

June 27, 2019

Jason Burkey Oldcastle SW Group, Inc. dba United Companies 2273 River Road Grand Junction, CO 81505

RE: Lyster Pit, Permit No. M-2008-009, Notice of Surety Increase (SI-2)

Dear Mr. Burkey:

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 \$\frac{\$214,270}\$. This is an increase of \$\frac{\$62,210}\$ over the \$\frac{\$152,060}\$ currently held by the Division. This estimate is based on conditions observed during the June 12, 2018 inspection. 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, August 26, 2019. Please review the enclosed figures as soon as possible and contact our office if any calculation errors are noted.

Please make arrangements with Gabriel Benvenuti 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 Gabriel Benvenuti.

If you require additional information, or have questions or concerns, please feel free to contact me. Amy Yeldell at the Division of Reclamation, Mining and Safety, 1313 Sherman St., Room 215, Denver, CO 80203. Direct contact can be made by phone at 970-254-8511 or via email at amy.yeldell@ state.co.us

Sincerely,

Amy Yeldell

Environmental Protection Specialist

Ec: Travis Marshall, Senior EPS, Grand Junction DRMS



COST SUMMARY WORK

Т	Task description: Post	inspection Update 06-12	2-19			
Site:	Lyster Pit	Permit Action:	2019-06		Permit/Jo	b#: <u>M2008009</u>
<u>P</u>]	ROJECT IDENTIFICATIO	<u>DN</u>				
	Task #: ACY Date: 6/27/2019 User: ACY	State: Colorado County: Moffat			Abbreviation: Filename:	None M009-ACY
	Agency or organization	name: DRMS				
<u>T</u> .	ASK LIST (DIRECT COST	<u>ΓS)</u>				
11-			Form	Fleet	Task	
ask	Description		Used	Size	Hours	Cost
1a	Remove Scale house		DEMOLISH	1	8.00	\$1,310
2a	Distribute overburden		LOADER	4	45.68	\$24,881
3a	Establish 3H:1V grade aroun	nd perimeter of pond	DOZER	2	19.19	\$8,002
3b	Rip compacted areas		RIPPER	2	43.28	\$19,497
4a	Distribute topsoil		LOADER	4	56.40	\$30,716
5a	Spread transported topsoil		DOZER	2	25.91	\$10,802
6a	Reveg 43 ac of affected land	ls	REVEGE	1	53.75	\$69,274
7a	Initial Mobilization		MOBILIZE	1	2.53	\$7,140
7b	Secondary Mobilization		MOBILIZE	1	2.53	\$1,523
			SUBTO	OTALS:	257.27	\$173,145
	•	2.02				3,498
		1.05				1,818
	±	106.99				7,816
	Profit:	10.00		тотлі		17,314 30,446
		CONTI	RACT AMOUNT			203,591
		CONTR	CACT AMOUNT	(unect +	$- (\mathcal{L}_{\mathbf{r}}) = \frac{3}{2}$	203,391
LF	EGAL - ENGINEERING - PRO	JECT MANAGEMENT:				
	Financial warranty processing	g (legal/related costs):	\$500		Total = \$	500
	Engineering work and/or co	ontract/bid preparation:	0.00	_	Total = \$	0
	Reclamation management	and/or administration:	5.00	_	\$	10,180
		CONTINGENCY:	0.00		Total = \$	0
			TOTAL IN	NDIREC'	$\Gamma \text{ COST} = \$$	41,125

TOTAL BOND AMOUNT (direct + indirect) = __\$214,270

DEMOLITION WORK

Task description	on: Remo	ve Scale house				
Site: Lyster Pit		Permit Action: 2019-	06	Pe	ermit/Job#:	M2008009
PROJECT IDENTI	FICATION					
Task #: 01A Date: 6/27/2019 User: ACY Agency		State: Colorado unty: Moffat ne: DRMS		Abbreviat Filena		ne 09-01a
<u>UNIT COSTS</u>				Location	adjustmer	nt: 95.50 %
Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Scale House	10 x 20 x 8	Bldg. (SN) demo./off- site disposal in approved landfill - Max. 15 mile haul	1,600.00	CF	\$0.35	\$560.00
Scale	70'L x 12'W	Loading and 2 mile haul, no salvage - Machine loading	31.00	CY	\$17.20	\$533.20
Scale Transpiration	31 CY	Hauling only, per mile, 12-18 CY truck - 50 mph average speed	26.00	MI	\$3.08	\$80.08
Scale foundations and ramps	40'L x 12'W	Demo. and on-site disposal in existing pit, 6 in. thick - Max. 10,000 ft. haul	240.00	SF	\$0.83	\$198.96
Job Hours:	8.00	Subtotal (unadjusted): \$1,	372.24	(adj	otal Cost usted for ocation):	\$1,310.49

WHEEL LOADER – LOAD AND CARRY WORK

.	D.		ъ .	A	2010.05		TS 1.00	r 1 "	142000000
Lyster	<u>Pit</u>		Permit	Action:	2019-06		Permit/J	Job#:	M2008009
PROJEC	CT IDENTI	FICATION							
Task #	: 02A		State: C	Colorado			Abbreviati	on.	None
Date		9 (Moffat			Filena	_	M009-02a
User	-							_	
1	Agency or org	ganization nan	ne: DRM	S					
HOURL	Y EQUIPM	IENT COST	<u> </u>						
Ba	sic Machine:	CAT 972H				Horse	power:	2	87
	ttachment 1:	ROPS Cab					Basis:		r day
						Data S	Source:		RG)
Cost Brea	kdown:								
					Utilizatio	on %			
O.	wnership Cos	t/Hour:	\$44.67		NA				
	Operating Cos		\$50.58		100				
	Operator Cos		\$40.90		NA				
T	otal Unit Cos	t/Hour:	\$136.15						
Т	otal Fleet Cos	st/Hour:	\$544.61						
MATER	IAL QUAN	TITIES							
				001					
	al volume: _ se volume:	37,463 41,77	1	CCY LCY	Swe	ell factor:	.115	-	
Loos	_	<u> </u>		LCI					
		e of estimated	_			LF 1:1 to 3:	backfill		
	Source of o	estimated swe	II factor:	Cat Hand	lbook				
HOUDI	v ppopi	TTION							
	Y PRODUC							_	
Loader Cy	ycle Time:	Unadjust	ed Basic Cy	cle Time	(load, dum	p, maneuver)	0.52:	5	minutes
Cy	ycle Time Fac	etors					Factor (min.	.)	Source
	Mate		material 0.0				0.020		(Cat HB)
	Stock		yor or doze				0.000		(Cat HB)
7	Truck Owners	•	on ownersh	•	ks and load	lers -0.04	-0.040		(Cat HB)
	Operat		ant operation				-0.040		(Cat HB)
	Dump Tar	get: Nomii	nal target 0.0		1 777		0.000		(Cat HB)
				•	cle Time A	_	-0.060		minutes
				Adjust	ed Basic C	ycie I ime: _	0.465		minutes
Rolling R	esistance – Ro	oad Condition	<u>s</u>						
	Hau	ıl: Rutted d	irt, little ma	intenance	, no water	2" tire penetr	ation 5.0		
	Retur					2" tire penetr			
TT 1 1			.,		,	Formour			
Haul and	Return Time								
		Length	Grade Re	es. I	Rolling	Total Res.	Travel Ti	me	_
					\mathcal{C}				Common
		(feet)	(%)		les. (%)	(%)	(minutes		Source
Н	aul Route:	(feet) 500	(%) 0.00		_		(minutes 0.4611		Source (Cat HB)

Total Travel Time: 0.8771 minutes
Total Cycle Time: 1.3421 minutes

Load Bucket Capacity

Rated Capacity: _____ 5.60 LCY (heaped)

Bucket Fill Factor: 1.100 Other - rock/dirt mixtures (100-120%) 1.100

Adjusted Capacity: 6.16 LCY

Job Condition Correction Factors

Site Altitude: 6200 feet

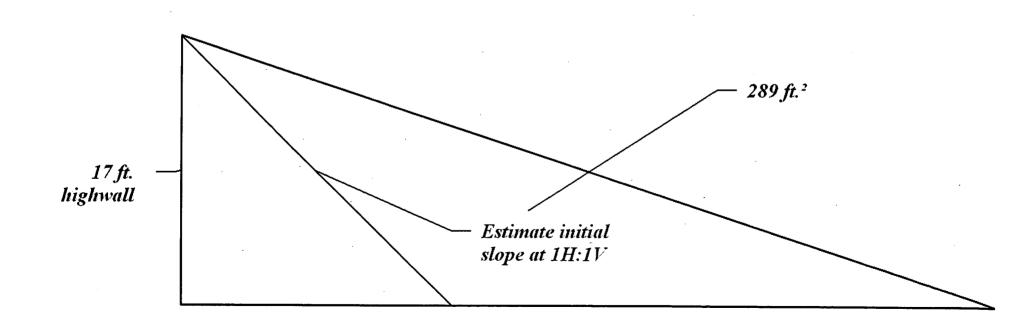
		Source
Altitude Adj:	1.00	(CAT HB)
Job Efficiency:	0.83	(1 shift/day)
Net Correction:	0.83	multiplier

Unadjusted Hourly Unit Production: 275.39 LCY/Hour Adjusted Hourly Unit Production: 228.58 LCY/Hour Adjusted Hourly Fleet Production: 914.31 LCY/Hour

JOB TIME AND COST

Fleet size:	4	Loader(s)	Total job time:	45.69	Hours
Unit cost:	\$0.596	/LCY	Total job cost:	\$24,881	

Amount of backfill material required to establish 3H:1V slopes. Approx. pond perimiter of 3,500 lft. x 289 sqft. = 37,463 cyd.



BULLDOZER WORK

Task description:	Estai	JIISH SH:1 V	grade aroui	nd perimeter of pond		
Lyster Pit		Per	mit Action:	2019-06	Permit/Job#:	M2008009
PROJECT IDEN	TIFICATION	<u>NC</u>				
Task #: 03A		State:	Colorado		Abbreviation:	None
Date: $\frac{6/27}{2}$	2019	County:	Moffat		Filename:	M009-03a
User: ACY						
Agency or	organization	name: DI	RMS			
HOURLY EQUI	C					
Basic Machine:	Cat D8T - 8	SU		<u>—</u>		
Horsepower:	Semi-Unive			<u> </u>		
Blade Type: Attachment:	NA	rsai		<u>—</u>		
Shift Basis:				_		
	1 per day					
Data Source:	(CRG)					
Cost Breakdown:						
				<u>Utilization %</u>		
Ownership Cost/H			\$93.62	NA		
Operating Cost/H			\$73.35	100		
Ripper own. Cost/H			\$0.00	NA		
Ripper op. Cost/H			\$0.00	0		
Operator Cost/H	lour:		\$41.52	NA		
MATERIAL QU Initial Volume: Swell factor:	18,731 1.000					
Loose volume:	18,731 LCY		_			
Source of estimated Source of estimated	1					
Source of estimated		Half trans	sported vol (3 lbook	37,463)		
HOURLY PROI	swell factor:			37,463)		
HOURLY PROI	swell factor: DUCTION nce:	Cat Hand	lbook	37,463)		
HOURLY PROI	over broduction:	50 feet 1,400.0 LC	lbook	37,463)		
HOURLY PROI Average push distar Unadjusted hourly p	DUCTION nce: production: cy description ent: 15 %	50 feet 1,400.0 LC	lbook Y/hr	37,463)		
HOURLY PROI Average push distart Unadjusted hourly publication Materials consistence Average push gradi	by description ent: 15 % 6,200	50 feet 1,400.0 LC	lbook Y/hr	37,463)		
HOURLY PROI Average push distar Unadjusted hourly p Materials consistence Average push gradi Average site altitud	by description ent: 15 % 6,200 2,100	Cat Hand 50 feet 1,400.0 LC Loose s	lbook Y/hr	37,463)		
HOURLY PROI Average push distart Unadjusted hourly properties of the consistence Average push gradic Average site altitude Material weight: Weight description: Job Condition Correct	by description ent: 15 % 6,200 2,100 Earth ection Factor	Cat Hand 50 feet 1,400.0 LC : Loose : feet lbs/LCY - Loam	lbook Y/hr	Source		
HOURLY PROI Average push distart Unadjusted hourly properties of the consistence Average push gradit Average site altitude Material weight: Weight description: Job Condition Correct Ope	by description ent: 15 % 6,200 2,100 Earth	Cat Hand 50 feet 1,400.0 LC Loose : feet lbs/LCY Loam	Y/hr stockpile 1.2			
HOURLY PROI Average push distart Unadjusted hourly publication Materials consistence Average push gradit Average site altitud Material weight: Weight description: Job Condition Correct Open Material colleges	by description ent: 15 % e: 6,200 2,100 Earth ection Factor rator Skill:	Cat Hand 50 feet 1,400.0 LC Loose : feet lbs/LCY - Loam 0.	Y/hr stockpile 1.2	Source (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:	1.095	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3486

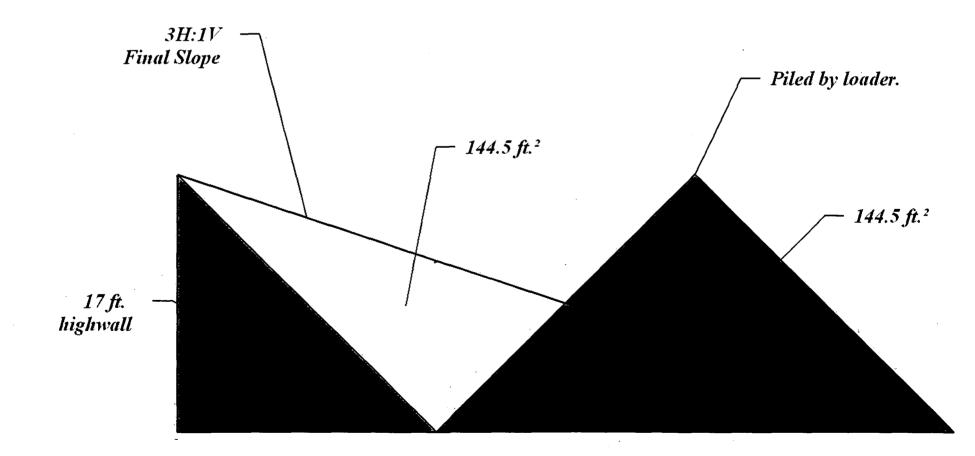
Adjusted unit production: 488.04 LCY/hr
Adjusted fleet production: 976.08 LCY/hr

JOB TIME AND COST

Fleet size: 2 Dozer(s)
Unit cost: \$0.427/LCY

Total job time: 19.19 Hours
Total job cost: \$8,002

Establish 3H:1V slopes around pond from material placed by front end loader. 3,500 lft. x 144.5 sqft. = 18,731.5 cyd.



BULLDOZER RIPPING WORK

	Task description:	: Rip c	ompacted areas					
Site	: Lyster Pit		Permit Action:	2019-06	I	Permit/Job#:	M200	8009
	PROJECT ID	ENTIFICATIO	<u>ON</u>					
	Task #: 03	R	State: Colorado		Δh	breviation:	None	
		27/2019	County: Moffat		Au	Filename:	M009-	73h
	User: AC		County			i ilchame.	1000	030
	Agency	or organization i	name: DRMS					
	HOURLY EQ	UIPMENT CO	<u>ST</u>					
	Basic	Machine: Cat	—— D8T - 8SU		Horsepower:		310	
	Ripper Att	tachment: 3-Sh	ank Ripper		Shift Basis:		er day	
			**		Data Source:	((CRG)	
	Cost Breakdown	<u>:</u>						
					Utilization %			
		Ownership Co		\$93.62	NA	_		
		Operating Co		\$73.35	100	_		
		er Ownership Co		\$8.93	NA	_		
	Rip	per Operating Co		\$7.78	100	_		
		Operator Co		\$41.52	NA	_		
		Total Unit Co	-	\$225.20				
		Total Fleet Co	st/Hour: \$450	0.40				
	MATERIAL (<u>QUANTITIES</u>	Sele	ected estimating	g method: Are	ea		
	Alternate Method	ds:						
Seismic:	NA		Bank Volume:	NA	BCY		NA	
Area:	25.00	acres	Rip Depth (ft):	2.00	Volume:	80,667		BCY or CCY
		Source of estim	ated quantity: Staff es	stimates-Stockp	oile areas			
	HOURLY PRO	ODUCTION						
	Seismic:							
		S	eismic Velocity:	NA	feet/se	cond		
	A							
	Area:	Augraga	Dinning Donth	2.56	faat/na	.00		
			Ripping Depth: Ripping Width:	7.08	feet/pa feet/pa			
			Ripping Width: Ripping Length:	15.00	feet/pa			
			ge Dozer Speed:	88.00	feet/m			
			Maneuver Time:	0.25	minute			
		_	on per unit area:	0.348	acres/h	-		
	Job Condition Co	orrection Factors						
	Un	nadjusted Hourly	Unit Production:	0.348	Acres/	hr		
			Site Altitude:	6,200	feet			
			Altitude Adj:	1.00	(CAT	HB)		
			Job Efficiency:	0.83	(1 shif			
			Net Correction:	0.83	multip	•		
		Adjusted I	Hourly Unit Production:	0.29	Acres/hr			
			Iourly Fleet Production:	0.58	Acres/hr			
	JOB TIME AN	ND COST			_			
	Fleet size:	2	Grader(s)	Total job tin	ne:	43.29	I	Iours
	_	\$770.960		•				
	Unit cost:	\$779.869	Per acre	Total job co	ost:	519,497		

WHEEL LOADER – LOAD AND CARRY WORK

Lyster Pit			Dom	mit Action	2019-06		n	ermit/Job#:	M2008009
Lyster Pit			Per	IIIIt Action	2019-00		_ r	emm/job#:	W12008009
PROJECT II	ENTIFIC	CATION							
Task #: 04	A		State:	Colorado)		Abh	reviation:	None
	27/2019		ounty:	Moffat	,			Filename:	M009-04a
	CY		,	-				-	
Agenc	y or organiz	zation name	e: <u>DF</u>	RMS					
HOURLY EQ	UIPMEN	T COST							
Basic Ma	chine: C	CAT 972H				Horse	epower:	2	287
Attachr		ROPS Cab					t Basis:		er day
						Data	Source:	(C	CRG)
Cost Breakdown	<u>ı:</u>								
					Utilizatio	on %			
	nip Cost/Ho		\$44.0		NA				
	ng Cost/Ho		\$50.:		100				
-	tor Cost/Ho		\$40.9		NA	·			
Total U	nit Cost/Ho	our:	\$136.	.15	-				
Total F	leet Cost/H	our:	\$544	.61	_				
MATERIAL	OUANTI	TIFC							
				001/	a	11.6	1 115		
Initial volu Loose volu		51,568		_ CCY LCY	Sw	ell factor:	1.115		
Loose voic		,							
_		estimated v				d) @ 8" dee	p		
Sor	irce of estir	mated swell	factor:	Cat Ha	ndbook				
HOURLY PR	ODUCTI	ON							
		<u></u>	1 D .	C 1 T'	<i>(</i> 1 1 1			0.525	
Loader Cycle T	me.	Unadjusted	d Basic	Cycle 11m	e (load, dum	p, maneuver)):	0.525	minutes
Cycle T	me Factors	1					Facto	r (min.)	Source
	Material:							.020	(Cat HB)
	Stockpile:				0 ft. high an			.000	(Cat HB)
Truck	Ownership:				icks and load	ders -0.04		.040	(Cat HB)
	Operation:			tion -0.04				.040	(Cat HB)
Du	mp Target:	Nomina	ıl target		1 772 4	1'		.000	(Cat HB)
					ycle Time A	_		1.060	minutes
				Adju	sted Basic C	ycie 11me:	0	.465	minutes
Rolling Resistar	ice – Road	Conditions							
	Haul:	Rutted dir	t, little	maintenand	ce, no water	2" tire penet	ration 5	0	
	Return:					2" tire penet			
Hard or 4 Doc	=		,		,,	<u> </u>			
Haul and Return	11me								
	т.								
	1	Length	Grade	e Res.	Rolling	Total Res	. Tra	ivel Time	Course
		(feet)	(%	ó)	Res. (%)	(%)	(r	ninutes)	Source
Haul Ro Return Ro	oute:	_		6)	_		(r		Source (Cat HB) (Cat HB)

Total Travel Time: 0.8771 minutes
Total Cycle Time: 1.3421 minutes

Load Bucket Capacity

Rated Capacity: 5.60 LCY (heaped)

Bucket Fill Factor: 1.100 Other - rock/dirt mixtures (100-120%) 1.100

Adjusted Capacity: 6.16 LCY

Job Condition Correction Factors

Site Altitude: 6200 feet

		Source
Altitude Adj:	1.00	(CAT HB)
Job Efficiency:	0.83	(1 shift/day)
Net Correction:	0.83	multiplier

Unadjusted Hourly Unit Production: 275.39 LCY/Hour Adjusted Hourly Unit Production: 228.58 LCY/Hour Adjusted Hourly Fleet Production: 914.31 LCY/Hour

JOB TIME AND COST

Fleet size:	4	Loader(s)	Total job time:	56.40	Hours
Unit cost:	\$0.596	/LCY	Total job cost:	\$30,716	

BULLDOZER WORK

Task description:	Spread transported topsoil			
e: Lyster Pit	Permit Action:	2019-06	Permit/Job#:	M2008009
PROJECT IDENTIFI	<u>ICATION</u>			
Task #: 05A	State: Colorado		Abbreviation:	None
Date: 6/27/2019	County: Moffat		Filename:	M009-05a
User: ACY				
Agency or organ	nization name: DRMS			
HOURLY EQUIPME	NT COST			
Basic Machine: Cat	D8T - 8SU			
Horsepower: 310		<u> </u>		
<u></u>	ni-Universal	<u> </u>		
Attachment: NA				
Shift Basis: 1 pe	er day			
Data Source: (CR	RG)			
Cost Breakdown:				
COSt DICARGO WII.		<u>Utilization %</u>		
Ownership Cost/Hour:	\$93.62	NA		
Operating Cost/Hour:	\$73.35	100		
Ripper own. Cost/Hour:	\$0.00	NA		
Ripper op. Cost/Hour:	\$0.00	0		
Operator Cost/Hour:	\$41.52	NA		
•		1,12		
Total unit Cost/Hour:	\$208.49			
Total Fleet Cost/Hour:	\$416.99			
MATERIAL OLIANT	TTIEC			
MATERIAL QUANT	111ES			
Initial Volume: 23,12	25			
Swell factor: 1.000	0			
Loose volume: 23,12	25 LCY			
Source of estimated volur Source of estimated swell		46249)		
HOURLY PRODUCT	TION			
Average push distance:	100 feet 952 6 L CV/hr			
Unadjusted hourly produc	etion:852.6 LCY/hr			
Materials consistency des	cription: Loose stockpile 1.2			
Average push gradient: Average site altitude:	0 % 6,200 feet			
Material weight:	2,100 lbs/LCY			
Weight description:	Earth - Loam			
Job Condition Correction		Source		
Operator S		(AVG.)		
Material consiste		(CAT HB)		
Dozing me		(GEN.)		
Visib	ility: 0.800	(POOR)		

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

Net correction: 0.5235

Adjusted unit production: 446.34 LCY/hr
Adjusted fleet production: 892.68 LCY/hr

JOB TIME AND COST

Fleet size: 2 Dozer(s)
Unit cost: \$0.467/LCY

Total job time: 25.91 Hours Total job cost: \$10,802

REVEGETATION WORK

	Permit Action: 2019-06 Permit/Job#:				: <u>M2008009</u>	
ROJECT IDENTIFIC		~ .				
Task #: 06A		Colorado		Abbreviat		None
Date: 6/27/2019 User: ACY				Filena	ime:l	M009-06a
	DPN	AC				
Agency or organi	zation name: DRM	VIS.				
<u>ERTILIZING</u>						
aterials			T			
Description		Units /	Unit	Cost / Uni	it	Cost /Acre
Description		Acre	Unit	Cost / Cili		Cost/Acre
				\$		\$
				Total Fer	tilizer	
					terials	
					t/Acre	\$0.00
pplication						
Description						Cost /Acre
						\$
		Total	Fertilizer A	application Cost	t/Acre	\$0.00
				ppication cost	W11010	\$0.00
LLING						
Description						Cost /Acre
) (MEANS 32 91 13.	23 6100)				Cost /Acre \$106.29
Description	o (MEANS 32 91 13.	23 6100)				
Description	o (MEANS 32 91 13.	23 6100)	To	otal Tilling Cost	t/Acre	
Description Disc harrowing, 6" deep	p (MEANS 32 91 13.	23 6100)	To	otal Tilling Cost	t/Acre	\$106.29
Description	p (MEANS 32 91 13.	23 6100)			t/Acre	\$106.29
Description Disc harrowing, 6" deep	o (MEANS 32 91 13.	23 6100)		Rate –		\$106.29 \$106.29
Description Disc harrowing, 6" deep	p (MEANS 32 91 13.	23 6100)		Rate – PLS See	ds	\$106.29
Description Disc harrowing, 6" deep	p (MEANS 32 91 13.	23 6100)		Rate – PLS See		\$106.29 \$106.29
Description Disc harrowing, 6" deep EEDING Seed Mix	p (MEANS 32 91 13.	23 6100)		Rate – PLS See LBS / per Acre FT	ds SQ.	\$106.29 \$106.29 Cost /Acre
Description Disc harrowing, 6" deep EEDING Seed Mix Orchardgrass - Latar		23 6100)		Rate – PLS See LBS / FT Acre 0.30 3.72	ds SQ.	\$106.29 \$106.29 Cost /Acre
Description Disc harrowing, 6" deep EEDING Seed Mix Orchardgrass - Latar Smooth Brome - Lincol	ln	23 6100)		Rate – PLS See Per FT Acre 0.30 3.72 1.60 5.33	ds SQ.	\$106.29 \$106.29 Cost /Acre \$1.01 \$6.98
Description Disc harrowing, 6" deep EEDING Seed Mix Orchardgrass - Latar Smooth Brome - Lincol Intermediate Wheatgras	In ss - Tegmar	23 6100)		Rate – PLS See PET FT 0.30 3.72 1.60 5.33 2.50 5.34	ds SQ. 2 3 4	\$106.29 \$106.29 Cost /Acre \$1.01 \$6.98 \$9.83
Description Disc harrowing, 6" deep EEDING Seed Mix Orchardgrass - Latar Smooth Brome - Lincol Intermediate Wheatgrass Pubescent Wheatgrass	In ss - Tegmar	23 6100)		Rate – PLS See PET See	ds SQ. 2 3 4 5	\$106.29 \$106.29 Cost /Acre \$1.01 \$6.98 \$9.83 \$9.38
Description Disc harrowing, 6" deep EEDING Seed Mix Orchardgrass - Latar Smooth Brome - Lincol Intermediate Wheatgras	In ss - Tegmar	23 6100)		Rate – PLS See PET FT 0.30 3.72 1.60 5.33 2.50 5.34	ds SQ. 2 3 4 5	\$106.29 \$106.29 Cost /Acre \$1.01 \$6.98 \$9.83
Description Disc harrowing, 6" deep Disc harr	In ss - Tegmar			Rate – PLS See PET See	ds SQ. 2 3 4 5	\$106.29 \$106.29 Cost /Acre \$1.01 \$6.98 \$9.83 \$9.38

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
Herbicide - 2,4D @ 1.0 pt/ac	1.00	ACRE	\$2.81	\$2.81
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$288.00	\$576.00
Total Mulch Materials Cost/Acre				\$578.81

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$68.78
Power mulcher (MEANS 32 91 13.16 0350)		\$92.78
Weed spray, truck, non-aquatic area, nox. [DMG]		\$73.22
	Total Mulch Application Cost/Acre	\$234.78

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
Cottonwood, Plains	5	Container, 1 gallon (MEANS)	\$20.33	\$2.40	\$101.65
Totals Nursery Stock Cost / Acre \$101.65					

JOB TIME AND COST

 No. of Acres:
 43
 Cost /Acre:
 \$1,288.82

 Estimated Failure Rate:
 25%
 Cost /Acre*:
 \$1,288.82

*Selected Replanting Work Items: TILLING, SEEDING, NURSERY, MULC

HING

Initial Job Cost: \$55,419.26

Reseeding Job Cost: \$13,854.82

Total Job Cost: \$69,274

Job Hours: 53.75

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description: Init	ial Mobilization	Į.			<u></u>
e: Lyster Pit	Permi	t Action:	-06	Permit/Job#	: <u>M2008009</u>
PROJECT IDENTIFICATI	<u>ON</u>				
Task #: 07A Date: 6/27/2019 User: ACY		colorado Aoffat	A		None M009-07a
Agency or organization	name: DRMS	S			
EQUIPMENT TRANSPOR Truck Tractor Desc		ERIC ON-HIGH	Shi Cost Data WAY TRUCK TRA	Source: CR	per day RG Data IESEL POWERED,
	r		400 HP (2ND HA		,
Truck Trailer Desc	ription: C		ING GOOSENECK ΓRAILER (25T, 50T		EQUIPMENT
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/uni	Size	Cost/hr/	Cost/hr/ fleet	Cost/ fleet
	(TONS)		t		fleet		
Cat D8T - 8SU	47.71	\$93.62	\$117.55	2	\$422.34	\$235.10	\$500.00
CAT 972H	28.00	\$44.67	\$117.55	4	\$648.88	\$470.20	\$1,000.00
Drill/Broadcast	25.00	\$15.54	\$88.67	1	\$104.21	\$88.67	\$250.00
Seeder with							
Tractor							
Power Mulcher	6.00	\$8.33	\$88.67	1	\$97.00	\$88.67	\$250.00
(Bowie LD-90)							

Subtotals: \$1,272.43 \$882.64 \$2,000.00

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	\$74.99	1	\$74.99	\$74.99

Subtotals:	\$74.99	\$74.99

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:

Total one-way travel distance:

Average Travel Speed:

CRAIG, CO
miles
30.00
mph

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	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:	1.27	0.27

JOB TIME AND COST

Total job cost: 2.53 Hours

Total job cost: \$7,140

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description: Sec	ondary Mobiliza	ation			
te: Lyster Pit	Permi	t Action: 2019-0	5	Permit/Jol	b#: <u>M2008009</u>
PROJECT IDENTIFICATI	ON				
Task #: 07B Date: 6/27/2019 User: ACY		colorado Moffat	A	bbreviation: Filename:	None M009-07b
Agency or organization	n name: DRMS	S			
EQUIPMENT TRANSPOR	T RIG COST				
			Shi: Cost Data		1 per day CRG Data
Truck Tractor Desc	ription: GENI	ERIC ON-HIGHW	AY TRUCK TRA 400 HP (2ND HA		DIESEL POWERED,
Truck Trailer Desc	ription:	GENERIC FOLDIN TR	`	, DROP DEC	
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/uni	Size	Cost/hr/	Cost/hr/ fleet	Cost/ fleet
	(TONS)		t		fleet		
Drill/Broadcast	25.00	\$15.54	\$88.67	1	\$104.21	\$88.67	\$250.00
Seeder with							
Tractor							
Power Mulcher	6.00	\$8.33	\$88.67	1	\$97.00	\$88.67	\$250.00
(Bowie LD-90)							

Subtotals: \$201.21 \$177.34 \$500.00

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.	\$74.99	1	\$74.99	\$74.99
Crew				

Subtotals: \$74.99 \$74.99

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:

Total one-way travel distance:

Average Travel Speed:

CRAIG, CO
miles
30.00
mph

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	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:	1.27	0.27

JOB TIME AND COST

Total job cost: 2.53 Hours

Total job cost: \$1,523



Department of Natural Resources

1313 Sherman Street, Room 215 Denver, CO 80203

June 27, 2019

RE: Lyster Pit, Permit No. M-2008-009, SI-2 Reclamation Cost Estimate

Dear Mr. Burkey:

This reclamation cost update was in response to site inspection conducted on June 12, 2019. It is Division policy to periodically update its costs to ensure that the Financial Warranty adequately, reflects the actual current cost of fulfilling the requirements of the approved reclamation plan.

Below is a table summarizing input values that have been updated in this Surety Increase (SI-2). This table does not account for price changes resulting from inflation or other RS Means cost changes. Bond calculations are based on a combination of field observations and worst case scenario based on the approved reclamation permit. The operator may elect to revise the reclamation plan and potentially reduce overall liabilities.

Task	Form Used	Change	Justification
01a	Demo	+	Demo of Scale and Scale House
03b	Ripper	+	Rip compacted stockpile area (25 ac) since not yet a pond and will need reveg
05a	Dozer	-	Spread only half the transported volume
07a	Mob	+	Updated equipment: 4 x 972H loaders, 2 x D8 Dozers, power mulcher
07b	Mob	+	Added secondary mobilization

Please feel free to contact me with any further questions. Amy Yeldell at the Division of Reclamation, Mining and Safety, 1313 Sherman St., Room 215, Denver, CO 80203. Direct contact can be made by phone at 303-866-3567 Ext8183 or via email at amy.yeldell@ state.co.us



Sincerely,

Amy Geldell

Amy Yeldell

Environmental Protection Specialist

Ec:

Travis Marshall, Senior EPS, Grand Junction DRMS