

July 13, 2023

Richard Bassi Bassi North Farm, LLC 2045 Lake Ave Pueblo, CO 81004

RE: North Farm Road Gravel Pit, Permit No. M-2000-110, Estimated Reclamation Costs Update

Dear Mr. Bassi:

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).

Division calculations estimate the cost to reclaim the above referenced site to be <u>\$35,449</u>. This is an increase of <u>\$8,666</u> over the <u>\$26,783</u> currently held by the Division. This estimate is based on conditions observed during the April 11, 2023 inspection. Please review the enclosed figures as soon as possible and contact our office if any calculation errors are noted.

The estimated reclamation cost was last calculated in August of 2017. Per rule 4.2.1(2) the estimation is periodically updated to ensure that the Division holds a sufficient sum to cover the cost of reclamation. The increase in the financial Warranty is due to increases is the cost of fuel, equipment, and labor since the last adjustment.

If no comments are received by August 10, 2023 then it is the Divisions understanding that the operator has no objections to the bond calculated on July 13, 2023 for the amount of \$35,449 according to the current permit conditions. At that time a Notice for Surety Increase will be issued for the above amount as required by the Act and Rules.

If you require additional information, or have questions or concerns, please feel free to contact me.

Sincerely,

Corre

Todd Jesse Environmental Protection Specialist Department of Natural Resources

Cc: Travis Marshall, Senior EPS, Grand Junction DRMS

Enc: Financial Warranty Cost Estimate



COST SUMMARY WORK

North Fa	arm Road Grave	el Pit Per	rmit Action: 2023 update	Permit/Jol	b#: <u>M2000110</u>
PROJECT	IDENTIFICA	TION			
Task #:	002	State:	Colorado	Abbreviation:	None
Date:	6/8/2023	County:	Rio Grande	Filename:	M110-002
User:	TJ1				

TASK LIST (DIRECT COSTS)

Task		Form	Fleet	Task	Cost
	Description	Used	Size	Hours	Cost
001a	Rough Grading	DOZER	1	12.77	\$3,367
002a	Rip Compacted Areas	RIPPER	1	4.74	\$1,349
003a	Haul topsoil from stockpile for spreading	SCRAPER1] 1	7.30	\$9,525
004a	Spread topsoil on graded areas	DOZER] 1	6.49	\$1,846
005a	Revegetate Disturbed Area	REVEGE	1	8.00	\$7,986
006a	Mobilization	MOBILIZE	1	2.50	\$3,695
		<u>SUBTO</u>	TALS:	41.8	\$27,768

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$561
Performance bond:	1.05	Total =	\$292
Job superintendent:	20.90	Total =	\$1,570
Profit:	10.00	Total =	\$2,777
		TOTAL O & P =	\$5,199
		CONTRACT AMOUNT (direct + O & P) = $\frac{1}{2}$	\$32,967

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): Engineering work and/or contract/bid preparation: Reclamation management and/or administration:	\$0 0.00 5.00	Total = Total =	\$0 \$0 \$1,648
CONTINGENCY:	3.00	Total =	\$833
	TOTAL IN	NDIRECT COST =	\$7,681
TOTAL BO	\$35,449		

Page 1 of 2

BULLDOZER WORK

Task description:	_	Rough Gra	ading					
North Farm Roa	ad Grav	el Pit	Pe	rmit Action:	2023 update	2	Permit/Jo	b#: <u>M2000110</u>
PROJECT IDEN	TIFICA	ATION						
Task #: 001A		S	tate:	Colorado			Abbreviation:	None
Date: 6/8/2	023	Cou	unty:	Rio Grande	e		Filename:	M110-001a
User: TJ1								
Agency or	organiza	ation name:	DF	RMS				
HOURLY EQUIE	PMENT	<u>r cost</u>						
Basic Machine:	Cat D	8T - 8SU						
Horsepower:	310							
Blade Type:	Semi-	Universal						
Attachment:	NA							
Shift Basis:	1 per							
Data Source:	(CRG	i)			_			
Cost Breakdown:								
					<u>Utiliza</u>	tion %		
Ownership Cost/H	lour:			\$124.85	N			
Operating Cost/H				\$97.63	10	00		
Ripper o Cost/H				\$0.00	N	A		
Ripper op. Cost/H				\$0.00	()		
Operator Cost/H				\$41.30	N			
Initial Volume: Swell factor:	5,082 1.165	<u>IES</u>						
Loose volume:	5,921 I	LCY						
Source of estimated Source of estimated factor:			vision t Hand		on, Mining &	Safety		
HOURLY PROD	UCTIO	<u>DN</u>						
Average push dista	ince:	65 fe	et					
Unadjusted hourly production:		1,170).3 LC	Y/hr				
Materials consisten	ncy descr	ription:	Compa	acted fill or en	mbankment 0	.9		
Average push	-	-5 %						
gradient: Average site altitud	le:	7,640 feet						
Material weight:		2,900 lbs/L	CY					
Weight description	: _1	Decompose	d rock	c - 50% Rock	, 50% Earth			
ob Condition Correc	ction Fac	<u>ctor</u>				Source		

Task # 001A

Operator Skill:	0.750	(AVG.)
Material consistency:	0.900	(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:	1.115	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3963

Adjusted unit production:	463.79 LCY/hr
Adjusted fleet production:	463.79 LCY/hr

JOB TIME AND COST

Fleet size:	1 Dozer(s)
Unit cost:	\$0.569/LCY

Total job time:	12.77 Hours
Total job cost:	\$3,367

BULLDOZER RIPPING WORK

Task description	: Rip Compacte	d Areas					_
Site: North Farm	Road Gravel Pit P	Permit Action:	2023 update		Permit/Job#	: <u>M200011</u>	0
PROJECT IDE	ENTIFICATION						
Task #: 00	2A State:	Colorado		Abbi	reviation:	None	
Date: 6/	8/2023 County:	Rio Grande	;	H	Filename:	M110-002a	
User: TJ	1						
Agency	or organization name: I	DRMS					
HOURLY FOI	JIPMENT COST						
		T		TT.	2	10	
Ripper At	Machine: Cat D8T - 8SU achment: 3-Shank Ripp		_	Horsepower: Shift Basis:		10 r day	
Ripper At		ci	_	Data Source:		RG)	
Cost Dreakdown						(0)	
Cost Breakdown:				Utilization %			
	Ownership Cost/Hour:		\$124.85	NA			
	Operating Cost/Hour:		\$97.63	100	-		
Rippe	er Ownership Cost/Hour:		\$13.10	NA	-		
Ripp	per Operating Cost/Hour:		\$7.30	100	-		
	Operator Cost/Hour:		\$41.30	NA	-		
	Total Unit Cost/Hour:		\$284.18				
	Total Fleet Cost/Hour:	\$284	.18				
	=						
Alternate Method		Bank Volume:	NA	BCY		NA	
rea: 3.15	acres R	ip Depth (ft):	1.50	Volume:	7,623		BCY or
	Source of estimated quant	tity: TR-01	Application				
	-						
HOURLY PRO	DUCTION						
Seismic:				6			
	Seismic Vel	locity:	NA	feet/sec	cond		
Area:							
	Average Ripping I		2.56	feet/pas			
	Average Ripping V Average Ripping L		7.08	feet/pas			
	Average Ripping D Average Dozer S	· · · · · · · · · · · · · · · · · · ·	<u>300.00</u> 88.00	feet/pas feet/mi			
	Average Maneuver		0.25	minutes			
	Production per uni		0.800	acres/h	-		
Job Condition Co	rrection Factors						
	adjusted Hourly Unit Produ	uction:	0.800	Acres/h	ır		
	Site Alt Altitud		7,640	feet (CAT H	IB)		
	Job Effic		0.83	(1 shift)	,		
	Net Corre		0.83	multipl			
	Adjusted Hourly Uni	t Production	0.66	Acres/hr			
	Adjusted Hourly Flee		0.00				
JOB TIME AN	Aujusteu nourry riee	r Flouuction.	0.66	Acres/hr			
			0.66	Acres/nr			
Fleet size:			0.66 Total job time		4.75	Hours	
Fleet size:	<u>D COST</u>	;)		e:	4.75 1,349	Hours	

CIRCES Cost Estimating Software

SCRAPER TEAM WORK

Site: Nor	th Farm Roa	d Gravel Pit	Perm	it Action:	2023 update	P	ermit/Job#:	M200011	0
PROJ	ECT IDENT	IFICATION							
Ta	sk #: 003A		State:	Colorado		Abbrey	viation: N	one	
	Date: $\frac{6}{8/20}$	23 C		Rio Grand	e			[110-003a	
	Jser: TJ1				-				
	Agency or o	rganization name	e: DRM	IS					
	6.	0							
HOUR	RLY EQUIP	MENT_			COSTS	Shift basis: <u>1 per</u>	<u>day</u>		
			0	Equipmen	nt Description				
		-	Scraper: -Dozer:	Cat 627 Cat D87	G w/push-pull				
	Suppor	t Equipment -Lo		NA					
			np Area:	NA					
	Road Mai	ntenance – Motor Wate	Grader: Truck:	NA NA					
		- wate	I HUCK.	NA					
Cost B	reakdown:	Scraper Wo	ork Team		Support Equ	ipment		enance Equ	
		Scraper	Doz	zer	Load Area	Dump Area	Motor Gra	der Wa	ter Truc
%Utilizati	on-machine:	100		100	NA	NA]	NA	N
Ownersh	ip cost/hour:	\$227.06	\$1	124.85	NA	NA]	NA	N
Operation	ng cost/hour:	\$252.32	5	\$97.63	NA	NA]	NA	N
%Utiliz	ation-ripper:	NA		100	NA	NA]	NA	N
11	n. cost/hour:	NA		\$13.10	NA	NA]	NA	N
	p. cost/hour:	NA		\$7.30	NA	NA		NA	N
-	or cost/hour:	\$30.90		\$41.30	NA	NA		NA	N
	nit Subtotals:	\$510.28	\$2	284.18	NA	NA]	NA	N
	ber of Units:	2		1	0	0		0	
Grou	up Subtotals:	Work:	\$1,30	4.74	Support:	\$0.00	Ma	int:	\$0.00
Total w	ork team cost/	hour: \$1,304.74							
MATE	ERIAL QUA	<u>NTITIES</u>							
	nitial volume:	4,358		CCY	Swell fac	tor: <u>1.000</u>			
L	loose volume:	4,358		LCY					
		ce of estimated v				, Mining & Safety	1		
	Source o	f estimated swell	tactor:	Cat Hand	book				
HOUR	RLY PRODU	UCTION							
<u></u>					Soronor E	Bowl (volume) Ba	cic.		
								1.037	
	terial weight: l description:	2,550 lbs/LCY Earth - Dry pac	kad			Volume: 15.70 Volume: 22.00		LCY LCY	
			ACU .			Volume: <u>22.00</u> Volume: 18.85		LCY	
	Rated Payload: 52,800 pounds Payload Capacity: 20.71 LCY				Adjusted (

Cycle Time:

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

Job Condition Correction:

Site Altitude: 7640 feet

	Scraper	Push Dozer	Source
Altitude Adj:	0.960	1.000	(CAT HB)
Job Efficiency:	0.830	0.830	(CAT HB)
Net Correction:	0.797	0.830	

Travel Time:

Road Condition: <u>Rutted dirt, little maintenance, no water, 2" tire penetration 5.0</u>

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1500.00	0.00	5.00	5.00	2218	0.84

Haul Time: **0.84** minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res	Total Res (%)	Velocity (fpm)	Travel Time (min)		
1	1500.00	0.00	5.00	5.00	2814	0.68		
				Return Time:	0.68	minutes		
			Total Scraper	team cycle time:	3.02	minutes		
		596.96	LCY/Hour					
		nber of Scrapers:	2	Scraper(s)				
	Adjusted	596.96	LCY/Hour					
	Adjusted mu	ltiple scrape	r team (fleet) ho	ourly production:	596.96	LCY/Hour		
Optimal	Unadjusted unit production/hour:749.01LCY/HourOptimal Number of Scrapers per push dozer:							
JOB TIN	ME AND COST							
Fleet	t size: 1	Team(s)	То	tal job time:	7.30	Hours		

Unit cost: \$2.186 /LCY

Total job cost: **\$9,525**

Page 1 of 2

BULLDOZER WORK

North Farm Road G	ravel Pit H	Permit Action: 2	2023 update	Permit/Jo	b#: <u>M2000110</u>
PROJECT IDENTIFI	ICATION				
Task #: 004A Date: 6/8/2023	State: County:			Abbreviation: Filename:	None M110-004a
User: <u>TJ1</u>					
Agency or organ	nization name: <u>I</u>	ORMS			
IOURLY EQUIPME	NT COST				
	ut D8T - 8SU				
Horsepower: 31					
· · · · · · · · · · · · · · · · · · ·	mi-Universal				
	shank ripper				
	per day				
	RG)				
Cost Breakdown:		1			
Ourparship Cont/II-		¢104.95	Utilization %		
Ownership Cost/Hour: Operating Cost/Hour:		\$124.85 \$97.63	<u>NA</u> 100		
Ripper own.					
Cost/Hour:		\$13.10	NA		
Ripper op. Cost/Hour:		\$7.30	100		
Operator Cost/Hour:		\$41.30	NA		
Total Fleet Cost/Hour: IATERIAL QUANT	<u>\$284.18</u>				
Initial Volume: 4,90					
Swell factor: 1.00					
	01 LCY				
		n of Declemeticn	Mining & Safaty		
Source of estimated volu Source of estimated swe		ndbook	, Mining & Safety		
factor:	Cat Ha	nubook			
HOURLY PRODUCT	TION				
Average push distance: Unadjusted hourly	50 feet 1,400.0 L	CV/hr			
production:	1,400.0 L				
production.					
Materials consistency de	escription: Loos	e stockpile 1.2			
Average push	0 %				
gradient:	7,640 feet				
gradient: Average site altitude:	2 550 11 J. C.V.				
gradient:	2,550 lbs/LCY				
gradient: Average site altitude: Material weight:		xed			
gradient: Average site altitude:	Earth - Dry pacl	xed	Source		

Task # 004A

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

Net correction: 0.5390

Adjusted unit production:	754.60 LCY/hr		
Adjusted fleet production:	754.6 LCY/hr		

JOB TIME AND COST

Fleet size:	1 Dozer(s)
Unit cost:	\$0.377/LCY

Total job time:	6.49 Hours	
Total job cost:	\$1,846	_

REVEGETATION WORK

Task description:Revegetat		Revegetate Dist	urbed Area			
e: North I	arm Road Gra	evel Pit Pe	rmit Action:	2023 update	Permit/Job	o#: M2000110
PROJEC	<u>T IDENTIFIC</u>		Colorado		Abbreviation:	None
1 ask #.		State:	Colorado Rio Grande		Filename:	None M110-005a
Date	6/8/2023	County:				

FERTILIZING

Materials

Units / Acre	Unit	Cost / Unit	Cost /Acre
200.00	pound	\$0.38	\$76.00
		Total Fertilizer Materials Cost/Acro	\$76.00
		nere	Acre Out 200.00 pound \$0.38 Total Fertilizer

Application

Description		Cost /Acre
Tractor towed spreader (MEANS 32 01 90.13 0120)		\$39.64
	Total Fertilizer Application Cost/Acre	\$39.64

TILLING

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.18
Total Tilling Cost/Acre	\$117.18

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Crested Wheatgrass - Ephraim	5.50	25.25	\$23.79
Russian Wildrye - Bozoisky	1.00	4.02	\$6.48
Streambank Wheatgrass - Sodar	1.00	3.26	\$5.70
Western Wheatgrass - Arriba	3.00	7.58	\$19.50
Totals Seed Mix	10.50	40.11	\$55.47

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
Hay, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$421.36	\$842.72
Total Mulch Materials Cost/Acre				\$842.72

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$73.00
Power mulcher (MEANS 32 91 13.16 0350)		\$141.57
	Total Mulch Application Cost/Acre	\$214.57

NURSERY STOCK PLANTING

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

JOB TIME AND COST

	No. of Acres:	4.05	Cost /Acre:	\$1,577.58
Estimate	ed Failure Rate:	25%	Cost /Acre*:	\$1,577.58
*Selected Replanti	ng Work Items:	FERTILIZING,TII	LLING,SEEDING,MU	
		LCHING		
Initial Job Cost:	\$6,389.20			
Reseeding Job Cost:	\$1,597.30			
Total Job Cost:	\$7,986			
Job Hours:	8.00			

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description:	Mol	oilization					
e: North Farm R	load Gravel Pi	it Permit	Action: _2023	update		Permit/Job#	: M2000110
PROJECT IDE	NTIFICATI	<u>ON</u>					
Task #: 006	бA	State: Co	olorado		Abbre	eviation:	None
Date: 6/8 User: TJ1	/2023	County: Ri	o Grande		F	lename:	M110-006a
Agency	or organization	name: DRMS					
EQUIPMENT 1	[RANSPOR]	<u>r rig cost</u>					
					Shift ba	1	ber day
					Cost Data Sou	rce: CR	G Data
Truck	Tractor Descr	iption: GENE	RIC ON-HIGH	WAY TR	UCK TRACTO	DR, 6X4, DI	ESEL POWERED,
		•		400 HF	(2ND HALF,	2006)	
Truc	k Trailer Descr	iption: G	ENERIC FOLD	ING GOO	DSENECK, DF	ROP DECK	EQUIPMENT
]	FRAILER	(25T, 50T, AN	ND 100T)	
Cost Breakdown:							
Available Rig C		0-25 Tons	26-50 Tons		+ Tons		
	Cost/Hour:	\$15.25	\$23.06		37.58		
	Cost/Hour:	\$25.26	\$30.83		51.41		
	Cost/Hour:	\$27.71	\$27.71		27.71		
1	Cost/Hour:	\$0.00	\$20.22		20.22		
Total Unit	t Cost/Hour:	\$68.22	\$101.82	\$1	36.92		
NON ROADAB	<u>LE EQUIPN</u>	<u>IENI:</u>					
Machine	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return Tr	
Description	Unit	Cost/hr/ unit	Cost/hr/uni	Size	Cost/hr/	Cost/hr/ f	
1	(TONS)		t		fleet		
Cat D8T - 8SU	47.71	\$124.85	\$101.82	1	\$226.67	\$101.82	\$250.00
Cat 627G w/push- pull	43.48	\$227.06	\$101.82	1	\$328.88	\$101.82	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$6.25	\$68.22	1	\$74.47	\$68.22	\$250.00
Power Mulcher (Bowie LD-90)	6.00	\$14.79	\$68.22	1	\$83.01	\$68.22	\$250.00

Subtotals: \$713.03 \$340.08 \$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, 1 T. Crew	\$24.30	1	\$24.30	\$24.30
		Subtotals:	\$24.30	\$24.30

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region: Total one-way travel distance: Average Travel Speed:	MONTE VISTA 5.00 40.00	miles mph
Total Non-Roadable Mob/Demob Cost *	\$3,689.34	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$6.08	

Transportation Cycle Time:

	Non- Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.13	0.13
Return Time (Hours):	0.13	0.13
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.25	0.25

JOB TIME AND COST

Total job time: **2.50** Hours

Total job cost: \$3,695