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



April 7, 2014

Mr. Thomas G. Mathias Mr. Marshall Mathias Mathias Concrete Inc P.O. Box 266 Monte Vista, CO 81144 John W. Hickenlooper Governor

Mike King Executive Director

Loretta E. Pineda Director

Re: North Farm Rd Pit No. 1, Permit No. M-1977-140, Financial Warranty Reduction Approval, Revision No. SR-1

Dear Mssrs. Mathias and Mathias,

On April 7, 2014 the Division of Reclamation, Mining and Safety approved your request for a Financial Warranty Reduction. The revised required bond amount is \$27,958.88. This is a reduction of \$8,396.12. This decision reduces the amount of the financial warranty required, and does not approve any release of reclamation responsibility for the tasks associated with this request. There was no release of any permitted areas.

Please review the enclosed cost estimate and notify me promptly if you see any errors or omissions.

The current Financial Warranty is a corporate surety. Please provide a rider to the current Financial Warranty, or submit a new Financial Warranty reflecting this reduction. If you wish to submit a different type of Financial Warranty or have other questions about bond documents, please contact Ms. Barbara Coria at the Division's Denver office (see letterhead above). All mailed document materials should be sent to our Denver office.

If you have any questions about the figures in the enclosed cost estimate packet, please contact me at 970-247-5193, or email bob.oswald@state.co.us.

Sincerely,

Bob Oswald

Environmental Protection Specialist

Encl: Updated reclamation cost estimate (4/7/14)

Cc(w/o encl): Russ Means, DRMS Grand Junction

Barbara Coria, DRMS Denver

(c:\14-04 docs\N Farm Road #1 SR-01 Appr/rco)

COST SUMMARY WORK

Task description: Cost summary

User:

Site: N Farm Rd Pit No 1 Permit Action: SR-01 Permit/Job#: M1977140

PROJECT IDENTIFICATION

RCO

Task #: 000 State: Colorado Abbreviation; None

Date: 4/7/2014 County: Rio Grande Filename: M140-000

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Demolish and dispose of concrete and steel structures	DEMOLISH	1	15.00	\$3,181.63
002	Grade processing area after debris burial	DOZER	1	7.48	\$1,530.24
003	Rip compaction in processing area	RIPPER	1	8.88	\$1,875.00
004	Carry topsoil to be spread	LOADER	1	33.20	\$3,447.00
005	Spread topsoil on areas to be revegetated	DOZER	1	10.97	\$2,243.69
006	Revegetate disturbed areas	REVEGE	1	16.00	\$9,252.30
007	Haul reclamation equipment to and from site	MOBILIZE	1	2.57	\$1,598.57
	SUBTOTALS:				\$23,128.43

INDIRECT COSTS

OVERHEAD AND PROFIT:

 Liability insurance:
 2.02%
 Total = \$467.19

 Performance bond:
 1.05%
 Total = \$242.85

 Job superintendent:
 0.00 hrs
 Total = \$0.00

Profit: 10.00% Total = \$2,312.84

TOTAL O & P = $\frac{\$3,022.88}{\$26,151.31}$

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs):

Engineering work and/or contract/bid preparation:

Reclamation management and/or administration:

500.00

Total = 500.00

Total = 5.00.00

\$0.00

\$1,307.57

CONTINGENCY: 0.00 Total = \$0.00

TOTAL INDIRECT COST = \$4,830.45

TOTAL BOND AMOUNT (direct + indirect) = \$27,958.88

DEMOLITION WORK

Task description:

Demolish and dispose of concrete and steel structures

Site: N Farm Rd Pit No 1

Permit Action: SR-01

Permit/Job#: M1977140

PROJECT IDENTIFICATION

Task #:

001

State:

Colorado

Abbreviation:

None

Date: User: 4/4/2014 RCO

County:

Rio Grande

Filename:

M140-001

Agency or organization name: DRMS

UNIT COSTS

Location adjustment: 91.60 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Concrete tunnel with foundation	10 cy	Push demolished materials/rubble/debris into pit - Max. 100 ft. push	10.00	CY	\$0.47	\$4.68
Batch plant conveyor leg fdns.	7 cy	Push demolished materials/rubble/debris into pit - Max. 100 ft. push	7.00	CY	\$0.47	\$3.28
Slab under batch plant tail pulleys	8 cy	Push demolished materials/rubble/debris into pit - Max. 100 ft. push	8.00	CY	\$0.47	\$3.74
East retaining wall - batch plant	4 cy	Push demolished materials/rubble/debris into pit - Max. 100 ft. push	4.00	CY	\$0.47	\$1.87
West retaining wall - batch plant	17 cy	Push demolished materials/rubble/debris into pit - Max. 100 ft. push	17.00	CY	\$0.47	\$7.96
Brick sand bin - walls	11 cy	Push demolished materials/rubble/debris into pit - Max. 100 ft. push	11.00	CY	\$0.47	\$5.15
Brick sand bin - slab	9 cy	Push demolished materials/rubble/debris into pit - Max. 100 ft. push	9.00	CY	\$0.47	\$4.21
2 conveyors - demolish and load	50 LF	Conveyor, overland, including supports - 5 ft. W x 6 ft. H housing	50.00	LF	\$17.07	\$853.50
Excavate pit for concrete disposal	66 cy	Excavate disposal pit with dozer (includes completed pit backfilling/grading)	66.00	CY	\$1.56	\$102.96
2 conveyors - haul to dump	50 miles	Hauling only, per mile, 12-18 CY truck - 50 mph average speed	50.00	MI	\$0.52	\$26.05
2 conveyors - dump fee	30 cy	Dump fees - Building construction materials.	30.00	CY	\$82.00	\$2,460.00

			· ·	Total Cost	
		Subtotal		(adjusted for	
Job Hours:	15.00	(unadjusted): _	\$3,473.40	location):	\$3,181.63

BULLDOZER WORK Task description: Grade processing area after debris burial Site: N Farm Rd Pit No 1 Permit Action: SR-01 Permit/Job#: M1977140 PROJECT IDENTIFICATION Task #: 002 State: Colorado Abbreviation: None Date: 4/7/2014 Rio Grande M140-002 County: Filename: User: **RCO** Agency or organization name: DRMS **HOURLY EQUIPMENT COST** Basic Machine: Cat D8T - 8SU Horsepower: 310 Semi-Universal Blade Type: Attachment: 3-shank ripper Shift Basis: 1 per day Data Source: (CRG) Cost Breakdown: Utilization % Ownership Cost/Hour: \$63.00 NA Operating Cost/Hour: \$104.03 100 \$0.00 0 Ripper op. Cost/Hour: Operator Cost/Hour: \$37.41 NA Total unit Cost/Hour: \$204.45 Total Fleet Cost/Hour: \$204.45 **MATERIAL QUANTITIES** Initial Volume: 3,227 Swell factor: 1.125 Loose volume: 3,630 LCY Source of estimated volume: Division of Reclamation, Mining & Safety Source of estimated swell factor: Cat Handbook **HOURLY PRODUCTION** Average push distance: 60 feet Unadjusted hourly production: 1,246.9 LCY/hr Materials consistency description: Compacted fill or embankment 0.9 Average push gradient: 0% Average site altitude: 7,600 feet Material weight: 2,650 lbs/LCY Weight description: Decomposed rock - 25% Rock, 75% Earth Job Condition Correction Factor Source Operator Skill: (AVG.) 0.750

0.900

1.000

Material consistency:

Dozing method:

(CAT HB))

(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:	0.868	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3890

Adjusted unit production: 485.04 LCY/hr
Adjusted fleet production: 485.04 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.422/LCY

Total job time: 7.48 Hours
Total job cost: \$1,530.24

BULLDOZER RIPPING WORK

	Task description:	Rip compaction in	processing area			
Site	: N Farm Rd Pi	t No 1 Perm	it Action: SR-01		Permit/Job#	t: <u>M1977140</u>
	PROJECT IDE	ENTIFICATION				
	Task #: 003 Date: 4/7/ User: RC	2014 County:	Colorado Rio Grande		Abbreviation: Filename:	None M140-003
		or organization name: DRM	AS.			
		JIPMENT COST				
		Machine: Cat D8T - 8SU		r	Yangan ayyan	210
	Ripper Atta		-	Г	forsepower: Shift Basis: 1	per day
				r		(CRG)
	Cost Breakdown:					
		Ownership Cost/Hour:	\$63.00	Ut	tilization % NA	
		Operating Cost/Hour:	\$104.03		100	
	Ripp	er Operating Cost/Hour:	\$6.53	_	100	
		Operator Cost/Hour: Total Unit Cost/Hour:	\$37.41 \$210.98		NA	
						
		Total Fleet Cost/Hour:	\$210.98			
	MATERIAL O	<u>UANTITIES</u>	Selected esti	mating me	thod: Area	
	Alternate Methods	<u>3:</u>				
Seismic:	NA		Volume: NA		BCY	NA
Area:	6.00		epth (ft): 1.00		Volume: 9,680	BCY or CC
		Source of estimated quantity:	Permit plan			
	HOURLY PRO	DUCTION				
	Seismic:					
		Seismic Veloci	ty:N	A	feet/second	
	Area:					
		Average Ripping Dep			mph	
		Average Ripping Wid Average Ripping Leng			degrees	
		Average Ripping Leng Average Dozer Spec			feet feet	
		Average Maneuver Tim			feet	
		Production per unit are			acres/hour	
	Job Condition Cor	rection Factors	-	-		
	Una	djusted Hourly Unit Productio	on:0.8	13	Acres/hr	
		Site Altitud	le: 7,60	00	feet	
		Altitude A			(CAT HB)	
		Job Efficience	y: 0.8	3	(1 shift/day)	
		Net Correction	on: 0.8	3	multiplier	
		Adjusted Hourly Unit Pr	oduction: 0	.68	Acres/hr	
		Adjusted Hourly Fleet Pr	oduction: 0	.68	Acres/hr	
:	JOB TIME AN	D COST				
	Fleet size:	1 Grader(s)	Total j	ob time:	8.89	Hours
	Unit cost:	\$312.490 Per acre	Total	job cost:	\$1,875.00	_

WHEEL LOADER - LOAD AND CARRY WORK

Task description: Carry topsoil to be spread

Site: N Farm Rd Pit No 1 Permit Action: SR-01 Permit/Job#: M1977140

PROJECT IDENTIFICATION

Task #: 004 State: Colorado Abbreviation: None

Date: 4/7/2014 County: Rio Grande Filename: M140-004
User: RCO

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Basic Machine: CAT 950H Horsepower: 197
Attachment 1: ROPS Cab Shift Basis: 1 per day

Data Source: (CRG)

Cost Breakdown:

 Ownership Cost/Hour:
 \$24.98
 NA

 Operating Cost/Hour:
 \$43.03
 100

 Operator Cost/Hour:
 \$35.82
 NA

Total Unit Cost/Hour: \$103.83

Total Fleet Cost/Hour: \$103.83

MATERIAL QUANTITIES

Initial volume: 4,840 CCY Swell factor: 1.000

Loose volume: 4,840 LCY

Source of estimated volume: Division of Reclamation, Mining & Safety

Source of estimated swell factor: Cat Handbook

HOURLY PRODUCTION

Loader Cycle Time: Unadjusted Basic Cycle Time (load, dump, maneuver): ____ 0.500 minutes

Cycle Time Factors		Factor (min.)	Source
Material:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Stockpile:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Truck Ownership:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Operation:	Constant operation -0.04	-0.040	(Cat HB)
Dump Target:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
	NI . C. 1 CT		

Net Cycle Time Adjustment: -0.040 minutes
Adjusted Basic Cycle Time: 0.460 minutes

Rolling Resistance - Road Conditions

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

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

Haul and Return Time

	Length (feet)	Grade Res. (%)	Rolling Res. (%)	Total Res. (%)	Travel Time (minutes)	Source
Haul Route:	600	0.00	5.00	5.00	0.5739	(Cat HB)
Return Route:	600	0.00	5.00	5.00	0.5086	(Cat HB)

			Total Travel Total Cycle		1.0825 1.5425	minutes minutes
Load Bucket Capacity						
Rated Capacity: Bucket Fill Factor:	4.30	_ LCY (hea	• '	(100-1109	%) 1 050	
Adjusted Capacity:	4.52	LCY	Olst Touri	(100 110	70) 1.050	
Job Condition Correction F Site Altitude: 7600 feet	actors	_				
		Source				
Altitude Adj:	1.00	(CAT HB	3)			
Job Efficiency:	0.83	(1 shift/day	y)			
Net Correction:	0.83	multiplier				
Unadj	usted Hourly Unit	Production:	175.63	LCY/	Hour	
Adj	usted Hourly Unit	Production:	145.77	LCY/	Hour	
Adjı	isted Hourly Fleet	Production:	145.77	LCY/	Hour	
JOB TIME AND COST	<u> </u>					
Fleet size: 1	Loader(s)		Total job time:		33.20	Hours
Unit cost: \$0.71	2/LCY		Total job cost:	\$	3,447.00	

BULLDOZER WORK

			BULLDUZ	EK WORK		
Task description:	Spre	ad topsoil o	n areas to be	e revegetated		
: N Farm Rd Pit	No 1	Per	mit Action:	SR-01	Permit/Job#:	M1977140
PROJECT IDE	NTIFICATIO	ON				
Task #: 005		State:	Colorado		Abbreviation:	None
	2014	County:	Rio Grand		Filename:	M140-005
User: RCC		County.	_ Kio Giano		rnename:	W1140-003
Agency	or organization	name: DI	RMS			
HOURLY EQU	IPMENT CO	<u>OST</u>				
Basic Machine:						
Horsepower:				_		
Blade Type:		rsal		_		
Attachment:	3-shank rip	oer				
Shift Basis:	1 per day	-		_		
Data Source:				-		
Cost Breakdown:						
				<u>Utilization %</u>		
Ownership Cost/		\$63.00		NA		
Operating Cost/		\$104.03		100		
Ripper op. Cost/		\$0.00		0		
Operator Cost/	Hour:	\$37.41		NA		
MATERIAL QU Initial Volume:	4,840		_			
Swell factor: Loose volume:	1.000 4,840 LCY	· · · · · · · · · · · · · · · · · · ·	_			
	•		 CD 1 .'	36 2 000		
Source of estimate		Cat Hand		on, Mining & Safety		
Source of estimate	u swell lactor.	_ Cat Hand	DOOK			
HOURLY PRO	DUCTION					
Average push dista	ince:	60 feet				
Unadjusted hourly		1,246.9 LC	Y/hr			
Materials consister	ncy description:	Compa	cted fill or er	nbankment 0.9	<u> </u>	
Average push grad	ient: 0 %					
Average site altitud		feet				
Material weight:	2,550	lbs/LCY			=	
Weight description	: Earth -	Dry packed	i			
Job Condition Corn				Source		
	erator Skill: _		750	(AVG.)		
	onsistency:		900	(CAT HB))		
Dozi	ng method:	1.	000	(GEN.)		

1.000	(AVG.)
0.830	(1 SHIFT/DAY)
0.700	(FND-MF)
1.000	(CAT HB)
1.000	(CAT HB)
0.902	(CAT HB)
1.000	(PAT)
	0.830 0.700 1.000 1.000 0.902

Net correction: 0.3537

Adjusted unit production: 441.03 LCY/hr

Adjusted fleet production: 441.03 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.464/LCY

Total job time: 10.97 Hours
Total job cost: \$2,243.69

REVEGETATION WORK

Task description:

Revegetate disturbed areas

Site: N Farm Rd Pit No 1

Permit Action: SR-01

Permit/Job#: M1977140

PROJECT IDENTIFICATION

Task #: 006 State:

Colorado

Abbreviation:

None

Date:

4/7/2014

County: _ Rio Grande Filename:

M140-006

User: **RCO**

Agency or organization name: _DRMS

FERTILIZING

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Ammonium nitrate, 33-0-0	150.00	pound	\$0.36	\$53.85
Triple superphosphate, 0-46-0	100.00	pound	\$0.50	\$49.60
			Total Fertilizer Materials Cost/Acre	\$103.45

Application

Description		Cost /Acre
Tractor towed spreader (MEANS 32 01 90.13 0120)		\$52.71
	Total Fertilizer Application Cost/Acre	\$52.71

TILLING

Description (D) (C)		Cost /Acre
Chisel plowing {DMG}		\$88.58
	Total Tilling Cost/Acre	\$88.58

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Alkali Sacaton	0.15	5.85	\$3.42
Indian Ricegrass - Nespar	2.00	6.47	\$14.16
Crested Wheatgrass - Ephraim	1.50	6.89	\$3.35
Russian Wildrye - Bozoisky	1.30	5.22	\$8.11
Streambank Wheatgrass - Sodar	1.50	4.89	\$6.32
Western Wheatgrass - Arriba	2.00	5.05	\$7.36
Saltbush, Four Wing	4.00	5.51	\$42.92
Totals Seed Mix	12.45	39.89	\$85.63

Application

Description Drill seeding (DRMS Cost Data)		Cost /Acre \$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}	2.50	TON	\$265.00	\$662.50
Total Mulch Materials Cost/Acre				\$662.50

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
					\$
		Trade	lls Nursery Stoc	Ja Claud I A assa	\$0.00

JOB TIME AND COST

No. of Acres: 6 Cost /Acre: \$1,233.64

Estimated Failure Rate: 25% Cost /Acre*: \$1,233.64 *Selected Replanting Work Items: FERTILIZING, TILLING, SEEDING, MU

LCHING

Initial Job Cost: \$7,401.84 Reseeding Job Cost: \$1,850.46 Total Job Cost: \$9,252.30
Job Hours: 16.00

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description:

Haul reclamation equipment to and from site

Site: N Farm Rd Pit No 1

Permit Action: SR-01

Permit/Job#: M1977140

PROJECT IDENTIFICATION

Task #:

007

State:

Colorado

Abbreviation:

None

Date:

4/7/2014

County:

Rio Grande

Filename:

M140-007

User: RCO

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	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return Trip	DOT Permit
Description	Unit (TONS)	Cost/hr/ unit	Cost/hr/unit	Size	Cost/hr/ fleet	Cost/hr/ fleet	Cost/ fleet
Cat 320D L 9'-6" Stick	23.70	\$24.63	\$88.67	1	\$113.30	\$88.67	\$0.00
Cat D8T - 8SU	53.08	\$63.00	\$125.45	1	\$188.45	\$125.45	\$0.00
CAT 950H	20.13	\$24.98	\$88.67	1	\$113.65	\$88.67	\$0.00
Drill/Broadcast Seeder with Tractor	25.00	\$39.59	\$88.67	1	\$128.26	\$88.67	\$0.00
Power Mulcher (Reinco M90)	6.00	\$7.03	\$88.67	1	\$95.70	\$88.67	\$0.00

Subtotals: \$639.36

\$480.13

\$0.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet

Subtotals:

\$0.00

\$0.00

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:

Total one-way travel distance:

Average Travel Speed:

MONTE VISTA

miles

35.00

mph

Total Non-Roadable Mob/Demob Cost *

'* two round trips with haul rig:

Total Roadable Mob/Demob Cost **

** one round trip, no haul rig:

\$0.00

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable 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 time:	2.57	Hours