

November 25, 2024

Bryan Jorgensen Grand Junction Pipe Co 556 Struthers Ave Grand Junction, CO 81501

RE: South of Fruita Gravel Pit, Permit No. M-1981-243, Proposed Surety Increase (SI-7))

Dear Mr. Jorgensen:

This reclamation cost update was in response to the site inspection conducted on November 5, 2024. 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 2022 with SI-6. 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.

General Assumptions:

- Immediately reclaim current site conditions.
- East Arcuby slopes reclaimed only surrounding area needs reclaimed.
- Roads around lakes remain TR may be required for as built
- Prev South Karp is actually East Arcuby
- Changes from SI-6 are noted in red (3 years of inflationary costs)

Task	Form Used	Description
01a	Dozer	Arcuby East – Push Riprap into Pond
		2500 LCY Pitrun 200 ft push



01b	Ripper	Arcuby East - Decompact processing stockpile area
		6.6 ac affected – (1600 LD x 12 ft road through = 0.44) = 6.16 ac
01c	Scraper	Arcuby East – Place Topsoil
		6.16 ac @ 6" = 4,969 CY
		From SE Karp stockpile – 1760LF
01d	Reveg	Arcuby East – Reveg Pond Stockpile Area 6.16ac @ 40% failure
02a	Pump	Karp – Dewater Pond
		9.6ac pond 15' deep
		Perimeter is approx. 3432
02b	Dozer	Karp – Grade Highwalls
		5417 CCY
		300 LF 15'H to 5:1 and 2000 LF 15'H to 3:1 from 1:1 all cut/fill
02c	Ripper	Karp – Rip stockpile processing area
		9.5 ac
02d	Scraper	Karp – Place topsoil
		10,890 CCY
		4 ac around pond and 9.5 ac processing area @ 6"
		From SE Karp stockpile 1500 ft haul
02e	Reveg	Karp – Reveg
		13.5 ac @ 40% failure
03a	Pump	West Arcuby – Dewater Pond
		20.3 ac pond 15'D
		Perimeter is approx 4377 LF
03b	Scraper	West Arcuby – Grade Highwalls
		32,223 LCY all slopes from 1:1
		W:400LF 20'H to 5:1 backfill = 11,852 CY
		S:1,050LF 20'H to 3:1 backfill = 15,556 CY
		E:1,300 LF' 20'H to 3:1 cut fill = 4,815 CY
		Avg backfill 700 LF away

03c	Ripper	West Arcuby – Rip stockpile processing area 5 ac
03d	Scraper	West Arcuby – Place topsoil 6,615 CCY 3.2 ac around pond (2750LF of highwall x 50'W) and 5ac processing @ 6" From W Arcuby stockpile 900 ft haul
03e	Reveg	West Arcuby – Reveg 18ac @ 40% failure 8.2 ac new reclaim and 9.8ac north of pond affected lands not pond
10a	Mob	Update equipment
10b	Mob	Update equipment
Indirect		Job hours approx. half all hours not including pumping Added Engineering work/ contact/ bid prep

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**, **December 30**, **2024** then I'll issue SI-6 as is. SI-6 will result in a total required bond amount of **\$436,823**, which is <u>an increase of \$199,009</u> over the \$237,724 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 970-210-1272 or via email at amy.yeldell@ state.co.us

Sincerely,

Amy Geldell

Amy Yeldell Environmental Protection Specialist

Ec: Travis Marshall, Senior EPS, Grand Junction DRMS Jon Muller, Kilgore

COST SUMMARY WORK

Task	descript	ion:	2024 Updat	te					
Site: So	outh Fru	ita Gravel P	<u>'it</u>	Per	rmit Action:	2024	Permit/Jol	o#: <u>M1981243</u>	
	JECT I ask #:	<mark>DENTIFIC</mark> ACY		tate:	Colorado		Abbreviation:	None	
	-	11/21/2024	Cou	nty:	Mesa		Filename:	M243-ACY	
	User:	ACY							

Agency or organization name: <u>DRMS</u>

TASK LIST (DIRECT COSTS)

Task		Form	Fleet	Task	C (
	Description	Used	Size	Hours	Cost
01a	Arcuby East - Push riprap into pond	DOZER	1	14.41	\$4,901
01b	Arcuby East - Rip stockpile/processing area	RIPPER	1	9.91	\$3,427
01c	Arcuby East - Place 6" topsoil	SCRAPER1	1	10.26	\$18,062
01d	Arcuby East - Reveg	REVEGE	1	9.00	\$38,951
02a	Karp - Dewater Pond	PUMPING	1	139.39	\$9,618
02b	Karp - Grade Highwalls	DOZER	1	10.63	\$3,615
02c	Karp - Rip stockpile/processing area	RIPPER	1	14.80	\$5,116
02d	Karp - Place 6" topsoil	SCRAPER1	1	20.23	\$35,614
02e	Karp - Reveg	REVEGE	1	19.00	\$38,951
03a	Arcuby West - Dewater Pond	PUMPING	1	348.66	\$24,058
03b	Arcuby West - Grade Highwalls and transport backfill	SCRAPER1	1	45.55	\$80,196
03c	Arcuby West - Rip stockpile/processing area	RIPPER	1	7.79	\$2,692
03d	Arcuby West - Place 6" topsoil	SCRAPER1	1	10.70	\$18,844
03e	West Arcuby - Reveg	REVEGE	1	25.00	\$51,935
10a	Initial Mobilization	MOBILIZE	1	2.88	\$7,866
10b	Secondary Mobilization	MOBILIZE	1	2.88	\$1,657
		SUBTO	TALS:	691.09	\$345,503

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$6,979
Performance bond:	1.05	Total =	\$3,628
Job superintendent:	110.00	Total =	\$8,720
Profit:	10.00	Total =	\$34,550
		TOTAL O & P =	\$53,877
		CONTRACT AMOUNT (direct + O & P) =	\$399,380

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs):	\$500	Total =	\$500
Engineering work and/or contract/bid preparation:	4.25	Total =	\$16,974
Reclamation management and/or administration:	5.00		\$19,969
CONTINGENCY:	0.00	Total =	\$0
	TOTAL I	NDIRECT COST =	\$91,320

TOTAL BOND AMOUNT (direct + indirect) = \$436,823

BULLDOZER WORK

Task description:	Arcuby Eas	st - Push riprap ir	no pona		
South Fruita Gravel	Pit	Permit Action:	2024	Permit/Job#:	M1981243
PROJECT IDENTI	FICATION				
Task #: 01A	S	tate: Colorado		Abbreviation:	None
Date: $11/25/202$		inty: Mesa		Filename:	M243-01a
User: ACY				<u>-</u>	
Agency or org	anization name:	DRMS			
HOURLY EQUIPM	<u>ENT COST</u>				
Basic Machine:	at D8T - 8SU				
Horsepower: 31					
V I	emi-Universal				
	shank ripper				
	per day				
Data Source: (C	CRG)				
Cost Breakdown:					
			Utilization %		
Ownership Cost/Hour:		\$173.32	NA		
Operating Cost/Hour:		\$109.71	100		
Ripper own. Cost/Hour:		\$14.53	NA		
Ripper op. Cost/Hour:		\$2.39	30		
		\$40.04	NA		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour:	\$339.98 \$339.98	\$40.04	NA		
Operator Cost/Hour: Total unit Cost/Hour:	\$339.98 \$339.98 TITIES 00	\$40.04			
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: <u>MATERIAL QUAN</u> Initial Volume: <u>2,5</u> Swell factor: <u>1.0</u>	\$339.98 \$339.98 TITIES 00		NA		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: <u>MATERIAL QUAN</u> Initial Volume: <u>2,5</u> Swell factor: <u>1.0</u>	\$339.98 \$339.98 TITIES 00 00 00 LCY		on, Mining & Safety		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 2,5 Swell factor: 1.0 Loose volume: 2,5	\$339.98 \$339.98 TITIES 00 00 00 00 LCY ume:Div				
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 2,5 Swell factor: 1.0 Loose volume: 2,5 Source of estimated volus Source of estimated swe	\$339.98 \$339.98 TITIES 00 00 00 00 LCY ume: Div Cat	ision of Reclamati			
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Task # 01A

Job efficient	ey: 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	nt: 0.708	(CAT HB)
Blade typ	e: 1.000	(PAT)
Net correction	n: 0.3526	
Adjusted unit production:	173.44 LCY/hr	
Adjusted fleet production:	173.44 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$1.960/LCY

Total job time:	14.41 Hours
Total job cost:	\$4,901

BULLDOZER RIPPING WORK

	Task description:	Arcu	ıby East - Rip stockpile/p	processing area	l		
Site:	South Fruita	Gravel Pit	Permit Action:	2024	Permit/Job#	#: <u>M19812</u> 4	3
	PROJECT ID	ENTIFICATI	<u>ON</u>				
	Task #:01H		State: Colorado		Abbreviation:	None	
		25/2024	County: Mesa		Filename:	M243-01t)
	User: AC						
	Agency	or organization	name: DRMS				
	HOURLY EQ	UIPMENT CO	<u>DST</u>				
	Basic I	Machine: Cat	: D8T - 8SU		Horsepower:	310	
	Ripper Atta	achment: 3-S	hank Ripper			per day	
					Data Source:	(CRG)	
	Cost Breakdown:			1			
		0 1: 0		¢172.22	Utilization %		
		Ownership Co Operating Co	ost/Hour:	\$173.32 \$109.71	<u>NA</u> 100		
	Rippe	er Ownership Co		\$14.53	NA		
		per Operating Co		\$7.95	100		
		Operator Co		\$40.04	NA		
		Total Unit Co	ost/Hour:	\$345.55			
		Total Fleet Co	ost/Hour: \$345	.55			
	MATERIAL Q	MANTITIES	Sala	atad actimating	mathad. Ana		
			Sele	cted estimating	method: Area		
	Alternate Method	l <u>s:</u>					
mic:	NA			NA	BCY 10.076	NA	DOV
rea:	6.16	acres	Rip Depth (ft):	2.00	Volume: 19,876		BCY or
		Source of estin	mated quantity: <u>6.6 ac a</u>	ffected – (1600	LD x 12 ft road through =	= 0.44)	
	HOURLY PRO	DUCTION					
	Seismic:						
			Seismic Velocity:	NA	feet/second		
	Area:						
			e Ripping Depth:	2.00	feet/pass		
			e Ripping Width: Ripping Length:	7.08 150.00	feet/pass feet/pass		
			age Dozer Speed:	88.00	feet/minute		
			Maneuver Time:	0.25	minutes/pass		
		Produc	tion per unit area:	0.748	acres/hour		
	Job Condition Co	rrection Factors					
	Un	adjusted Hourly	Unit Production:	0.748	Acres/hr		
	51	J J	Site Altitude:	4,600	feet		
			Altitude Adj:	1.00	(CAT HB)		
			Job Efficiency:	0.83	(1 shift/day)		
			Net Correction:	0.83	multiplier		
		Adjusted	Hourly Unit Production:	0.62	Acres/hr		
			Hourly Fleet Production:	0.62	Acres/hr		
	JOB TIME AN	D COST					
	Fleet size:	1	Grader(s)	Total job time	e: 9.92	Hou	rs
		\$55C 07C	Dan ages	Total : 1	4. \$\D ADT		
	Unit cost:	\$556.276	Per acre	Total job cos	t: \$3,427		

Page 1 of 2

SCRAPER TEAM WORK

Site: South Fruita Grav	el Pit	Permit A	ction:	2024	Perm	nit/Job#: <u>M198</u>	1243
PROJECT IDENT	IFICATION						
			1		A 1-1	vietiene Neue	
Task #: 01C Date: 11/25/20			olorado		Abbrev File	viation: <u>None</u> ename: M243-	01c
User: ACY		<u></u>				<u> </u>	
Agency or or	ganization name:	DRMS					
HOURLY EQUIP	<u>MENT</u>			COSTSI	nift basis: <u>1 per da</u>	<u>ay</u>	
				t Description			
			<u>Cat 627G</u> Cat D8T	w/push-pull			
Suppor	t Equipment -Load		NA	- 850			
	-Dump	Area: (Cat D8T	- 8SU			
Road Main	ntenance – Motor G		NA				
	-Water T	ruck: 1	NA				
Cost Breakdown:	Scraper Work	Team		Support Equip	oment	Maintenance	
	Scraper	Dozer	r	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100		100	NA	100	NA	N
Ownership cost/hour:	\$234.09	\$17	/3.32	NA	\$173.32	NA	N
Operating cost/hour:	\$265.71	\$10	9.71	NA	\$109.71	NA	N
%Utilization-ripper:	NA		NA	NA	NA	NA	N
Ripper own. cost/hour:	NA		50.00	NA	\$0.00	NA	N
Ripper op. cost/hour:	NA		50.00	NA	\$0.00	NA	N
Operator cost/hour:	\$57.52		0.04	NA	\$40.04	NA	N
Unit Subtotals:	\$557.32	\$32	23.07	NA	\$323.07	NA	N
Number of Units:	2	\$1.105	1	0	1	0	* 0.00
Group Subtotals:	Work:	\$1,437.	71	Support:	\$323.07	Maint:	\$0.00
Total work team cost/	hour: \$1,760.78						
MATERIAL QUA	<u>NIIIIES</u>						
Initial volume:	4,969		CY	Swell fact	or: <u>1.215</u>		
Loose volume:	6,037		CY				
	ce of estimated volu		.16 ac @				
Source of	f estimated swell fac	$\operatorname{ctor:} \underline{C}$	at Handb	OOOK			
HOURLY PRODU	CTION						
				Scraper Bo	owl (volume) Basi	c.	
Motorial1-4	1 600 lba/l CV						CV
Material weight: _ Material description:	1,600 lbs/LCY Top Soil			Heaped	Volume: <u>15.70</u> Volume: <u>22.00</u>		CY CY
	52,800 pounds			Average '			CY
rated I ayroad.				Average	volume. 10.05	L	01

<u>0.90</u> Minutes

0.60 Minutes

Cycle Time:

Scraper Loading Time: Maneuver and Spread Time:

Job Condition Correction:

Site Altitude: 4600 feet

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

Travel Time:

Road Condition: Rutted dirt, little maintenance, no water, 2" tire penetration 5.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1760.00	0.00	5.00	5.00	2218	0.92

Haul Time: **0.92** minutes

Return Route:

	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1760.00	0.00	5.00	5.00	2814	0.77
				Return Time:	0.77	minutes
			Total Scrap	er team cycle time:	3.19	minutes
			Adjusted	for job conditions:	588.55	LCY/Hour
			Selected N	umber of Scrapers:	2	Scraper(s)
	Adjuste	d single scra	per team (unit)	hourly production:	588.55	LCY/Hour
	Adjusted m	ultiple scrap	per team (fleet)	hourly production:	588.55	LCY/Hour
Optima	Unadjusted unit pro- l Number of Scrapers pe			_ LCY/Hour		
JOB TI	ME AND COST					
Fleet	size: 1	Team(s)	[Total job time:	10.26	Hours

Unit cost: \$2.992 /LCY

Total job cost: ______\$18,062_____

REVEGETATION WORK

Т	Fask descrip	otion:	East Arcuby - Reveg			
Site:	South Fr	uita Gravel Pi	t Permit Action:	2024	Permit/Job#	: <u>M1981243</u>
<u>P</u>]		IDENTIFIC	ATION State: Colorado		Abbreviation:	None
	Date:	01D 11/25/2024 ACY	County: Mesa			M243-01d
	Age	ency or organiz	ation name: DRMS			

FERTILIZING

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
6-24-24, 10-20-10, 15-15-15	300.00	pound	\$0.45	\$135.96
			Total Fertilizer Materials Cost/Acre	\$135.96

Application

Description		Cost /Acre
Tractor towed spreader (MEANS 32 01 90.13 0120)		\$43.12
	Total Fertilizer Application Cost/Acre	\$43.12

TILLING

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
Total Tilling Cost/Acre	\$117.61

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Alkali Sacaton	0.05	1.95	\$1.45
Indian Ricegrass - Paloma	3.12	10.10	\$64.06
Crested Wheatgrass - Ephraim	1.50	6.89	\$8.24
Canby Bluegrass - Canbar	0.45	9.57	\$6.75
Galleta	3.00	10.95	\$166.31
Saltbush, Four Wing	1.00	1.38	\$19.87
Totals Seed Mix	9.12	40.83	\$266.68

Application

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$236.64
	Total Seed Application Cost/Acre	\$236.64

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - 2,4D @ 1.0 pt/ac	1.00	ACRE	\$4.13	\$4.13
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$492.78	\$985.56
Total Mulch Materials Cost/Acre				\$989.69

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$85.37
Power mulcher (MEANS 32 91 13.16 0350)		\$157.25
Weed spray, truck, aquatic area, nox. [DMG]		\$79.77
	Total Mulch Application Cost/Acre	\$322.39

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
	\$0.00				

	No. of Acres:	13.5	Cost /Acre:	\$2,112.09
Estimate	ed Failure Rate:	40%	Cost /Acre*:	\$1,933.01
*Selected Replanti	ng Work Items:	TILLING,SEED	ING,MULCHING	
Initial Job Cost: Reseeding Job Cost:				

	+
Total Job Cost:	\$38,951
Job Hours:	9.00

PUMPING WORK

Task description:	Karp - Dewater Pond	i			
S Fruita Grav Pit	Permit A	ction:	2024	Permit/Job#:	M1981243
PROJECT IDENTIF	[CATION				
Task #: 02A		olorado		Abbreviation:	None
Date: <u>11/25/2024</u> User: <u>ACY</u>	County: <u>Me</u>	esa		Filename:	M243-02a
Agency or organ	nization name: DRMS				
HOURLY EQUIPME	NT COST				
	Description			Quantity	
Make and Model:	Submersible pump - 46			3	
Attachment 1:	Suction hose - 6 in. diar			9	
Attachment 2:	Discharge hose - 6 in. D)., 25 ft.		3	
Labor Unit 1:	Pump operator			1	
Horsepower:	60				
	ber day				
Weight:	0.45				
(US	S Tons)				
Cost Breakdown:		1			
			Utilization %		
Ownership Cost/H			NA		
Operating Cost/H			100		
Operator Cost/H			NA		
Total Unit Cost/H	Hour: \$69.00				
Total Fleet Cost/	Hour: \$69.00				
PUMPING QUANTI					
Initial Pond Volu				Conversion factor:	325850.5800
Final Pond Volu		52	gallons	Conversion ractor.	525650.5600
Total Pond Inflow Sur			ganons	Unit inflow rate in	
	Area: 418,176		Sq. ft.	gph/sq. ft.:	0.1758
Total Pond Inflow Vol			54. 10.	5pm/5q. 1	0.1700
per H			gallons		
Source	of estimated volume: 9.	.6 ac pon	d 15' Deep, botton	n inflow	
PUMPING TIME					
	imum Pump Capacity:		130,000	gph/pump	
	stimated Suction Head:		15	feet	
	nated Discharge Head:		15	feet	
	Total Head:		30	feet	
	CPB Pump Capacity:		123,300	gph/pump	
	Site Altitude:		4,600	feet	
	_				
	ted Pumping Capacity:		369,900	gph	
	ljusted Pumping Time:		126.85	hours	
	luring Initial Pumping:		9,325,554	gallons	
	ljusted Pumping Time:		152.06	Hours	
	ide Adjustment Factor:		1.0000	(3% rule)	
	ump Efficiency Factor:		0.9167	(55 min./hr.)	
			100.10		
	ljusted Pumping Time:		139.40	hours	
	ljusted Pumping Time:		139.40 Total job		Hours

BULLDOZER WORK

Task description:	Karp - Grade Hig	nwalls			
South Fruita Grave	l Pit Perm	it Action: 20	024	Permit/Job#:	M1981243
PROJECT IDENTI	FICATION				
Task #: 02B	State:	Colorado		Abbreviation:	None
Date: 11/25/202		Mesa		Filename:	M243-02b
User: ACY					
Agency or org	ganization name:	MS			
HOURLY EQUIPM	IENT COST				
Basic Machine: C	at D8T - 8SU				
1	10				
•1	emi-Universal				
	-shank ripper				
	per day				
Data Source: (0	CRG)				
Cost Breakdown:					
		¢170.00	<u>Utilization %</u>		
Ownership Cost/Hour		\$173.32	NA		
Operating Cost/Hour		\$109.71	100 NA		
Ripper own. Cost/Hour Ripper op. Cost/Hour		\$14.53 \$2.39	<u>NA</u> 30		
		\$40.04			
Operator Cost/Hour	•	\$40.04	NA		
MATERIAL QUAN					
	417				
0 11 0 1 1	80				
Swell factor: <u>1.1</u>					
	392 LCY	_			
	392 LCY lume: 300 LF 15	– – 'H to 5:1 and 2	2000 LF 15'H to 3:1 fi	rom 1:1 all	
Loose volume: 6 , 3 Source of estimated vol	392 LCY lume: 300 LF 15 /		2000 LF 15'H to 3:1 fi	rom 1:1 all	
Loose volume: 6,3	392 LCY lume: 300 LF 15 /		2000 LF 15'H to 3:1 fi 	rom 1:1 all	
Loose volume: 6 ,2 Source of estimated vol Source of estimated swe	392 LCY lume: 300 LF 15 cut/ ell factor: Cat Handb		2000 LF 15'H to 3:1 fi 	rom 1:1 all	
Loose volume: 6,3 Source of estimated vol Source of estimated swe HOURLY PRODUC	392 LCY lume: 300 LF 15 cut/ ell factor: Cat Handb CTION		2000 LF 15'H to 3:1 fi 	rom 1:1 all	
Loose volume: 6 ,2 Source of estimated vol Source of estimated swe HOURLY PRODUC Average push distance:	392 LCY lume: 300 LF 15 cut/ ell factor: Cat Handb CTION 50 feet	ook	2000 LF 15'H to 3:1 fi 	rom 1:1 all	
Loose volume: 6,3 Source of estimated vol Source of estimated swe HOURLY PRODUC	392 LCY lume: 300 LF 15 cut/ ell factor: Cat Handb CTION 50 feet	ook	2000 LF 15'H to 3:1 fi 	rom 1:1 all	
Loose volume: 6 ,2 Source of estimated vol Source of estimated swe HOURLY PRODUC Average push distance:	392 LCY lume: 300 LF 15 cut/ ell factor: Cat Handb CTION 50 feet luction: 1,400.0 LCY	ook		rom 1:1 all	
Loose volume: 6,2 Source of estimated vol Source of estimated swo HOURLY PRODUC Average push distance: Unadjusted hourly prod Materials consistency d	392 LCY lume: 300 LF 15 cut/ ell factor: Cat Handb CTION luction: 50 feet luction: 1,400.0 LCY lescription: Compace	ook		rom 1:1 all	
Loose volume: 6 ,2 Source of estimated vol Source of estimated swo HOURLY PRODUC Average push distance: Unadjusted hourly prod Materials consistency d Average push gradient:	392 LCY lume: 300 LF 15 cut/ ell factor: Cat Handb CTION luction: 50 feet luction: 1,400.0 LCY lescription: Compac 0 %	ook		rom 1:1 all	
Loose volume: 6,2 Source of estimated vol Source of estimated swo HOURLY PRODUC Average push distance: Unadjusted hourly prod Materials consistency d	392 LCY lume: 300 LF 15 cut/ ell factor: Cat Handb CTION luction: 50 feet luction: 1,400.0 LCY description: Compac 0 % 4,600 feet	ook		rom 1:1 all	
Loose volume: 6 ,2 Source of estimated vol Source of estimated swo HOURLY PRODUC Average push distance: Unadjusted hourly prod Materials consistency d Average push gradient:	392 LCY lume: 300 LF 15 cut/ ell factor: Cat Handb CTION luction: 50 feet luction: 1,400.0 LCY lescription: Compac 0 %	ook		rom 1:1 all	
Loose volume: 6 ,2 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:	392 LCY lume: 300 LF 15 cut/ ell factor: Cat Handb CTION luction: 50 feet luction: 1,400.0 LCY description: Compac 0 % 4,600 feet	ook /hr ted fill or emba		rom 1:1 all	
Loose volume: 6 , 2 Source of estimated vol Source of estimated swo HOURLY PRODUC Average push distance: Unadjusted hourly prod Materials consistency d Average push gradient: Average site altitude: Material weight:	392 LCY lume: 300 LF 15 cut/ ell factor: Cat Handb CTION luction: 50 feet luction: 1,400.0 LCY lescription: Compac 0 % 4,600 feet 2,400 lbs/LCY Clay and gravel - D	ook /hr ted fill or emba		rom 1:1 all	
Loose volume: 6 , 3 Source of estimated vol Source of estimated swo HOURLY PRODUC Average push distance: Unadjusted hourly prod Materials consistency d Average push gradient: Average site altitude: Material weight: Weight description: <u>Job Condition Correction</u> Operator	392 LCY lume: 300 LF 15 cut/ ell factor: Cat Handb CTION luction: 50 feet luction: 1,400.0 LCY lescription: Compac 0 % 600 feet 2,400 lbs/LCY Clay and gravel - D on Factor 0.7	ook /hr ted fill or emba 	 ankment 0.9	rom 1:1 all	
Loose volume: 6 , 2 Source of estimated vol Source of estimated swo HOURLY PRODUC Average push distance: Unadjusted hourly prod Materials consistency d Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction	392 LCY lume: 300 LF 15 cut/ ell factor: Cat Handb CTION luction: 50 feet luction: 1,400.0 LCY lescription: Compac 0 %	ook /hr ted fill or emba 		rom 1:1 all	

y: 1.000	(AVG.)
y: 0.830	(1 SHIFT/DAY)
e: 0.800	(FND-RF)
it: 1.000	(CAT HB)
e: 1.000	(CAT HB)
it: 0.958	(CAT HB)
e: 1.000	(PAT)
n: 0.4294	
601.16 LCY/hr	
601.16 LCY/hr	
	y: 0.830 e: 0.800 it: 1.000 e: 1.000 t: 0.958 e: 1.000 n: 0.4294 601.16 LCY/hr

Fleet size:	1 Dozer(s)
Unit cost:	\$0.566/LCY

Total job time:	10.63 Hours
Total job cost:	\$3,615

BULLDOZER RIPPING WORK

	Task description	n: Karp - Rip stockpile/pre	ocessing area		
Site	: South Fruita	Gravel Pit Permit Acti	ion: <u>2024</u>	Permit/Job	#: <u>M1981243</u>
	PROJECT II	DENTIFICATION			
	Date: 1	2CState:Color1/25/2024County:MesaCY		Abbreviation: Filename:	
		y or organization name: DRMS			
	C	UIPMENT COST			
	Basic	Machine: Cat D8T - 8SU ttachment: 3-Shank Ripper			310 per day (CRG)
	Cost Breakdow	n:			<u> </u>
		Ownership Cost/Hour: Operating Cost/Hour: per Ownership Cost/Hour: oper Operating Cost/Hour: Operator Cost/Hour:	\$40.04	Utilization % NA 100 NA 100 NA	
		Total Unit Cost/Hour:	\$345.55		
		Total Fleet Cost/Hour:	\$345.55		
	MATERIAL	<u>QUANTITIES</u>	Selected estimating	g method: Area	
	Alternate Metho	<u>ods:</u>			
Seismic: Area:	NA 9.50	Bank Volum acres Rip Depth (1		BCY Volume: 30,653	NA BCY or CC
nica.		Source of estimated quantity: Pr			
			evious wap and her	u estimates	
	HOURLY PR	<u>KODUCTION</u>			
	Seismic:	Seismic Velocity:	NA	feet/second	
	Area:				
		Average Ripping Depth: Average Ripping Width:	2.00 7.08	feet/pass feet/pass	
		Average Ripping Length:	200.00	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 C	Correction Factors			
	U	nadjusted Hourly Unit Production:	0.773	Acres/hr	
		Site Altitude:	4,600	feet	
		Altitude Adj:	1.00	(CAT HB)	
		Job Efficiency:	0.83	(1 shift/day)	
		Net Correction:	0.83	multiplier	
		Adjusted Hourly Unit Product Adjusted Hourly Fleet Product		Acres/hr Acres/hr	
	JOB TIME A	ND COST			
	Fleet size:	1 Grader(s)	Total job tim	ne: 14.80	Hours
	Unit cost:	\$538.489 Per acre	Total job co	st: \$5,116	

Page 1 of 2

SCRAPER TEAM WORK

Site: South Fruita Grav	vel Pit	Permit	Action:	2024	Perr	nit/Job#: <u>M198</u>	1243
PROJECT IDENT	TIFICATION						
Task #: 02D		State: (Colorado		Abbrev	viation: None	
Date: 11/25/2	2024 Co	ounty: N	Mesa			ename: M243-	02d
User: ACY							
Agency or c	organization name	: DRM	S				
HOURLY EQUIP	MENT			COSTS	hift basis: <u>1 per da</u>	ay	
				ent Description			
		Scraper: -Dozer:	Cat 627 Cat D8	G w/push-pull			
Suppor	rt Equipment -Loa		NA	1 - 050			
		np Area:	Cat D8	Г - 8SU			
Road Mai	intenance – Motor		NA				
	- water	r Truck:	NA				
Cost Breakdown:	Scraper Wo	ork Team		Support Equi	pment	Maintenance	
	Scraper	Doz	zer	Load Area	Dump Area	Motor Grader	Water Tr
%Utilization-machine:	100		100	NA	100	NA	
Ownership cost/hour:	\$234.09	\$	173.32	NA	\$173.32	NA	
Operating cost/hour:	\$265.71	\$	109.71	NA	\$109.71	NA	
%Utilization-ripper:	NA		NA	NA	NA	NA	
Ripper own. cost/hour:	NA		\$0.00	NA	\$0.00	NA	
Ripper op. cost/hour:	NA		\$0.00	NA	\$0.00	NA	
Operator cost/hour:	\$57.52		\$40.04	NA	\$40.04	NA	
Unit Subtotals:	\$557.32	\$	323.07	NA	\$323.07	NA	
Number of Units:	2		1	0	1	0	
Group Subtotals:	Work:	\$1,43	7.71	Support:	\$323.07	Maint:	\$0.00
Total work team cost	/hour: <u>\$1,760.78</u>						
MATERIAL QUA	NTITIES						
Initial volume: Loose volume:	<u>10,890</u> 13,231		CCY LCY	Swell fact	tor: <u>1.215</u>		
	rce of estimated v			and pond (TR-3)	9.5 ac processing	area 6" thick	
	of estimated swell		Cat Hand				
HOURLY PRODU	UCTION						
				Scraper B	owl (volume) Basi	<u>is:</u>	
Material weight:	1,600 lbs/LCY			Struck	Volume: <u>15.70</u>	L	CY
Material description:	Top Soil			Heaped	Volume: 22.00	L	CY
Rated Payload:	52,800 pounds			Average			CY
Payload Capacity:	33.00 LCY			Adjusted C	Capacity: 18.85	L	CY

Cycle Time:

Scraper Loading Time: Maneuver and Spread Time: <u>0.90</u> Minutes <u>0.60</u> Minutes

Job Condition Correction:

Site Altitude: 4600 feet

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

Travel Time:

Road Condition: Rutted dirt, little maintenance, no water, 2" tire penetration 5.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1500.00	0.00	5.00	5.00	2218	0.80

Haul Time: **0.80** minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1200.00	0.00	5.00	5.00	2814	0.57
				Return Time:	0.57	minutes
			Total Scrape	er team cycle time:	2.87	minutes
			Adjusted	for job conditions:	654.17	LCY/Hour
			Selected Nu	umber of Scrapers:	2	Scraper(s)
	Adjuste	d single scra	per team (unit)	hourly production:	654.17	LCY/Hour
	Adjusted m	ultiple scrap	er team (fleet)	hourly production:	654.17	LCY/Hour
Optima	Unadjusted unit pro al Number of Scrapers pe			_ LCY/Hour		
JOB TI	ME AND COST					
Flee	t size: 1	Team(s)	Т	Total job time:	20.23	Hours

Unit cost: \$2.692 /LCY

Total job cost: \$35,614

REVEGETATION WORK

						- Reveg	Ka	otion:	Fask descrip	Т
981243	#: <u>M198</u>	t/Job#:	Permit/J	2024	rmit Action:	Per	wel Pit	uita Gr	South Fre	Site:
							<u>IFICATI</u>		ROJECT	<u>P</u>]
	None		Abbreviation:		Colorado	State:		02E	Task #:	
12e	M243-02	ne: M	Filename:		Mesa	County:	2024	11/25	Date:	
								ACY	User:	
Ľ	<u>M243-0</u> 2	1e: <u>M</u>	Filename:		Mesa	· · ·	2024 organization	ACY	User:	

FERTILIZING

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
6-24-24, 10-20-10, 15-15-15	300.00	pound	\$0.45	\$135.96
			Total Fertilizer Materials	
			Cost/Acre	\$135.96

Application

Description		Cost /Acre
Tractor towed spreader (MEANS 32 01 90.13 0120)		\$43.12
Tot	tal Fertilizer Application Cost/Acre	\$43.12

TILLING

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
Total Tilling Cost/Acre	\$117.61

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Alkali Sacaton	0.05	1.95	\$1.45
Indian Ricegrass - Paloma	3.12	10.10	\$64.06
Crested Wheatgrass - Ephraim	1.50	6.89	\$8.24
Canby Bluegrass - Canbar	0.45	9.57	\$6.75
Galleta	3.00	10.95	\$166.31
Saltbush, Four Wing	1.00	1.38	\$19.87
Totals Seed Mix	9.12	40.83	\$266.68

Application

CIRCES Cost Estimating Software

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$236.64
	Total Seed Application Cost/Acre	\$236.64

MULCHING and MISCELLANEOUS

Materials

	Units /			
Description	Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - 2,4D @ 1.0 pt/ac	1.00	ACRE	\$4.13	\$4.13
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$492.78	\$985.56
Total Mulch Materials Cost/Acre				\$989.69

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$85.37
Power mulcher (MEANS 32 91 13.16 0350)		\$157.25
Weed spray, truck, aquatic area, nox. [DMG]		\$79.77
	Total Mulch Application Cost/Acre	\$322.39

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

No. of Acres:	13.5	Cost /Acre:	\$2,112.09
Estimated Failure Rate:	40%	Cost /Acre*:	\$1,933.01
*Selected Replanting Work Items:	TILLING,SEEDIN	G,MULCHING	
Initial Job Cost: \$28,513.22 Reseeding Job Cost: \$10,438.25			

coccurry soo cost.	410,100.2 <i>c</i>
Total Job Cost:	\$38,951
Job Hours:	19.00

PUMPING WORK

S Fruita Grav Pit	D		D : // 1 //	1001040
	Permit Act	tion: _2024	Permit/Job#:	M1981243
PROJECT IDENTIF	<u>ICATION</u>			
Task #: 03A	State: Colo	orado	Abbreviation:	None
Date: 11/25/2024			Filename:	M243-03a
User: ACY				
Agency or orga	nization name: DRMS			
HOURLY EQUIPME	<u>ENT COST</u>			
	Description		Quantity	
Make and Model:	Submersible pump - 460v		3	
Attachment 1:	Suction hose - 6 in. diam.		9	
Attachment 2: Labor Unit 1:	Discharge hose - 6 in. D.,	, 25 ft.	3	
	Pump operator		1	
Horsepower:	60			
	per day			
<u> </u>	0.45 S Tons)			
``	S TONS)			
Cost Breakdown:				
Ownership Cost/	Louw \$20.07	Utilization % NA		
Ownership Cost/ Operating Cost/		100	-	
Operator Cost/		NA	-	
Total Unit Cost/		1111		
Total Fleet Cost	/Hour: \$69.00			
PUMPING QUANTI	TIES			
Initial Pond Vol			Conversion factor:	325850.5800
Final Pond Vol		gallons	Conversion ractor.	525850.5800
Total Pond Inflow Su		Sunons	Unit inflow rate in	
1	Area: 884,268	Sq. ft.	gph/sq. ft.:	0.1758
Total Pond Inflow Vo		Sq. ft.		0.1758
Total Pond Inflow Vo		Sq. ft gallons		0.1758
Total Pond Inflow Vo per I	blume Hour: 155,454.31	gallons	gph/sq. ft.:	0.1758
Total Pond Inflow Vo per F Source	blume Hour: 155,454.31		gph/sq. ft.:	0.1758
Total Pond Inflow Vo per H Source PUMPING TIME	Hour: 155,454.31 of estimated volume: 20.3	gallons 3 ac pond 15' Deep, botto	gph/sq. ft.:	0.1758
Total Pond Inflow Vo per H Source of <u>PUMPING TIME</u> Max	Hour: 155,454.31 of estimated volume: 20.3 ximum Pump Capacity:	gallons 3 ac pond 15' Deep, botto 130,000	gph/sq. ft.: om inflow	0.1758
Total Pond Inflow Vo per H Source of <u>PUMPING TIME</u> Max E	Hour: 155,454.31 of estimated volume: 20.3 ximum Pump Capacity: stimated Suction Head:	gallons 3 ac pond 15' Deep, botto 130,000 15	gph/sq. ft.: om inflow gph/pump feet	0.1758
Total Pond Inflow Vo per H Source of <u>PUMPING TIME</u> Max E	Hour: 155,454.31 of estimated volume: 20.3 ximum Pump Capacity:	gallons 3 ac pond 15' Deep, botto 130,000 15 15	gph/sq. ft.: om inflow gph/pump feet feet	0.1758
Total Pond Inflow Vo per H Source of <u>PUMPING TIME</u> Max E	Hour: 155,454.31 of estimated volume: 20.3 ximum Pump Capacity: Stimated Suction Head: mated Discharge Head: Total Head:	gallons 3 ac pond 15' Deep, botto 130,000 15 15 30	gph/sq. ft.: om inflow gph/pump feet feet feet	0.1758
Total Pond Inflow Vo per H Source of <u>PUMPING TIME</u> Max E	Hour: 155,454.31 of estimated volume: 20.3 ximum Pump Capacity: stimated Suction Head: mated Discharge Head: Total Head: CPB Pump Capacity:	gallons 3 ac pond 15' Deep, botto 130,000 15 15 30 123,300	gph/sq. ft.: om inflow gph/pump feet feet feet gph/pump	0.1758
Total Pond Inflow Vo per H Source of <u>PUMPING TIME</u> Max E	Hour: 155,454.31 of estimated volume: 20.3 ximum Pump Capacity: Stimated Suction Head: mated Discharge Head: Total Head:	gallons 3 ac pond 15' Deep, botto 130,000 15 15 30	gph/sq. ft.: om inflow gph/pump feet feet feet	0.1758
Total Pond Inflow Vo per H Source of <u>PUMPING TIME</u> May E Estin	Hour: 155,454.31 of estimated volume: 20.3 ximum Pump Capacity: tstimated Suction Head: mated Discharge Head: Total Head: CPB Pump Capacity: Site Altitude:	gallons 3 ac pond 15' Deep, botto 130,000 15 15 30 123,300 4,600	gph/sq. ft.: om inflow gph/pump feet feet feet gph/pump feet	0.1758
Total Pond Inflow Vo per H Source of <u>PUMPING TIME</u> May E Estin Adjus	Hour: 155,454.31 of estimated volume: 20.3 ximum Pump Capacity:	gallons 3 ac pond 15' Deep, botto 130,000 15 15 30 123,300 4,600 369,900	gph/sq. ft.: om inflow gph/pump feet feet feet gph/pump feet gph	0.1758
Total Pond Inflow Vo per H Source of PUMPING TIME Max E Esti Adjus Initial Una	blume Hour: 155,454.31 of estimated volume: 20.3 ximum Pump Capacity:	gallons 3 ac pond 15' Deep, botto 130,000 15 15 30 123,300 4,600 369,900 267.80	gph/sq. ft.: om inflow gph/pump feet feet feet gph/pump feet gph hours	0.1758
Total Pond Inflow Vo per F Source of PUMPING TIME Max E Estin Adjus Initial Unav Inflow of	blume Hour: 155,454.31 of estimated volume: 20.3 ximum Pump Capacity:	gallons 3 ac pond 15' Deep, botto 130,000 15 15 30 123,300 4,600 369,900 267.80 41,630,395	gph/sq. ft.: om inflow gph/pump feet feet feet gph/pump feet gph/pump feet gph hours gallons	0.1758
Total Pond Inflow Vo per F Source of PUMPING TIME Max E Esti Adjus Initial Unav Inflow of Net Unav	Jume Hour: 155,454.31 of estimated volume: 20.3 ximum Pump Capacity: 20.3 mated Discharge Head: 20.3 Total Head: 20.3 CPB Pump Capacity: 20.3 Site Altitude: 20.3 sted Pumping Capacity: 20.3 djusted Pumping Time: 20.3 djusted Pumping Time: 20.3	gallons 3 ac pond 15' Deep, botto 130,000 15 15 30 123,300 4,600 369,900 267.80 41,630,395 380.34	gph/sq. ft.: om inflow gph/pump feet feet feet gph/pump feet gph hours gallons Hours	0.1758
Total Pond Inflow Vo per H Source of PUMPING TIME Max E Esti Adjus Initial Unav Inflow of Net Unav Altitu	blume Hour: 155,454.31 of estimated volume: 20.3 ximum Pump Capacity: 20.3 ximum Pump Capacity: 20.3 stimated Suction Head: 20.3 mated Discharge Head: 20.3 Total Head: 20.3 CPB Pump Capacity: 20.3 Site Altitude: 20.3 sted Pumping Capacity: 20.3 djusted Pumping Time: 20.3 djusted Pumping Time: 20.3 ude Adjustment Factor: 20.3	gallons 3 ac pond 15' Deep, botto 130,000 15 15 30 123,300 4,600 369,900 267.80 41,630,395 380.34 1.0000	gph/sq. ft.: om inflow gph/pump feet feet gph/pump feet gph hours gallons Hours (3% rule)	0.1758
Total Pond Inflow Vo per H Source of PUMPING TIME Max E Esti Adjus Initial Unav Inflow of Net Unav Altitu P	Jume Hour: 155,454.31 of estimated volume: 20.3 ximum Pump Capacity: 20.3 mated Discharge Head: 20.3 Total Head: 20.3 CPB Pump Capacity: 20.3 Site Altitude: 20.3 sted Pumping Capacity: 20.3 djusted Pumping Time: 20.3 djusted Pumping Time: 20.3	gallons 3 ac pond 15' Deep, botto 130,000 15 15 30 123,300 4,600 369,900 267.80 41,630,395 380.34	gph/sq. ft.: om inflow gph/pump feet feet feet gph/pump feet gph hours gallons Hours	0.1758
Total Pond Inflow Vo per F Source of PUMPING TIME Max E Esti Adjus Initial Unav Inflow of Net Unav Altitu P Total Ad	blume Hour: 155,454.31 of estimated volume: 20.3 ximum Pump Capacity: 20.3 mated Discharge Head: 20.3 Total Head: 20.3 CPB Pump Capacity: 20.3 Site Altitude: 20.3 sted Pumping Capacity: 20.3 djusted Pumping Time: 20.3 ude Adjustment Factor: 20.3 Pump Efficiency Factor: 20.3 djusted Pumping Time: 20.3 ude Adjustment Factor: 20.3 Pump Efficiency Factor: 20.3 djusted Pumping Time: 3 Paup Efficiency Factor: 3 djusted Pumping Time: 3	gallons 3 ac pond 15' Deep, botto 130,000 15 15 30 123,300 4,600 369,900 267.80 41,630,395 380.34 1.0000 0.9167	gph/sq. ft.: om inflow gph/pump feet feet feet gph/pump feet gph hours gallons Hours (3% rule) (55 min./hr.)	0.1758
Total Pond Inflow Vo per H Source of PUMPING TIME Max E Esti Adjus Initial Unav Inflow of Net Unav Altitu P	blume Hour: 155,454.31 of estimated volume: 20.3 ximum Pump Capacity: 20.3 mated Discharge Head: 20.3 Total Head: 20.3 CPB Pump Capacity: 20.3 Site Altitude: 20.3 sted Pumping Capacity: 20.3 djusted Pumping Time: 20.3 ude Adjustment Factor: 20.3 Pump Efficiency Factor: 20.3 djusted Pumping Time: 20.3 ude Adjustment Factor: 20.3 Pump Efficiency Factor: 20.3 djusted Pumping Time: 3 Paup Efficiency Factor: 3 djusted Pumping Time: 3	gallons 3 ac pond 15' Deep, botto 130,000 15 15 30 123,300 4,600 369,900 267.80 41,630,395 380.34 1.0000 0.9167	gph/sq. ft.: om inflow gph/pump feet feet feet gph/pump feet gph hours gallons Hours (3% rule) (55 min./hr.) hours	0.1758

Page 1 of 2

SCRAPER TEAM WORK

Site: South Fruita Grav	el Pit	Permit	t Action:	2024	Perr	mit/Job#: <u>M198</u>	1243
PROJECT IDENT	IFICATION						
Task #:03B	S	tate: (Colorado		Abbrev	viation: None	
Date: <u>11/25/20</u> User: ACY	<u>)24</u> Cou	inty: 1	Mesa		Fil	ename: <u>M243-0</u>)3b
	ganization name:	עער	C				
Agency of of	gamzation name.		15				
HOURLY EQUIPM	MENT			COSTS	hift basis: <u>1 per d</u>	<u>ay</u>	
				ent Description			
		craper: Dozer:	Cat 627 Cat D8	G w/push-pull			
Support	Equipment -Load		NA NA	1 - 850			
	-Dumj	o Area:	Cat D8	T - 8SU			
Road Main	ntenance –Motor (-Water		NA NA				
	, vi uter	TTUCK.	1111				
Cost Breakdown:	Scraper Wor			Support Equi		Maintenance	Equipment Water Truc
	Scraper	Doz	zer	Load Area	Dump Area	Motor Grader	water Truc
%Utilization-machine:	100		100	NA	100	NA	N
Ownership cost/hour:	\$234.09		173.32	NA	\$173.32	NA	N
Operating cost/hour:	\$265.71	\$	109.71	NA	\$109.71	NA	N
%Utilization-ripper:	NA		NA	NA	NA	NA	N
Ripper own. cost/hour:	NA		\$0.00	NA	\$0.00	NA	N
Ripper op. cost/hour:	NA		\$0.00 \$40.04	NA	\$0.00	NA	1
Operator cost/hour: Unit Subtotals:	\$57.52 \$557.32		\$40.04 323.07	NA NA	\$40.04 \$323.07	NA NA	N N
Number of Units:	2	φ	1	0	\$525.07	0	ľ
Group Subtotals:	Work:	\$1,43		Support:	\$323.07	Maint:	\$0.00
Total work team cost/l		<i><i><i>ϕ</i>1,15</i></i>	,,,,	Support	<i>Q323.01</i>		<i>Q</i> 0.00
Total work team cost/	iour: <u>\$1,700.78</u>						
MATERIAL QUA	NTITIES						
Initial volume:	32,223		CCY	Swell fac	tor: 1.115		
Loose volume:	35,929		LCY				
Source	e of estimated vo	lume:	Staff esti	imates			
Source of	estimated swell f	actor:	Cat Hand	dbook			
HOURLY PRODU	CTION						
<u>HOUKLI IKODU</u>	<u>CHON</u>						
				-	owl (volume) Basi		
	2,500 lbs/LCY				Volume: 15.70		CY CY
	Clay - Dry 52,800 pounds			Average	Volume: 22.00 Volume: 18.85		CY CY
Kalcu ravioau							

Cycle Time:

Scraper Loading Time: Maneuver and Spread Time: <u>0.90</u> Minutes <u>0.60</u> Minutes

Job Condition Correction:

Site Altitude: 4600 feet

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

Travel Time:

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

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	700.00	0.00	5.00	5.00	2218	0.48

Haul Time: **0.48** minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	700.00	0.00	5.00	5.00	2814	0.40
				Return Time:	0.40	minutes
			Total Scrap	er team cycle time:	2.38	minutes
			Adjusted	for job conditions:	788.85	LCY/Hour
			Selected N	umber of Scrapers:	2	Scraper(s)
	Adjuste	d single scra	per team (unit)	hourly production:	788.85	LCY/Hour
	Adjusted n	nultiple scrap	ber team (fleet)	hourly production:	788.85	LCY/Hour
Optima	Unadjusted unit pro al Number of Scrapers pe			_ LCY/Hour		
JOB T	IME AND COST					
Flee	t size: 1	Team(s)]	Fotal job time:	45.55	Hours

Unit cost: \$2.232 /LCY

Total job cost: ______\$80,196

BULLDOZER RIPPING WORK

	Task description:	Arcuby Wo	est - Rip stockpile/	processing are	ea			
Site	: <u>South Fruita</u> (Gravel Pit	Permit Action:	2024]	Permit/Job#:	M19812	43
	PROJECT IDE	ENTIFICATION						
	Task #: 030 Date: 11/2 User: AC	25/2024 Con	tate: Colorado unty: Mesa		Ab	breviation: Filename:	None M243-03	c
	Agency	or organization name:	DRMS					
	HOURLY EQU	UIPMENT COST						
	Basic I	Machine: Cat D8T -	8SU		Horsepower:		310	
	Ripper Atta	achment: <u>3-Shank F</u>	Ripper		Shift Basis: Data Source:		per day CRG)	
	Cost Breakdown:				Data Source.	(
	Cost Dicardowii.				Utilization %			
		Ownership Cost/Hou		\$173.32	NA	_		
	Dinn	Operating Cost/Hou er Ownership Cost/Hou		\$109.71 \$14.53	100 NA			
		per Operating Cost/Hot		\$7.95	100			
	Кірг	Operator Cost/Hou		\$40.04	NA			
		Total Unit Cost/Hou		\$345.55				
		Total Fleet Cost/Hou	ır: \$345	5.55				
	MATERIAL Q				.1 1 4			
			Sele	ected estimating	g method: Are	ea		
~	Alternate Method	. <u>S:</u>						
Seismic: Area:	NA 5.00	acres	Bank Volume:	NA 2.00	BCY Volume:	16,133	NA	BCY or CCY
mea.	5.00	Source of estimated of				10,155		bermeer
			quantity. <u>Map a</u>					
	HOURLY PRO	<u>JUCTION</u>						
	Seismic:	G = ::	Vala sites	NT A	£	I		
		Seismi	c Velocity:	NA	feet/se	cond		
	Area:				a (
		Average Ripp		2.00	feet/pa			
		Average Ripp Average Rippi	U	7.08 200.00	feet/pa feet/pa			
		Average Do		88.00	feet/m			
		Average Mane		0.25	minute			
		Production pe		0.773	acres/h			
	Job Condition Co	rrection Factors						
	Un	adjusted Hourly Unit F	Production:	0.773	Acres/	ĥr		
		Sit	e Altitude:	4,600	feet			
		Al	titude Adj:	1.00	(CAT	HB)		
		Job	Efficiency:	0.83	(1 shif	t/day)		
		Net (Correction:	0.83	multip	lier		
		Adjusted Hourly	Unit Production:	0.64	Acres/hr			
		Adjusted Hourly	Fleet Production:	0.64	Acres/hr			
	JOB TIME AN	D COST						
	Fleet size:	1 Grad	ler(s)	Total job tim	ne:	7.79	Но	urs
	Unit cost:	\$538.489 Per a	acre	Total job co	st:	\$2,692		

Page 1 of 2

SCRAPER TEAM WORK

Site: South Fruita Gra	vel Pit	Permit Action:	2024	Peri	mit/Job#: <u>M198</u>	1243
PROJECT IDEN	<u>TIFICATION</u>					
Task #: 03D Date: 11/25/2 User: ACY		State: <u>Colorado</u> unty: <u>Mesa</u>			viation: <u>None</u> ename: <u>M243</u> -	03d
	organization name:	DRMS				
	-					
HOURLY EQUIE	<u>MENT</u>		COSTSI	nift basis: <u>1 per d</u>	<u>ay</u>	
			ent Description			
			'G w/push-pull T - 8SU			
Suppo	rt Equipment -Loa					
Road Ma	Dum <u>-</u> -Dum		T - 8SU			
	-Water					
Cost Breakdown:	Scraper Wor	rk Team	Support Equip	oment	Maintenance	Equipment
<u>eost Breakdown</u>	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water T
%Utilization-machine:	100	100	NA	100	NA	
Ownership cost/hour:	\$234.09	\$173.32	NA	\$173.32	NA	
Operating cost/hour:	\$265.71	\$109.71	NA	\$109.71	NA	
%Utilization-ripper:	NA	NA	NA	NA	NA	
Ripper own. cost/hour:	NA	\$0.00	NA	\$0.00	NA	
Ripper op. cost/hour:	NA	\$0.00	NA	\$0.00	NA	
Operator cost/hour:	\$57.52	\$40.04	NA	\$40.04	NA	
Unit Subtotals:	\$557.32	\$323.07	NA	\$323.07	NA	
Number of Units:	2	1	0	1	0	
Group Subtotals:	Work:	\$1,437.71	Support:	\$323.07	Maint:	\$0.00
Total work team cost	/hour: <u>\$1,760.78</u>					
MATERIAL QUA	ANTITIES					
Initial volume:	6,615	CCY	Swell fact	or: 1.215		
Loose volume:	8,037	LCY				
Sou	rce of estimated vo	blume: <u>3.2 ac pc</u>	ond (2750LF of hi	ghwall x 50'W) a	nd 5ac processing	5
Source	of estimated swell f	factor: Cat Hand	dbook			
HOURLY PROD	UCTION					
			Scraper Bo	owl (volume) Bas	<u>is:</u>	
Material weight:	1,600 lbs/LCY			Volume: 15.70		CY
Material description:	Top Soil		Heaped			CY
Rated Payload:	52,800 pounds		Average `			ĊY
Payload Capacity:	33.00 LCY		Adjusted C	Capacity: 18.85	I	CY

Cycle Time:

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

Job Condition Correction:

Site Altitude: 4600 feet

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

Travel Time:

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

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	900.00	0.00	5.00	5.00	2218	0.53

Haul Time: **0.53** minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	900.00	0.00	5.00	5.00	2814	0.47
				Return Time:	0.47	minutes
			Total Scrape	er team cycle time:	2.50	minutes
			Adjusted	for job conditions:	750.98	LCY/Hour
			Selected N	umber of Scrapers:	2	Scraper(s)
	Adjuste	l single scra	per team (unit)	hourly production:	750.98	LCY/Hour
	Adjusted m	ultiple scrap	ber team (fleet)	hourly production:	750.98	LCY/Hour
Optim	Unadjusted unit pro al Number of Scrapers pe			_ LCY/Hour		
JOB T	IME AND COST					
Flee	t size: 1	Team(s)	1	Fotal job time:	10.70	Hours

Fleet size:	1	Team(s)	Total job time:	10.70	Hour
Unit cost:	\$2.345	/LCY	Total job cost:	\$18,844	

REVEGETATION WORK

Task description:		West Arcuby - Reveg				
Site: South I	Fruita Gravel Pi	t Permit Action:	Permit Action: 2024 Permit/Job#		: M1981243	
<u>PROJEC'</u> Task #	<u>F IDENTIFIC</u>			Abbreviation:	None	
Date User	11/25/2024	State:ColoradoCounty:Mesa			None M243-03e	
	ACY gency or organiz	ation name: DRMS				

FERTILIZING

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
6-24-24, 10-20-10, 15-15-15	300.00	pound	\$0.45	\$135.96
			Total Fertilizer Materials Cost/Acre	\$135.96

Application

Description		Cost /Acre
Tractor towed spreader (MEANS 32 01 90.13 0120)		\$43.12
	Total Fertilizer Application Cost/Acre	\$43.12

TILLING

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
Total Tilling Cost/Acre	\$117.61

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Alkali Sacaton	0.05	1.95	\$1.45
Indian Ricegrass - Paloma	3.12	10.10	\$64.06
Crested Wheatgrass - Ephraim	1.50	6.89	\$8.24
Canby Bluegrass - Canbar	0.45	9.57	\$6.75
Galleta	3.00	10.95	\$166.31
Saltbush, Four Wing	1.00	1.38	\$19.87
Totals Seed Mix	9.12	40.83	\$266.68

Application

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$236.64
	Total Seed Application Cost/Acre	\$236.64

MULCHING and MISCELLANEOUS

Materials

	Units /			
Description	Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - 2,4D @ 1.0 pt/ac	1.00	ACRE	\$4.13	\$4.13
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$492.78	\$985.56
Total Mulch Materials Cost/Acre				\$989.69

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$85.37
Power mulcher (MEANS 32 91 13.16 0350)		\$157.25
Weed spray, truck, aquatic area, nox. [DMG]		\$79.77
	Total Mulch Application Cost/Acre	\$322.39

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
	\$0.00				

	No. of Acres:	18	Cost /Acre:	\$2,112.09
Estimate	ed Failure Rate:	40%	Cost /Acre*:	\$1,933.01
*Selected Replanti	ng Work Items:	TILLING,SEEI	DING,MULCHING	
Initial Job Cost:	\$38,017.62			
Reseeding Job Cost:	\$13,917.67			
Total Job Cost:	\$51,935			

Job Hours:	25.00		

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description: S Fruita Grav F	Pit	Permit	Action: 2024		Ι	Permit/Job#: M	1981243
PROJECT IDEN	TIFICATI	<u>ON</u>					
Task #: 10A		State: Co	olorado		Abbre	viation: None	
	5/2024	County: Mo	esa		Fi	lename: M243	-10a
User: <u>ACY</u>	·						
Agency or	organization	n name: DRMS					
EQUIPMENT TH	RANSPOR	<u>T RIG COST</u>					
					Shift ba	sis: 1 per da	V
				C	Cost Data Sour		
Truck	Tractor Desc	ription: GENE	RIC ON-HIGH			OR, 6X4, DIESEL	L POWERED,
					(2ND HALF,		
Truck	Trailer Desc	ription: G				OP DECK EQU	IPMENT
				I KAILEK (25T, 50T, AN	ND 1001)	
Cost Breakdown:							
Available Rig Ca	pacities	0-25 Tons	26-50 Tons	51+	Tons		
Ownership (\$10.44	\$22.18		3.94		
Operating (Cost/Hour:	\$26.48	\$54.55	\$5	5.65		
Operator (Cost/Hour:	\$22.52	\$22.52	\$2	2.52		
Helper (Cost/Hour:	\$0.00	\$23.53	\$2	3.53		
Total Unit (Cost/Hour:	\$59.44	\$122.78	\$12	25.64		
NON ROADABL	E EQUIPN	<u>MENT:</u>					
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
Description	(TONS)		t	5120	fleet		
Cat D8T - 8SU	53.08	\$187.85	\$125.64	2	\$626.98	\$251.28	\$500.00
Cat 627G w/push-	43.48	\$234.09	\$122.78	2	\$713.74	\$245.56	\$500.00
pull							
Drill/Broadcast	25.00	\$41.02	\$59.44	1	\$100.46	\$59.44	\$250.00
Seeder with							
Tractor	6.00	\$27.21	\$50.44		\$04.4 5	\$50 AA	\$250.00
Power Mulcher (Bowie LD-90)	6.00	\$27.21	\$59.44	1	\$86.65	\$59.44	\$250.00
Submersible pump	0.45	\$8.79	\$59.44	1	\$68.23	\$59.44	\$250.00
- 460v, 6 in.	0.75	ψ0.72	ψυνιττ	1	<i>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>	ψυν.ττ	φ250.00
	1	I	1	1 1			I
				Subtotals:	\$1,596.06	\$675.16	\$1,750.00

 Subtotals:
 \$1,596.06
 \$675.16
 \$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	\$81.06	2	\$162.12	\$162.12
Flatbed Truck, 6x4, 45K GVW	\$110.00	1	\$110.00	\$110.00
Light Duty Pickup, 4x4, 3/4 T.	\$97.64	1	\$97.64	\$97.64

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	GRAND JUNCTION, CO	
Total one-way travel distance:	10.00	miles
Average Travel Speed:	45.00	mph
Total Non-Roadable Mob/Demob Cost * '* two round trips with haul rig:	\$7,701.55	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$164.34	_

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.22	0.22
Return Time (Hours):	0.22	0.22
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.44	0.44

Total job time:	2.89	Hours
Total job cost:	\$7,866	

EQUIPMENT MOBILIZATION/DEMOBILIZATION

: <u>S Fruita Grav Pit</u> Permit Action: <u>2024</u> Permit/Job#: <u>M1981243</u> PROJECT IDENTIFICATION Task #: <u>10B</u> State: <u>Colorado</u> Abbreviation: <u>None</u> <u>Date: 11/25/2024</u> County: <u>Mesa</u> Filename: <u>M243-10b</u> User: <u>ACY</u> Agency or organization name: <u>DRMS</u> EOUIPMENT TRANSPORT RIG COST EOUIPMENT TRANSPORT RIG COST Truck Tractor Description: <u>GENERIC ON-HIGHWAY TRUCK TRACTOR, 6X4, DIESEL POWERED, 400 HP (2ND HALF, 2006) Truck Trailer Description: <u>GENERIC OLDING GOOSENECK, DROP DECK EQUIPMENT TRAILER (25T, 50T, AND 100T) Cost Breakdown: <u>Available Rig Capacities 0-25 Tons 26-50 Tons 51+ Tons</u> <u>Ownership Cost/Hour: \$10.44 \$\$22.18 \$\$3.94</u> <u>Operating Cost/Hour: \$20.648 \$\$4.55 \$\$5.65</u> <u>Operating Cost/Hour: \$20.00 \$\$23.53 \$\$23.53</u> Total Unit Cost/Hour: <u>\$59.44 \$122.78 \$125.64</u> <u>NON ROADABLE EQUIPMENT:</u> <u>Machine Weight/ Owner ship Cost/hr/uni Cost/hr/uni Size Cost/hr/ Cost/hr/ Ieet Cost/hr/ Ieet Cost/hr/ Inet Cost/hr/ unit Cost/hr/uni Size 1000 \$\$25.00 \$\$41.02 \$\$9.44 1 \$\$100.46 \$\$9.44 \$\$22.00 \$\$250.00 \$\$250.00 \$\$250.00 \$\$250.00 \$\$250.00 \$\$250.00 \$\$250.00 \$\$250.00</u></u></u>	Task description:	Sec	ondary Mobiliza	tion					
Task #:10BState:ColoradoAbbreviation:NoneDate:11/25/2024County:MesaFilename:M243-10bUser:ACYAgency or organization name:DRMSCost Data Source:1 per day Cost Data Source:Cost Data Source:C RG DataTruck Tractor Description:GENERIC ON-HIGHWAY TRUCK TRACTOR, 6X4, DIESEL POWERED, 400 HP (2ND HALF, 2006)Truck Trailer Description:GENERIC FOLDING GOOSENECK, DROP DECK EQUIPMENT TRAILER (25T, 50T, AND 100T)Cost Breakdown: Available Rig Capacities 0-25 Tons 26-4826-50 Tons 25-50 Tons51+ Tons 23.94Ownership Cost/Hour:\$20.48\$25.48\$25.45Operator Cost/Hour:\$26.48\$54.55\$55.55Operator Cost/Hour:\$20.00\$23.53\$23.53Total Unit Cost/Hour:\$59.44\$122.78\$125.64NON ROADABLE EQUIPMENT: Tractor (TONS)Haul Rig Cost/hr/unit tFleet Cost/hr/uni fleetMaur Trip Cost/hr/ fleetDOT Permi Cost/hr/ fleetDill/Broadcast Tractor25.00\$41.02\$59.441\$100.46\$59.44\$250.00Power Mulcher Tractor6.00\$27.21\$39.441\$100.46\$39.44\$250.00Bower LD-906.00\$27.21\$39.441\$100.46\$39.44\$250.00	: S Fruita Grav	Pit	Permit	Action: _ 2024			Permit/Job#	#: <u>M1981243</u>	
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Subtotalar \$197.11 \$110.90 \$500.00	(Bowie LD-90)								
					Subtotals:	\$187.11	\$118	88 \$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. Crew	\$81.06	2	\$162.12	\$162.12
Flatbed Truck, 4x2, 15K GVW	\$70.47	1	\$70.47	\$70.47
Light Duty Pickup, 4x4, 3/4 T.	\$97.64	1	\$97.64	\$97.64

Subtotals: \$330.23 \$330.23

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	GRAND JUNCTION, CO	
Total one-way travel distance:	10.00	miles
Average Travel Speed:	45.00	mph
Total Non-Roadable Mob/Demob Cost *	\$1,510.22	_
** one round trip, no haul rig:	\$140.77	

Transportation Cycle Time:

Non-	
Roadable	Roadable
Equipment	Equipment
0.22	0.22
0.22	0.22
0.50	NA
0.50	NA
1.44	0.44
	Roadable Equipment 0.22 0.22 0.50 0.50

JOB TIME AND COST

Total job time:	2.89	Hours

Total job cost: \$1,657