

COLORADO Division of Reclamation, Mining and Safety Department of Natural Resources

1313 Sherman Street, Room 215 Denver, CO 80203

May 5, 2021

Doug Grant Grant Bros Construction Ltd P.O. Box 1027 Basalt, CO 81621

RE: Loesch Pit, Permit No. M-1981-068, Reclamation Costs Update and Notice of Surety Increase (SI-2)

Dear Mr. Grant:

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>\$30,468.00</u>. This is an increase of <u>\$6,682.00</u> over the <u>\$23,786.00</u> currently held by the Division. This estimate is based on conditions observed during the April 15, 2021 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 Tuesday, July 06, 2021. Please review the enclosed figures as soon as possible and contact our office if any calculation errors are noted.*

Please make arrangements with Sara Stevenson-Benn 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 Sara Stevenson-Benn.

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

Sincerely,

y Geldell

Amy Yeldell Environmental Protection Specialist

Ec: Travis Marshall, Senior EPS, Grand Junction DRMS Sara Stevenson-Benn, Financial Waranty Specialist, DRMS



COST SUMMARY WORK

Г	ask descrip	otion:	Update post insp	ection 2021				
Site: Loesch Pit		Permit Action:		2021-04	Permit/Job	#: <u>M1981068</u>		
<u>P</u>]		IDENTIFIC ACY 5/4/2021 ACY	CATION State: County:	Colorado Garfield		Abbreviation: Filename:	None M068-ACY	
		ency or organiz	zation name: DF	RMS				

TASK LIST (DIRECT COSTS)

Task		Form	Fleet	Task	
1 45K	Description	Used	Size	Hours	Cost
01a	Backfilling and grading highwalls	DOZER	1	20.00	\$5,240
02a	Apply topsoil	DOZER	1	7.07	\$1,854
03a	Rip haul road	RIPPER	1	0.67	\$180
04a	Rip processing areas	RIPPER	1	19.84	\$5,414
05a	Reseed disturbed areas-pit slopes	REVEGE	1	24.00	\$6,064
06a	Initial mobilization to site	MOBILIZE	1	2.57	\$2,578
07a	Secondary mobilization to site	MOBILIZE	1	2.57	\$1,399
		<u>SUBTC</u>	DTALS:	76.72	\$22,729

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$459
Performance bond:	1.05	Total =	\$239
Job superintendent:	38.36	Total =	\$2,668
Profit:	10.00	Total =	\$2,273
		TOTAL O & P =	\$5,639
		CONTRACT AMOUNT (direct + O & P) = $\frac{1}{2}$	\$28,368

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 \$1,418
CONTINGENCY:	3.00	Total =	\$682
	TOTAL	INDIRECT COST =	\$7,739
TOTAL BO	ND AMOUNT	(direct + indirect) =	\$30,468

BULLDOZER WORK

Task description:	Backfilling and grading hi	gnwalls		
: Loesch Pit	Permit Action	: _2021-04	Permit/Job#:	M1981068
PROJECT IDENTI	FICATION			
Task #: 01A	State: Colorado	0	Abbreviation:	None
Date: 5/4/2021	County: Garfield		Filename:	M068-001a
User: ACY			-	
Agency or org	ganization name: DRMS			
HOURLY EQUIPM	<u>IENT COST</u>			
	Cat D8T - 8SU			
· ·	10			
JI	emi-Universal			
	-shank ripper			
	per day			
<u> </u>	CRG)			
Cost Breakdown:				
o	.	<u>Utilization %</u>		
Ownership Cost/Hour				
Operating Cost/Hour				
Ripper own. Cost/Hour				
Ripper op. Cost/Hour				
Operator Cost/Hour	\$41.30	NA		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL OUAN	\$262.03 \$262.03			
Total Fleet Cost/Hour: <u>MATERIAL QUAN</u> Initial Volume: <u>10</u>	\$262.03			
Total Fleet Cost/Hour: <u>MATERIAL QUAN</u> Initial Volume: <u>10</u> Swell factor: <u>1.1</u>	\$262.03 <u>VTITIES</u> 1,000 120			
Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 10 Swell factor: 1.1 Loose volume: 11	\$262.03 <u>VTITIES</u> 1,000 120 ,200 LCY		cfill	
Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 10 Swell factor: 1.1 Loose volume: 11 Source of estimated vol	\$262.03 XTITIES 9,000 120 ,200 LCY lume: 1500' 1:1 to 3:1 cutt @20'H		cfill	
Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 10 Swell factor: 1.1 Loose volume: 11	\$262.03 XTITIES 9,000 120 ,200 LCY lume: 1500' 1:1 to 3:1 cutt @20'H	fill and 300' 2:1 to 4:1 bac	cfill	
Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 10 Swell factor: 1.1 Loose volume: 11 Source of estimated vol	\$262.03 <u>VTITIES</u> 0,000 120 ,200 LCY lume: 1500' 1:1 to 3:1 cutt @20'H ell factor: Cat Handbook	 fill and 300' 2:1 to 4:1 bacl	cfill	
Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 10 Swell factor: 1.1 Loose volume: 11 Source of estimated vol Source of estimated swell HOURLY PRODUC	\$262.03 <u>VTITIES</u> 0,000 120 ,200 LCY lume: 1500' 1:1 to 3:1 cutt @ 20'H ell factor: Cat Handbook <u>CTION</u>	 fill and 300' 2:1 to 4:1 bacl	cfill	
Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 10 Swell factor: 1.1 Loose volume: 11 Source of estimated vol Source of estimated swell	\$262.03 <u>VTITIES</u> 0,000 120 ,200 LCY lume: 1500' 1:1 to 3:1 cutt @20'H ell factor: Cat Handbook <u>CTION</u> 60 feet	fill and 300' 2:1 to 4:1 back	cfill	
Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 10 Swell factor: 1.1 Loose volume: 11 Source of estimated vol Source of estimated swell HOURLY PRODUC Average push distance:	\$262.03 VTITIES 0,000 120 ,200 LCY lume: 1500' 1:1 to 3:1 cut: @20'H ell factor: Cat Handbook CTION function: 1,246.9 LCY/hr		cfill	
Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 10 Swell factor: 1.1 Loose volume: 11 Source of estimated vol Source of estimated swe HOURLY PRODUC Average push distance: Unadjusted hourly prod Materials consistency d	\$262.03 XTITIES 0,000 120 ,200 LCY lume: 1500' 1:1 to 3:1 cutt @20'H ell factor: Cat Handbook CTION function: 60 feet 1,246.9 LCY/hr lescription: Consolidated stoce		cfill	
Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 10 Swell factor: 1.1 Loose volume: 11 Source of estimated vol Source of estimated swe HOURLY PRODUC Average push distance: Unadjusted hourly prod	\$262.03 XTITIES 0,000 120 ,200 LCY lume: 1500' 1:1 to 3:1 cutt @20'H ell factor: Cat Handbook CTION function: 60 feet 1,246.9 LCY/hr lescription: Consolidated stoce		cfill	
Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 10 Swell factor: 1.1 Loose volume: 11 Source of estimated vol Source of estimated swe HOURLY PRODUC Average push distance: Unadjusted hourly prod Materials consistency d Average push gradient:	\$262.03 XTITIES 0,000 120 ,200 LCY lume: 1500' 1:1 to 3:1 cut: @20'H ell factor: Cat Handbook CTION fluction: 60 feet 1,246.9 LCY/hr lescription: Consolidated stoc 0 %		<fill< td=""><td></td></fill<>	
Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 10 Swell factor: 1.1 Loose volume: 11 Source of estimated vol Source of estimated swe HOURLY PRODUC Average push distance: Unadjusted hourly prod Materials consistency d Average push gradient: Average site altitude:	\$262.03 XTITIES 0,000120,200 LCYlume:1500' 1:1 to 3:1 cut: @20'Hell factor: Cat HandbookCTIONluction:1,246.9 LCY/hrlescription:Consolidated stoc0 %6,360 feet		<fill< td=""><td></td></fill<>	
Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 10 Swell factor: 1.1 Loose volume: 11 Source of estimated vol Source of estimated swell HOURLY PRODUC Average push distance: Unadjusted hourly prod Materials consistency d Average site altitude: Material weight: Weight description: Job Condition Correction	\$262.03NTITIES $0,000$ 120 $,200$ LCYlume:1500' 1:1 to 3:1 cut $@20'H$ ell factor:Cat HandbookCTIONduction: $1,246.9$ LCY/hrlescription:Consolidated stoc 0% $6,360$ feet $2,550$ lbs/LCYGravel - Dryon Factor			
Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 10 Swell factor: 1.1 Loose volume: 11 Source of estimated vol Source of estimated swe HOURLY PRODUC Average push distance: Unadjusted hourly prod Materials consistency d Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator	\$262.03XTITIES $0,000$ 120 $,200$ LCYlume:1500' 1:1 to 3:1 cut: @20'Hell factor:Cat HandbookCTIONluction:1,246.9 LCY/hrlescription:Consolidated stoc 0% 6,360 feet2,550 lbs/LCYGravel - Dryon Factor or Skill:0.750		cfill	
Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 10 Swell factor: 1.1 Loose volume: 11 Source of estimated vol Source of estimated swell HOURLY PRODUC Average push distance: Unadjusted hourly prod Materials consistency d Average site altitude: Material weight: Weight description: Job Condition Correction	\$262.03XTITIES $,000$ 120 $,200$ LCYlume:1500' 1:1 to 3:1 cut: @20'Hell factor:Cat HandbookCTIONluction: $1,246.9$ LCY/hrlescription:Consolidated stoc 0% $6,360$ feet $2,550$ lbs/LCYGravel - Dryon Factor or Skill: 0.750 stency: 1.000		<pre><fill< td=""><td></td></fill<></pre>	

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)

Adjusted unit production:	560.11 LCY/hr
Adjusted fleet production:	560.11 LCY/hr

JOB TIME AND COST

Fleet size:	1 Dozer(s)
Unit cost:	\$0.468/LCY

Total job time:	20.00 Hours
Total job cost:	\$5,240

Page 1 of 2

BULLDOZER WORK

Task description:	Apply topsoil				
Loesch Pit	Perr	mit Action:	2021-04	Permit/Job#:	M1981068
PROJECT IDENTIF	ICATION				
Task #: 02A	State:	Colorado		Abbreviation:	None
Date: $5/4/2021$	County:	Garfield		Filename:	M068-02a
User: ACY	County.	Guillela		i nonume.	110000 024
Agency or organ	nization name: DR	RMS			
HOURLY EQUIPME	ENT COST				
	t D8T - 8SU				
Horsepower: 310					
×1	mi-Universal				
	hank ripper				
	er day				
Data Source: (CH	RG)				
Cost Breakdown:					
			Utilization %		
Ownership Cost/Hour:		\$116.22	NA		
Operating Cost/Hour:		\$89.77	100		
Ripper own. Cost/Hour:		\$12.00	NA		
Ripper op. Cost/Hour:		\$2.75	30		
Operator Cost/Hour:		\$41.30	NA		
1			1.111		
Total unit Cost/Hour:	\$262.03				
Total unit Cost/Hour: Total Fleet Cost/Hour:	\$262.03 \$262.03				
Total Fleet Cost/Hour:	\$262.03				
Total Fleet Cost/Hour: MATERIAL QUANT	\$262.03				
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: <u>4,66</u>	\$262.03 <u>FITIES</u> 55				
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,66 Swell factor: 1.21	\$262.03 <u>TITIES</u> 5 5				
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,66 Swell factor: 1.21	\$262.03 <u>FITIES</u> 55				
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,66 Swell factor: 1.21 Loose volume: 5,66	\$262.03 FITIES 55 5 8 LCY	 0001 E of 3:		" deen	
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,66 Swell factor: 1.21 Loose volume: 5,66 Source of estimated volume	\$262.03 FITIES 55 5 8 LCY me:20' D x 2		 1 and 300LF of 4:1 @ 10	" deep	
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,66 Swell factor: 1.21 Loose volume: 5,66	\$262.03 FITIES 55 5 8 LCY me:20' D x 2		1 and 300LF of 4:1 @ 10	" deep	
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,66 Swell factor: 1.21 Loose volume: 5,66 Source of estimated volum Source of estimated swell	\$262.03 EITIES 5 5 8 LCY me: 20' D x 2 1 factor: Cat Hand		 1 and 300LF of 4:1 @ 10	" deep	
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,66 Swell factor: 1.21 Loose volume: 5,66 Source of estimated volu Source of estimated swel HOURLY PRODUCT	\$262.03 TITIES 5 5 8 LCY me: 20' D x 2 1 factor: Cat Hand TION		 1 and 300LF of 4:1 @ 10	" deep	
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,66 Swell factor: 1.21 Loose volume: 5,66 Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance:	\$262.03 TITIES 5 5 8 LCY me: 20' D x 2' 1 factor: Cat Hand TION 75 feet	book	 1 and 300LF of 4:1 @ 10	" deep	
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,66 Swell factor: 1.21 Loose volume: 5,66 Source of estimated volu Source of estimated swel HOURLY PRODUCT	\$262.03 CITIES 55 5 8 LCY me: 20' D x 2 1 factor: Cat Hand FION 75 feet	book	 1 and 300LF of 4:1 @ 10	" deep	
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,66 Swell factor: 1.21 Loose volume: 5,66 Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance:	\$262.03 CITIES 55 5 58 LCY me: 20' D x 2' 1 factor: Cat Hand TION ction: 75 feet 1,017.1 LCY	book Y/hr	 1 and 300LF of 4:1 @ 10 stockpile 1.1	" deep	
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,66 Swell factor: 1.21 Loose volume: 5,66 Source of estimated volu Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency destinated	\$262.03 CITIES 55 5 5 8 LCY me: 20' D x 2 1 factor: Cat Hand FION ction: 75 feet 1,017.1 LCY scription: Partly c	book Y/hr		" deep	
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,66 Swell factor: 1.21 Loose volume: 5,66 Source of estimated volu Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency dest Average push gradient:	\$262.03 CITIES 55 5 5 5 5 5 5 5 5 5 5 5 5 6 1 factor: 20' D x 2 1 factor: Cat Hand TION ction: 75 feet 1,017.1 LCY scription: Partly c 0 %	book Y/hr		" deep	
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,66 Swell factor: 1.21 Loose volume: 5,66 Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product	\$262.03 CITIES 55 5 5 8 LCY me: 20' D x 2 1 factor: Cat Hand FION ction: 75 feet 1,017.1 LCY scription: Partly c	book Y/hr		" deep	
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,66 Swell factor: 1.21 Loose volume: 5,66 Source of estimated volu Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude:	\$262.03 CITIES 55 55 58 LCY me: 20' D x 2' 1 factor: Cat Hand TION ction: 1,017.1 LC' scription: Partly c 0 % 6,360 feet	book Y/hr		<u>" deep</u>	
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,66 Swell factor: 1.21 Loose volume: 5,66 Source of estimated volu Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency dest Average push gradient:	\$262.03 CITIES 55 5 5 5 5 5 5 5 5 5 5 5 5 6 1 factor: 20' D x 2 1 factor: Cat Hand TION ction: 75 feet 1,017.1 LCY scription: Partly c 0 %	book Y/hr		<u>" deep</u>	
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,66 Swell factor: 1.21 Loose volume: 5,66 Source of estimated volu Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude:	\$262.03 CITIES 55 55 58 LCY me: 20' D x 2' 1 factor: Cat Hand TION ction: 1,017.1 LC' scription: Partly c 0 % 6,360 feet	book Y/hr		" deep	
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,66 Swell factor: 1.21 Loose volume: 5,66 Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency dest Average site altitude: Material weight:	\$262.03 CITIES 55 5 58 LCY me: 20' D x 2' 1 factor: Cat Hand TION ction: 75 feet ction: 1,017.1 LC' scription: Partly c 0 % 6,360 feet 1,600 lbs/LCY Top Soil	book Y/hr		" deep	
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,66 Swell factor: 1.21 Loose volume: 5,66 Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average site altitude: Material weight: Weight description:	\$262.03 CITIES 55 5 58 LCY me: 20' D x 2' 1 factor: Cat Hand TION ction: 75 feet ction: 1,017.1 LCY scription: Partly c 0 % 6,360 feet 1,600 lbs/LCY Top Soil 1 Factor 1	book Y/hr	stockpile 1.1	" deep	
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,66 Swell factor: 1.21 Loose volume: 5,66 Source of estimated volum 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	\$262.03 SITTES 5555555555581620' D x 2'1 factor: $20' D x 2'$ 1 factor:Cat Hand TION Cat Hand TION colspan="2">Scription:Partly colspan="2">Partly colspan="2">O %6,360 feet1,600 lbs/LCYTop SoilFactorSkill:0.2	book Y/hr consolidated	stockpile 1.1	" deep	
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,66 Swell factor: 1.21 Loose volume: 5,66 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	\$262.03 SITTLES 5555558 LCYme: $20' D x 2$ 1 factor: $Cat HandTIONction:75 feetction:75 feet1,017.1 LCYscription:Partly c0 %6,360 feet1,600 lbs/LCYTop SoilFactorSkill:0.ency:1.$	book Y/hr consolidated	stockpile 1.1 <u>Source</u> (AVG.)	" deep	

Job efficienc	y: 0.830	(1 SHIFT/DAY)
Spoil pil	le: 0.800	(FND-RF)
Push gradier	nt: 1.000	(CAT HB)
Altitud	le: 1.000	(CAT HB)
Material Weigh	nt: 1.438	(CAT HB)
Blade typ	e: 1.000	(PAT)
Net correctio	n: 0.7877	
Adjusted unit production:	801.17 LCY/hr	
Adjusted fleet production:	801.17 LCY/hr	
-		

JOB TIME AND COST

Fleet size:	1 Dozer(s)
Unit cost:	\$0.327/LCY

Total job time:	7.07 Hours
Total job cost:	\$1,854

BULLDOZER RIPPING WORK

	Task description:	Rip haul road				
Site:	Loesch Pit	Permit Action:	2021-04	Permit/	Job#: <u>M198</u>	1068
	PROJECT ID	ENTIFICATION				
	Task #: 034			Abbreviat		
		/2021 County: Garfield		Filena	me: M068-	03a
	User: AC					
	Agency	or organization name: DRMS				
	HOURLY EQ	UIPMENT COST				
	Basic	Machine: Cat D8T - 8SU		Horsepower:	310	
	Ripper Att			Shift Basis:	1 per day	
				Data Source:	(CRG)	
	Cost Breakdown:	<u>.</u>				
				Utilization %		
		Ownership Cost/Hour:	\$116.22	NA		
	Rippe	Operating Cost/Hour: er Ownership Cost/Hour:	\$89.77 \$12.00	100 NA		
		ber Operating Cost/Hour:	\$9.18	100		
		Operator Cost/Hour:	\$41.30	NA		
		Total Unit Cost/Hour:	\$268.46			
		Total Fleet Cost/Hour: \$26	8 46			
	MATERIAL C	<u>DUANTITIES</u> Sele	ected estimating r	nethod: Area		
	Alternate Method	<u>ls:</u>				
nic:	NA	Bank Volume:	NA	BCY	NA	
rea:	0.43	acres Rip Depth (ft):	2.00	Volume: 1,387		BCY or
		Source of estimated quantity: Reclan	nation Plan			
	UALIDI V DDA	· · <u> </u>				
	HOURLY PRO	<u>SDUCTION</u>				
	<u>Seismic:</u>	Colomia Valooitan	NT A	fact/accesd		
		Seismic Velocity:	NA	feet/second		
	Area:					
		Average Ripping Depth: Average Ripping Width:	1.00 7.08	feet/pass		
		Average Ripping Length:	200.00	feet/pass feet/pass		
		Average Dozer Speed:	88.00	feet/minute		
		Average Maneuver Time:	0.25	minutes/pass		
		Production per unit area:	0.773	acres/hour		
	Job Condition Co	prrection Factors				
		adjusted Hourly Unit Production:	0.773	Acres/hr		
		Site Altitude:	6,360	feet		
		Altitude Adj:	1.00	(CAT HB)		
		Job Efficiency:	0.83	(1 shift/day)		
		Net Correction:	0.83	multiplier		
		Adjusted Hourly Unit Production:	0.64	Acres/hr		
		Adjusted Hourly Fleet Production:	0.64	Acres/hr		
	JOB TIME AN					
	Fleet size:	1 Grader(s)	Total job time:	0.67	ŀ	Iours
			-			
	Unit cost:	\$418.355 Per acre	Total job cost	: \$180		

BULLDOZER RIPPING WORK

	Task description:	Rip pı	ocessing areas				
Site	: Loesch Pit		Permit Action:	2021-04	Permit	/Job#: <u>M1981</u>	068
	PROJECT ID	ENTIFICATIO	<u>N</u>				
	Task #: 044 Date: 5/4 User: AC	/2021	State:ColoradoCounty:Garfield		Abbrevia Filena		4a
		or organization n	ame: DRMS				
		UIPMENT CO					
			91 98T - 8SU		Horsepower:	310	
	Ripper Att		ank Ripper		Shift Basis:	1 per day	
					Data Source:	(CRG)	
	Cost Breakdown:	-		1	Utilization 0/		
		Ownership Cos	t/Hour:	\$116.22	Utilization % NA		
		Operating Cos	t/Hour:	\$89.77	100		
		er Ownership Cos		\$15.57	NA		
	Ripp	per Operating Cos		\$10.00	100		
		Operator Cos Total Unit Cos		\$41.30 \$272.85	NA		
		Total Fleet Cos	t/Hour: \$272	2.85			
	MATERIAL C	<u>UANTITIES</u>	Sele	cted estimating	method: Area		
	Alternate Method	ls:					
Seismic:	NA		Bank Volume:	NA	BCY	NA	
Area:	10.00	acres	Rip Depth (ft):	2.00	Volume: 32,26	7	BCY or CC
		Source of estimation	ated quantity: Mining	Plan			
	HOURLY PRO	DDUCTION					
	Seismic:						
	<u>bershile:</u>	Se	eismic Velocity:	NA	feet/second		
	Area:						
	<u>Aica.</u>	Average	Ripping Depth:	1.00	feet/pass		
			Ripping Width:	5.56	feet/pass		
			Ripping Length:	200.00	feet/pass		
			ge Dozer Speed:	88.00	feet/minute		
			Maneuver Time:	0.25 0.607	minutes/pass acres/hour		
	Job Condition Co			0.007			
			Init Due de stiene	0.007	A and a (b -r)		
	UII	adjusted Hourly U		0.607	Acres/hr		
			Site Altitude: Altitude Adj:	<u>6,360</u> 1.00	feet (CAT HB)		
			Job Efficiency:	0.83	(CAT HB) (1 shift/day)		
			Net Correction:	0.83	multiplier		
			lourly Unit Production: ourly Fleet Production:	0.50 0.50	Acres/hr Acres/hr		
	JOB TIME AN	·	,				
	Fleet size:	1	Grader(s)	Total job time	e:19.84	Н	ours
	Unit cost:	\$541.437	Per acre	Total job cos	t: \$5,41 4	L	

REVEGETATION WORK

Task description:		Reseed disturbed areas-pit s	lopes		
Site: Loesch Pit		Permit Action:	2021-04	Permit/Job	o#: <u>M1981068</u>
PROJECT	IDENTIFIC	CATION			
Task #:	05A	State: Colorado		Abbreviation:	None
Date:	5/4/2021	County: Garfield		Filename:	M068-05a
User:	ACY				
Ag	ency or organi	zation name: DRMS			

FERTILIZING

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
10-34-0, 18-46-0, 5-10-5	200.00	pound	\$0.34	\$68.00
			Total Fertilizer Materials	
			Cost/Acre	\$68.00

Application

Description		Cost /Acre
Tractor towed spreader (MEANS 32 01 90.13 0120)		\$37.03
	Total Fertilizer Application Cost/Acre	\$37.03

TILLING

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$107.16
Total Tilling Cost/Acre	\$107.16

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Alkali Sacaton	0.50	19.51	\$14.24
Tall Wheatgrass - Jose	6.00	10.88	\$20.25
Western Wheatgrass - Arriba	4.00	10.10	\$26.00
Saltbush, Four Wing	1.00	1.38	\$12.50
Totals Seed Mix	11.50	41.87	\$72.99

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 - Curtail @ 4.0 pt/ac	1.00	ACRE	\$7.63	\$7.63
Straw, delivered {MEANS 31 25 14.16 1200}	1.00	TON	\$301.00	\$301.00
Total Mulch Materials Cost/Acre				\$308.63

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$70.17
Power mulcher (MEANS 32 91 13.16 0350)		\$101.93
Weed spray, truck, aquatic area, nox. [DMG]		\$62.72
	Total Mulch Application Cost/Acre	\$234.82

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
Cottonwood,	5	Tubling, 10 cu. in. container	\$4.43	\$2.40	\$22.15
Narrowleaf		{(MEANS)			
Totals Nursery Stock Cost / Acre \$22.15					

JOB TIME AND COST

	No. of Acres:	4	Cost /Acre:	\$1,082.78
Estimated Failure Rate:		40%	Cost /Acre*:	\$1,082.78
*Selected Replanting Work Items:		FERTILIZING,TII	LING,SEEDING,NU	
		RSERY,MULCHIN	NG	
Initial Job Cost:	\$4,331.12			
Reseeding Job Cost:	\$1,732.45			
Total Job Cost:	\$6,064			
Job Hours:	24.00			

EQUIPMENT MOBILIZATION/DEMOBILIZATION

		ial mobilization t	lo site				
Loesch Pit		Permit	Action: 2021	-04		Permit/Job#: <u>M</u>	1981068
PROJECT IDEN	NTIFICATI	<u>ON</u>					
Task #: 06A			olorado			eviation: None	
Date: $5/4/$ User: AC	/2021 Y	County: <u>Ga</u>	arfield		Fi	ilename: M068	-06a
Agency of	or organization	n name: DRMS					
EQUIPMENT T	RANSPOR	<u>T RIG COST</u>					
				(Shift ba Cost Data Sou	I	
Truck	Tractor Desc	ription: GENE	RIC ON-HIGH		JCK TRACTO (2ND HALF,	OR, 6X4, DIESEL 2006)	POWERED,
Truck	k Trailer Desc	ription: G		ING GOO	· · · · · · · · · · · · · · · · · · ·	ROP DECK EQUI	IPMENT
				I IN IILLIN	(231, 301, A)	ND 1001)	
Cost Breakdown:					(231, 301, AI	ND 1001)	
Available Rig Ca		0-25 Tons	26-50 Tons	51+	- Tons	<u>ND 1001)</u>	
Available Rig Ca Ownership	Cost/Hour:	\$17.20	26-50 Tons \$29.63	51 +	- Tons 38.69	<u>(1) 1001)</u>	
Available Rig Ca Ownership Operating	Cost/Hour: Cost/Hour:	\$17.20 \$26.56	26-50 Tons \$29.63 \$47.02	51 +	- Tons 38.69 55.69	<u>(1) 1001)</u>	
Available Rig Ca Ownership Operating Operator	Cost/Hour: Cost/Hour: Cost/Hour:	\$17.20 \$26.56 \$23.63	26-50 Tons \$29.63 \$47.02 \$23.63	51 -1 \$2 \$5 \$2	- Tons 38.69 55.69 23.63		
Available Rig Ca Ownership Operating Operator Helper	Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	\$17.20 \$26.56 \$23.63 \$0.00	26-50 Tons \$29.63 \$47.02 \$23.63 \$23.53	51 -1 \$3 \$5 \$2 \$2 \$2	- Tons 38.69 55.69 23.63 23.53	<u>(1) 1001)</u>	
Available Rig Ca Ownership Operating Operator Helper Total Unit	Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	\$17.20 \$26.56 \$23.63 \$0.00 \$67.39	26-50 Tons \$29.63 \$47.02 \$23.63	51 -1 \$3 \$5 \$2 \$2 \$2	- Tons 38.69 55.69 23.63		
Available Rig Ca Ownership Operating Operator Helper Total Unit	Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPN	\$17.20 \$26.56 \$23.63 \$0.00 \$67.39 MENT:	26-50 Tons \$29.63 \$47.02 \$23.63 \$23.53 \$123.81	51 + \$3 \$5 \$2 \$2 \$1	- Tons 38.69 55.69 23.63 23.53 41.54		
Available Rig Ca Ownership Operating Operator Helper Total Unit	Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	\$17.20 \$26.56 \$23.63 \$0.00 \$67.39	26-50 Tons \$29.63 \$47.02 \$23.63 \$23.53	51 -1 \$3 \$5 \$2 \$2 \$2	- Tons 38.69 55.69 23.63 23.53	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
Available Rig Ca Ownership Operating Operator Helper Total Unit NON ROADAB	Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPM Weight/	\$17.20 \$26.56 \$23.63 \$0.00 \$67.39 MENT: Owner ship	26-50 Tons \$29.63 \$47.02 \$23.63 \$23.53 \$123.81 Haul Rig	51- \$3 \$5 \$2 \$2 \$1 Fleet	- Tons 38.69 55.69 23.63 23.53 41.54 Haul Trip	Return Trip	
Available Rig Ca Ownership Operating Operator Helper Total Unit NON ROADAB	Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPN Weight/ Unit	\$17.20 \$26.56 \$23.63 \$0.00 \$67.39 MENT: Owner ship	26-50 Tons \$29.63 \$47.02 \$23.63 \$23.53 \$123.81 Haul Rig Cost/hr/uni	51- \$3 \$5 \$2 \$2 \$1 Fleet	- Tons 38.69 55.69 23.63 23.53 41.54 Haul Trip Cost/hr/	Return Trip Cost/hr/ fleet \$141.54	
Available Rig Ca Ownership Operating Operator Helper Total Unit NON ROADAB Machine Description	Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPN Weight/ Unit (TONS)	\$17.20 \$26.56 \$23.63 \$0.00 \$67.39 MENT: Owner ship Cost/hr/ unit	26-50 Tons \$29.63 \$47.02 \$23.63 \$23.53 \$123.81 Haul Rig Cost/hr/uni t	51- \$3 \$2 \$2 \$2 \$1 Fleet Size	- Tons 38.69 55.69 23.63 23.53 41.54 Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet	Cost/ fleet
Available Rig Ca Ownership Operating Operator Helper Total Unit NON ROADAB Machine Description Cat D8T - 8SU Drill/Broadcast Seeder with	Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPN Weight/ Unit (TONS) 53.08	\$17.20 \$26.56 \$23.63 \$0.00 \$67.39 MENT: Owner ship Cost/hr/ unit \$128.22	26-50 Tons \$29.63 \$47.02 \$23.63 \$23.53 \$123.81 Haul Rig Cost/hr/uni t \$141.54	51- \$3 \$2 \$2 \$2 \$1 Fleet Size 1	- Tons 38.69 55.69 23.63 23.53 41.54 Haul Trip Cost/hr/ fleet \$269.76	Return Trip Cost/hr/ fleet \$141.54	\$250.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Flatbed Truck, 6x4, 45K GVW	\$77.71	1	\$77.71	\$77.71
Light Duty Pickup, 4x4, 3/4 T.	\$40.91	1	\$40.91	\$40.91
		Subtotals:	\$118.62	\$118.62

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	RIFLE, CO	
Total one-way travel distance:	5.00	miles
Average Travel Speed:	35.00	mph
Total Non-Roadable Mob/Demob Cost * '* two round trips with haul rig:	\$2,544.55	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$33.89	

Transportation Cycle Time:

Haul Time (Hours): Return Time (Hours): Loading Time (Hours):	Non- Roadable Equipment 0.14 0.14 0.50	Roadable Equipment 0.14 0.14 NA
Unloading Time (Hours):	0.50	NA NA
Subtotals:	1.29	0.29

JOB TIME AND COST

Total job time: 2.57 Hours

Total job cost: \$2,578

EQUIPMENT MOBILIZATION/DEMOBILIZATION

	Sec	•					
: Loesch Pit		Permit	Action: _2021	-04		Permit/Job#: <u>M</u>	[1981068
PROJECT IDEN	NTIFICATI	<u>ON</u>					
Task #: 07A		State: Co	olorado		Abbre	eviation: None	
Date: 5/4/2 User: ACY	2021 Y	County: Ga	arfield		F	ilename: M068	3-07a
Agency o	r organizatior	n name: DRMS					
EQUIPMENT T	RANSPOR	<u>T RIG COST</u>					
				(Shift ba Cost Data Sou		
Truck	Tractor Desc	ription: GENE	RIC ON-HIGH		JCK TRACTO (2ND HALF,	OR, 6X4, DIESEI 2006)	L POWERED,
T . 1	Trailer Desc	ription: G	ENERIC FOLD	DING GOC	SENECK DI	ROP DECK EQU	IPMENT
1 ruck	Trailer Desc				(25T, 50T, A)	-	
Truck Cost Breakdown:	Traner Desc					-	
Cost Breakdown: Available Rig Ca	pacities	0-25 Tons		TRAILER	(25T, 50T, A) • Tons	-	
<u>Cost Breakdown:</u> Available Rig C a Ownership	pacities Cost/Hour:	0-25 Tons \$17.20	26-50 Tons \$29.63	<u>TRAILER</u> 51- \$:	(25T, 50T, A) Tons 38.69	-	
<u>Cost Breakdown:</u> Available Rig Ca Ownership Operating	pacities Cost/Hour: Cost/Hour:	0-25 Tons \$17.20 \$26.56	26-50 Tons \$29.63 \$47.02	TRAILER 51- \$3 \$3 \$3	(25T, 50T, A) Tons 38.69 55.69	-	
Cost Breakdown: Available Rig Ca Ownership Operating Operator	pacities Cost/Hour: Cost/Hour: Cost/Hour:	0-25 Tons \$17.20 \$26.56 \$23.63	26-50 Tons \$29.63 \$47.02 \$23.63	TRAILER 51- \$1 \$1 \$1 \$1 \$2 \$2 \$2 \$2	(25T, 50T, A) Tons 38.69 55.69 23.63	-	
Cost Breakdown: Available Rig Ca Ownership Operating Operator Helper	Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	0-25 Tons \$17.20 \$26.56 \$23.63 \$0.00	26-50 Tons \$29.63 \$47.02 \$23.63 \$23.53	TRAILER 51- \$: \$: \$: \$: \$: \$: \$: \$: \$: \$: \$: \$: \$:	(25T, 50T, A) Tons 38.69 55.69 23.63 23.53	-	
Cost Breakdown: Available Rig Ca Ownership Operating Operator Helper	pacities Cost/Hour: Cost/Hour: Cost/Hour:	0-25 Tons \$17.20 \$26.56 \$23.63	26-50 Tons \$29.63 \$47.02 \$23.63	TRAILER 51- \$: \$: \$: \$: \$: \$: \$: \$: \$: \$: \$: \$: \$:	(25T, 50T, A) Tons 38.69 55.69 23.63	-	
Cost Breakdown: Available Rig Ca Ownership Operating Operator Helper	Dacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	0-25 Tons \$17.20 \$26.56 \$23.63 \$0.00 \$67.39	26-50 Tons \$29.63 \$47.02 \$23.63 \$23.53	TRAILER 51- \$: \$: \$: \$: \$: \$: \$: \$: \$: \$: \$: \$: \$:	(25T, 50T, A) Tons 38.69 55.69 23.63 23.53	-	
Cost Breakdown: Available Rig Ca Ownership Operating Operator Helper Total Unit	pacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPN	0-25 Tons \$17.20 \$26.56 \$23.63 \$0.00 \$67.39 MENT:	26-50 Tons \$29.63 \$47.02 \$23.63 \$23.53 \$123.81	TRAILER 51- \$: \$: \$: \$: \$: \$: \$: \$: \$: \$: \$: \$: \$:	(25T, 50T, A) Tons 38.69 55.69 23.63 23.53 41.54	ND 100T)	DOT Permit
Cost Breakdown: Available Rig Ca Ownership Operating Operator Helper Total Unit	Dacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	0-25 Tons \$17.20 \$26.56 \$23.63 \$0.00 \$67.39	26-50 Tons \$29.63 \$47.02 \$23.63 \$23.53	TRAILER 51- \$: \$: \$: \$: \$: \$: \$: \$: \$: \$: \$: \$: \$: \$:	(25T, 50T, A) Tons 38.69 55.69 23.63 23.53	ND 100T)	
Cost Breakdown: Available Rig Ca Ownership Operating Operator Helper Total Unit NON ROADABI Machine	Description Description Description Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPN Weight/ Unit	0-25 Tons \$17.20 \$26.56 \$23.63 \$0.00 \$67.39 MENT: Owner ship	26-50 Tons \$29.63 \$47.02 \$23.63 \$23.53 \$123.81 Haul Rig Cost/hr/uni	TRAILER 51- \$:	(25T, 50T, A) Tons 38.69 55.69 23.63 23.53 41.54 Haul Trip Cost/hr/	ND 100T)	DOT Permit
Cost Breakdown: Available Rig Ca Ownership Operating Operator Helper Total Unit NON ROADABI Machine Description Drill/Broadcast Seeder with	Description Descr	0-25 Tons \$17.20 \$26.56 \$23.63 \$0.00 \$67.39 MENT: Owner ship Cost/hr/ unit	26-50 Tons \$29.63 \$47.02 \$23.63 \$23.53 \$123.81 Haul Rig Cost/hr/uni t	TRAILER 51- \$3 \$3 \$2 \$1 \$1 Fleet Size	(25T, 50T, A) Tons 38.69 55.69 23.63 23.53 41.54 Haul Trip Cost/hr/ fleet	ND 100T) Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet

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.	\$40.91	1	\$40.91	\$40.91
		Subtotals:	\$40.91	\$40.91

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	RIFLE, CO	
Total one-way travel distance:	5.00	miles
Average Travel Speed:	35.00	mph
Total Non-Roadable Mob/Demob Cost *	\$1,387.51	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$11.69	

Transportation Cycle Time:

	Non- Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.14	0.14
Return Time (Hours):	0.14	0.14
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.29	0.29

JOB TIME AND COST

Total job time: 2.57 Hours

Total job cost: \$1,399