

1313 Sherman Street, Room 215 Denver, CO 80203

April 13, 2015

Mr. Gayle Lyman Grand Junction Pipe & Supply Co. 556 Struthers Ave Grand Junction, CO 81501

Re: Bradbury Pit, Permit No. M-1978-357, Financial Warranty Increase, Revision No. SI-2

Dear Mr. Lyman:

On April 13, 2015 the Division of Reclamation, Mining and Safety increased the current Financial Warranty for this permit to \$101,453.12, in accordance with Rule 4.2.1 of the Rules and Regulations. This is an increase of \$55,453.12 over the currently held amount of \$46,000.00.

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 ext. 8148.

If you need additional information, please contact me at the Division of Reclamation, Mining and Safety, Grand Junction Field Office, 101 S. 3rd St., Suite 301, Grand Junction, Colorado 81501, telephone no. (970) 241-2042.

Sincerely,

Travis Marshall

Environmental Protection Specialist

Enclosure(s): Reclamation Cost Update SI-2

ec: Russ Means, DRMS

Barbara Coria, DRMS



COST SUMMARY WORK

Task description: Reclamation Cost Update

Permit Action: Reclamation
Site: Bradbury Pit

Permit Action: Cost Update
Permit/Job#: M1978357

PROJECT IDENTIFICATION

Task #: 001 State: Colorado Abbreviation: None

 Date:
 4/13/2015
 County:
 Mesa
 Filename:
 M357-001

 User:
 THM

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Establish final grade	DOZER	1	15.05	\$3,148.00
02a	Ripp 25 acres prior to placing topsoil.	RIPPER	1	37.30	\$8,311.00
03a	Place 6" of topsoil over 33 acres	DOZER	1	61.87	\$12,937.00
04a	Revegetate 38 acres	REVEGE	1	24.00	\$50,314.00
05a	Mobilization	MOBILIZE	1	2.80	\$3,655.00
		SUBTO	OTALS:	141.02	\$78,365

INDIRECT COSTS

OVERHEAD AND PROFIT:

 Liability insurance:
 2.02%
 Total = \$1,582.97

 Performance bond:
 1.05%
 Total = \$822.83

 Job superintendent:
 70.51 hrs
 Total = \$5,299.53

 Profit:
 10.00%
 Total = \$7,836.50

rofit: 10.00% Total = \$7,836.50TOTAL O & P = \$15,541.83

CONTRACT AMOUNT (direct + O & P) = \$93,906.83

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): 500.00 Total = 500.00 Total = 500.00 Reclamation management and/or administration: 500.00 Total = 500.00 \$0.00 \$4,695.34

CONTINGENCY: 3.00 Total = \$2,350.95

TOTAL INDIRECT COST = \$23,088.12

TOTAL BOND AMOUNT (direct + indirect) = \$101,453.12

BULLDOZER WORK

Task description: Establish final grade Permit Action: **Reclamation Cost** Site: Bradbury Pit Update Permit/Job#: M1978357 PROJECT IDENTIFICATION 01A Task #: Colorado State: Abbreviation: None Date: 4/9/2015 County: Mesa Filename: M357-01a User: THM Agency or organization name: **DRMS** HOURLY EQUIPMENT COST Basic Machine: Cat D8T - 8SU Horsepower: 310 Semi-Universal Blade Type: Attachment: NA Shift Basis: 1 per day Data Source: (CRG) Cost Breakdown: **Utilization %** Ownership Cost/Hour: \$62.67 NA Operating Cost/Hour: \$107.59 100 Ripper op. Cost/Hour: \$0.00 0 Operator Cost/Hour: \$38.85 NA Total unit Cost/Hour: \$209.11 Total Fleet Cost/Hour: \$209.11 **MATERIAL QUANTITIES** Initial Volume: 6,667 Swell factor: 1.330 Loose volume: 8,867 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 Compacted fill or embankment 0.9 Materials consistency description: Average push gradient: -15 % 5,000 feet Average site altitude: Material weight: 2,900 lbs/LCY Weight description: Decomposed rock - 50% Rock, 50% Earth

Job Condition Correction Factor		Source
Operator Skill:	0.750	(AVG.)
Material consistency:	0.900	(CAT HB))
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)

0.830	(1 SHIFT/DAY)
0.800	(FND-RF)
1.329	(CAT HB)
1.000	(CAT HB)
0.793	(CAT HB)
1.000	(PAT)
	0.800 1.329 1.000 0.793

Net correction: 0.4724

Adjusted unit production:

589.04 LCY/hr

Adjusted fleet production:

589.04 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

\$0.355/LCY Unit cost:

Total job time:

15.05 Hours

Total job cost:

\$3,148

BULLDOZER RIPPING WORK

•	Task descri	ption:	Rip 2	5 acres pric	r to placing	topsoil.				
Site:	_Bradbur	y Pit		Peri		Reclamation C Update		Permit/Job#:	: M197835	7
	PROJEC'	T IDENTI	FICATIO	<u>ON</u>						
	Task #: Date: User:	02A 4/13/2015 THM	5	State: County:	Colorado Mesa		Ab	breviation: Filename:	None M357-02a	
	A	gency or org	anization	name: DF	RMS					
		EQUIPM			74.71			100		_
	I	Basic Machi er Attachme	ne: Cat	D8T - 8SU hank Ripper		 	Horsepower: Shift Basis:	1	310 per day	
	0.40.1	1					Data Source:		CRG)	_
	Cost Break		nership Co	ost/Hour:	\$69.	05	Utilization % NA			
			erating Co		\$107		100			
		Ripper Op	erating Co		\$7.3 \$38.		100 NA	-		
			al Unit Co		\$222		1421			
		Tota	al Fleet Co	ost/Hour:	\$222	.80				
	MATERI	IAL QUAN	TITIES		Sele	cted estimating	g method: Ar	'ea		
	Alternate N				5616	otou ostimuting	,	- Cu		
Seismic:	NA			Ban	k Volume:	NA	BCY		NA	
Area:	25.00		acres		Depth (ft):	2.00	Volume:	80,667		BCY or CCY
		Sour	ce of estir	nated quanti	ty: <u>Divisio</u>	n of Reclamation	on Mining and	Safety		
	HOURLY	Y PRODU	CTION							
	Seismic:									
			;	Seismic Velo	ocity:	NA	feet/se	econd		
	Area:									
				ge Ripping D		2.56	mph			
				e Ripping We Ripping Le		7.08 350.00	degre feet	es		
				age Dozer S		88.00	feet			
				Maneuver 7		0.25	feet			
			_	tion per unit		0.807	acres/	/hour		
	Job Condit	tion Correcti	on Factors	<u> </u>						
		Unadjus	ted Hourly	Unit Produ	ction:	0.807	Acres	s/hr		
				Site Alti	itude:	5,000	feet			
				Altitude		1.00	(CAT	HB)		
				Job Effici	ency:	0.83	(1 shi	ift/day)		
				Net Corre	ction:	0.83	multi	plier		
			-		t Production: t Production:	0.67 0.67	Acres/hr Acres/hr			
	JOB TIM	IE AND C	<u>OST</u>							
	Fleet s	ize:	1	_ Grader(s)		Total job tin	ne:	37.30	Hou	ırs
	Unit c	net \$2	32 455	Per acre		Total job co	set.	CR 311		

BULLDOZER WORK

Task description:	Place 6	" of topso	il/growth m	edium over 33 acres		
: Bradbury Pit		Per	mit Action:	Reclamation Cost Update	Permit/Job#:	M1978357
PROJECT IDENTI	FICATION	N				
Task #: _ 03A		State:	Colorado		Abbreviation:	None
Date: 4/13/201 User: THM	5	County:	Mesa		Filename:	M357-03a
Agency or org	ganization na	me: DF	RMS			
HOURLY EQUIPM	IENT COS	<u>T</u>				
	Cat D8T - 8SI	U				
A	10			_		
	emi-Univers	al		<u> </u>		
	NA					
	per day CRG)					
Cost Breakdown:	<u>Orto</u>					
Cost Breakdown:				Utilization %		
Ownership Cost/Hour	••	\$62.67		NA		
Operating Cost/Hour		\$107.59		100		
Ripper op. Cost/Hou		\$0.00		0		
Operator Cost/Hour		\$38.85		NA		
Swell factor: 1.	NTITIES 5,620 000 5,620 LCY					
Source of estimated vo	lume:	Division Cat Hand		ion, Mining & Safety		
HOURLY PRODU	CTION					
Average push distance		20 feet				
Unadjusted hourly pro-		51.6 LCY	/hr			
Materials consistency	description:	Loose	stockpile 1.2	2		
Average push gradient Average site altitude:	: 0 % 5,000 fe	et				
Material weight:	2,400 lb	s/LCY		Au		
Weight description:	Clay an	d gravel -	Dry			
Job Condition Correcti		_		Source		
	or Skill:		.750	(AVG.)		
Material cons			.200	(CAT HB)	
Dozing	memou:	1	.000	(GEN.)		

(AVG.)

Visibility: 1.000

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

Net correction: 0.5725

Adjusted unit production: 430.29 LCY/hr
Adjusted fleet production: 430.29 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.486/LCY

Total job time: 61.87 Hours
Total job cost: \$12,937

REVEGETATION WORK

_ <u>B</u>	Bradbury	Pit		Pen	mit Action	Recla Upda	amation Cos	st	Permit/Job#:	M1978357
PR	ROJECT IDENTIFICATION									
Task #: 04A				State:	Colorad)			Abbreviation:	None
Date: 4/13/2015 County: Mesa							Filename:	M357-04a		
	User:	THM		•				C-111091		
	Ag	ency or organ	nization na	me: DF	RMS					
Œ	RTILIZ	ZING								
Лa	aterials									
D	escriptio	n			I	nits / cre	Unit	Co	st / Unit	Cost /Acre
_					A					
								\$		\$
								To	otal Fertilizer	
									Materials	
									Cost/Acre	\$0.00
αA	plication	1								
										Cost /Acre
	Description									
										Cost /Acre
						Total	Fortilizar	A policeti	ion Cont/A ava	\$
						Total	Fertilizer	Applicati	ion Cost/Acre	
D	Description	on				Total	Fertilizer	Applicati	ion Cost/Acre	\$
D		on				Total	Fertilizer	Applicati	ion Cost/Acre	\$
ri	Description	on				Total	Fertilizer	Applicati	ion Cost/Acre	\$0.00
	Description Description Description	on	n (MEANS	S 32 91 13	3.23 6100)	Total	Fertilizer	Applicati	ion Cost/Acre	\$ \$0.00 Cost/Acre
	Description Description Description	on	p (MEANS	S 32 91 13	3.23 6100)	Total	Fertilizer	Applicati	ion Cost/Acre	\$0.00
ri	Description Description Description	on	p (MEANS	S 32 91 13	3.23 6100)	Total				\$0.00 Cost /Acre \$98.01
	Description Description Description	on	p (MEANS	S 32 91 13	3.23 6100)	Total			ion Cost/Acre	\$ \$0.00 Cost/Acre
ri 	Description Description Description	on owing, 6" dee	p (MEANS	S 32 91 13	3.23 6100)	Total				\$0.00 Cost /Acre \$98.01
ri ri	LLING Description	on owing, 6" dee	p (MEANS	3 32 91 13	3.23 6100)	Total			ing Cost/Acre	\$ \$0.00 Cost /Acre \$98.01
	LLING Description	on owing, 6" dee	p (MEANS	S 32 91 13	3.23 6100)	Total		otal Till	ing Cost/Acre	\$0.00 Cost /Acre \$98.01
	LLING Description Disc harro	on owing, 6" dee	p (MEANS	S 32 91 13	3.23 6100)	Total		Rate – PLS LBS /	Seeds per SQ.	\$ \$0.00 Cost /Acre \$98.01
	LLING Description Disc harron	on owing, 6" dee		S 32 91 13	3.23 6100)	Total		Rate – PLS LBS / Acre	Seeds per SQ. FT	\$ \$0.00 Cost /Acre \$98.01 \$98.01 Cost /Acre
ri I SE	LLING Description Disc harron EEDING Seed Mix	on owing, 6" dee		3 32 91 13	3.23 6100)	Total		Rate – PLS LBS / Acre 2.00	Seeds per SQ. FT	\$ \$0.00 Cost /Acre \$98.01 \$98.01 Cost /Acre
TI I	LLING Description Disc harron EEDING Seed Mix Indian Rich	on owing, 6" dee cegrass - Palo ma - Native		S 32 91 13	3.23 6100)	Total		Rate – PLS LBS / Acre 2.00	Seeds per SQ. FT 6.47 12.24	\$ \$0.00 Cost /Acre \$98.01 \$98.01 Cost /Acre \$17.42 \$7.76
SE S	LLING Description Description Disc harron EEDING Seed Mix Indian Richard Blue Grant Sand Dro	on owing, 6" dee cegrass - Palo ma - Native		S 32 91 13	3.23 6100)	Total		Rate – PLS LBS / Acre 2.00 0.75 0.20	Seeds per SQ. FT 6.47 12.24 23.88	\$ \$0.00 Cost /Acre \$98.01 \$98.01 Cost /Acre \$17.42 \$7.76 \$1.40
FI E S	LLING Description Disc harron EEDING Seed Mix Indian Rich	on owing, 6" dee cegrass - Palo ma - Native		S 32 91 13	3.23 6100)	Total		Rate – PLS LBS / Acre 2.00	Seeds per SQ. FT 6.47 12.24	\$ \$0.00 Cost /Acre \$98.01 \$98.01 Cost /Acre \$17.42 \$7.76

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: 38

Cost /Acre: \$945.76

Cost /Acre*: \$945.76

Estimated Failure Rate: 40% C
*Selected Replanting Work Items: TILLING,SEEDING,MULCHING

Initial Job Cost: \$35,938.88

Reseeding Job Cost: \$14,375.55 Total Job Cost: \$50,314

Job Hours: 24.00

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description: Mobilization

Permit Action: Reclamation Cost

Site: Bradbury Pit Update Permit/Job#: M1978357

PROJECT IDENTIFICATION

Task #: 05A State: Colorado Abbreviation: None

Date: 4/13/2015 County: Mesa Filename: M357-05a

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	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	\$69.05	\$125.45	2	\$388.99	\$250.90	\$500.00
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: \$612.95 \$428.24 \$1,000.00

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.	\$15.25	2	\$30.50	\$30.50

Subtotals: \$30.50 \$30.50

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:

Total one-way travel distance:

Average Travel Speed:

GRAND JUNCTION

miles

50.00

mph

Total Non-Roadable Mob/Demob Cost *

'* two round trips with haul rig:

Total Roadable Mob/Demob Cost **

** one round trip, no haul rig:

\$3,642.38

\$12.20

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment	
Haul Time (Hours):	0.20	0.20	
Return Time (Hours):	0.20	0.20	
Loading Time (Hours):	0.50	NA	
Unloading Time (Hours):	0.50	NA	
Subtotals:	1.40	0.40	

JOB TIME AND COST

Total job cost: 2.80 Hours

Total job cost: \$3,655