

August 1, 2023

Elaine Urie Urie Rock Company 2424 E. Main St Rangely, CO 81648

RE: Urie Gravel Pit, Permit No. M-2009-038, Proposed Surety Increase (SI-2)

Dear Ms. Urie:

This reclamation cost update was in response to the site inspection conducted on July 24, 2023. 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.

The bond was last recalculated in 2019 and no increases have occurred since the permit issuance in 2009. Below is a table summarizing input values that have been updated based on site conditions. 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 plan.

Assumptions:

- Phase 1 is graded and initially reclaimed, Phase 2 active pit area partially graded, Phase 3 no stockpiling
- All areas are to received 6" of topsoil prior to reveg
- Did not include pumping dewatering task
- All compacted areas used for stockpiling requires ripping prior to topsoil replacement
- Assumed enough overburden material has been placed over shale. Rec Plan calls for a min of 54" site wide to be replaced
- Revegetation per Reclamation Plan calls for disk soil, seed mix drilled, straw mulch at 3000 lbs. /ac power mulched and crimped into place. Added weed spraying based of site conditions



Task	Form Used	Description
01a	Dozer	Grade Pit slopes to 3H: 1V = 6,852 CCY 400 LF of 1: 1V @ 20' backfill = 5926 CY 500 LF of 2H: 1V @ 20' cut/fill = 926 CY
02a	Scraper	Transport topsoil to pit slopes (phase 2) = 1,670 CCY Slopes are 900LF x 100'W = 2.07 ac @ 6"D
02b	Dozer	Grade transported topsoil on pit slopes = 2,029 LCY
03a	Ripper	Rip stockpile area (Phase 3) ~8 ac
04a	Scraper	Place topsoil on stockpile area = 6,453 CCY 8ac @ 6" D
04b	Dozer	Grade transported topsoil on stockpile area = 7,840LCY
05a	Reveg	Reveg topsoiled areas = 12.37 ac Previously topsoil slopes 1000 LF x 100'W = 2.3 ac Graded Slopes 2.07 Stockpile area 8 ac
05b	Reveg	Reveg Failure areas (phase 1) 50% of total = 2.52 ac 2200 LF x 10'W = 5.05 ac
06a	Mob	Initial Mobilization
06b	Mob	Secondary Mobilization Reseeding equipment only

Per policy I wanted to send this out for review prior to issuance. Please look it over and let me know if there are errors or concerns. If no response is received by **Monday**, **October 2**, **2023** then I'll issue SI-2 as is. SI-2 will result in a total required bond amount of **\$115,616**, which is <u>an increase of \$24,016</u> over the \$91,600 currently held.

Please feel free to contact me with any further questions. Amy Yeldell at the Division of Reclamation, Mining and Safety, Rm 215, 1001 E 62nd Ave, Denver CO 80216. Direct contact can be made by phone at 303-866-3567 Ext 8183 or via email at amy.yeldell@ state.co.us

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Sincerely,

Amy Geldell

Amy Yeldell Environmental Protection Specialist

Ec: Travis Marshall, Senior EPS, Grand Junction DRMS

COST SUMMARY WORK

Urie Gra	vel Pit	Per	rmit Action: 2023	Permit/Job	o#: <u>M2009038</u>
ROJECT	IDENTIFICA	<u>TION</u>			
Task #:	ACY	State:	Colorado	Abbreviation:	None
Date:	8/1/2023	County:	Rio Blanco	Filename:	M038-ACY
User:	ACY				

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Grade pit slopes to 3H:1V	DOZER	1	18.75	\$7,997
02a	Place topsoil on pit slopes	SCRAPER1	1	5.04	\$2,731
02b	Grade transported topsoil on pit slopes	DOZER	1	2.32	\$990
03a	Rip stockpile area	RIPPER] 1	12.05	\$5,403
04a	Place topsoil on stockpile area	SCRAPER1	1	16.54	\$8,968
04b	Grade transported topsoil on stockpile area	DOZER	1	8.97	\$3,827
05a	Revegetate topsoiled areas	REVEGE] 1	20.00	\$44,325
05b	Revegetate Failure 50% Phase 1	REVEGE	1	8.00	\$5,972
06a	Initial Mobilization	MOBILIZE	1	2.32	\$5,305
06b	Initial Mobilization	MOBILIZE	1	2.32	\$5,305
		<u>SUBTO</u>	TALS:	96.31	\$90,823

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$1,835
Performance bond:	1.05	Total =	\$954
Job superintendent:	48.15	Total =	\$3,134
Profit:	10.00	Total =	\$9,082
		TOTAL O & P =	\$15,004
		CONTRACT AMOUNT (direct + O & P) = $($	\$105,827

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

TOTAL BO	\$115,616		
	TOTAL I	NDIRECT COST =	\$24,793
CONTINGENCY:	0.00	Total =	\$0
Reclamation management and/or administration:	5.00		\$5,291
Engineering work and/or contract/bid preparation:	4.25	Total =	\$4,498
Financial warranty processing (legal/related costs):	\$0	Total =	\$0

BULLDOZER WORK

Task description:	Grade pit slopes to	0 3H:1V			
Urie Gravel Pit	Perm	it Action:	2023	Permit/Job#:	M2009038
PROJECT IDENTIFI	CATION				
Task #: 01A Date: 8/1/2023 User: ACY	State: County:	Colorado Rio Blanco	0	Abbreviation: Filename:	None M038-01a
Agency or organ	ization name: DRM	ИS			
HOURLY EQUIPME	NT COST				
Basic Machine: Cat	D8T - 8SU				
Horsepower: 310					
Blade Type: Sen	n-Universal				
Attachment: NA	u dou				
Data Source: (CP	er day				
	(U)				
Cost Breakdown:		1	** ***		
Ownership Oper/II		¢0/1 20	Utilization %		
Ownership Cost/Hour:		\$241.38 \$142.02	INA 100		
Rinner own Cost/Hour		\$0.00	100 ΝΔ		
Ripper own. Cost/Hour		\$0.00	0		
The set of		\$5.00	0		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour:	\$426.60 \$426.60	\$41.30	NA		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: <u>MATERIAL QUANT</u> Initial Volume: 685	\$426.60 \$426.60 <u>ITIES</u>	\$41.30	NA		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: <u>MATERIAL QUANT</u> Initial Volume: <u>6,852</u> Swell factor: <u>1.122</u> Loose volume: 7,70	\$426.60 \$426.60 ITIES 2 5 5 5 6 LCY	\$41.30 	NA		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 6,852 Swell factor: 1.12 Loose volume: 7,709 Source of estimated volum	\$426.60 \$426.60 ITIES 2 5 9 LCY ne: 500LF 1:1	\$41.30 	 400LF 2:1 backfill		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 6,852 Swell factor: 1.122 Loose volume: 7,709 Source of estimated volur Source of estimated swell	\$426.60 \$426.60 ITIES 2 5 9 LCY ne: 500LF 1:1 factor: Cat Handbe	\$41.30 	 400LF 2:1 backfill		
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Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 6,852 Swell factor: 1.12 Loose volume: 7,709 Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc	\$426.60 \$426.60 ITIES 2 5 9 LCY ne: 500LF 1:1 factor: Cat Handbo CION CION 5 5 5 5 5 5 5 5 5 5 5 5 5	\$41.30 	 400LF 2:1 backfill		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 6,852 Swell factor: 1.122 Loose volume: 7,709 Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc	\$426.60 \$426.60 ITIES 2 5 9 LCY ne: 500LF 1:1 factor: Cat Handbe CION CION CION Cion: 1,017.1 LCY cription: Compact	\$41.30 			
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 6,852 Swell factor: 1.122 Loose volume: 7,709 Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc Materials consistency dese Average push gradient: Average push gradient: Average site altitude:	\$426.60 \$426.60 ITIES 2 5 9 LCY ne: 500LF 1:1 factor: Cat Handbe TON TON TION 2 5 5 5 5 5 5 5 5 5 5 5 5 5	\$41.30 			
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 6,857 Swell factor: 1.122 Loose volume: 7,709 Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc Materials consistency des Average push gradient: Average site altitude: Material weight:	\$426.60 \$426.60 ITIES 2 5 9 LCY ne: 500LF 1:1 factor: Cat Handbe CION CION CION CTON Cat Handbe Compact 0 % 5,200 feet 2,550 lbs/LCY	\$41.30 			
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 6,857 Swell factor: 1.122 Loose volume: 7,709 Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc Materials consistency dese Average push gradient: Average site altitude: Material weight: Weight description:	\$426.60 \$426.60 ITIES 2 5 9 LCY ne: 500LF 1:1 factor: Cat Handbe CION CION CION CION Compact 0 % 5,200 feet 2,550 lbs/LCY Earth - Dry packed	\$41.30 			
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 6,852 Swell factor: 1.122 Loose volume: 7,709 Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc Materials consistency dese Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction	\$426.60 \$426.60 ITIES 2 5 9 LCY ne: 500LF 1:1 factor: Cat Handbe Cat H	\$41.30 	400LF 2:1 backfill		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 6,857 Swell factor: 1.122 Loose volume: 7,709 Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator S	\$426.60 \$426.60 ITIES 2 5 D LCY ne: 500LF 1:1 factor: Cat Handbox CION ************************************	\$41.30 			
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 6,852 Swell factor: 1.122 Loose volume: 7,709 Source of estimated volum Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator S Material consistency	\$426.60 \$426.60 ITIES 2 5 D LCY ne: 500LF 1:1 factor: Cat Handbeen CION CION Citon: 75 feet 1,017.1 LCY cription: Compact 0 % 5,200 feet 2,550 lbs/LCY Earth - Dry packed Factor Skill: 0.7 Skill: 0.9	\$41.30			
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume:	\$426.60 \$426.60 ITIES 2 5 D LCY ne: 500LF 1:1 factor: Cat Handbe TON <	\$41.30 	NA 400LF 2:1 backfill 400LF 2:1 backfill mbankment 0.9 Source (AVG.) (CAT HB)) (GEN.)		

Job efficience	cy: 0.830	(1 SHIFT/DAY)
Spoil pi	le: 0.800	(FND-RF)
Push gradie	nt: 1.000	(CAT HB)
Altitud	le: 1.000	(CAT HB)
Material Weig	ht: 0.902	(CAT HB)
Blade ty	pe: 1.000	(PAT)
Net correction	on: 0.4043	
Adjusted unit production:	411.21 LCY/hr	
Adjusted fleet production:	411.21 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$1.037/LCY

Total job time:	18.75 Hours
Total job cost:	\$7,997

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SCRAPER TEAM WORK

Site: Urie Gravel Pit	Pe	rmit Action:	2023	Perr	mit/Job#: <u>M200</u>	9038
PROJECT IDENT	IFICATION					
Task #: 02A	State:	Colorado		Abbrev	viation: None	
Date: $\frac{8/1}{202}$. User: ACY	3 County:	Rio Blanc	20	Fil	ename: <u>M038-</u>	02a
A gency or or	rganization name: D	PMS				
rigency of of						
HOURLY EQUIP	MENT_		COSTSI	hift basis: <u>1 per d</u>	ay	
		Eauipme	ent Description			
	-Scrape	er: Cat 627	7G			
Suppor	-Doze	er: NA				
Suppor	-Dump Are	a: NA				
Road Main	ntenance – Motor Grade	er: NA				
	-Water Truc	k: NA				
Cost Breakdown:	Scraper Work Te	am	Support Equir	oment	Maintenance	Equipment
	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water Ti
%Utilization-machine:	100	NA	NA	NA	NA	
Ownership cost/hour:	\$230.18	NA	NA	NA	NA	
Operating cost/hour:	\$281.21	NA	NA	NA	NA	
%Utilization-ripper:	NA	NA	NA	NA	NA	
Ripper own. cost/hour:	NA	NA	NA	NA	NA	
Ripper op. cost/hour:	NA	NA	NA	NA	NA	
Operator cost/hour:	\$30.90	NA	NA	NA	NA	
Unit Subtotals:	\$542.29	NA	NA	NA	NA	
Number of Units:	1	0	0	0	0	* • • • •
Group Subtotals:	Work: S	\$542.29	Support:	\$0.00	Maint:	\$0.00
Ripper own. cost/hour: Ripper op. cost/hour: Operator cost/hour: Unit Subtotals: Number of Units: Group Subtotals: Total work team cost/ MATERIAL QUA	NA NA \$30.90 \$542.29 1 Work: \$ hour: \$542.29 1 Work: \$ hour: \$542.29	NA NA NA NA 0 \$542.29	NA NA NA NA 0 Support:	NA NA NA NA 0 \$0.00	NA NA NA NA 0 Maint:	
Initial volume:	1,670	_ CCY	Swell fact	tor: <u>1.215</u>		
Loose volume:	2,029	LCY				
Source of	ce of estimated volume f estimated swell factor	: <u>Approx.</u> : Cat Han	2.07 ac. 6" depth dbook			
HOURLY PRODU	UCTION					
			Scraper Bo	owl (volume) Basi	is:	
Material weight:	1,600 lbs/LCY		Struck	Volume: 15.70	L	CY
Material description:	Top Soil		Heaped `	Volume: 22.00	L	CY
Rated Payload:	52,800 pounds		Average	Volume: <u>18.85</u>	L	CY
Material weight: Material description: Rated Payload: Payload Capacity:	1,600 lbs/LCY Top Soil 52,800 pounds 33.00 LCY		<u>Scraper Bo</u> Struck V Heaped V Average V Adjusted C	Sowie (volume) Basic Volume: 15.70 22.00 Volume: 22.00 18.85 Capacity: 18.85 18.85	is: Lu Lu Lu	CY CY CY CY

<u>0.70</u> Minutes

<u>0.60</u> Minutes

Cycle Time:

Scraper Loading Time: Maneuver and Spread Time:

Job Condition Correction:

Site Altitude: 5200 feet

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

Travel Time:

Road Condition: Soft, rutted dirt, no maintenance or water, 4" tire penetration 8.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	750.00	0.00	8.00	8.00	1381	0.59

Haul Time: **0.59** minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	750.00	0.00	8.00	8.00	2202	0.44
				Return Time:	0.44	minutes
			Total Scrape	r team cycle time:	2.33	minutes
			Adjusted f	for job conditions:	402.89	LCY/Hour
			Selected Nu	mber of Scrapers:	1	Scraper(s)
	Adjuste	d single scrap	per team (unit) h	ourly production:	402.89	LCY/Hour
	Adjusted n	nultiple scrap	er team (fleet) h	ourly production:	402.89	LCY/Hour
Optima	Unadjusted unit pro I Number of Scrapers pe	duction/hour r push dozer	: 485.41	LCY/Hour		
JOB TI	ME AND COST					
Fleet	size: 1	Team(s)	Т	otal job time:	5.04	Hours

Unit cost: \$1.346 /LCY

Total job cost: \$2,731

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BULLDOZER WORK

Task description:	Grade tra	insported topsoil or	ı pit slopes		
: Urie Gravel Pit		Permit Action:	2023	Permit/Job#:	M2009038
PROJECT IDENT	IFICATION				
Task #: 02B		State: Colorado		Abbreviation:	None
Date: 8/1/202	3 Co	ounty: Rio Blanco	0	Filename:	M038-02b
User: ACY		·			
Agency or or	rganization name	: DRMS			
HOURLY EQUIP	MENT COST				
Basic Machine:	Cat D8T - 8SU				
Horsepower:	310				
Blade Type:	Semi-Universal				
Attachment:	NA				
Shift Basis:	l per day				
Data Source:	(CRG)				
Cost Breakdown:					
			Utilization %		
Ownership Cost/Hou	ır:	\$241.38	NA		
Operating Cost/Hou	ır:	\$143.92	100		
Ripper own. Cost/Hou	ır:	\$0.00	NA		
Linnan on L'oct/Los	ar:	\$0.00	0		
Ripper op. Cost/Hot					
Operator Cost/Hot	ur:	\$41.30	NA		
Operator Cost/Hou Total unit Cost/Hour:	ur:	\$41.30	NA		
Operator Cost/Hou Total unit Cost/Hour: Total Fleet Cost/Hour	str: \$426.60 \$ 426.60	\$41.30	NA		
Operator Cost/Hou Total unit Cost/Hour: Total Fleet Cost/Hour	ur: \$426.60 \$ 426.60	\$41.30	NA		
Operator Cost/Hou Total unit Cost/Hour: Total Fleet Cost/Hour	nr: \$426.60 \$ 426.60 NTITIES	\$41.30	NA		
Operator Cost/Hou Total unit Cost/Hour: Total Fleet Cost/Hour MATERIAL QUA Initial Volume: _2	ur: \$426.60 \$426.60 NTITIES 2,029	\$41.30	NA		
Nipper op. Cost/Hot Operator Cost/Hour Total unit Cost/Hour Total Fleet Cost/Hour MATERIAL QUA Initial Volume: 2 Swell factor: 1	ur: \$426.60 \$ 426.60 NTITIES 2,029 .000	\$41.30	NA		
Nipper op. Cost/Hot Operator Cost/Hour Total unit Cost/Hour Total Fleet Cost/Hour MATERIAL QUA Initial Volume: 2 Swell factor: 1 Loose volume: 2	ur: \$426.60 \$426.60 NTITIES 2,029 .000 2,029 LCY	\$41.30	NA		
Nipper op. Cost/Hot Operator Cost/Hour Total unit Cost/Hour Total Fleet Cost/Hour MATERIAL QUA Initial Volume: 2 Swell factor: 1 Loose volume: 2 Source of estimated volume 2	ur:	\$41.30 \$41.30 analysis for the second seco	NA		
Nipper op. Cost/Hot Operator Cost/Hour Total unit Cost/Hour Total Fleet Cost/Hour MATERIAL QUA Initial Volume: 2 Swell factor: 1 Loose volume: 2 Source of estimated volume 2 Source of estimated sy 1 HOURLY PRODU 1	ur:	\$41.30 \$41.30 at Handbook	NA		
Nipper op. Cost/Hot Operator Cost/Hot Total unit Cost/Hour: Total Fleet Cost/Hour MATERIAL QUA Initial Volume: 2 Swell factor: 1 Loose volume: 2 Source of estimated vo 5 Source of estimated sv 4 HOURLY PRODU 4 Average push distance 4	ur:	\$41.30 \$41.30 ransported volume at Handbook eet	NA		
Nipper op. Cost/Hot Operator Cost/Hot Total unit Cost/Hour: Total Fleet Cost/Hour MATERIAL QUA Initial Volume: 2 Swell factor: 1 Loose volume: 2 Source of estimated volume: 2 Source of estimated sy 4 HOURLY PRODU 4 Average push distance 1 Main distance 1 Loose volume: 2	ur:	\$41.30 \$41.30 ransported volume at Handbook eet 7.1 LCY/hr	NA		
Nipper op. Cost/Hot Operator Cost/Hot Total unit Cost/Hour: Total Fleet Cost/Hour MATERIAL QUA Initial Volume: 2 Swell factor: 1 Loose volume: 2 Source of estimated volume 2 Source of estimated sy 4 HOURLY PRODU 4 Average push distance 9 Materials consistency 4		\$41.30 \$41.30 at Handbook eet 7.1 LCY/hr Loose stockpile 1.2	NA		
Nipper op. Cost/Hot Operator Cost/Hour Total unit Cost/Hour Total Fleet Cost/Hour MATERIAL QUA Initial Volume: 2 Swell factor: 1 Loose volume: 2 Source of estimated vo Source of estimated vo Source of estimated vo Source of estimated vo Materials consistency Materials consistency Average push gradien Average site altitude:	ar: \$426.60 \$426.60 NTITIES 2,029 .000 2,029 LCY olume: Tr well factor: Ca JCTION e: 75 fe oduction: 1,01 description:	\$41.30 \$41.30 \$ at Handbook eet 7.1 LCY/hr Loose stockpile 1.2	NA		
Nipper op. Cost/Hot Operator Cost/Hou Total unit Cost/Hour Total Fleet Cost/Hour MATERIAL QUA Initial Volume: 2 Swell factor: 1 Loose volume: 2 Source of estimated volume: 2 Source of estimated volume: 2 Average push distance 0 Materials consistency 0 Average push gradien 0 Average site altitude: 0 Material weight: 0	ur: \$426.60 \$426.60 NTITIES 2,029 .000 2,029 .000 2,029 .000 2,029 .000 2,029 .000 2,029 .000 2,029 .000 2,029 .000 2,029 .000 2,029 .000 2,029 .000 2,029 .000 2,029 .000 .02,029 .020 e: 75 fe .04uction: 1,01 description:	\$41.30 \$41.30 \$ 41.30	NA		
Nipper op. Cost/Hot Operator Cost/Hou Total unit Cost/Hour Total Fleet Cost/Hour MATERIAL QUA Initial Volume: 2 Swell factor: 1 Loose volume: 2 Source of estimated volume: 2 Source of estimated volume: 2 Average push distance 0 Materials consistency 0 Average push gradien: 0 Average site altitude: 0 Material weight: 0 Weight description: 0		\$41.30 \$41.30 transported volume at Handbook eet 7.1 LCY/hr Loose stockpile 1.2 .CY	NA		
Nipper op. Cost/Hot Operator Cost/Hou Total unit Cost/Hour Total Fleet Cost/Hour MATERIAL QUA Initial Volume: 2 Swell factor: 1 Loose volume: 2 Source of estimated volume: 2 Source of estimated volume: 2 Source of estimated volume: 2 Average push distance 0 Materials consistency 0 Average push gradient 0 Average site altitude: 0 Material weight: 0 Weight description: 0 Job Condition Correct 0		\$41.30 \$41.30 and the set of th	NA		
Nipper op. Cost/Hot Operator Cost/Hou Total unit Cost/Hour: Total Fleet Cost/Hour MATERIAL QUA Initial Volume: 2 Swell factor: 1 Loose volume: 2 Source of estimated volume: 2 Source of estimated volume: 2 Source of estimated volume: 2 Average push distance 0 Unadjusted hourly prodimation 4 Average push gradient 4 Average site altitude: 1 Material weight: 1 Weight description: 1 Job Condition Correct 0 Operator 0	ur: \$426.60 \$426.60 NTITIES 2,029 .000 2,029 .000 2,029 .000 2,029 .000 2,029 .000 2,029 .000 2,029 .000 2,029 .000 2,029 .000 2,029 .000 2,029 .000 2,029 .000 2,029 .000 2,029 .000 .027 .028 .029 .0200 .030 .040 .05,200 .05,200 .05,200 .05,200 .05,200 .05,200 .05,200 .05,200 .05,200 .05,200 .05,200 .05,200 .05,200	\$41.30 state="block-state="blo	NA		
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Nipper op. Cost/Hot Operator Cost/Hour Total unit Cost/Hour: Total Fleet Cost/Hour MATERIAL QUA Initial Volume: 2 Swell factor: 1 Loose volume: 2 Source of estimated volume: 3 HOURLY PRODU Average push distance Average push distance 9 Materials consistency 4 Average push gradien 4 Average site altitude: 9 Material weight: 4 Weight description: 1 Job Condition Correct 0 Operation 1 Material construction 1	ur: \$426.60 \$426.60 \$426.60 NTITIES 2,029 .000 2,029 .000 2,029 .000 2,029 .000 2,029 .000 2,029 .000 2,029 .000 2,029 .000 2,029 .000 2,029 .000 2,029 .000 .02,029 .000 .02,029 .020 .020 .01 description:	\$41.30 state in the second s	NA		

Task # 02B

Job efficience	cy: 0.830	(1 SHIFT/DAY)
Spoil pi	le: 0.800	(FND-RF)
Push gradie	nt: 1.000	(CAT HB)
Altitud	le: 1.000	(CAT HB)
Material Weig	ht: 1.438	(CAT HB)
Blade typ	be: 1.000	(PAT)
Net correction	on: 0.8593	
Adjusted unit production:	873.99 LCY/hr	
Adjusted fleet production:	873.99 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.488/LCY
Total job times	1 21 Hours

l'otal job time:	2.32 Hours
Total job cost:	\$990

BULLDOZER RIPPING WORK

	Task description:	Rip stockpile area			
Site:	Urie Gravel Pit	Permit A	ction: 2023	Permit/Jo	ob#: <u>M2009038</u>
	PROJECT IDE	NTIFICATION			
	Task #: 03A	State: Col	orado	Abbreviatio	n: None
	Date: $\frac{8/1/2}{4CN}$	2023 County: Rio	Blanco	Filenam	ne: M038-03a
		r organization name: DPMS			
	Agency c	In organization name. DRIVIS			
	HOURLY EQU	<u>IPMENT COST</u>			
	Basic M Ripper Atta	achine: Cat D8T - 8SU		Horsepower: Shift Basis:	310 1 per day
	Tupper ritu			Data Source:	(CRG)
	Cost Breakdown:				
			¢241.29	Utilization %	
		Ownership Cost/Hour:	\$241.38 \$143.92	<u> </u>	
	Ripper	Ownership Cost/Hour:	\$14.11	NA	
	Rippe	or Operating Cost/Hour:	\$7.45	100	
		Operator Cost/Hour:	\$41.30	NA	
		Total Unit Cost/Hour:	\$448.16		
		Total Fleet Cost/Hour:	\$448.16		
	MATERIAL Q	JANTITIES	Selected estimating	method: Area	
	Alternate Methods				
mia	NA	- Bank Vol		PCV	ΝA
area:	8.00	acres Rip Depth	(ft): 2.00	Volume: 25,813	BCY of
		Source of estimated quantity:	Current conditions		
	HOUKLYPRO	DUCTION			
	<u>Seismic:</u>	Colourie Malesiter	NT A	frational	
		Seismic velocity:	INA	leet/second	
	Area:			6 /	
		Average Ripping Depth:	2.56	feet/pass	
		Average Ripping Width.	300.00	feet/pass	
		Average Dozer Speed:	88.00	feet/minute	
		Average Maneuver Time:	0.25	minutes/pass	
		Production per unit area:	0.800	acres/hour	
	Job Condition Cor	rection Factors			
	Una	ljusted Hourly Unit Production:	0.800	Acres/hr	
		Site Altitude:	5.200	feet	
		Altitude Adj:	1.00	(CAT HB)	
		Job Efficiency:	0.83	(1 shift/day)	
		Net Correction:	0.83	multiplier	
		Adjusted Hourly Unit Produ	uction: 0.66	Acres/hr	
		Adjusted Hourly Fleet Produ	action: 0.66	Acres/hr	
	JOB TIME AN	<u>D COST</u>			
	Fleet size:	1 Grader(s)	Total job tin	ne: 12.05	Hours
			_ • • • · · · J • • • · · ·		

SCRAPER TEAM WORK

Site: Urie Gravel Pit	Pe	ermit Action:	2023	Perr	nit/Job#: <u>M</u>	2009038	
PROJECT IDEN	TIFICATION						
Task #: 04A	State:	Colorado		Abbrev	viation: Noi	ne	
Date: 8/1/202	23 County:	Rio Blanc	20	File	ename: M0	38-04a	
User: <u>ACY</u>							
Agency or o	organization name: D	ORMS					
HOURLY EQUIP	<u>MENT</u>		COSTS	hift basis: <u>1 per da</u>	ay		
	-Scrape	Equipme er: Cat 627	ent Description				
	-Doze	er: NA	0				
Suppo	rt Equipment -Load Are	ea: NA					
Road Ma	-Dump Are	er: NA					
	-Water Truc	ck: NA					
Cost Brookdown			Summert Fault	nmant	Maintana		.+
<u>Cost Breakdown</u> :	Scraper work Te	Dozer	Load Area	Dump Area	Motor Grad	er Water	ι Γrι
%Utilization-machine:	100	NA	NA	NA	N	IA	
Ownership cost/hour:	\$230.18	NA	NA	NA	N	IA	
Operating cost/hour:	\$281.21	NA	NA	NA	N	IA	
%Utilization-ripper:	NA	NA	NA	NA	N	IA	
Ripper own. cost/hour:	NA	NA	NA	NA	N	IA	
Ripper op. cost/hour:	NA	NA	NA	NA	N	IA	
Operator cost/hour:	\$30.90	NA	NA	NA	N	IA	
Unit Subtotals:	\$542.29	NA	NA	NA	N	IA	
Number of Units:	1	0	0	0		0	
Group Subtotals:	Work: S	\$542.29	Support:	\$0.00	Main	nt: \$0.0)0
Total work team cost MATERIAL QUA Initial volume:	/hour: <u>\$542.29</u> ANTITIES 6,453	ССҮ	Swell fac	tor: 1.215			
Loose volume:	7,840	LCY					
Sou Source of	rce of estimated volume of estimated swell factor	e: <u>Approx.</u> r: Cat Hand	8 ac. 6" depth dbook				
HOURLY PROD	UCTION						
			Scraper B	owl (volume) Basi	<u>s:</u>		
Material weight: Material description:	1,600 lbs/LCY Top Soil		Struck Heaped	Volume: <u>15.70</u> Volume: <u>22.00</u>		LCY LCY	
Rated Payload:	52,800 pounds		Average	Volume: 18.85		LCY	
Payload Capacity:	33.00 LCY		Adjusted C	Capacity: 18.85		LCY	

<u>0.70</u> Minutes

<u>0.60</u> Minutes

Cycle Time:

Scraper Loading Time: Maneuver and Spread Time:

Job Condition Correction:

Site Altitude: 5200 feet

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

Travel Time:

Road Condition: Soft, rutted dirt, no maintenance or water, 4" tire penetration 8.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	450.00	0.00	8.00	8.00	1381	0.37

Haul Time: **0.37** minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	450.00	0.00	8.00	8.00	2202	0.31
				Return Time:	0.31 1	ninutes
			Total Scraper	team cycle time:	1.98	minutes
			Adjusted for	or job conditions:	474.11	LCY/Hour
			Selected Nu	mber of Scrapers:	1	Scraper(s)
	Adjusted	d single scrap	er team (unit) h	ourly production:	474.11	LCY/Hour
	Adjusted m	ultiple scrap	er team (fleet) h	ourly production:	474.11	LCY/Hour
Optimal	Unadjusted unit proo	duction/hour: r push dozer:	571.21	LCY/Hour		
JOB TI	ME AND COST					

Fleet size:	1	Team(s)	Total job time:	16.54	Hours
Unit cost:	\$1.144	/LCY	Total job cost:	\$8,968	

BULLDOZER WORK

Task description:	Grade transp	or icu topson on			
Urie Gravel Pit		Permit Action:	2023	Permit/Job#:	M2009038
PROJECT IDENT	TIFICATION				
Task #: 04B	Sta	te: Colorado		Abbreviation:	None
Date: 8/1/202	3 Count	ty: Rio Blanco)	Filename:	M038-04b
User: ACY				-	
Agency or or	rganization name: _	DRMS			
HOURLY EQUIP	MENT COST				
Basic Machine:	Cat D8T - 8SU				
Horsepower:	310				
Blade Type:	Semi-Universal				
Attachment:	NA 1 non desi				
Dete Source:	$\frac{1 \text{ per day}}{(CPC)}$				
Data Source:	(CRG)				
Cost Breakdown:		1			
		AA A A A	<u>Utilization %</u>		
Ownership Cost/Hou	1r:	\$241.38	NA 100		
Operating Cost/Hou	1r:	\$143.92			
Ripper own. Cost/Hou Dipper on Cost/Hou		\$0.00			
Ripper op. Cost/1100		\$0.00	0		
On enstein Cast/II.		¢ 41 20	27.4		
Operator Cost/Hou Total unit Cost/Hour: Total Fleet Cost/Hour MATERIAL OUA	ur: \$426.60 \$ 426.60 NTITIES	\$41.30	NA		
Operator Cost/Hou Total unit Cost/Hour: Total Fleet Cost/Hour MATERIAL QUA Initial Volume: 7 Swell factor: 1	ur: \$426.60 \$426.60 NTITIES \$40 .000	\$41.30	NA		
Operator Cost/Hou Total unit Cost/Hour: Total Fleet Cost/Hour MATERIAL QUA Initial Volume: 7 Swell factor: 1 Loose volume: 7	ur: \$426.60 \$426.60 NTITIES 7,840 .000 7,840 LCY	\$41.30	NA		
Operator Cost/Hou Total unit Cost/Hour: Total Fleet Cost/Hour <u>MATERIAL QUA</u> Initial Volume: 7 Swell factor: 1 Loose volume: 7 Source of estimated vo	ur: \$426.60 \$426.60 NTITIES 7,840 .000 7,840 LCY olume: Trans	\$41.30	NA		
Operator Cost/Hou Total unit Cost/Hour: Total Fleet Cost/Hour <u>MATERIAL QUA</u> Initial Volume: 7 Swell factor: 1 Loose volume: 7 Source of estimated vo Source of estimated so	ur: \$426.60 \$426.60 NTITIES \$40 .000 \$40 .000 \$40 LCY olume: Trans well factor: Cat H	\$41.30	NA		
Operator Cost/Hou Total unit Cost/Hour: Total Fleet Cost/Hour MATERIAL QUA Initial Volume: 7 Swell factor: 1 Loose volume: 7 Source of estimated vo Source of estimated so	ur:	\$41.30	NA		
Operator Cost/Hou Total unit Cost/Hour: Total Fleet Cost/Hour MATERIAL QUA Initial Volume: 7 Swell factor: 1 Loose volume: 7 Source of estimated vo Source of estimated so HOURLY PRODU	ur:	\$41.30	NA		
Operator Cost/Hou Total unit Cost/Hour: Total Fleet Cost/Hour MATERIAL QUA Initial Volume: 7 Swell factor: 1 Loose volume: 7 Source of estimated vo Source of estimated so HOURLY PRODU Average push distance Unadjusted hourly pro	ur: \$426.60 \$426.60 NTITIES \$440 .000 \$40 .000 \$40 .000 \$40 .000 \$40 .000 .0	\$41.30 ported volume andbook	NA		
Operator Cost/Hou Total unit Cost/Hour: Total Fleet Cost/Hour MATERIAL QUA Initial Volume: 7 Swell factor: 1 Loose volume: 7 Source of estimated vo Source of estimated vo Source of estimated sw HOURLY PRODU Average push distance Unadjusted hourly pro	ur: \$426.60 \$426.60 NTITIES ',840 .000 ',840 LCY olume: Trans well factor: Cat H JCTION e: 75 feet oduction: 1,017.1 description: Loo	\$41.30 ported volume andbook LCY/hr pse stockpile 1.2	NA		
Operator Cost/Hou Total unit Cost/Hour: Total Fleet Cost/Hour MATERIAL QUA Initial Volume: 7 Swell factor: 1 Loose volume: 7 Source of estimated vo Source of estimated vo Source of estimated sw HOURLY PRODU Average push distance Unadjusted hourly pro Materials consistency Average push gradien Average push gradien	3426.60 : $$426.60$ NTITIES $7,840$.000 $7,840$.000 $7,840$.000 $7,840$.000 $7,840$.000 $7,840$.000 $7,840$.000 $7,840$ LCY olume: Trans Cat H JCTION e: 75 feet oduction: 1,017.1 description: Loc t: 0 % 5 200 feet	\$41.30 ported volume andbook LCY/hr pose stockpile 1.2	NA		
Operator Cost/Hou Total unit Cost/Hour: Total Fleet Cost/Hour MATERIAL QUA Initial Volume: 7 Swell factor: 1 Loose volume: 7 Source of estimated vo Source of estimated vo Source of estimated sw HOURLY PRODU Average push distance Unadjusted hourly pro Materials consistency Average push gradien Average site altitude:	ur: \$426.60 \$426.60 NTITIES 7,840 .000 7,840 LCY olume: Trans well factor: Cat H JCTION e: 75 feet oduction: 1,017.1 description: Loc t: 0 % 5,200 feet	\$41.30 ported volume andbook LCY/hr pse stockpile 1.2	NA		
Operator Cost/Hou Total unit Cost/Hour: Total Fleet Cost/Hour MATERIAL QUA Initial Volume: 7 Swell factor: 1 Loose volume: 7 Source of estimated vo Source of estimated vo Source of estimated sw HOURLY PRODU Average push distance Unadjusted hourly pro Materials consistency Average push gradien Average site altitude: Material weight:	ur: \$426.60 \$426.60 NTITIES 7,840 .000 7,840 LCY olume: Trans well factor: Cat H JCTION e: 75 feet oduction: 1,017.1 description: Loc t: 0 %	\$41.30 ported volume andbook LCY/hr pse stockpile 1.2			
Operator Cost/Hou Total unit Cost/Hour: Total Fleet Cost/Hour MATERIAL QUA Initial Volume: 7 Swell factor: 1 Loose volume: 7 Source of estimated vo Source of estimate	3426.60 : \$426.60 NTITIES 7,840 .000 340 LCY olume: Trans well factor: Cat H JCTION e: 75 feet oduction: 1,017.1 description: Loc t: 0 % 5,200 feet 1,600 lbs/LCY Top Soil	\$41.30 ported volume andbook LCY/hr pose stockpile 1.2	NA		
Operator Cost/Hou Total unit Cost/Hour: Total Fleet Cost/Hour MATERIAL QUA Initial Volume: 7 Swell factor: 1 Loose volume: 7 Source of estimated vo Source of estimated vo Source of estimated so HOURLY PRODU Average push distance Unadjusted hourly pro Materials consistency Average push gradien Average site altitude: Material weight: Weight description: Job Condition Correct	ur: \$426.60 \$426.60 NTITIES 2,840 .000 2,840 LCY olume: Trans well factor: Cat H JCTION e: 75 feet oduction: 1,017.1 description: Loc t: 0 % 5,200 feet 1,600 lbs/LCY Top Soil tion Factor	\$41.30 ported volume andbook LCY/hr bse stockpile 1.2 			
Operator Cost/Hou Total unit Cost/Hour: Total Fleet Cost/Hour MATERIAL QUA Initial Volume: 7 Swell factor: 1 Loose volume: 7 Source of estimated vo Source of estimated vo Source of estimated so HOURLY PRODU Average push distance Unadjusted hourly pro Materials consistency Average push gradien Average site altitude: Material weight: Weight description: Job Condition Correct Operat	ur: \$426.60 \$426.60 \$426.60 \$426.60 NTITIES ',840 .000 ',840 LCY olume: Trans well factor: Cat H JCTION e: 75 feet oduction: 1,017.1 description: Loc t: 0 % _5,200 feet	\$41.30 ported volume andbook LCY/hr bse stockpile 1.2 0.750 1 200			
Operator Cost/Hou Total unit Cost/Hour: Total Fleet Cost/Hour MATERIAL QUA Initial Volume: 7 Swell factor: 1 Loose volume: 7 Source of estimated vo Source of estimated vo Source of estimated sw HOURLY PRODU Average push distance Unadjusted hourly pro Materials consistency Average push gradien Average site altitude: Material weight: Weight description: Job Condition Correct Operar Material con	y \$426.60 y \$426.60 NTITIES \$426.60 y \$40 .000 .000 y \$40 .000 .000 y \$40 .000 .000 y \$40 .000 .000 y .000 <td>\$41.30 ported volume andbook LCY/hr pose stockpile 1.2 0.750 1.200 1.000 1.000 </td> <td>NA</td> <td></td> <td></td>	\$41.30 ported volume andbook LCY/hr pose stockpile 1.2 0.750 1.200 1.000 1.000 	NA		

Job efficience	cy: 0.830	(1 SHIFT/DAY)
Spoil pi	le: 0.800	(FND-RF)
Push gradie	nt: 1.000	(CAT HB)
Altitud	le: 1.000	(CAT HB)
Material Weig	ht: 1.438	(CAT HB)
Blade typ	be: 1.000	(PAT)
Net correction	on: 0.8593	
Adjusted unit production:	873.99 LCY/hr	
Adjusted fleet production:	873.99 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.488/LCY

Total job time:	8.97 Hours
Total job cost:	\$3,827

REVEGETATION WORK

Task descri	ption:	Revegetate topsoiled areas	
ite: Urie Gravel Pit		Permit Action: 2023	Permit/Job#: M2009038
PROJECT	IDENTIFI	CATION	
Task #:	05A	State: Colorado	Abbreviation: None
Date:	8/1/2023	County: Rio Blanco	Filename: M038-05a

FERTILIZING

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Materials	
			Cost/Acre	\$0.00

Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

TILLING

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$112.82
Total Tilling Cost/Acre	\$112.82

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Nespar	6.00	19.42	\$53.25
Sand Dropseed	0.30	35.81	\$2.93
Bottlebrush Squirreltail	4.50	19.83	\$73.01
Sandberg Bluegrass - VNS	1.50	31.85	\$12.60
Galleta	5.50	20.08	\$122.93
Western Wheatgrass - Rosanna	8.00	20.20	\$46.00
Totals Seed Mix	25.80	147.20	\$310.71

Application

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

MULCHING and MISCELLANEOUS

Materials

	Units /			
Description	Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - 2,4D @ 1.0 pt/ac	1.00	ACRE	\$4.01	\$4.01
Herbicide - Banvel @ 1.0 pt/ac	1.00	ACRE	\$8.09	\$8.09
Herbicide - Glyphosate (Journey)@ 1.0 pt/ac	1.00	ACRE	\$3.75	\$3.75
Straw, delivered {MEANS 31 25 14.16 1200}	3.00	TON	\$429.79	\$1,289.36
Total Mulch Materials Cost/Acre				\$1,305.21

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$74.46
Power mulcher (MEANS 32 91 13.16 0350)		\$147.67
Weed spray, hand, aquatic area, nox. [DMG]		\$183.16
Weed spray, truck, non-aquatic areas, ann. [DMG]		\$22.81
	Total Mulch Application Cost/Acre	\$428.10

NURSERY STOCK PLANTING

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

Estimat *Selected Replanti	No. of Acres: ed Failure Rate: ng Work Items:	12.37 50% TILLING,SEEDIN	Cost /Acre: Cost /Acr <u>e*:</u> G,MULCHING	\$2,388.84 \$2,388.84
Initial Job Cost: Reseeding Job Cost: Total Job Cost: Job Hours:	\$29,549.95 \$14,774.98 \$44,325 20.00			

REVEGETATION WORK

Task descr	ption:	Revegetate Failure 50% Pha	se 1		
ite: Urie Gr	avel Pit	Permit Action:	2023	Permit/Job	#: <u>M2009038</u>
PROJECT	IDENTIFI	CATION			
Task #:	05B	State: Colorado		Abbreviation:	None
Date:	8/1/2023	County: Rio Blanco		Filename:	M038-05b
Lager	ACY				

FERTILIZING

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Materials	
			Cost/Acre	\$0.00

Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

TILLING

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$112.82
Total Tilling Cost/Acre	\$112.82

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Nespar	6.00	19.42	\$53.25
Sand Dropseed	0.30	35.81	\$2.93
Bottlebrush Squirreltail	4.50	19.83	\$73.01
Sandberg Bluegrass - VNS	1.50	31.85	\$12.60
Galleta	5.50	20.08	\$122.93
Western Wheatgrass - Rosanna	8.00	20.20	\$46.00
Totals Seed Mix	25.80	147.20	\$310.71

Application

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

MULCHING and MISCELLANEOUS

Materials

	Units /			
Description	Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - 2,4D @ 1.0 pt/ac	1.00	ACRE	\$4.01	\$4.01
Herbicide - Banvel @ 1.0 pt/ac	1.00	ACRE	\$8.09	\$8.09
Herbicide - Glyphosate (Journey)@ 1.0 pt/ac	1.00	ACRE	\$3.75	\$3.75
Straw, delivered {MEANS 31 25 14.16 1200}	3.00	TON	\$429.79	\$1,289.36
Total Mulch Materials Cost/Acre				\$1,305.21

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$74.46
Power mulcher (MEANS 32 91 13.16 0350)		\$147.67
Weed spray, hand, aquatic area, nox. [DMG]		\$183.16
Weed spray, truck, non-aquatic areas, ann. [DMG]		\$22.81
	Total Mulch Application Cost/Acre	\$428.10

NURSERY STOCK PLANTING

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

No. of Acres:	2.5	Cost /Acre:	\$2,388.84
Estimated Failure Rate:	0%	Cost /Acre*:	\$2,388.84
*Selected Replanting Work Items:	TILLING,SEEDIN	G,MULCHING	

Initial Job Cost:	\$5,972.10
Reseeding Job Cost:	\$0.00
Total Job Cost:	\$5,972
Job Hours:	8.00

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description	: Ini	tial Mobilization					
: Urie Gravel I	Drie Gravel Pit Permit Action: 2023		F	Permit/Job#: <u>M2009038</u>			
PROJECT IDE	INTIFICATI	ON					
Task #: 06	A	State: Co	olorado		Abbre	viation: None	
Date: 8/1/2023 County: Rio Blanco User: ACY			Fi	lename: M038	-05a		
Agency	or organization	n name: DRMS					
EQUIPMENT '	TRANSPOR	<u>T RIG COST</u>					
					Shift bas	sis: 1 per da	y
				C	Cost Data Sour	ce: CRG Da	ta
True	ck Trailer Desc	ription: G	ENERIC FOLL	400 HP DING GOO FRAILER ((2ND HALF, 2 SENECK, DR (25T, 50T, AN	2006) OP DECK EQU ID 100T)	IPMENT
Cost Breakdown:							
Available Rig (Capacities	0-25 Tons	26-50 Tons	51+	Tons		
Ownershi	p Cost/Hour:	\$20.26	\$36.04	\$4	7.05		
Operatin	g Cost/Hour:	\$39.51	\$76.08	\$8	2.85		
Operato	or Cost/Hour:	\$22.52	\$22.52	\$2	2.52		
Helpe	er Cost/Hour:	\$0.00	\$23.53	\$2	3.53		
Total Un	it Cost/Hour:	\$82.29	\$158.17	\$17	75.95		
NON ROADAH	BLE EQUIPN	MENT:					
Machine	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return Trip	DOT Permit
Description	Unit	Cost/hr/ unit	Cost/hr/uni	Size	Cost/hr/	Cost/hr/ fleet	Cost/ fleet
	(TONS)		t		fleet	+	
Cat D8T - 8SU	53.08	\$255.49	\$175.95	1	\$431.44	\$175.95	\$500.00
Cat 627G	41.80	\$230.18	\$158.17	1	\$388.35	\$158.17	\$500.00
Drill/Broadcast Seeder with Tractor	25.00	\$6.73	\$82.29	1	\$89.02	\$82.29	\$250.00
Power Mulcher (Bowie LD-90)	6.00	\$25.94	\$82.29	1	\$108.23	\$82.29	\$250.00
						1 100 -0	

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/	Fleet Size	Haul Trip	Return Trip Cost/hr/ fleet
	umit		Cost/III/ fieet	eost in/ neet
Flatbed Truck, 4x2, 30K GVW	\$91.58	1	\$91.58	\$91.58
Light Duty Pickup, 4x4, 3/4 T.	\$43.51	2	\$87.02	\$87.02
		Subtotals:	\$178.60	\$178.60

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	RANGELY	
Total one-way travel distance:	2.00	miles
Average Travel Speed:	25.00	mph
Total Non-Roadable Mob/Demob Cost *	\$5,276.60	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$28.58	

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.08	0.08
Return Time (Hours):	0.08	0.08
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.16	0.16

JOB TIME AND COST

Total job time: 2.32 Hours

Total job cost: \$5,305

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task descrip	otion: Ini	ual wiodilization					
te: Urie Gravel Pit		Permit Action: 2023			Permit/Job#: <u>M2009038</u>		
PROJECT	IDENTIFICAT	ON					
Task #:	06B	State: Co	olorado		Abbre	eviation: None	
Date: User:	8/1/2023 ACY	County: <u>Ri</u>	County: Rio Blanco		Fi	ilename: M038	3-06b
Age	ency or organizatio	n name: DRMS					
EQUIPME	NT TRANSPOR	<u>T RIG COST</u>					
					Shift ba	sis: <u>1 per da</u>	ıy
					Cost Data Sou	rce: CRG Da	ita
r	Truck Tractor Desc	cription: GENE	RIC ON-HIGH	WAY TR	UCK TRACTO	OR, 6X4, DIESEI	L POWERED,
				400 HP	(2ND HALF,	2006)	
	Truck Trailer Desc	cription: G	ENERIC FOLD	ING GOO	DSENECK, DF	ROP DECK EQU	IPMENT
	Truck Trunci Dest	1				X70 4 0 0 000	
		-	7	RAILER	(25T, 50T, AN	ND 100T)	
Cost Breakdo	wn:]	TRAILER	(25T, 50T, AN	ND 100T)	
Cost Breakdo Available R	wn: Rig Canacities	0-25 Tons	26-50 Tons	TRAILER	(25T, 50T, A)	ND 100T)	
Cost Breakdo Available R	wn: Rig Capacities	0-25 Tons \$20.26	7 26-50 Tons \$36.04	TRAILER	(25T, 50T, AN + Tons 47.05	ND 100T)	
Cost Breakdo Available R Owne Oper	wn: Rig Capacities ership Cost/Hour: rating Cost/Hour:	0-25 Tons \$20.26 \$39.51	26-50 Tons \$36.04 \$76.08	<u>FRAILER</u> 51- \$ \$	(25T, 50T, A) + Tons 47.05 82.85	<u>ND 100T)</u>	
Cost Breakdo Available R Owne Oper One	wn: Rig Capacities ership Cost/Hour: rating Cost/Hour: erator Cost/Hour:	0-25 Tons \$20.26 \$39.51 \$22.52	26-50 Tons \$36.04 \$76.08 \$22.52	State 51- \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	(25T, 50T, A) + Tons 47.05 82.85 22.52	<u>ND 100T)</u>	
Cost Breakdo Available R Owne Oper Ope H	wn: Rig Capacities ership Cost/Hour: rating Cost/Hour: erator Cost/Hour: felper Cost/Hour:	0-25 Tons \$20.26 \$39.51 \$22.52 \$0.00	26-50 Tons \$36.04 \$76.08 \$22.52 \$23.53	51- \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	(25T, 50T, A) + Tons 47.05 82.85 22.52 23.53	<u>ND 100T)</u>	
Cost Breakdo Available R Owne Oper Ope H Total	wn: Rig Capacities ership Cost/Hour: rating Cost/Hour: erator Cost/Hour: lelper Cost/Hour: Unit Cost/Hour:	0-25 Tons \$20.26 \$39.51 \$22.52 \$0.00 \$82.29	26-50 Tons \$36.04 \$76.08 \$22.52 \$23.53 \$158.17	S1 \$	(25T, 50T, A) + Tons 47.05 82.85 22.52 23.53 75.95	<u>ND 100T)</u>	
Cost Breakdo Available R Owne Oper Ope H Total	wn: Rig Capacities ership Cost/Hour: erating Cost/Hour: erator Cost/Hour: lelper Cost/Hour: Unit Cost/Hour:	0-25 Tons \$20.26 \$39.51 \$22.52 \$0.00 \$82.29	26-50 Tons \$36.04 \$76.08 \$22.52 \$23.53 \$158.17	S1 \$	(25T, 50T, A) + Tons 47.05 82.85 22.52 23.53 75.95	<u>ND 100T)</u>	
Cost Breakdo Available R Owne Oper Ope H Total	wn: Rig Capacities ership Cost/Hour: rating Cost/Hour: lelper Cost/Hour: Unit Cost/Hour: DABLE EQUIP	0-25 Tons \$20.26 \$39.51 \$22.52 \$0.00 \$82.29 MENT:	26-50 Tons \$36.04 \$76.08 \$22.52 \$23.53 \$158.17	S1 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	(25T, 50T, A) + Tons 47.05 82.85 22.52 23.53 .75.95	<u>ND 100T)</u>	
Cost Breakdo Available R Owne Oper Ope H Total NON ROAI	wn: Rig Capacities ership Cost/Hour: erator Cost/Hour: lelper Cost/Hour: Unit Cost/Hour: DABLE EQUIP	0-25 Tons \$20.26 \$39.51 \$22.52 \$0.00 \$82.29 MENT: Owner ship	26-50 Tons \$36.04 \$76.08 \$22.52 \$23.53 \$158.17	Flaet	(25T, 50T, A) + Tons 47.05 82.85 22.52 23.53 .75.95	ND 100T)	DOT Permit
Cost Breakdo Available R Owne Oper Ope H Total NON ROAI Machine	wn: Rig Capacities ership Cost/Hour: erator Cost/Hour: lelper Cost/Hour: Unit Cost/Hour: DABLE EQUIP! Weight/ Unit	0-25 Tons \$20.26 \$39.51 \$22.52 \$0.00 \$82.29 MENT: Owner ship Cost/br/wit	26-50 Tons \$36.04 \$76.08 \$22.52 \$23.53 \$158.17 Haul Rig Cost/br/uni	Fleet	(25T, 50T, A) + Tons 47.05 82.85 22.52 23.53 75.95 Haul Trip	ND 100T) Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
Cost Breakdo Available R Owne Oper Ope H Total NON ROAI Machine Description	wn: Rig Capacities ership Cost/Hour: rating Cost/Hour: erator Cost/Hour: lelper Cost/Hour: Unit Cost/Hour: DABLE EQUIP! Weight/ Unit (TONS)	0-25 Tons \$20.26 \$39.51 \$22.52 \$0.00 \$82.29 MENT: Owner ship Cost/hr/ unit	26-50 Tons \$36.04 \$76.08 \$22.52 \$23.53 \$158.17 Haul Rig Cost/hr/uni	Fleet Size	(25T, 50T, A) + Tons 47.05 82.85 22.52 23.53 75.95 Haul Trip Cost/hr/ float	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
Cost Breakdo Available R Owne Oper Ope H Total NON ROAI Machine Description	wn: Rig Capacities rrship Cost/Hour: rating Cost/Hour: rating Cost/Hour: lelper Cost/Hour: Unit Cost/Hour: DABLE EQUIP! Weight/ Unit (TONS)	0-25 Tons \$20.26 \$39.51 \$22.52 \$0.00 \$82.29 MENT: Owner ship Cost/hr/ unit \$255.40	26-50 Tons \$36.04 \$76.08 \$22.52 \$23.53 \$158.17 Haul Rig Cost/hr/uni t	Fleet Size	(25T, 50T, A) + Tons 47.05 82.85 22.52 23.53 75.95 Haul Trip Cost/hr/ fleet \$421.44	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
Cost Breakdo Available R Owne Oper Ope H Total NON ROAI Machine Description Cat D8T - 8S	wn: Rig Capacities rship Cost/Hour: rating Cost/Hour: rating Cost/Hour: lelper Cost/Hour: Unit Cost/Hour: DABLE EQUIP! Weight/ Unit (TONS) W 53.08	0-25 Tons \$20.26 \$39.51 \$22.52 \$0.00 \$82.29 MENT: Owner ship Cost/hr/ unit \$255.49 \$20.26	26-50 Tons \$36.04 \$76.08 \$22.52 \$23.53 \$158.17 Haul Rig Cost/hr/uni t \$175.95 \$158.17	Fleet Size	(25T, 50T, A) + Tons 47.05 82.85 22.52 23.53 .75.95 Haul Trip Cost/hr/ fleet \$431.44 \$388.25	Return Trip Cost/hr/ fleet \$175.95 \$158.17	DOT Permit Cost/ fleet \$500.00
Cost Breakdo Available R Owne Oper Ope H Total NON ROAI Machine Description Cat D8T - 8S Cat 627G Drill/Broades	wn: Rig Capacities rship Cost/Hour: rating Cost/Hour: rating Cost/Hour: lelper Cost/Hour: Unit Cost/Hour: DABLE EQUIP Weight/ Unit (TONS) U 53.08 41.80 ast 25.00	0-25 Tons \$20.26 \$39.51 \$22.52 \$0.00 \$82.29 MENT: Owner ship Cost/hr/ unit \$255.49 \$230.18 \$6.73	Z6-50 Tons \$36.04 \$76.08 \$22.52 \$23.53 \$158.17 Haul Rig Cost/hr/uni t \$175.95 \$158.17 \$82.29	S1 \$	(25T, 50T, A) + Tons 47.05 82.85 22.52 23.53 .75.95 Haul Trip Cost/hr/ fleet \$431.44 \$388.35 \$89.02	ND 100T) Return Trip Cost/hr/ fleet \$175.95 \$158.17 \$\$2.29	DOT Permit Cost/ fleet \$500.00 \$500.00
Cost Breakdo Available R Owne Oper Ope H Total NON ROAI Machine Description Cat D8T - 8S Cat 627G Drill/Broadca Seeder with Tractor	wn: Rig Capacities ership Cost/Hour: rating Cost/Hour: rating Cost/Hour: lelper Cost/Hour: Unit Cost/Hour: DABLE EQUIPI Weight/ Unit (TONS) U 53.08 41.80 ast 25.00	0-25 Tons \$20.26 \$39.51 \$22.52 \$0.00 \$82.29 MENT: Owner ship Cost/hr/ unit \$255.49 \$230.18 \$6.73	Z6-50 Tons \$36.04 \$76.08 \$22.52 \$23.53 \$158.17 Haul Rig Cost/hr/uni t \$175.95 \$158.17 \$82.29	S1 \$	(25T, 50T, AN + Tons 47.05 82.85 22.52 23.53 .75.95 Haul Trip Cost/hr/ fleet \$431.44 \$388.35 \$89.02	ND 100T) Return Trip Cost/hr/ fleet \$175.95 \$158.17 \$82.29	DOT Permit Cost/ fleet \$500.00 \$250.00

Subtotals: \$1,017.04 \$498.70 \$1,500.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/	Fleet Size	Haul Trip	Return Trip Cost/hr/ fleet
	umit		Cost/III/ fieet	eost in/ neet
Flatbed Truck, 4x2, 30K GVW	\$91.58	1	\$91.58	\$91.58
Light Duty Pickup, 4x4, 3/4 T.	\$43.51	2	\$87.02	\$87.02
		Subtotals:	\$178.60	\$178.60

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	RANGELY	
Total one-way travel distance:	2.00	miles
Average Travel Speed:	25.00	mph
Total Non-Roadable Mob/Demob Cost *	\$5,276.60	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$28.58	

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.08	0.08
Return Time (Hours):	0.08	0.08
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.16	0.16

JOB TIME AND COST

Total job time: 2.32 Hours

Total job cost: \$5,305