cost/Hour:

\$44.38

\$27.66

\$0.00

\$88.67

Machine	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return Trip	DOT Permit
Description	Unit	Cost/hr/ unit	Cost/hr/unit	Size	Cost/hr/	Cost/hr/ fleet	Cost/ fleet
	(TONS)				fleet		
Cat D8T - 8SU	53.08	\$63.00	\$125.45	4	\$753.82	\$501.80	\$1,000.00
Drill/Broadcast	25.00	\$39.59	\$88.67	1	\$128.26	\$88.67	\$250.00
Seeder with Tractor							
Hydroseeder with	28.00	\$65.89	\$117.55	1	\$183.44	\$117.55	\$250.00
Tractor							
Power Mulcher	6.00	\$7.03	\$88.67	1	\$95.70	\$88.67	\$250.00
(Reinco M90)							

Subtotals: \$1,161.22 \$796.69 \$1,750.00

## **ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Light Duty Pickup, 4x4, 3/4 T.	\$15.34	3	\$46.02	\$46.02

Subtotals: \$46.02 \$46.02

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

Nearest Major City or Town within project area region: MEEKER

Total one-way travel distance: 20.00 miles

Average Travel Speed: 45.

45.00 mph

Total Non-Roadable Mob/Demob Cost \*

'\* two round trips with haul rig:

Total Roadable Mob/Demob Cost \*\*

\*\* one round trip, no haul rig:

\$40.91

\$7,562.80

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.44	0.44
Return Time (Hours):	0.44	0.44
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.89	0.89

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

Total job time: 3.78 Hours

Total job cost: \$7,603.71