

1313 Sherman Street, Room 215 Denver, CO 80203

August 26, 2014

Mr. Jack E. Paulson White River Aggregates, Inc. 1107 E. Victory Way Craig, CO 81625

Re: White River S & G Pit, Permit No. M-1991-009, Financial Warranty Increase, Revision

No. SI-2, REVISED CALCULATIONS

Dear Mr. Paulson:

On July 2, 2014 the Division of Reclamation, Mining and Safety increased the current Financial Warranty for this permit to \$44,721.94, in accordance with Rule 4.2.1 of the Rules and Regulations. This original increase was \$25,228.94 over the currently held financial warranty. Due to more accurate figures provided by the operator a revised Reclamation Estimate in the amount of \$33,814.20 has been calculated. Therefore the revised additional amount required to be placed with the Division is \$14,321.20.

The Division ordered amendment of the current Financial Warranty or submittal of a new Financial Warranty reflecting the increase is due within 60 days from the date of the original Financial Warranty Increase notice sent to the operator on July 2, 2014. Therefore the due date for the increased financial warranty to be submitted to the Division in an approvable form is September 2, 2014. If you wish to submit a different type of Financial Warranty or have questions regarding modification of the existing financial warranty please contact Barbara Coria at (303) 866-3567 extension 8148.

If you have any questions regarding the figures in the cost estimate please contact me at (970) 241-2042.

Sincerely,

Travis Marshall Environmental Protection Specialist

cc: Russ Means, DRMS Barbara Coria, DRMS

Steve Baker, 3 B Enterprises

Enclosure(s): Updated Financial Reclamation Cost Estimate



COST SUMMARY WORK

Task description: Updated Final Reclamation Cost Estimate

Site: White River S & G Pit Permit Action: SI-2 Permit/Job#: M1991009

PROJECT IDENTIFICATION

Task #: 001 State: Colorado Abbreviation: None

Date: 7/2/2014 County: Rio Blanco Filename: M009-001

User: THM

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task		Form	Fleet	Task	
Task	Description	Used	Size	Hours	Cost
01a	Move material for grading of highwall	SCRAPER1	1	14.30	\$11,391.00
02a	Grading topsoil and backfill	DOZER	1	5.54	\$1,158.00
03a	Rip 6.0 acres of pit floor	RIPPER	1	8.88	\$1,979.00
04a	Revegetate 6.0 acres	REVEGE	1	16.00	\$6,926.00
05a	Mobilization	MOBILIZE	1	2.26	\$4,280.00
	\$25,734				

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02% Total = \$519.83

 Performance bond:
 1.05%
 Total = \$270.21

 Job superintendent:
 31.55 hrs
 Total = \$2,371.30

Profit: 10.00% Total = \$2,571.30

TOTAL O & P = \$5,734.74

CONTRACT AMOUNT (direct + O & P) = \$31,468.74

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): 0.00 Total = 0.00 Engineering work and/or contract/bid preparation: 0.00% Total = 0.00 \$0.00 \$1,573.44

CONTINGENCY: 3.00 Total = \$772.02

TOTAL INDIRECT COST = \$8,080.20

TOTAL BOND AMOUNT (direct + indirect) = \$33,814.20

SCRAPER TEAM WORK

Task description:	Move mate	erial for grading o	of highwall			
Site: White River S & C	G Pit	Permit Action:	SI-2	Per	mit/Job#: M1991	009
PROJECT IDENT	TIFICATION					
Task #: 01A Date: 7/2/201 User: THM Agency or o		State: Colorado unty: Rio Blanc DRMS	co		viation: None lename: M009-0	11a
HOURLY EQUIP	MENT		COSTSI	nift basis: 1 per c	lay	
	rt Equipment -Loa -Dum ntenance –Motor	Geraper: Cat 627 -Dozer: Cat D8 d Area: NA p Area: NA	ent Description 7G w/push-pull T - 8SU			
Cost Breakdown:	Scraper Wo	rk Team	Support Equi	oment	Maintenance	Equipment
	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	100	NA	NA	NA	NA
Ownership cost/hour:	\$72.62	\$62.67	NA	NA	NA	NA
Operating cost/hour:	\$187.56	\$108.22	NA	NA	NA	NA
Ripper op. cost/hour:	NA	\$0.00	NA	NA	NA	NA
Operator cost/hour:	\$33.56	\$38.01	NA	NA	NA	NA
Unit Subtotals:	\$293.74	\$208.90	NA	NA	NA	NA
Number of Units:	2	1	0	0	0	0
Group Subtotals:	Work:	\$796.38	Support:	\$0.00	Maint:	\$0.00
			Swell fac n of Reclamation, idbook			
HOURLY PROD	UCTION		Scraper B	owl (volume) Ba	sis:	
Matarial waish	2.650 lba/l CV		-			CV
Material weight: Material description:	2,650 lbs/LCY Decomposed roo 75% Earth	ck - 25% Rock,		Volume: 15.70 Volume: 22.00		CY CY
Rated Payload:	52,800 pounds	0/000 (0.0000000000000000000000000000000	Average	Volume: 18.85	L	CY

Payload Capacity: 19.92 LCY

LCY

Adjusted Capacity: 18.85

Cycle Time:

Scraper Loading Time: Maneuver and Spread Time: 0.90 Minutes 0.60 Minutes

Job Condition Correction:

Site Altitude: 6200 feet

	Scraper	Push Dozer	Source
Altitude Adj:	1.000	1.000	(CAT HB)
Job Efficiency:	0.830	0.830	(CAT HB)
Net Correction:	0.830	0.830	

Travel Time:

Road Condition: Rutted dirt, little maintenance, no water, 2" tire penetration 5.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	200.00	20.00	5.00	25.00	406	0.50

Haul Time: 0.50 minutes

Return Route:

Seg#	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	200.00	-20.00	5.00	-15.00	1749	0.17

Return Time: 0.17 minutes

Total Scraper team cycle time: Adjusted for job conditions: Selected Number of Scrapers:

2.17 minutes 865.19 LCY/Hour 2 Scraper(s)

Adjusted single scraper team (unit) hourly production: Adjusted multiple scraper team (fleet) hourly production:

865.19 LCY/Hour 865.19 LCY/Hour

Unadjusted unit production/hour: 1,042.40 LCY/Hour Optimal Number of Scrapers per push dozer:

JOB TIME AND COST

Fleet size: 1 Team(s)

Total job time: 14.30 Hours

Unit cost: \$0.920 /LCY

Total job cost: \$11,391

White River S &	G Pit	Permit Action:	SI-2	Permit/Job#:	M1991009
PROJECT IDEN	TIFICATIO	N			
Task #: 02A		State: Colorado		Abbreviation:	None
Date: 7/2/20	14	County: Rio Blanc	0	Filename:	M009-02a
User: THM					
Agency or	organization na	ame: DRMS			
HOURLY EQUI	PMENT COS	<u>ST</u>			
Basic Machine:	Cat D8T - 8S	U	_		
Horsepower:	310				
Blade Type:	Semi-Univer	sal			
Attachment:	NA				
Shift Basis:	1 per day				
Data Source:	(CRG)				
Cost Breakdown:			76		
0 11 0		0.00.00	Utilization %		
Ownership Cost/He		\$62.67	NA 100		
Operating Cost/H		\$108.22	100		
Ripper op. Cost/H		\$0.00	0	<u> </u>	
Operator Cost/He	our:	\$38.01	NA		
Total unit Cost/Hou	r: \$208.90)			
Total Fleet Cost/Hor	ur: \$208.9)			
	ANIMAMANA				
MATERIAL QU.					
Initial Volume:	3,227				
Swell factor:	1.000				
Loose volume:	3,227 LCY				
Source of estimated	volume:	Division of Reclamat	tion, Mining & Safety		
Source of estimated	swell factor:	Cat Handbook			
HOURLY PROD	UCTION				
Average push distan	ice.	75 feet			
Unadjusted hourly p		1,017.1 LCY/hr			
onadjusted nourly p	-	1,017.1 DC 17111			
Materials consistend	cy description:	Loose stockpile 1.2	2		
Average push gradie	ent: 15 %				
Average push gradie Average site altitude		eet			
Average site attitude	0,2001				
Material weight:	1,600 1	bs/LCY			
Weight description:	Top So	oil			
			•		
Job Condition Corre		0.750	Source		
	rator Skill:onsistency:	0.750 1.200	(AVG.) (CAT HB)		
[\/\c+c**c\\\					

1.000

Dozing method:

(GEN.)

Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	0.666	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.5723

Adjusted unit production: Adjusted fleet production:

582.09 LCY/hr

582.09 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.359/LCY

Total job time: 5.54 Hours

Total job cost: \$1,158

BULLDOZER RIPPING WORK

	Task description:	Rip 6	.0 acres of pit floor				
Site:	White River S	& G Pit	Permit Actio	n: SI-2	Perm	nit/Job#: <u>M19</u>	91009
	PROJECT IDE	NTIFICATIO	<u>ON</u>				
	Task #: 03A Date: 7/2/2 User: THM		State: Colora County: Rio Bla		Abbrev File	name: None M009	-03a
	Agency	or organization r	name: DRMS				
	HOURLY EQU	IPMENT CO	OST				
	Basic M Ripper Atta		D8T - 8SU lank Ripper		Horsepower:Shift Basis:	310 1 per day	
	Cook Decolodo				Data Source:	(CRG)	
	Cost Breakdown:	Ownership Co Operating Co	st/Hour:	\$69.05 \$108.22	Utilization % NA 100		
	Rippo	er Operating Co Operator Co		\$7.46 \$38.01	100 NA		
		Total Unit Co		\$222.73	NA		
		Total Fleet Co	st/Hour:	\$222.73			
	MATERIAL Q	UANTITIES		Selected estimating	method: Area		
	Alternate Methods	<u> </u>			,		
Seismic:	NA		Bank Volum	e: NA	BCY	NA	
Area:	6.00	acres	Rip Depth (ft): 1.50	Volume: 14,	520	BCY or CCY
		Source of estim	nated quantity: Pre	eviously accepted v	alues		
	HOURLY PRO	DUCTION					
	Seismic:		Seismic Velocity:	NA	feet/secon	Ч	
	Area:	_	eisinie velocity.	1471	iccu secon	u	
	11104.		e Ripping Depth:	2.56	mph		
			Ripping Width:	7.08	degrees		
			Ripping Length: age Dozer Speed:	400.00 88.00	feet feet		
			Maneuver Time:	0.25	feet		
			ion per unit area:	0.813	acres/hour		
	Job Condition Co	rection Factors					
	Una	djusted Hourly	Unit Production:	0.813	Acres/hr		
			Site Altitude:	6,200	feet		
			Altitude Adj:	1.00	(CAT HB)	
			Job Efficiency:	0.83	(1 shift/da		
			Net Correction:	0.83	multiplier		
			Hourly Unit Product Hourly Fleet Product		Acres/hr Acres/hr		
	JOB TIME AN	D COST					
	Fleet size:	1	Grader(s)	Total job tir	ne: 8.8	89	Hours
	Unit cost:	\$329.894	Per acre	Total job co	ost: \$1.9	979	

REVEGETATION WORK

Task description: Site: White River S & G Pit		Revegetate 6.0 acres					
		Permit Action: SI-2		SI-2	Permit/Job#:	M1991009	
ı	PROJECT 1	IDENTIFIC	CATION				
-	ROULCI	DENTIN	2711011				
â		04A	State:	Colorado		Abbreviation:	None
-	Task #:			Colorado Rio Blanc	0	Abbreviation: Filename:	None M009-04a

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)		\$98.01
	Total Tilling Cost/Acre	\$98.01

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Paloma	2.50	8.09	\$21.78
Crested Wheatgrass - Ephraim	2.00	9.18	\$4.46
Russian Wildrye - Vinal	2.00	8.03	\$7.42
Streambank Wheatgrass - Sodar	2.20	7.17	\$9.26
Western Wheatgrass - Arriba	3.20	8.08	\$11.78
Totals Seed Mix	11.90	40.56	\$54.69

Application

Description	Cost /Acre

Drill seeding (DRMS Cost Data)	\$88.20
Total Seed Applicat	tion 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
					\$
		То	tals Nursery Stoo	ck Cost / Acre	\$0.00

JOB TIME AND COST

No. of Acres: 6 Cost /Acre: \$923.47

Estimated Failure Rate: 25% Cost /Acre*: \$923.47

*Selected Replanting Work Items: TILLING, SEEDING, MULCHING

Initial Job Cost: \$5,540.82

Reseeding Job Cost: \$1,385.21

Total Job Cost: \$6,926

Job Hours: 16.00

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description: Mobilization Site: White River S & G Pit Permit Action: SI-2 Permit/Job#: M1991009

PROJECT IDENTIFICATION

05A State: Colorado Abbreviation: None

Task #: Date: 7/2/2014 Rio Blanco County: Filename: M009-05a

User: THM

Agency or organization name: DRMS

EQUIPMENT TRANSPORT RIG COST

Shift basis: 1 per day Cost Data Source: CRG Data

Truck Tractor Description: GENERIC ON-HIGHWAY TRUCK TRACTOR, 6X4, DIESEL POWERED,

400 HP (2ND HALF, 2006)

Truck Trailer Description: GENERIC FOLDING GOOSENECK, DROP DECK EQUIPMENT TRAILER

(25T, 50T, AND 100T)

Cost Breakdown:

Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons
Ownership Cost/Hour:	\$16.63	\$18.37	\$22.33
Operating Cost/Hour:	\$44.38	\$46.13	\$50.07
Operator Cost/Hour:	\$27.66	\$27.66	\$27.66
Helper Cost/Hour:	\$0.00	\$25.39	\$25.39
Total Unit Cost/Hour:	\$88.67	\$117.55	\$125.45

NON ROADABLE EQUIPMENT:

Machine Description	Weight/ Unit (TONS)	Owner ship Cost/hr/ unit	Haul Rig Cost/hr/unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
Cat 627G w/push- pull	43.48	\$72.62	\$117.55	2	\$380.33	\$235.10	\$500.00
Cat D8T - 8SU	53.08	\$69.05	\$125.45	1	\$194.50	\$125.45	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$39.59	\$88.67	1	\$128.26	\$88.67	\$250.00
Power Mulcher (Reinco M90)	6.00	\$7.03	\$88.67	1	\$95.70	\$88.67	\$250.00

Subtotals: \$798.79 \$537.89 \$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, 3/4 T.	\$15.30	2	\$30.60	\$30.60

Subtotals: \$30.60 \$30.60

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region: MEEKER

Total one-way travel distance: 2.00 miles

Average Travel Speed: 30.00 mph

Task # 05A

Total Non-Roadable Mob/Demob Cost *
 '* two round trips with haul rig:
Total Roadable Mob/Demob Cost **
 ** one round trip, no haul rig:

\$4,275.80

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.07	0.07
Return Time (Hours):	0.07	0.07
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.13	0.13

JOB TIME AND COST

Total job cost: 2.27 Hours

Total job cost: \$4,280