August 23, 2018

Russell Larsen/ Jon Muller Elam Construction, Inc. 556 Struthers Ave Grand Junction, CO 81501



1313 Sherman Street, Room 215 Denver, CO 80203

RE: Bunn Ranch Pit, Permit No. M-1980-131, Reclamation Costs Update and Notice of Surety Increase (SI-4)

Dear Mr. Larsen/ Muller:

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{\$202,666.37}{202,666.00}\$ rounded down to \$\frac{\$202,666.00}{202,666.00}\$. This is an increase of \$\frac{\$24,066.00}{24,066.00}\$ over the \$\frac{\$178,600.00}{2178,600.00}\$ currently held by the Division. This estimate is based on conditions observed during the August 8, 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, October 22, 2018. Please review the enclosed figures as soon as possible and contact our office if any calculation errors are noted.

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, 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: Wally Erickson, Senior EPS, Grand Junction DRMS

Enc: Financial Warranty Cost Estimate



COST SUMMARY WORK

Task description:	Post inspection bond update 8-8-18	
Site: Bunn Ranch Pit	Permit Action: <u>2018-08</u>	Permit/Job#: M1980131
PROJECT IDENTIFIC	CATION	
Task #: ACY Date: 8/22/2018 User: ACY	State: Colorado County: Moffat	Abbreviation: None Filename: M131-ACY

TASK LIST (DIRECT COSTS)

Agency or organization name: DRMS

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Removal of onsite structures	DEMOLISH	Size	32.00	\$7,539.09
			1		
02a	Pit 3-Lower water level by 10 ft.	PUMPING	1	50.11	\$4,480.00
02b	Pit 2-Lower water level by 10 ft.	PUMPING	1	18.23	\$1,630.00
02c	Pit 4-Lower water level by 10 ft.	PUMPING	1	15.25	\$1,363.00
02d	Pit 5-Lower water level by 10 ft.	PUMPING	1	24.57	\$2,196.00
02e	Pit 8-Lower water level by 10 ft.	PUMPING	1	62.06	\$5,548.00
02f	Pit 9-Lower water level by 10 ft.	PUMPING	1	63.50	\$5,677.00
03a	Reduce all slopes to 3H:1V or flatter	DOZER	2	39.61	\$19,619.00
04a	Rip compacted stockpile and operations area	RIPPER	2	23.71	\$12,708.00
05a	Transport topsoil from stockpiles	LOADER	2	64.72	\$19,064.00
05b	Distribute topsoil	DOZER	2	25.46	\$12,612.00
06a	Reveg disturbed areas	REVEGE	1	40.00	\$51,551.00
07a	Initial mobilization of reclamation crew and equipment	MOBILIZE	1	2.11	\$6,243.00
08a	Secondary mobilization of reclamation crew and equipment	MOBILIZE	1	2.11	\$1,427.00
		<u>SUBTO</u>	TALS:	463.44	\$151,657

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02 Total = \$3,063.47 Total = \$1,592.40 Performance bond: 1.05 Total = Job superintendent: 115.00 \$8,400.75 Total = Profit: 10.00 \$15,165.70

TOTAL O & P = \$28,222.32

CONTRACT AMOUNT (direct + O & P) = \$179,879.32

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): 500.00 Total = 500.00

Engineering work and/or contract/bid preparation: 7.39 Total = \$13,293.08

Reclamation management and/or administration: 5.00 \$8,993.97

CONTINGENCY: 0.00 Total = \$0.00

TOTAL INDIRECT COST = \$51,009.37

TOTAL BOND AMOUNT (direct + indirect) = \$202,666.37

TOTAL BOND AMOUNT (Rounded) = \$202,666.00

DEMOLITION WORK

T	ask description:	Removal of	onsite structure	es		
Site:	Bunn Ranch Pit	·	Permit Action:	2018-08	Permit/.	Job#: <u>M1980131</u>
OJEC	CT IDENTIFICAT	<u>ION</u>				
ask #:	01A	State:	Colorado		Abbreviation:	None
ъ.	8/22/2018	County:	Moffat		Filename:	M131-01a
Date:	0/22/2010					

UNIT COSTS

Location adjustment: 95.50 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Office building	50'L x 30'W x 10'H	Bldg. (SN) demo./off- site disposal in approved landfill - Max. 5 mile haul	15,000.00	CF	\$0.30	\$4,515.00
Scale house	20'L x 20'W x 10'H	Bldg. (SN) demo./off- site disposal in approved landfill - Max. 5 mile haul	4,000.00	CF	\$0.30	\$1,204.00
Scale	60'L x 10'W	Loading and 5 mile haul, salvage allowed - Steel frame structures	22.00	CY	\$10.27	\$225.94
Cement footers	3 structures	Demo. and on-site disposal in existing pit, 1.5 ft. x 2 ft Max. 200 ft. push	380.00	LF	\$5.13	\$1,949.40

				Total Cost	
		Subtotal		(adjusted for	
Job Hours:	32.00	(unadjusted):	\$7,894.34	location):	\$7,539.09

Task description:	Pit 3-Lower water le	evel by 10	ft.		
Site: Bunn Ranch Pit	Permit	Action: _	2018-08	Permit/Job#:	M1980131
PROJECT IDENTIF	<u>ICATION</u>				
Task #: 02A Date: 8/22/2018 User: ACY		Colorado Moffat		Abbreviation: Filename:	None M131-02a
Agency or orga	nization name: _ DRMS	S			
HOURLY EQUIPMI	ENT COST				
	Description			Quantity	
Make and Model:	Submersible pump - 4	60v, 8 in.		3	
Attachment 1:	Suction hose - 6 in. di			3	
Attachment 2:	Discharge hose - 6 in.	D., 25 ft.		6	
Labor Unit 1:	Pump operator			1	
Horsepower:	95				
	per day				
	0.70				
<u></u>	S Tons)				
Cost Breakdown:					
			Utilization %		
Ownership Cost/	Hour: \$22.80		NA		
Operating Cost/			100		
Operator Cost/			NA		
Total Unit Cost/	Hour: \$89.39				
Total Fleet Cost	/Hour: \$89.39				
PUMPING QUANTI					
Initial Pond Vol				Conversion factor:	325850.5800
Final Pond Vol		3.43	gallons	TT '' CI	
Total Pond Inflow Su			C	Unit inflow rate in	0.1750
Total Pond Inflow Vo	Area: 36,170		Sq. ft.	gph/sq. ft.:	0.1758
	Hour: 6,358.72	2	gallons		
-			and field estimates	(8 35 surface ac.)	
	of estimated volume.	Site maps	and field estimates	s (6.33 surface ac.)	
PUMPING TIME					
Max	ximum Pump Capacity:		170,000	gph/pump	
E	stimated Suction Head:		5	feet	
Esti	mated Discharge Head:		0	feet	
	Total Head:		5	feet	
	CPB Pump Capacity:		168,000	gph/pump	
	Site Altitude:		6,200	feet	
	sted Pumping Capacity:		504,000	gph	
	djusted Pumping Time:		53.99	hours	
	during Initial Pumping: djusted Pumping Time:		343,277 54.67	gallons Hours	
	ude Adjustment Factor:	-	1.0000	(3% rule)	
	rump Efficiency Factor:		0.9167	(5% rule) (55 min./hr.)	
	djusted Pumping Time:		50.11	hours	
JOB TIME AND CO		-			
SOD THAT AND CO	<u></u>		Total job	time: 50.11	Hours
Unit cost: \$0.00	00163 /Gallon		Total job	cost: \$4,480	

Task description:	Pit 2-Lower water lev	el by 10 ft.		
Site: Bunn Ranch Pit	Permit A	ction: 2018-08	Permit/Job#:	M1980131
PROJECT IDENTIF	<u>ICATION</u>			
Task #: 02B Date: 8/22/2018 User: ACY		orado ffat	Abbreviation: Filename:	None M131-02b
Agency or orga	nization name: DRMS			
HOURLY EQUIPME	ENT COST			
HOURET EQUITION	Description		Quantity	
Make and Model:	Submersible pump - 460)v. 8 in.	3	
Attachment 1:	Suction hose - 6 in. dian		3	
Attachment 2:	Discharge hose - 6 in. D		6	
Labor Unit 1:	Pump operator		1	
Horsepower:	95			
	per day			
<u></u>	0.70			
	S Tons)			
Cost Breakdown:				
		Utilization %		
Ownership Cost/l		NA	_	
Operating Cost/l		100	=	
Operator Cost/I		NA	-	
Total Unit Cost/l	Hour: \$89.39			
Total Fleet Cost/	Hour: \$89.39			
PUMPING QUANTI	TIES			
Initial Pond Vol			Conversion factor:	325850.5800
Final Pond Vol		gallons	Conversion factor.	323630.3600
Total Pond Inflow Su		ganons	Unit inflow rate in	
	Area: 14,915	Sq. ft.	gph/sq. ft.:	0.1758
Total Pond Inflow Vo		1	CI I	
per I	Hour: 2,622.04	gallons		
Source of	of estimated volume: Si	te maps and field estimate	es (3.06 surface ac.)	
PUMPING TIME				
	rimum Duma Comocitu	170,000	anh/ayma	
	ximum Pump Capacity:stimated Suction Head:	170,000 5	gph/pump feet	
	mated Discharge Head:	0	feet	
Listii	Total Head:	5	feet	
	CPB Pump Capacity:	168,000	gph/pump	
	Site Altitude:	6,200	feet	
Adius	ted Pumping Capacity:	504,000	gph	
	djusted Pumping Time:	19.78	hours	
	during Initial Pumping:	51,874	gallons	
	djusted Pumping Time:	19.89	Hours	
	ide Adjustment Factor:	1.0000	(3% rule)	
	ump Efficiency Factor:	0.9167	(55 min./hr.)	
Total Ac	djusted Pumping Time:	18.23	hours	
JOB TIME AND CO	<u>ST</u>	Total job	time: 18.23	Hours
Unit cost: \$0.00	00163 /Gallon	Total jo	b cost: \$1,630	

Task description:	Pit 4-Lower water lev	el by 10 ft.		
Site: Bunn Ranch Pit	Permit A	ction: 2018-08	Permit/Job#:	M1980131
PROJECT IDENTIF	<u>ICATION</u>			
Task #: 02C Date: 8/22/2018 User: ACY		lorado offat	Abbreviation: Filename:	None M131-02c
Agency or orga	nization name: DRMS			
HOURLY EQUIPMI	ENT COST			
HOURET EQUITION	<u></u>		Overtites	
Make and Model:	Description Submersible pump - 460	Ov 8 in	Quantity 3	
Attachment 1:	Suction hose - 6 in. diar		3	
Attachment 2:	Discharge hose - 6 in. D		6	
Labor Unit 1:	Pump operator	,	1	
Horsepower:	95			
	per day			
	0.70			
	S Tons)			
Cost Breakdown:				
		Utilization %		
Ownership Cost/		NA	_	
Operating Cost/		100	_	
Operator Cost/		NA	=	
Total Unit Cost/	Hour: \$89.39			
Total Fleet Cost	/Hour: \$89.39			
PUMPING QUANTI				
•				
Initial Pond Vol			Conversion factor:	325850.5800
Final Pond Vol Total Pond Inflow Su		5 gallons	Unit inflow rate in	
	Area: 14,676	Sq. ft.	gph/sq. ft.:	0.1758
Total Pond Inflow Vo		5q. 1t.	gpii/sq. it	0.1730
	Hour: 2,580.09	gallons		
Source	of estimated volume: Si	te maps and field estimate	es (2.56 surface ac.)	
	or estimated votatile.	to maps and nord estimate	25 (2.50 surface ac.)	
PUMPING TIME				
	ximum Pump Capacity: _	170,000	gph/pump	
	stimated Suction Head:	5	feet	
Esti	mated Discharge Head:	<u> </u>	feet	
	Total Head: _ CPB Pump Capacity:	168,000	feet gph/pump	
	Site Altitude:	6,200	feet	
	Site Attitude.	0,200		
A 1.	stad Dumning Carrell	504.000	amb	
	sted Pumping Capacity:	504,000	gph	
	djusted Pumping Time: _ during Initial Pumping:	16.55 42,703	hours gallons	
	djusted Pumping Time:	16.64	Hours	
	ude Adjustment Factor:	1.0000	(3% rule)	
	ump Efficiency Factor:	0.9167	(55 min./hr.)	
Total A	djusted Pumping Time:	15.25	hours	
JOB TIME AND CO	<u>ST</u>	Total jol	b time: 15.25	Hours
Unit cost: \$0.00	00163 /Gallon	Total jo	b cost: \$1,363	

Task description:	Pit 5-Lower water	level by 1	0 ft.		
Site: Bunn Ranch Pit	Permi	t Action:	2018-08	Permit/Job#:	M1980131
PROJECT IDENTIF	<u>ICATION</u>				
Task #: 02D Date: 8/22/2018 User: ACY		Colorado Moffat		Abbreviation: Filename:	None M131-02d
Agency or orga	nization name: DRM	IS			
HOURLY EQUIPMI	ENT COST				
HOURET EQUITIES	Description			Quantity	
Make and Model:	Submersible pump -	460v. 8 in		3	
Attachment 1:	Suction hose - 6 in. d			3	
Attachment 2:	Discharge hose - 6 in			6	
Labor Unit 1:	Pump operator			1	
Horsepower:	95				
	per day				
	0.70				
(U	S Tons)				
Cost Breakdown:		1			
	φαα οο		Utilization %		
Ownership Cost/ Operating Cost/			NA 100		
Operator Cost/			NA		
Total Unit Cost/			IVA		
					
Total Fleet Cost	/Hour: \$89.39				
PUMPING QUANTI	TIES				
Initial Pond Vol	ume: 41.20			Conversion factor:	325850.5800
Final Pond Vol			gallons		
Total Pond Inflow Su			_ 0	Unit inflow rate in	
	Area: 18,035	5	_ Sq. ft.	gph/sq. ft.:	0.1758
Total Pond Inflow Vo		·0	11		
•	Hour: 3,170.5		_ gallons		
Source	of estimated volume: _	Site maps	s and field estimates	(4.12 surface ac.)	
PUMPING TIME					
Max	ximum Pump Capacity:		170,000	gph/pump	
	stimated Suction Head:		5	feet	
Esti	mated Discharge Head:		0	feet	
	Total Head:		5	feet	
	CPB Pump Capacity:		168,000	gph/pump	
	Site Altitude:		6,200	feet	
	sted Pumping Capacity:		504,000	gph	
	djusted Pumping Time:	-	26.64	hours	
	during Initial Pumping:		84,453	gallons	
	djusted Pumping Time: ude Adjustment Factor:		26.80 1.0000	Hours (3% rule)	
	ump Efficiency Factor:	-	0.9167	(5% rule) (55 min./hr.)	
	djusted Pumping Time:		24.57	hours	
JOB TIME AND CO	<u>ST</u>		Total job	time: 24.57	Hours
Unit cost: \$0.00	00163/Gallon		Total job	cost: \$2,196	

Task description:	Pit 8-1	Lower water level by 1	0 ft.		
e: Bunn Ranch Pit		Permit Action:	2018-08	Permit/Job#:	M1980131
PROJECT IDENTIF	<u> ICATIO</u>	<u> N</u>			
Task #: 02E Date: 8/22/2018 User: ACY		State: Colorado County: Moffat		Abbreviation: Filename:	None M131-02e
Agency or orga	nization n	ame: DRMS			
HOURLY EQUIPMI	ENT CO	ST			
-	Descrip			Quantity	
Make and Model:		rsible pump - 460v, 8 ir	l .	3	
Attachment 1:	Suction	hose - 6 in. diam., 25 f	t.	3	
Attachment 2:	Dischar	rge hose - 6 in. D., 25 ft		6	
Labor Unit 1:	Pump o	pperator		1	
Weight:	95 per day 0.70 (S Tons)				
Cost Breakdown:	,				
Cost Breakdo WII.			Utilization %		
Ownership Cost/	Hour:	\$22.80	NA		
Operating Cost/		\$38.79	100		
Operator Cost/		\$27.80	NA		
Total Unit Cost/		\$89.39			
Total Fleet Cost	/Hour:	\$89.39			
		φολ.39			
PUMPING QUANTI					
Initial Pond Vol		103.60		Conversion factor:	325850.5800
Final Pond Vol		33,758,120.09	_ gallons		
Total Pond Inflow Su		24.225		Unit inflow rate in	0.4550
	Area:	31,236	Sq. ft.	gph/sq. ft.:	0.1758
Total Pond Inflow Vo	olume Hour:	5,491.34	gallons		
Source	of estimat	ed volume: Site map	s and field estimates (10.3	36 surface ac.)	
PUMPING TIME					
	vimum Du	mp Capacity:	170,000	gph/pump	
		Suction Head:		gpn/pump feet	
		scharge Head:		feet	
Lati	mated Dis	Total Head:		feet	
	CPR Pu	mp Capacity:		gph/pump	
		Site Altitude:		feet	
Adius	sted Pump	ing Capacity:	504,000	gph	
		imping Time:		hours	
	•	tial Pumping:		gallons	
		ımping Time:		Hours	
		tment Factor:		(3% rule)	
P	ump Effic	ciency Factor:		(55 min./hr.)	
Total A	djusted Pu	ımping Time:	62.07	hours	
JOB TIME AND CO	<u>ST</u>		Total job time:	62.07	Hours
Unit cost: \$0.00	00163	/Gallon	Total job cost:	\$5,548	
φοιοί			1 0 mi jou cost.	Ψε,ε ισ	

Task description:	Pit 9-Lower water	r level by 1	0 ft.		
ite: Bunn Ranch Pit	Pern	nit Action:	2018-08	Permit/Job#:	M1980131
PROJECT IDENTIF	FICATION .				
Task #: 02F	State:	Colorado		Abbreviation:	None
Date: 8/22/2018		Moffat			M131-02f
User: ACY				_	
Agency or orga	nnization name: DR	MS			
HOURLY EQUIPMI					
HOURET EQUI WI	Description Description			Overtity	
Make and Model:	Submersible pump	- 160v 8 in		Quantity 3	<u></u>
Attachment 1:	Suction hose - 6 in.			3	
Attachment 2:	Discharge hose - 6			6	
Labor Unit 1:	Pump operator	in. D., 25 it	•	1	
	95				
Horsepower: Shift Basis: 1	per day				
Weight:	0.70				
	JS Tons)				
Cost Breakdown:					
COST BITAING WILL			Utilization %		
Ownership Cost/	Hour: \$22.8	0	NA		
Operating Cost/		9	100		
Operator Cost/	Hour: \$27.8	0	NA		
Total Unit Cost/	Hour: \$89.3	9			
Total Fleet Cost	/Hour: \$89.3	89			
		,,,			
PUMPING QUANTI					
Initial Pond Vol			_	Conversion factor:	325850.5800
Final Pond Vol		576.42	_ gallons	** * * * * * * * * * * * * * * * * * * *	
Total Pond Inflow Su		1.0	G 6	Unit inflow rate in	0.1750
Total Pond Inflow Vo	Area: 34,0	40	_ Sq. ft.	gph/sq. ft.:	0.1758
	Hour: 5,985	20	gallons		
•	·		_ ~	(10.50	
	of estimated volume:	Site maps	s and field estimates	(10.59 surface ac.)	
PUMPING TIME					
Ma	ximum Pump Capacity	/ :	170,000	gph/pump	
	Estimated Suction Head		5	feet	
Esti	imated Discharge Head	l:	0	feet	
	Total Head	l:	5	feet	
	CPB Pump Capacity		168,000	gph/pump	
	Site Altitude	e:	6,200	feet	
	sted Pumping Capacity		504,000	gph	
	djusted Pumping Time		68.47	hours	
	during Initial Pumping		409,791	gallons	
	djusted Pumping Time		69.28	Hours	
	ude Adjustment Factor		1.0000	(3% rule)	
	Pump Efficiency Factor		0.9167	(55 min./hr.)	
	djusted Pumping Time	·	63.51	hours	
JOB TIME AND CO	<u>OST</u>		Total ist 4	ima: 62 51	Hours
			Total job t	ime: 63.51	nours
			J		

BULLDOZER WORK

Task description:	Reduce all slo	pes to 3H:1V (or flatter		
Bunn Ranch Pit	F	Permit Action:	2018-08	Permit/Job#:	M1980131
PROJECT IDENT	<u>CIFICATION</u>				
Task #: 03A	State	e: Colorado		Abbreviation:	None
Date: 8/22/20				Filename:	M131-03a
User: ACY					
Agency or o	rganization name:	DRMS			
HOURLY EQUIP	MENT COST				
Basic Machine:	Cat D9T - 9SU				
Horsepower:	405				
Blade Type:	Semi-Universal				
Attachment:	NA		<u> </u>		
Shift Basis:	1 per day (CRG)				
_	(CRU)				
Cost Breakdown:			Utilization %		
Ownership Cost/Ho	nr.	\$110.70	NA		
Operating Cost/Ho		\$95.46	100		
Ripper own. Cost/Ho		\$0.00	NA		
Ripper op. Cost/Ho	ur:	\$0.00	0		
Operator Cost/Ho	ur:	\$41.52	NA		
Swell factor:	50,042 1.060				
Loose volume:	53,045 LCY				
Source of estimated v Source of estimated s		ted values from andbook	2015 SI-3		
HOURLY PRODU	<u>JCTION</u>				
Average push distanc Unadjusted hourly pro		_CY/hr			
Materials consistency	description: Com	pacted fill or e	mbankment 0.9		
Average push gradien Average site altitude:	0 % 6,200 feet				
Material weight:	3,250 lbs/LCY			_	
Weight description:	Gravel - Pitrun				
Job Condition Correc	tion Factor tor Skill:	0.750	Source (AVG.)		
Material con		0.900	(CAT HB))		
	method:	1.000	(GEN.)		
	visibility:	1.000	(AVG.)		

0.830	(1 SHIFT/DAY)
0.800	(FND-RF)
1.000	(CAT HB)
1.000	(CAT HB)
0.708	(CAT HB)
1.000	(PAT)
	0.800 1.000 1.000 0.708

Net correction: 0.3173

Adjusted unit production: 669.66 LCY/hr
Adjusted fleet production: 1339.32 LCY/hr

JOB TIME AND COST

Fleet size: 2 Dozer(s)
Unit cost: \$0.370/LCY

Total job time: 39.61 Hours
Total job cost: \$19,619

BULLDOZER RIPPING WORK

	Task description:	Rip	compacted stockpile and	operations ar	rea			
Site	: Bunn Ranch l	Pit	Permit Action:	2018-08	Peri	nit/Job#	: <u>M19801</u>	31
	PROJECT ID	ENTIFICAT	ION					
	Task #: 04.	A	State: Colorado		Abbre	viation:	None	
		22/2018	County: Moffat			ename:	M131-04	a
	User: AC		·				-	
	Agency	or organization	n name: DRMS					
	HOURLY EQ	UIPMENT C	<u>OST</u>					
	Basic	Machine: Ca	t D9T - 9SU		Horsepower:		405	
	Ripper Att		Shank Ripper		Shift Basis:	1 :	per day	
			**		Data Source:		CRG)	
	Cost Breakdown				_			
		-			Utilization %			
		Ownership C		\$110.70	NA			
		Operating C		\$95.46	100			
		er Ownership C		\$12.36	NA			
	Ripj	per Operating C		\$7.88	100			
		Operator C		\$41.52	NA			
		Total Unit C	cost/Hour:	\$267.92				
		Total Fleet C	Cost/Hour: \$535	5.85				
	MATERIAL (<u> UANTITIES</u>	Sele	cted estimating	g method: Area			
	Alternate Method	<u>ds:</u>						
Seismic:	NA		Bank Volume:	NA	BCY		NA	
Area:	30.00	acres	Rip Depth (ft):	2.00		,800	1111	BCY or CC
		Source of esti	mated quantity: Previou					
			mated quantity. Treviou	isiy accepted v	arues 2013 51-3			
	HOURLY PRO	<u>ODUCTION</u>						
	Seismic:							
			Seismic Velocity:	NA	feet/secon	d		
	Area:							
		Avera	ge Ripping Depth:	2.63	mph			
			ge Ripping Width:	7.67	degrees			
			e Ripping Length:	100.00	feet			
			rage Dozer Speed:	88.00	feet			
			e Maneuver Time:	0.25	feet			
		Produc	ction per unit area:	0.762	acres/hou	•		
	Job Condition Co	orrection Factor	<u>s</u>					
	Un	adjusted Hourl	y Unit Production:	0.762	Acres/hr			
			Site Altitude:	6,200	feet			
			Altitude Adj:	1.00	(CAT HB			
			Job Efficiency:	0.83	(1 shift/da	•		
			Net Correction:	0.83	multiplier			
			Hourly Unit Production: Hourly Fleet Production:	0.63 1.26	Acres/hr Acres/hr			
	JOB TIME AN	ND COST						
	Fleet size:	2	_ Grader(s)	Total job tin	me: 23 .	72	Но	urs
	Unit cost:	\$423.590	Per acre	Total job co	ost: \$12.	708		

WHEEL LOADER – LOAD AND CARRY WORK

Task descrip	ption:	Transpo	ort topsoil from	stockpiles				
: Bunn Ra	nch Pit		Permit Act	ion: 2018-08		Permit	/Job#: <u>N</u>	11980131
PROJEC'	T IDENT	IFICATION	<u>[</u>					
Task #:	05A		State: Color	rado		Abbrevia	tion: No	one
Date:	8/22/201	8	County: Moff			Filen		131-05a
User:	ACY			ut		THOM	<u> </u>	131 03 u
Aş	gency or or	ganization nar	ne: DRMS					
HOURLY	EQUIPN	MENT COS	<u>r</u>					
Basi	c Machine:	CAT 980H	1		Horse	epower:	315	
	achment 1:	-				t Basis:	1 per d	av
7111	acimient 1.	Rorb cut	,	_		Source:	(CRG	
Cost Break	down:							
0		a4/II a	¢50.17	Utilizatio				
	nership Cosperating Cosperating		\$50.17 \$56.19	NA 100				
	perator Cos		\$40.90	NA				
	tal Unit Cos		\$147.26	INA	<u>: </u>			
Tot	tal Fleet Co	ost/Hour:	\$294.52					
MATERI								
MAILKL	<u>AL QUAI</u>	<u>NTITIES</u>						
			CC	Y Sw	ell factor:	1 215		
Initial	AL QUAN volume: volume:	NTITIES 44,770 54,39	CC CC		ell factor:	1.215	_	
Initial	volume: _	44,770 54,3 9	D6 LC	Y	_			ro
Initial	volume: _volume: _	44,770 54,39 the of estimated	1 volume: 30 a	Y ac flat $+ 3.3$ ac s	_			ΓS
Initial	volume: _volume: _	44,770 54,3 9	1 volume: 30 a	Y	_			ΓS
Initial	volume: _volume: _Source of	54,770 54,39 se of estimated estimated swe	26 LC? I volume: 30 a	Y ac flat $+ 3.3$ ac s	_		10" D of 7	ΓS
Initial Loose	volume:volume:Source of	54,770 54,39 se of estimated swe CTION	26 LC? I volume: 30 a	Y ac flat + 3.3 ac s Handbook	lopes (9570L)	F x 15' H) w/		minutes
Initial Loose HOURLY Loader Cyc	volume:volume:Source of	44,770 54,39 se of estimated estimated swe CTION Unadjus	l volume: 30 a ell factor: Cat	Y ac flat + 3.3 ac s Handbook	lopes (9570L)	F x 15' H) w/	50	
Initial Loose HOURLY Loader Cyc	volume:volume:Source ofvolume:volu	44,770 54,39 se of estimated sweetimated s	l volume: 30 a ell factor: Cat	Y ac flat + 3.3 ac s Handbook Fime (load, dum	lopes (9570L)	F x 15' H) w/	50 n.)	minutes
Initial Loose HOURLY Loader Cyc	volume:volume: Source of Y PRODUCE Time: Ele Time Face Mater Stock	244,770 54,39 te of estimated sweetimated sweetimate	l volume: 30 a ell factor: Cat ted Basic Cycle 7 rial up to 1/8" dia eyor or dozer pilo	Y ac flat + 3.3 ac s Handbook Γime (load, dum ameter 0.02 ed 10 ft. high an	np, maneuver)	F x 15' H) w/ E : 0.5 Factor (mi) 0.020 0.000	50 n.)	minutes Source (Cat HB) (Cat HB)
Initial Loose HOURLY Loader Cyc	volume:	44,770 54,39 ee of estimated swe CTION Unadjus ctors erial: Mater cpile: Conveship: No ac	l volume: 30 a ell factor: Cat ted Basic Cycle 7 rial up to 1/8" dia eyor or dozer pilo ljustment - factor	Y ac flat + 3.3 ac s Handbook Γime (load, dum ameter 0.02 ed 10 ft. high an r not applicable	np, maneuver)	F x 15' H) w/ Factor (mi 0.020 0.000 0.000	50 n.)	minutes Source (Cat HB) (Cat HB) (Cat HB)
Initial Loose HOURLY Loader Cyc	volume:	44,770 54,39 se of estimated sweetimated s	l volume: 30 a ell factor: Cat ted Basic Cycle 7 rial up to 1/8" dia eyor or dozer pile ljustment - factor ant operation -0.	Y ac flat + 3.3 ac s Handbook Γime (load, dum ameter 0.02 ed 10 ft. high an r not applicable	np, maneuver)	F x 15' H) w/ Factor (mi 0.020 0.000 0.000 -0.040	50 n.)	minutes Source (Cat HB) (Cat HB) (Cat HB) (Cat HB)
Initial Loose HOURLY Loader Cyc	volume:	44,770 54,39 se of estimated sweetimated s	ted Basic Cycle 7 rial up to 1/8" dia eyor or dozer pilo ljustment - factor ant operation -0. nal target 0.00	Y ac flat + 3.3 ac s Handbook Fime (load, dum ameter 0.02 ed 10 ft. high an r not applicable	np, maneuver) d up 0.00	F x 15' H) w/ Factor (mi 0.020 0.000 0.000 -0.040 0.000	50 n.)	minutes Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)
Initial Loose HOURLY Loader Cyc	volume:	44,770 54,39 se of estimated sweetimated s	ted Basic Cycle 7 rial up to 1/8" dia eyor or dozer pile ljustment - factor ant operation -0. nal target 0.00	Arc flat + 3.3 ac s Handbook Fime (load, dum ameter 0.02 ed 10 ft. high an mot applicable od et Cycle Time A	np, maneuver) d up 0.00 0.00 djustment:	F x 15' H) w/ Factor (mi) 0.020 0.000 0.000 -0.040 0.000 -0.020	50 n.)	minutes Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
Initial Loose HOURLY Loader Cyc	volume:	44,770 54,39 se of estimated sweetimated s	ted Basic Cycle 7 rial up to 1/8" dia eyor or dozer pile ljustment - factor ant operation -0. nal target 0.00	Y ac flat + 3.3 ac s Handbook Fime (load, dum ameter 0.02 ed 10 ft. high an r not applicable	np, maneuver) d up 0.00 0.00 djustment:	F x 15' H) w/ Factor (mi 0.020 0.000 0.000 -0.040 0.000	50 n.)	minutes Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)
Initial Loose HOURLY Loader Cyc Cyc	volume:	44,770 54,39 se of estimated sweetimated s	ted Basic Cycle 7 rial up to 1/8" dia eyor or dozer pilo ljustment - factor ant operation -0. nal target 0.00	Arc flat + 3.3 ac s Handbook Fime (load, dum ameter 0.02 ed 10 ft. high an mot applicable od et Cycle Time A	np, maneuver) d up 0.00 0.00 djustment:	F x 15' H) w/ Factor (mi) 0.020 0.000 0.000 -0.040 0.000 -0.020	50 n.)	minutes Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
Initial Loose HOURLY Loader Cyc Cyc	volume:	44,770 54,39 e of estimated sweet estimated	ted Basic Cycle Trial up to 1/8" dia eyor or dozer pile ljustment - factor ant operation -0. Ne A	A c flat + 3.3 ac s Handbook Fime (load, dum ameter 0.02 ed 10 ft. high an not applicable 104 et Cycle Time A djusted Basic C	d up 0.00 0.00 djustment:	F x 15' H) w/ Factor (mi 0.020 0.000 0.000 -0.040 0.000 -0.020 0.530	50 n.)	minutes Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
Initial Loose HOURLY Loader Cyc Cyc	volume:	44,770 54,39 e of estimated sweet estimated	ted Basic Cycle 7 rial up to 1/8" dia eyor or dozer pilo ljustment - factor ant operation -0. nal target 0.00	rac flat + 3.3 ac s Handbook Fime (load, dum meter 0.02 ed 10 ft. high an mot applicable od et Cycle Time A djusted Basic C	np, maneuver) d up 0.00 0.00 djustment: ycle Time:	F x 15' H) w/ Factor (mi 0.020 0.000 -0.040 0.000 -0.020 0.530 ration 5.0	50 n.)	minutes Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
HOURLY Loader Cyc Cyc Tri	volume:	44,770 54,39 e of estimated sweet estimated estimated sweet estimated sweet estimated sweet estimated sweet estimated sweet estimated estimate	ted Basic Cycle Tall up to 1/8" diageyor or dozer pileljustment - factor ant operation -0. No. All volume: 30 a cat and a cat and a cat and a cat a	rac flat + 3.3 ac s Handbook Fime (load, dum meter 0.02 ed 10 ft. high an mot applicable od et Cycle Time A djusted Basic C	np, maneuver) d up 0.00 0.00 djustment: ycle Time:	F x 15' H) w/ Factor (mi 0.020 0.000 -0.040 0.000 -0.020 0.530 ration 5.0	50 n.)	minutes Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
Initial Loose HOURLY Loader Cyc Cyc	volume:	44,770 54,39 te of estimated sweet estimated estimat	l volume: 30 a ell factor: Cat ted Basic Cycle rial up to 1/8" dia eyor or dozer pile ljustment - factor ant operation -0. nal target 0.00 No A hs lirt, little mainter lirt, little mainter	A c flat + 3.3 ac s Handbook Fime (load, dum ameter 0.02 ed 10 ft. high an r not applicable 04 et Cycle Time A djusted Basic C mance, no water, nance, no water,	d up 0.00 0.00 djustment: ycle Time: 2" tire peneti	F x 15' H) w/ Factor (mi 0.020 0.000 0.000 -0.040 0.000 -0.020 0.530 ration 5.0 ration 5.0	50 n.)	minutes Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
HOURLY Loader Cyc Cyc Tri	volume:	44,770 54,39 te of estimated sweet estimated e	ted Basic Cycle Tall up to 1/8" dial up to 1/8" dial eyor or dozer piloligustment - factor ant operation -0. No Abs. Grade Res.	r ac flat + 3.3 ac s Handbook Fime (load, dum ameter 0.02 ed 10 ft. high an not applicable 104 et Cycle Time A djusted Basic Co nance, no water, nance, no water, nance, no water,	d up 0.00 0.00 djustment: ycle Time: 2" tire penetr 2" tire penetr	F x 15' H) w/ Factor (mi 0.020 0.000 -0.040 0.000 -0.020 0.530 ration 5.0 ration 5.0	50 n.) (((((((((((((((((((minutes Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
HOURLY Loader Cyc Cyc Tr	volume:	44,770 54,39 te of estimated sweet estimated estimat	l volume: 30 a ell factor: Cat ted Basic Cycle rial up to 1/8" dia eyor or dozer pile ljustment - factor ant operation -0. nal target 0.00 No A hs lirt, little mainter lirt, little mainter	A c flat + 3.3 ac s Handbook Fime (load, dum ameter 0.02 ed 10 ft. high an r not applicable 04 et Cycle Time A djusted Basic C mance, no water, nance, no water,	d up 0.00 0.00 djustment: ycle Time: 2" tire peneti	F x 15' H) w/ Factor (mi 0.020 0.000 0.000 -0.040 0.000 -0.020 0.530 ration 5.0 ration 5.0	50 n.) (((((((((((((((((((minutes Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes

Total Travel Time: 0.3367 minutes
Total Cycle Time: 0.8667 minutes

Load Bucket Capacity

Rated Capacity: 7.50 LCY (heaped)

Bucket Fill Factor: 0.975 Loose material - uniform aggregates to 1/8" (95-100%) 0.975

Adjusted Capacity: 7.31 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: 506.24 LCY/Hour Adjusted Hourly Unit Production: 420.18 LCY/Hour Adjusted Hourly Fleet Production: 840.36 LCY/Hour

JOB TIME AND COST

Fleet size:	2	Loader(s)	Total job time:	64.73	Hours
Unit cost:	\$0.350	/LCY	Total job cost:	\$19,064	

BULLDOZER WORK

Task description:	Distribute topsoil			
: Bunn Ranch Pit	Permit Action:	2018-08	Permit/Job#:	M1980131
PROJECT IDENTIFI	<u>ICATION</u>			
Task #: 05B	State: Colorado		Abbreviation:	None
Date: 8/22/2018	County: Moffat		Filename:	M131-05b
User: ACY			-	
Agency or organ	nization name: DRMS			
HOURLY EQUIPME	ENT COST			
Basic Machine: Cat	D9T - 9SU			
Horsepower: 405		<u> </u>		
<u></u>	ni-Universal	<u></u>		
Attachment: NA				
Shift Basis: 1 pe	er day	<u> </u>		
Data Source: (CR	RG)			
Cost Breakdown:				
Coor Divardo will.		<u>Utilization %</u>		
Ownership Cost/Hour:	\$110.70	NA		
Operating Cost/Hour:	\$95.46	100		
Ripper own. Cost/Hour:	\$0.00	NA		
Ripper op. Cost/Hour:	\$0.00	0		
Operator Cost/Hour:	\$41.52	NA		
Total unit Cost/Hour:	\$247.68			
Total Fleet Cost/Hour:	\$495.37			
Total Fieet Cost/Hour.	φ 4 73.31			
MATERIAL OHANT	TTIES			
MATERIAL QUANT				
Initial Volume: 54,39	96			
Initial Volume: 54,39 Swell factor: 1.000	96 0			
Initial Volume: 54,39 Swell factor: 1.000	96			
Initial Volume: 54,39 Swell factor: 1.000	96 0 96 LCY			
Initial Volume: 54,39 Swell factor: 1.000 Loose volume: 54,39	96 0 96 LCY ne: Transported volume			
Initial Volume: 54,39 Swell factor: 1.000 Loose volume: 54,39 Source of estimated volume	96 0 96 LCY me: Transported volume factor: Cat Handbook			
Initial Volume: 54,39 Swell factor: 1.000 Loose volume: 54,39 Source of estimated volum Source of estimated swell HOURLY PRODUCT	96 0 96 LCY me: Transported volume factor: Cat Handbook			
Initial Volume: 54,39 Swell factor: 1.000 Loose volume: 54,39 Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance:	96 0 96 LCY me: Transported volume Cat Handbook FION 100 feet			
Initial Volume: 54,39 Swell factor: 1.000 Loose volume: 54,39 Source of estimated volum Source of estimated swell HOURLY PRODUCT	96 0 96 LCY me:			
Initial Volume: 54,39 Swell factor: 1.000 Loose volume: 54,39 Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des	96 0 96 LCY me: Transported volume			
Initial Volume: 54,39 Swell factor: 1.000 Loose volume: 54,39 Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient:	96 0 96 LCY me: Transported volume factor: Cat Handbook FION 100 feet ction: 1,243.2 LCY/hr acription: Loose stockpile 1.2			
Initial Volume: 54,39 Swell factor: 1.000 Loose volume: 54,39 Source of estimated volumes Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude:	96 0 96 LCY me: Transported volume			
Initial Volume: 54,39 Swell factor: 1.000 Loose volume: 54,39 Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight:	96 0 96 LCY me:			
Initial Volume: 54,39 Swell factor: 1.000 Loose volume: 54,39 Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description:	96 0 96 LCY me:			
Initial Volume: 54,39 Swell factor: 1.000 Loose volume: 54,39 Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction	96 0 96 LCY me:	Source		
Initial Volume: 54,39 Swell factor: 1.000 Loose volume: 54,39 Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator S	96 0 96 LCY me:	Source (AVG.)		
Initial Volume: 54,39 Swell factor: 1.000 Loose volume: 54,39 Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction	96 0 96 LCY me:	Source		

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: 1,068.28 LCY/hr
Adjusted fleet production: 2136.56 LCY/hr

JOB TIME AND COST

Fleet size: 2 Dozer(s)
Unit cost: \$0.232/LCY

Total job time: 25.46 Hours
Total job cost: \$12,612

REVEGETATION WORK

DI	unn Ranch Pit	Pe	rmit Action: 2018	-08		Permit/Job#	: <u>M1980131</u>
RO.	JECT IDENTIFICA	ATION					
	ask #: 06A	State:	Colorado		Ał	obreviation:	None
	Date: 8/23/2018 User: ACY	County:	Moffat				M131-06a
		otion nama: DI	DMC				
	Agency or organization	ation name. Dr	RMS				
ER'	<u> FILIZING</u>						
atei	rials						
			Units /				
De	escription		Acre	Unit	Со	st / Unit	Cost /Acre
					\$		\$
					То	tal Fertilizer	
					10	Materials	
						Cost/Acre	\$0.00
	cation escription		Total	Foutilizan	A unlicati	on Coot/A one	Cost /Acre
De			Total	Fertilizer	Application	on Cost/Acre	
LL	escription LING		Total	Fertilizer	Application	on Cost/Acre	\$
De LI	escription	(MEANS 32 91 1		Fertilizer	Application	on Cost/Acre	\$0.00
De LI	escription LING escription	(MEANS 32 91 1				on Cost/Acre	\$ \$0.00 Cost /Acre
De Di	escription LING escription	(MEANS 32 91 1					\$0.00 Cost /Acre \$106.29
De LI De Di	LING escription sc harrowing, 6" deep	(MEANS 32 91 1			Rate – PLS LBS /		\$0.00 Cost /Acre \$106.29
LL De Di	LING escription sc harrowing, 6" deep	(MEANS 32 91 1			Rate – PLS LBS / Acre	Seeds per SQ. FT	\$0.00 Cost /Acre \$106.29 \$106.29
LL De Di	LING escription sc harrowing, 6" deep DING ed Mix	(MEANS 32 91 1			Rate – PLS LBS /	ng Cost/Acre Seeds per SQ.	\$0.00 Cost /Acre \$106.29 \$106.29
LL De Di See All Or Sn	escription LING escription sc harrowing, 6" deep DING ed Mix falfa - Common rchardgrass - Paiute nooth Brome - Lincoln				Rate – PLS LBS / Acre 0.80 0.60 7.80	Seeds per SQ. FT 3.86 7.44 25.96	\$0.00 Cost /Acre \$106.29 \$106.29 Cost /Acre \$2.09 \$2.23 \$34.01
LL De Di See All Or Sn	escription LING escription sc harrowing, 6" deep DING ed Mix falfa - Common chardgrass - Paiute				Rate – PLS LBS / Acre 0.80 0.60	Seeds per SQ. FT 3.86 7.44	\$0.00 Cost /Acre \$106.29 \$106.29 Cost /Acre \$2.09 \$2.23

Description

Cost /Acre

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

MULCHING and MISCELLANEOUS

Materials

	Units /		G 4/TI 4	G 444
Description	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, aquatic area, nox. [DMG]		\$70.14
	Total Mulch Application Cost/Acre	\$231.70

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:
 33.3
 Cost /Acre:
 \$1,190.83

 Estimated Failure Rate:
 30%
 Cost /Acre*:
 \$1,190.83

*Selected Replanting Work Items: TILLING, SEEDING, MULCHING

Initial Job Cost: \$39,654.64

Reseeding Job Cost: \$11,896.39

Total Job Hours: \$51,551

40.00

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description: Ini	tial mobilization	of reclamation cro	ew and equipment	
Site: Bunn Ranch Pit	Permi	Permit Action: 2018-08 Permit/Job#: M19801		
PROJECT IDENTIFICATI	<u>ION</u>			
Task #: 07A Date: 8/23/2018 User: ACY		Colorado Moffat	Abbreviation: Filename:	None M131-07a
Agency or organization	n name: DRM	S		
Truck Tractor Desc	cription: GENI			1 per day CRG Data DIESEL POWERED,
Truck Trailer Desc	eription:		IG GOOSENECK, DROP DEC AILER (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/uni	Size	Cost/hr/	Cost/hr/ fleet	Cost/ fleet
	(TONS)		t		fleet		
Cat D9T - 9SU	66.13	\$123.06	\$125.45	2	\$497.02	\$250.90	\$500.00
CAT 990H	83.34	\$132.84	\$125.45	2	\$516.58	\$250.90	\$500.00
Submersible pump	0.70	\$7.31	\$88.67	1	\$95.98	\$88.67	\$250.00
- 460v, 8 in.							
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: \$1,310.79 \$767.81 \$1,750.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Light Duty Pickup, 4x4, 1 T. Crew	\$47.19	1	\$47.19	\$47.19

Subtotals:	\$47.19	\$47.19

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:

Total one-way travel distance:

Average Travel Speed:

CRAIG

miles

35.00

mph

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.03	0.03
Return Time (Hours):	0.03	0.03
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.06	0.06

JOB TIME AND COST

Total job cost: 2.11 Hours

Total job cost: \$6,243

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Tasl	Task description: Secondary mobilization of reclamation crew and equipment					
Site: B	unn Ranch Pit]	Permit Action: 2018-08		Permit/Jo	b#: <u>M1980131</u>
PRO	JECT IDENTIFICA	<u>ATION</u>				
Т	Task #: 08A	State	: Colorado		Abbreviation:	None
	Date: 8/23/2018	County	: Moffat		Filename:	M131-08a
	User: ACY					
	Agency or organiza	ation name:]	DRMS			
EQU	JIPMENT TRANSPO	ORT RIG CO	<u>OST</u>			
					Shift basis:	1 per day
					Cost Data Source:	CRG Data
	Truck Tractor D	Description:	GENERIC ON	-HIGHWA	Y TRUCK TRACTOR, 6X4,	DIESEL POWERED
	Truck Tructor E	escription.	ozivziae orv		00 HP (2ND HALF, 2006)	DIEGEET OVERLED,
	Truck Trailer D	Description:	GENERIC		GOOSENECK, DROP DEC	K EQUIPMENT
		1			ILER (25T, 50T, AND 100T)	=
<u>Cost</u>	Breakdown:					
Ava	ailable Rig Capacities	0-25 To	ns 26-50	Tons	51+ Tons	
	Ownership Cost/Hou		\$18	3.37	\$22.33	
	Operating Cost/Hou		\$46	5.13	\$50.07	
	Operator Cost/Hou			7.66	\$27.66	
	Helper Cost/Hou	r: \$0.00	\$25	5.39	\$25.39	
	Total Unit Cost/Hou	r: \$88.67	\$11	7.55	\$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.	\$47.19	1	\$47.19	\$47.19
Crew				

Subtotals: \$47.19 \$47.19

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:

Total one-way travel distance:

Average Travel Speed:

CRAIG

initial one-way travel distance:

35.00

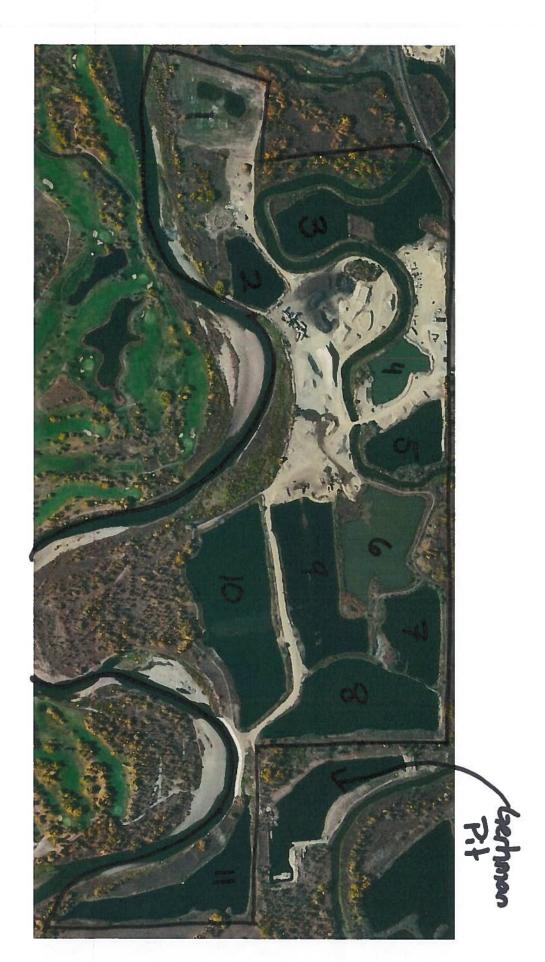
mph

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.03	0.03
Return Time (Hours):	0.03	0.03
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.06	0.06

JOB TIME AND COST

Total job time:	2.11	Hours
Total job cost:	\$1,427	



Mossat County Assesor - World Imagery

M-1980-B1 Changes from 2015 S1-3

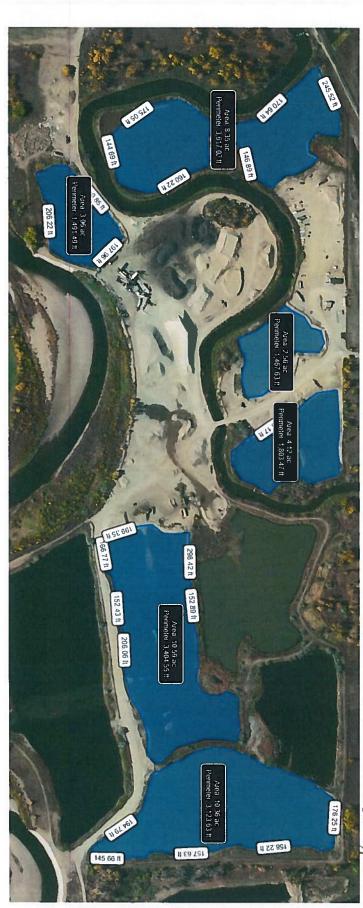
02 - Updated trump style availible in CIRCES, more efficient - Updated trand volumes based on data below

OSB - Updated volume to UCY transported volume from task OSa OSa-updosted TS volumes to cover operations + Stockpile area (30ac) + 3.30x pond slopes 4 (4570 LF of slapes 15'+1)

Ocea-Updated seeded acreage to moth 75 ac 30+33-3 -Use of powermulcher

Oba - updated gripment mob to match what was used

for system price Changes inputs only not account



Mothet County Assessors Website - World Imagery