March 1, 2017

M.J Cadgene Cadgene Pit P.O. Box 10 Redvale, CO 81431



1313 Sherman Street, Room 215 Denver, CO 80203

RE: Cadgene Pit, Permit No. M-1983-158, Reclamation Costs Update and Notice of Surety Increase (SI-4)

Mr. Cadgene:

In an effort to ensure the Financial Warranty for the above referenced site adequately reflects the actual current costs of fulfilling the requirements of the approved reclamation plan, the Colorado Division of Reclamation, Mining and Safety (Division) has updated the reclamation cost estimate (copy enclosed). Therefore, pursuant to Section 34–32.5–117(4) of the Colorado Land Reclamation Act, adequate Financial Warranty must be submitted to the Division within 60 days of the mailing date of this letter. The additional amount needs to be accepted prior to Monday, May 01, 2017. Please review the enclosed figures as soon as possible and contact our office if any calculation errors are noted.

Staff calculations estimate the cost to reclaim the above referenced site to be \$30,000.00. This is an increase of \$8,700.00 over the \$21,300.00 currently held by the Division. This estimate is based on current prices and conditions observed during the February 24, 2017 inspection.

Please make arrangements with Barbara Coria at the Division of Reclamation, Mining and Safety Denver Office, phone no. 303.866.3567, ext. 8148 for submittal of the financial warranty. Any questions regarding completion, execution and/or submittal of financial warranty forms should also be directed to Barbara Coria.

If you require additional information, have questions or concerns, please contact me at the DRMS Grand Junction Field Office.

Sincerely.

Dustin Czapla

Environmental Protection Specialist
Department of Natural Resources
Division of Reclamation, Mining and Safety
101 South 3rd, Suite 301
Grand Junction, CO 81501

Phone: (970) 243-6299

Enc: Financial Warranty Cost Estimate



COST SUMMARY WORK

-	Cadgene Pit	Pe	rmit Action:	2017 Update		Permit/Job#	: M1983158
F	ROJECT IDENTIFIC	ATION					
	Task #: 000	State:	Colorado			Abbreviation:	None
	Date: $\frac{3}{1/2017}$	County:	Montrose				M158-000
	User: DMC						
	Agency or organiz	ation name: DF	RMS				
ΓΑ	ASK LIST (DIRECT (COSTS)					
k				Form	Fleet	Task	
S	Description			Used	Size	Hours	Cost
	Reduce highwalls to 3			DOZER	1	2.96	\$567.00
	Rip pit floor prior to to	psoil placement		RIPPER	_ 1	11.98	\$2,477.00
	Topsoil placement			DOZER	_ 1	9.99	\$1,916.00
	Revegetation			REVEGE	1	8.00	\$16,475.00
	Mobilization			MOBILIZE	1	3.04	\$2,706.00
	IDIRECT COSTS	r.					
	/ERHEAD AND PROFIT					T I	
	VERHEAD AND PROFIT	ce: 2.02					7.65
	/ERHEAD AND PROFIT Liability insurance Performance bor	ce: 2.02 nd: 1.05				Total =	3.48
	VERHEAD AND PROFITE Liability insurance bore Job superintender	ce: 2.02 nd: 1.05 nt: 17.99				Total =	3.48 313.80
	/ERHEAD AND PROFIT Liability insurance Performance bor	ce: 2.02 nd: 1.05 nt: 17.99			TOTAI	Total =	3.48 313.80 414.10
	VERHEAD AND PROFITE Liability insurance bore Job superintender	ce: 2.02 nd: 1.05 nt: 17.99	CONTR	ACT AMOUNT		Total = \$25 Total = \$1,3 Total = \$2,4 L O & P = \$4,4	3.48 313.80
<u>OV</u>	/ERHEAD AND PROFIT Liability insurance Performance bor Job superintender Prof	ce: 2.02 ad: 1.05 nt: 17.99 fit: 10.00		ACT AMOUNT		Total = \$25 Total = \$1,3 Total = \$2,4 L O & P = \$4,4	3.48 313.80 414.10 469.03
<u>OV</u>	VERHEAD AND PROFITE Liability insurance bore Job superintender	ce: 2.02 ad: 1.05 nt: 17.99 fit: 10.00		ACT AMOUNT		Total = \$25 Total = \$1,3 Total = \$2,4 L O & P = \$4,4	3.48 313.80 414.10 469.03
<u>OV</u>	/ERHEAD AND PROFIT Liability insurance Performance bor Job superintender Prof EGAL - ENGINEERING - Financial warranty pro	ce: 2.02 ad: 1.05 nt: 17.99 fit: 10.00 PROJECT MAN cessing (legal/rela	AGEMENT: ted costs): _	0.00		Total =	3.48 313.80 414.10 469.03 ,610.03
<u>OV</u>	/ERHEAD AND PROFIT Liability insurance Performance bore Job superintender Prof GGAL - ENGINEERING - Financial warranty pro Engineering work and	ce: 2.02 nd: 1.05 nt: 17.99 fit: 10.00 PROJECT MAN cessing (legal/rela	AGEMENT: ated costs): reparation:	0.00		$ \begin{array}{rcl} \text{Total} &= & \$25 \\ \text{Total} &= & \$1,3 \\ \text{Total} &= & \$2,4 \\ \text{O & P} &= & \$4,4 \\ \text{O & P}) &= & \$28 \\ \end{array} $ $ \begin{array}{rcl} \text{Total} &= & 0.00 \\ \text{Total} &= & \$0.00 \\ $	3.48 313.80 414.10 469.03 ,610.03
OV	/ERHEAD AND PROFIT Liability insurance Performance bor Job superintender Prof EGAL - ENGINEERING - Financial warranty pro	ce: 2.02 nd: 1.05 nt: 17.99 fit: 10.00 PROJECT MAN cessing (legal/rela	AGEMENT: ated costs): reparation:	0.00		Total = \$25 Total = \$1,3 Total = \$2,4 O & P = \$4,4 O & P) = \$28 Total = 0.00 Total = \$0.00	3.48 313.80 414.10 469.03 ,610.03
OV	/ERHEAD AND PROFIT Liability insurance Performance bore Job superintender Prof GGAL - ENGINEERING - Financial warranty pro Engineering work and	ce: 2.02 ad: 1.05 nt: 17.99 fit: 10.00 PROJECT MAN cessing (legal/rela l/or contract/bid prement and/or admin	AGEMENT: ated costs): reparation:	0.00		Total = \$25 Total = \$1,3 Total = \$2,4 O & P = \$4,4 O & P) = \$28 Total = 0.00 Total = \$0.00	3.48 313.80 414.10 469.03 ,610.03
<u>OV</u>	/ERHEAD AND PROFIT Liability insurance Performance bore Job superintender Prof GGAL - ENGINEERING - Financial warranty pro Engineering work and	ce: 2.02 ad: 1.05 nt: 17.99 fit: 10.00 PROJECT MAN cessing (legal/rela l/or contract/bid prement and/or admin	AGEMENT: ted costs): reparation: inistration:	0.00 0.00 5.00		$ \begin{array}{rcl} & Total = & \$25 \\ & Total = & \$1,3 \\ & Total = & \$2,4 \\ & O & P = & \$4,4 \\ & O & P) = & \$28 \\ & Total = & $0.00 \\ & Total = & \$0.0 \\ & Total = & \$0.0 \\ & $1,4$	3.48 313.80 414.10 469.03 ,610.03

TOTAL BOND AMOUNT (direct + indirect) = \$30,040.53

BULLDOZER WORK

Cadgene Pit	Permit Action:	2017 Update	Permit/Jo	b#: M1983158
		*		
PROJECT IDENTIFICATIO	<u>N</u>			
Task #: 01A	State: Colorado		Abbreviation:	None
Date: 3/1/2017	County: Montrose		Filename:	M158-01a
User: DMC				
Agency or organization r	name: DRMS			
IOURLY EQUIPMENT CO	<u>ST</u>			
Basic Machine: Cat D8T - 8	SU			
Horsepower: 310				
Blade Type: Semi-Unive	ersal			
Attachment: NA				
Shift Basis: 1 per day				
Data Source: (CRG)				
Cost Breakdown:				
SEC ZIOMEGO WIII		Utilization %		
Ownership Cost/Hour:	\$83.81	NA		
Operating Cost/Hour:	\$66.17	100		
Ripper own.	\$0.00	NA		
Cost/Hour:Ripper op. Cost/Hour:	\$0.00	0		
Operator Cost/Hour:	\$41.85			
Operator Cost/Hour.	\$41.63	NA		
Total unit Cost/Hour: \$191.8	33			
Total Fleet Cost/Hour: \$191.8				
	· -			
MATERIAL QUANTITIES				
Initial Volume: 2,507				
Swell factor: 1.000				
Loose volume: 2,507 LCY				
Source of estimated volume:	Division of Reclamation	Mining & Safety		
Source of estimated swell	Cat Handbook	, many & surety		
	Cat Handbook			
factor:		<u> </u>		
factor:				
factor: IOURLY PRODUCTION		_		
factor: HOURLY PRODUCTION Average push distance:	50 feet	_		
factor: IOURLY PRODUCTION Average push distance: Unadjusted hourly	50 feet 1,400.0 LCY/hr	_		
factor: HOURLY PRODUCTION Average push distance:		_		
factor: IOURLY PRODUCTION Average push distance: Unadjusted hourly production:	1,400.0 LCY/hr			
factor: IOURLY PRODUCTION Average push distance: Unadjusted hourly	1,400.0 LCY/hr	— — ockpile 1.1		
factor: IOURLY PRODUCTION Average push distance: Unadjusted hourly production: Materials consistency description	1,400.0 LCY/hr	— — ockpile 1.1		
factor: HOURLY PRODUCTION Average push distance: Unadjusted hourly production: Materials consistency description Average push -10 %	1,400.0 LCY/hr	— — ockpile 1.1		
factor: IOURLY PRODUCTION Average push distance: Unadjusted hourly production: Materials consistency description Average push gradient: -10 %	1,400.0 LCY/hr : Partly consolidated sto	ockpile 1.1		
factor: HOURLY PRODUCTION Average push distance: Unadjusted hourly production: Materials consistency description Average push -10 %	1,400.0 LCY/hr : Partly consolidated sto	— — ockpile 1.1		
factor: IOURLY PRODUCTION Average push distance: Unadjusted hourly production: Materials consistency description Average push gradient: Average site altitude: 6,300	1,400.0 LCY/hr : Partly consolidated sto	— ockpile 1.1		
factor: IOURLY PRODUCTION Average push distance: Unadjusted hourly production: Materials consistency description Average push gradient: Average site altitude: 6,300	1,400.0 LCY/hr : Partly consolidated sto	ockpile 1.1		
factor: IOURLY PRODUCTION Average push distance: Unadjusted hourly production: Materials consistency description Average push gradient: Average site altitude: Material weight: 2,550	1,400.0 LCY/hr : Partly consolidated sto	ockpile 1.1		

Operator Skill:	0.750	(AVG.)
Material consistency:	1.100	(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:	1.225	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.6053

Adjusted unit production:

Adjusted fleet 847.42 LCY/hr

847.42 LCY/hr

JOB TIME AND COST

production:

Fleet size: 1 Dozer(s)
Unit cost: \$0.226/LCY

Total job time: 2.96 Hours
Total job cost: \$567

BULLDOZER RIPPING WORK

Task description:	Rip pit floor prior to topsoi	l placement			
Site: Cadgene Pit	Permit Action:	2017 Update	Permit/J	ob#: <u>M19831</u>	58
PROJECT IDENTIFI	<u>ICATION</u>				
Task #: 02A	State: Colorado		Abbreviation:		
Date: 3/1/2017 User: DMC	County: Montrose		Filename:	: M158-02a	
	nization name: DRMS				
					-
HOURLY EQUIPME	<u> </u>		**	210	
Basic Machine Ripper Attachmen			Horsepower: Shift Basis: 1	310 l per day	=
			Data Source:	(CRG)	-
Cost Breakdown:		1 -			
Owne	rship Cost/Hour:	\$83.81	Utilization % NA		
Oper	rating Cost/Hour:	\$66.17	100		
* *	rship Cost/Hour:ating Cost/Hour:	\$7.55 \$7.21	NA 100		
	erator Cost/Hour:	\$41.85	NA		
Total	Unit Cost/Hour:	\$206.59			
Total	Fleet Cost/Hour: \$20	6.59			
MATERIAL QUANT	<u>ITIES</u> Sele	cted estimating m	nethod: Area		
Alternate Methods:					
Seismic: NA	Bank Volume:		BCY	NA	
Area: 7.00 a	cres Rip Depth (ft):	1.00	Volume:11,293	<u> </u>	BCY or CC
Source	of estimated quantity: <u>DRMS</u>	S			=
HOURLY PRODUCT	CION				
Seismic:					
	Seismic Velocity:	NA	feet/second		
Area:	Averege Dinning Denthy	2.56	man la		
	Average Ripping Depth: Average Ripping Width:	2.56 7.08	mph degrees		
	Average Ripping Length:	100.00	feet		
	Average Dozer Speed: Average Maneuver Time:	88.00 0.25	feet feet		
	Production per unit area:	0.703	acres/hour		
Job Condition Correction	Factors				
	Hourly Unit Production:	0.703	Acres/hr		
J	Site Altitude:	6,300	feet		
	Altitude Adj:	1.00	(CAT HB)		
	Job Efficiency:	0.83	(1 shift/day)		
	Net Correction:	0.83	multiplier		
	djusted Hourly Unit Production:	0.58	Acres/hr		
	ljusted Hourly Fleet Production:	0.58	Acres/hr		
JOB TIME AND COS					
Fleet size:	Grader(s)	Total job time:	11.99	Hours	
Unit cost: \$353	Per acre	Total job cost:	\$2,477		

BULLDOZER WORK

Task description:	Topsoil pla	cement			
te: Cadgene Pit		Permit Action:	2017 Update	Permit/Jo	b#: <u>M1983158</u>
PROJECT IDENTIF	FICATION				
Task #: 03A Date: 3/1/2017 User: DMC		ate: Colorado nty: Montrose		Abbreviation: Filename:	None M158-03a
	anization name:	DRMS			
HOURLY EQUIPM	ENT COST				
Horsepower: 3 Blade Type: S Attachment: N Shift Basis: 1	Cat D8T - 8SU 10 emi-Universal IA per day		- - -		
Data Source:(0	CRG)		-		
Cost Breakdown:		\$92.91	<u>Utilization %</u>		
Ownership Cost/Hour Operating Cost/Hour		\$83.81 \$66.17	NA 100		
Ripper own		\$0.00	NA		
Cost/Hour Ripper op. Cost/Hour		\$0.00	0		
Operator Cost/Hour		\$41.85	NA		
Swell factor: 1.0	145				
<u></u>	145 LCY				
Source of estimated vo Source of estimated sw factor:		ision of Reclamatio	n, Mining & Safety		
HOURLY PRODUC	<u>TION</u>				
Average push distance Unadjusted hourly production:		et LCY/hr			
Materials consistency	description: L	pose stockpile 1.2			
Average push gradient:	0 %				
Average site altitude:	6,300 feet				
Material weight:	1,600 lbs/LC	Y		<u></u>	
Weight description:	Top Soil				
Job Condition Correction	n Factor		Source		

Operator Skill:	0.750	(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: 545.05 LCY/hr
Adjusted fleet 545.05 LCY/hr

production: 545.05 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.352/LCY

Total job time: 9.99 Hours
Total job cost: \$1,916

\$68.00

\$68.00

REVEGETATION WORK

Task descrip	otion:	Revegetation				
e: Cadgene	Pit	Pe	rmit Action: 201	7 Update	Permit/Jol	b#: <u>M1983158</u>
PROJECT	<u>IDENTIFI</u>	<u>CATION</u>				
Task #:	04A	State:	Colorado		Abbreviation:	None
Date:	3/1/2017	County:	Montrose		Filename:	M158-04a
User:	DMC				=	
FERTILIZI	, ,	nization name: DF	RMS			
Materials			TT 1/			
Description	on		Units /	Unit	Cost / Unit	Cost /Acre

200.00

pound

\$0.34

Total Fertilizer Materials Cost/Acre

Application

10-34-0, 18-46-0, 5-10-5

Description		Cost /Acre
Tractor towed spreader (MEANS 32 01 90.13 0120)		\$144.62
	Total Fertilizer Application Cost/Acre	\$144.62

TILLING

Description		Cost /Acre
Chisel plowing {DMG}		\$90.60
Weed control spraying (MEANS 31 31 16.13 3100)		\$242.00
	Total Tilling Cost/Acre	\$332.60

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Sand Dropseed	0.15	17.91	\$1.63
Thickspike Wheatgrass - Critana	2.75	9.72	\$15.79
Western Wheatgrass - Arriba	6.00	15.15	\$48.48
Totals Seed Mix	8.90	42.78	\$65.89

Application

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

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$261.00	\$522.00
	,	Total Mulch M	\$522.00	

Application

Description		Cost /Acre
Power mulcher (MEANS 32 91 13.16 0350)		\$99.32
	Total Mulch Application Cost/Acre	\$99.32

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: 9 Cost / Acre: \$1,464.43

Estimated Failure Rate: 25% Cost /Acre*: \$1,464.43

*Selected Replanting Work Items: FERTILIZING, TILLING, SEEDING,

MULCHING

Initial Job Cost: \$13,179.87

Reseeding Job Cost: \$3,294.97

Total Job Cost: \$16,475

Job Hours: \$8.00

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description: Mo	bilization				
e: Cadgene Pit	Permit	t Action: 2017 U	odate Per	rmit/Job#: <u>M1983158</u>	
PROJECT IDENTIFICATI	<u>ON</u>				
Task #: 05A	State: C	olorado	Abbrevi	ation: None	
Date: 3/1/2017 User: DMC	County: N	Iontrose	File	name: M158-05a	
Agency or organization	n name: DRMS	S			
EQUIPMENT TRANSPOR	T RIG COST				
			Shift basis	s: 1 per day	
			Cost Data Source		
Truck Tractor Desc	ription: GENI		AY TRUCK TRACTOR 400 HP (2ND HALF, 20	., 6X4, DIESEL POWERE	ED,
Truck Trailer Desc	ription: C		IG GOOSENECK, DRO	· · · · · · · · · · · · · · · · · · ·	
	1		AILER (25T, 50T, AND	•	
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		

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 - 8SU	53.08	\$91.36	\$125.45	1	\$216.81	\$125.45	\$250.00
Drill/Broadcast Seeder with	25.00	\$12.22	\$88.67	1	\$100.89	\$88.67	\$250.00
Tractor							
Power Mulcher	6.00	\$7.03	\$88.67	1	\$95.70	\$88.67	\$250.00
(Bowie LD-90)							

\$117.55

\$125.45

Subtotals: \$413.40 \$302.79 \$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.	\$12.26	1	\$12.26	\$12.26

Subtotals: \$12.26 \$12.26

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:
Total one-way travel distance:
Average Travel Speed:

NORWOOD
miles
50.00
mph

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.26	0.26
Return Time (Hours):	0.26	0.26
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.52	0.52

JOB TIME AND COST

Total job time:	3.04	Hours
Total job cost	\$2.706	