COST SUMMARY WORK

te: Monogram Mines		Permit Action: 2019-04-22		Permit/Job#: <u>M1978222</u>	
PROJEC	T IDENTIFIC	<u>CATION</u>			
Task #:	000	State:	Colorado	Abbreviation:	None
Date:	4/22/2019	County:	Montrose	Filename:	M222-000
User:	DMC				

Task		Form	Fleet	Task	
1 ask	Description	Used	Size	Hours	Cost
01a	Seal 5 disturbed portals	MINESEAL	1	40.00	\$12,646
02a	Seal maximum 50 drill holes - 300 ft depth	BOREHOLE	1	25.00	\$2,230
03a	Recontour portal staging areas	DOZER	1	15.08	\$3,397
04a	Reveg. 4.1 acre total drill disturbance	REVEGE	1	4.00	\$8,090
05a	Reveg. 1 acre portal areas	REVEGE	1	1.00	\$1,973
06a	Demo concrete ore bins	DEMOLISH	1	8.00	\$1,074
07a	Haul 6" ore pad material to pit for burial	LOADER	1	2.44	\$226
08a	Rip/grade staging-office-ore bin area	RIPPER	1	1.71	\$386
09a	Push 4" topsoil over staging area	DOZER	1	0.45	\$93
10a	Reveg. staging area	REVEGE	1	1.00	\$1,973
11a	Push overburden / waste rock over pit area	DOZER	1	8.21	\$1,711
12a	Push 4" topsoil over pit area	DOZER	1	1.32	\$274
13a	Reveg. pit area	REVEGE	1	2.00	\$3,946
14a	Mobilize reclamation crew/equipment	MOBILIZE	1	4.28	\$4,167
	SUBTOTALS:		TALS:	114.49	\$42,186

INDIRECT COSTS

OVERHEAD AND PROFIT:

\$852 Liability insurance: 2.02 Total = Performance bond: 1.05 Total = \$443 Job superintendent: 57.25 Total = \$4,182 Profit: 10.00 Total = \$4,219

> TOTAL O & P =\$9,695

CONTRACT AMOUNT (direct + O & P) =

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): \$0 Total = 0.00 \$0 Engineering work and/or contract/bid preparation: Total = Reclamation management and/or administration: 5.00 \$2,594

> **CONTINGENCY:** 0.00 Total = \$0

> > TOTAL INDIRECT COST = \$12,290

TOTAL BOND AMOUNT (direct + indirect) = \$54,500

SAFEGUARDING UNDERGROUND OPENINGS

Task	description:	Seal 5 disturbed portals			
Site: Mo	nogram Mines	Permit Action:	2019-04-22	Permit/J	Job#: M1978222UG
ROJECT 1	<u>IDENTIFICATIO</u>	<u>ON</u>			
Task #:	01A	State: Colorado		Abbreviation:	None
Date:	4/22/2019	County: Montrose		Filename:	M222-01a
		-		_	

UNIT COSTS

Opening Description	Dimensions	Closure Method	Quantity	Unit	Unit Cost	Total Cost
Pre-law "reopened" portals	8' x 8'	Adit closure - backfilling (per opening)	5.00	EA	\$2,529.10	\$12,645.50

Job Hours: 40.00 Total Cost: \$12,645.50

BOREHOLE SEALING WORK

Site: N	Ionogram Mines	<u> </u>	Permit Action:	2019-04-22	Permit	/Job#:	M1978222UG
ROJECT	Γ IDENTIFICATION	<u>ON</u>					
Task #:	02A	State:	Colorado		Abbreviation:	None	
Date:	4/22/2019	County:	Montrose		Filename:	M222	2-02a
User:	DMC				•		

UNIT COSTS

Borehole	Sealing/Item Method					TI*4	T-4-1 C4
Description		Diameter	Length	Quantity	Unit	Unit Cost	Total Cost
50 exploration drill holes- bentonite	Bentonite seal - 6 in. (labor, equip, materials)	6	5	250.00	LF	\$5.72	\$1,430.00
50 exploration drill holes-plug	Portland cement grout - 6 in. (labor, equip, materials)	6	3	150.00	LF	\$5.33	\$799.50

Job Hours: 25.00 Total Cost: \$2,230.00

BULLDOZER WORK

Task description:	Recontour porta	l staging are	eas		
e: Monogram Mines	Per	mit Action:	2019-04-22	Permit/Jo	b#: _M1978222UG
PROJECT IDENTIFIC	<u>CATION</u>				
Task #: 03A	State:	Colorado		Abbreviation:	None
Date: 4/22/2019	County:	Montrose		Filename:	03a Doz
User: DMC					
Agency or organ	ization name: DR	MS			
HOURLY EQUIPMEN	NT COST				
Basic Machine: Cat	: D8T - 8SU				
Horsepower: 310			_		
	ni-Universal		_		
Attachment: 3-sl	hank ripper		_		
Shift Basis: 1 pe	er day		_		
Data Source: (CF	RG)		_		
Cost Breakdown:			Utilization %		
Ownership Cost/Hour:		\$93.62	NA		
Operating Cost/Hour:		\$73.35	100		
Ripper own. Cost/Hour:		\$8.93	NA		
Ripper op. Cost/Hour:		\$7.78	100		
Operator Cost/Hour:		\$41.52	NA		
MATERIAL QUANTI Initial Volume: 6,95					
Swell factor: 1.00		_			
Loose volume: 6,95	0 LCY	_			
Source of estimated volu Source of estimated swel factor:			ace /2 *5 = ft3 conv. yo	13	
HOURLY PRODUCT	<u>ION</u>				
Average push distance:	50 feet				
Unadjusted hourly production:	1,400.0 LC	Y/hr			
Materials consistency de	scription: Partly of	onsolidated	stockpile 1.1		
Average push	15 %				
gradient:					
Average site altitude:	6,350 feet				
Material weight:	2,550 lbs/LCY				
Weight description:	Sandstone				
Job Condition Correction 1	Factor_		Source		

Operator Skill:	0.750	(AVG.)
Material consistency:	1.100	(CAT HB)
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	0.666	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3291

Adjusted unit production:

Adjusted fleet production:

460.74 LCY/hr

460.74 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.489/LCY

Total job time: 15.08 Hours
Total job cost: \$3,397

REVEGETATION WORK

	ask description: Monogram Mines	Reveg. 4.1 acre total de	rill disturba ction: 2019		Permit/Job#	: M1978222U0
	V					
<u>PR</u>	OJECT IDENTIFICATION OF THE PROPERTY OF THE PR					
					None M222-04a	
	User: DMC	County:Wion	шозе			1V1222 0-14
	Agency or organ	nization name: DRMS				
FE	RTILIZING					
Ma	terials					
	Description		Units / Acre	Unit	Cost / Unit	Cost /Acre
					\$	\$
					Total Fertilizer Materials Cost/Acre	\$0.00
	plication Description					Cost /Acre
						\$
			Total	l Fertilizer A	Application Cost/Acre	\$0.00
ΓIJ	<u>LLING</u>					.
	Description					Cost /Acre
	Subsoil scarification, (MEANS 32 91 13.23 3100				\$191.66
	Weed control spraying	(MEANS 31 31 16.13 310	0)			\$193.60
1					otal Tilling Cost/Acre	

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Paloma	1.20	3.88	\$11.70
Sand Dropseed	0.04	4.78	\$0.44
Bottlebrush Squirreltail	3.20	14.10	\$76.99
Sandberg Bluegrass - VNS	0.60	12.74	\$4.95
Galleta	0.60	2.19	\$15.17
Sweetvetch, Utah or Northern	0.20	0.09	\$15.36
Needle and Thread	0.80	2.11	\$34.00
Western Wheatgrass - Native	5.60	14.14	\$40.15
Daisy or Sunflower, Maximillians	0.40	2.27	\$22.46

Sagebrush, Mountain or Big	0.10	5.28	\$2.02
Saltbush, Four Wing	0.06	0.08	\$0.77
Globemallow, Scarlet (or copper)	0.18	2.04	\$24.98
Winter Fat	0.10	0.25	\$2.10
Penstemon, Rocky Mountain	0.12	1.88	\$3.63
Yarrow, White	0.06	3.82	\$2.46
Totals Seed Mix	13.26	69.66	\$257.18

Application

Description		Cost /Acre
Broadcast seeding [DMG]		\$267.22
Total Seed A	pplication Cost/Acre	\$267.22

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$288.00	\$576.00
Total Mulch Materials Cost/Acre				\$576.00

Application

Description		Cost /Acre
Power mulcher (MEANS 32 91 13.16 0350)		\$92.78
	Total Mulch Application Cost/Acre	\$92.78

NURSERY STOCK PLANTING

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

JOB TIME AND COST

 No. of Acres:
 4.1
 Cost /Acre:
 \$1,578.44

 Estimated Failure Rate:
 25%
 Cost /Acre*:
 \$1,578.44

*Selected Replanting Work Items: TILLING,SEEDING,MULCHING

Initial Job Cost: \$6,471.60

Reseeding Job Cost: \$1,617.90

Total Job Cost: \$8,090

Job Hours: 4.00

REVEGETATION WORK

Task description:	Reveg. 1 acre portal ar	eas			
e: Monogram Mines	Permit Action: 2019-04-22		Permit/Job#	: <u>M1978222UG</u>	
PROJECT IDENTIFIC	<u>CATION</u>				
Task #: 05A Date: 4/22/2019 User: DMC	State: Colorado County: Montrose				None M222-05a
Agency or organi	zation name: DRMS				
<u>FERTILIZING</u>					
Materials					T
Description		Units / Acre	Unit	Cost / Unit	Cost /Acre
				\$	\$
				Total Fertilizer Materials	
				Cost/Acre	\$0.00
A 3. (*					
Application					
Description					Cost /Acre
					\$
		То4о	Eastii-aa A	pplication Cost/Acre	\$0.00

TILLING

Description	Cost /Acre
Subsoil scarification, (MEANS 32 91 13.23 3100)	\$191.66
Weed control spraying (MEANS 31 31 16.13 3100)	\$193.60
Total Tilling Cost/Acre	\$385.26

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Paloma	1.20	3.88	\$11.70
Sand Dropseed	0.04	4.78	\$0.44
Bottlebrush Squirreltail	3.20	14.10	\$76.99
Sandberg Bluegrass - VNS	0.60	12.74	\$4.95
Galleta	0.60	2.19	\$15.17
Sweetvetch, Utah or Northern	0.20	0.09	\$15.36
Needle and Thread	0.80	2.11	\$34.00
Western Wheatgrass - Native	5.60	14.14	\$40.15
Daisy or Sunflower, Maximillians	0.40	2.27	\$22.46

Sagebrush, Mountain or Big	0.10	5.28	\$2.02
Saltbush, Four Wing	0.06	0.08	\$0.77
Globemallow, Scarlet (or copper)	0.18	2.04	\$24.98
Winter Fat	0.10	0.25	\$2.10
Penstemon, Rocky Mountain	0.12	1.88	\$3.63
Yarrow, White	0.06	3.82	\$2.46
Totals Seed Mix	13.26	69.66	\$257.18

Application

Description		Cost /Acre
Broadcast seeding [DMG]		\$267.22
Total Seed A	pplication Cost/Acre	\$267.22

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$288.00	\$576.00
Total Mulch Materials Cost/Acre				\$576.00

Application

Description		Cost /Acre
Power mulcher (MEANS 32 91 13.16 0350)		\$92.78
	Total Mulch Application Cost/Acre	\$92.78

NURSERY STOCK PLANTING

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

JOB TIME AND COST

No. of Acres:	1	Cost /Acre:	\$1,578.44
Estimated Failure Rate:	25%	Cost /Acre*:	\$1,578.44

*Selected Replanting Work Items: TILLING,SEEDING,MULCHING

Initial Job Cost: \$1,578.44

Reseeding Job Cost: \$394.61

Total Job Cost: \$1,973

1.00

DEMOLITION WORK

Task description	n: Demo	concrete ore bins				
Site: Monogram M	lines	Permit Action: 2019-	04-22	P	ermit/Job#:	M1978222UG
PROJECT IDENTIF	<u>ICATION</u>					
Task #: 06A Date: 4/22/2019 User: DMC Agency		tate: Colorado unty: Montrose DRMS		Abbreviati Filena		
UNIT COSTS	C			Location	ı adjustmen	t: 92.10 %
Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Concrete ore bins	20' x 40' x 6'	(SC) demo./on-site disposal in existing pit or cut - Max. 10,000 ft. haul	4,800.00	CF	\$0.24	\$1,166.40
Job Hours:	8.00	Subtotal (unadjusted): \$1,	166.40	(adju	otal Cost usted for ocation):	\$1,074.25

WHEEL LOADER – LOAD AND CARRY WORK

Task description:	Haul	6" ore pad mater	rial to pit for b	urial		
ee: Monogram Mines		Permit A	ction: 2019-0	4-22	Permit/Job	o#: <u>M1978222UC</u>
PROJECT IDENTI	FICATIO	<u>N</u>				
Task #: 07A			orado		Abbreviation:	None
Date: 4/22/20	19	County: Mon	itrose		Filename:	M222-07a
User: DMC						
Agency or or	ganization n	ame: DRMS				
HOURLY EQUIPM	1ENT COS	<u>ST</u>				
Basic Machine	: CAT 45	0E		Horsepo	ower:	101
Attachment 1				Shift B		er day
1 10000111110110 1			<u></u>	Data So		CRG)
Cost Breakdown:			1			
0 11 0	. /= =	\$2.4.67	Utilizati			
Ownership Co		\$24.67	NA			
Operating Co		\$26.68	100			
Operator Co		\$40.90	NA	<u> </u>		
Total Unit Co	st/Hour:	\$92.25				
Total Fleet Co	ost/Hour: _	\$92.25				
MATERIAL QUAN	NTITIES					
Initial volume:	65	CC		ell factor: 1.3	335	
Loose volume:	8	7 LC	Y			
	e of estimated sv		acre ore pad lo Handbook	ad zone x 6" lif	t	
HOURLY PRODU	CTION					
Loader Cycle Time:		Unadjusted I	Basic Cycle Tin	ne (load, dump, maneuver):	0.475	minutes
Cycle Time Fa	actors				Factor (min.)	Source
Mat	erial: Ma	terial 3/4" to 6" d	iameter 0.00		0.000	(Cat HB)
Stock	kpile: No	adjustment - facto	or not applicable	e 0.00	0.000	(Cat HB)
Truck Owner		adjustment - facto		e 0.00	0.000	(Cat HB)
Opera		stant operation -(0.04		-0.040	(Cat HB)
Dump Ta	arget: No	minal target 0.00			0.000	(Cat HB)
			t Cycle Time A		-0.040	minutes
		A	djusted Basic C	ycle l'ime:	0.435	minutes
Rolling Resistance – R	oad Conditio	o <u>ns</u>				
Hs	ul: Rutte	d dirt, little mainte	enance, no wate	r. 1" tire penetr	ation 4.0	
Retu		d dirt, little mainte				
			manos, no wate	-, i me peneu		
<u>Haul and Return Time</u>						
	Length	Grade Res.	Rolling	Total Res.	Travel Time	g.
	(feet)	(%)	Res. (%)	(%)	(minutes)	Source
Haul Route:	1000	4.00	4.00	8.00	0.9510	(Cat HB)

Return Route:	1000	-4.00	4.00	0.00	0.3516	(Cat HB)
			Total Tra Total Cy	vel Time: cle Time:	1.3026 1.7376	minutes minutes
Load Bucket Capacity						
Rated Capacity Bucket Fill Factor Adjusted Capacity	: 0.825	LCY (he Blasted r LCY	• /	asted (75 - 9	90%) 0.825	
Job Condition Correction I Site Altitude: <u>6350</u> feet	Factors					
		Source				
Altitude Adj:	1.00	(CAT HE	3)			
Job Efficiency:	0.83	(1 shift/da	iy)			
Net Correction:	0.83	multiplier				
Unad	ljusted Hourly Ur	nit Production:	42.73	LCY	/Hour	
Ad	ljusted Hourly Ur	nit Production:	35.47	LCY	/Hour	
Ad	justed Hourly Fle	et Production:	35.47	LCY.	/Hour	
JOB TIME AND COS Fleet size: 1	_	(s)	Total ich tie		2.45	Hours
rieei size:	Loader	(8)	Total job tir	ne	2.45	nours

Unit cost: \$2.601 /LCY Total job cost: \$226

BULLDOZER RIPPING WORK

Ta	sk description:	-	Rip/grade staging	g-office-ore	bin area				
Site:	Monogram M	ines	Per	mit Action:	2019-04-22		Permit/Jol	b#: <u>M19782</u>	222UG
PR	OJECT IDE	NTIFIC	<u>ATION</u>						
	Task #: 082	4	State:	Colorado		Abb	oreviation:	None	
	Date: 4/2 User: DN	2/2019 1 C	County:	Montrose			Filename:	M222-08a	
	Agency	or organiz	zation name: <u>DR</u>	MS					<u> </u>
<u>HO</u>	URLY EQU	IPMEN	T COST						
	Basic I	Machine:	Cat D8T - 8SU		_	Horsepower:		310	_
	Ripper Atta	achment:	3-Shank Ripper		_	Shift Basis: Data Source:		oer day CRG)	_
Cos	t Breakdown:					Data Source.		cito)	_
<u> </u>	t Dreakdo wii.					Utilization %			
					\$93.62 \$73.35	NA 100	_		
	Rinne		ing Cost/Hour: hip Cost/Hour:		\$8.93	NA	_		
					Φπ πο	100	_		
	TOPP		tor Cost/Hour:		\$41.52	NA	_		
		-	nit Cost/Hour:		\$225.20				
		Total Fl	eet Cost/Hour:	\$225	.20				
	ATERIAL QUernate Methods		<u>YIES</u>	Selec	ted estimating	method: Are	ea		
	NA 1.00			k Volume:	NA	BCY	2 225	NA	
Area: _	1.00	acr	es Rip	Depth (ft):	2.00	Volume:	3,227		BCY or C
			f estimated quantity	: DRMS					_
<u>HO</u>	<u>URLY PRO</u>	<u>DUCTI</u>	<u>ON</u>						
<u>Seis</u>	smic:		Saigmia Walaa		NA	feet/se	oomd.		
			Seismic Veloc	nty:	NA	reet/se	cond		
Are	<u>a:</u>								
			verage Ripping Dep		2.56 7.08	feet/pa			
			verage Ripping Wid erage Ripping Leng		100.00	feet/pa feet/pa			
			Average Dozer Spe		88.00	feet/m			
			erage Maneuver Ti		0.25	minute			
			oduction per unit a		0.703	acres/l	•		
<u>Job</u>	Condition Cor	rection Fa	actors						
	Una	djusted H	ourly Unit Product	on:	0.703	Acres/	hr hr		
			Site Altitu		6,350	feet			
			Altitude A		1.00	(CAT			
			Job Efficier Net Correct		0.83	(1 shif multip			
			usted Hourly Unit F ested Hourly Fleet F	roduction:	0.58 0.58	Acres/hr Acres/hr			
JO	B TIME AN	D COST							
	Fleet size:	1	Grader(s)		Total job tim	ne:	1.71	Hours	S
	Unit cost:	\$385.7	19 Per acre		Total job co	st:	\$386		

BULLDOZER WORK

Task description: Push 4" topsoil over s	staging are	a		
e: Monogram Mines Permit A	Action: 20	19-04-22	Permit/Jo	b#: <u>M1978222UG</u>
PROJECT IDENTIFICATION				
	lorado ontrose		Abbreviation: Filename:	None M222-09a
Agency or organization name: <u>DRMS</u>				
HOURLY EQUIPMENT COST				
Basic Machine: Cat D8T - 8SU Horsepower: 310 Blade Type: Semi-Universal NA				
Shift Basis: 1 per day				
Data Source: (CRG)				
Cost Breakdown:	02 62	Utilization % NA		
	93.62 73.35	100		
Ripper own.	\$0.00	NA		
Cost/Hour:	\$0.00	0		
11 1	41.52	NA		
Total Fleet Cost/Hour: \$208.49 MATERIAL QUANTITIES		-		
Initial Volume: 537				
Swell factor: 1.000 Loose volume: 537 LCY				
Source of estimated volume: Source of estimated swell factor: 1 ac. 4" depth Cat Handbook		-		
HOURLY PRODUCTION				
Average push distance: 50 feet		=		
Unadjusted hourly 1,400.0 LCY/hr production:		-		
Materials consistency description: Loose stocky	pile 1.2			
Average push 0 % gradient:				
Average site altitude: 6,350 feet				
Material weight: 1,600 lbs/LCY				
Weight description: Top Soil				
Job Condition Correction Factor		Source		

Operator Skill:	0.750	(AVG.)
Material consistency:	1.200	(CAT HB)
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.8593

Adjusted unit production:

1,203.02 LCY/hr

Adjusted fleet production:

1203.02 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.173/LCY

Total job time: 0.45 Hours

Total job cost: \$93

REVEGETATION WORK

Monogram Mines Perm	it Action: 2019	-04-22	Permit/Job#	t: <u>M1978222U</u>
ROJECT IDENTIFICATION				
Date: 4/22/2019 County: User: DMC	Colorado Montrose			None M222-10a
Agency or organization name: <u>DRN</u>	1S			
<u>ERTILIZING</u>				
aterials				
Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Materials Cost/Acre	\$0.00
		1		
				1
pplication				Cost /Acre
pplication Description				
				\$

Description	Cost /Acre
Subsoil scarification, (MEANS 32 91 13.23 3100)	\$191.66
Weed control spraying (MEANS 31 31 16.13 3100)	\$193.60
Total Tilling Cost/Acre	\$385.26

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Paloma	1.20	3.88	\$11.70
Sand Dropseed	0.04	4.78	\$0.44
Bottlebrush Squirreltail	3.20	14.10	\$76.99
Sandberg Bluegrass - VNS	0.60	12.74	\$4.95
Galleta	0.60	2.19	\$15.17
Sweetvetch, Utah or Northern	0.20	0.09	\$15.36
Needle and Thread	0.80	2.11	\$34.00
Western Wheatgrass - Native	5.60	14.14	\$40.15
Daisy or Sunflower, Maximillians	0.40	2.27	\$22.46

Sagebrush, Mountain or Big	0.10	5.28	\$2.02
Saltbush, Four Wing	0.06	0.08	\$0.77
Globemallow, Scarlet (or copper)	0.18	2.04	\$24.98
Winter Fat	0.10	0.25	\$2.10
Penstemon, Rocky Mountain	0.12	1.88	\$3.63
Yarrow, White	0.06	3.82	\$2.46
Totals Seed Mix	13.26	69.66	\$257.18

Application

Description		Cost /Acre
Broadcast seeding [DMG]		\$267.22
Total Seed A	pplication Cost/Acre	\$267.22

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$288.00	\$576.00
Total Mulch Materials Cost/Acre				\$576.00

Application

Description		Cost /Acre
Power mulcher (MEANS 32 91 13.16 0350)		\$92.78
	Total Mulch Application Cost/Acre	\$92.78

NURSERY STOCK PLANTING

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

JOB TIME AND COST

No. of Acres:	1	Cost /Acre:	\$1,578.44
Estimated Failure Rate:	25%	Cost /Acre*:	\$1,578.44

*Selected Replanting Work Items: TILLING, SEEDING, MULCHING

Initial Job Cost: \$1,578.44

Reseeding Job Cost: \$394.61

Total Job Cost: \$1,973

1.00

BULLDOZER WORK

Task description: Push overburden / waste	rock over pit area
e: Monogram Mines Permit Action	on: <u>2019-04-22</u> Permit/Job#: <u>M1978222UG</u>
PROJECT IDENTIFICATION	
Task #: 11A State: Colorad Date: 4/22/2019 County: Montros User: DMC	
Agency or organization name: DRMS	
HOURLY EQUIPMENT COST	
Basic Machine: Cat D8T - 8SU Horsepower: 310 Blade Type: Semi-Universal	
Attachment: NA Shift Basis: 1 per day	<u></u>
Data Source: (CRG)	
Cost Breakdown:	Utilization %
Ownership Cost/Hour: \$93.62	2 NA
Operating Cost/Hour: \$73.35	5 100
Ripper own. Cost/Hour: \$0.00	0 NA
Ripper op. Cost/Hour: \$0.00	0 0
Operator Cost/Hour: \$41.52	2 NA
Total unit Cost/Hour: \$208.49 Total Fleet Cost/Hour: \$208.49 MATERIAL QUANTITIES	
Initial Volume: 3,250	
Swell factor: 1.000 Loose volume: 3,250 LCY	
Source of estimated volume: Source of estimated swell factor: 2 acres 1' depth Cat Handbook	
HOURLY PRODUCTION	
Average push distance: 100 feet Unadjusted hourly 852.6 LCY/hr	
production: Materials consistency description: Loose stockpile	1 2
· · · · · · · · · · · · · · · · · · ·	1.2
Average push -5 % gradient:	
Average site altitude: 6,350 feet	
Material weight: 3,300 lbs/LCY	
Weight description: Decomposed rock - 75% Ro	ock, 25% Earth
Job Condition Correction Factor	Source

Operator Skill:	0.750	(AVG.)
Material consistency:	1.200	(CAT HB)
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.115	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.697	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4644

Adjusted unit production:
Adjusted fleet production:

395.95 LCY/hr

395.95 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.527/LCY

Total job time: 8.21 Hours Total job cost: \$1,711

BULLDOZER WORK

Task description: Push 4" topsoil over pi	it area		
te: Monogram Mines Permit Ac	etion:2019-04-22	Permit/Jo	b#: <u>M1978222</u> UG
PROJECT IDENTIFICATION			
Task #: 12A State: Color Date: 4/22/2019 County: Mon User: DMC	rado trose	Abbreviation: Filename:	None M222-12a
Agency or organization name: <u>DRMS</u>			
HOURLY EQUIPMENT COST			
Basic Machine: Cat D8T - 8SU Horsepower: 310			
Horsepower: 310 Blade Type: Semi-Universal			
Attachment: NA			
Shift Basis: 1 per day			
Data Source: (CRG)			
Cost Breakdown:			
	<u>Utilization %</u>		
	3.62 NA 3.35 100		
Rinner own			
Cost/Hour:	0.00 NA		
11 1	0.00		
Operator Cost/Hour: \$41	.52 NA		
Total unit Cost/Hour: \$208.49			
Total Fleet Cost/Hour: \$208.49			
	<u> </u>		
MATERIAL QUANTITIES			
Initial Volume: 1,075			
Swell factor: 1.000			
Loose volume: 1,075 LCY			
Source of estimated volume: 2 acres 4" depth	h		
Source of estimated volume. Source of estimated swell Cat Handbook	<u> </u>		
factor:			
HOURLY PRODUCTION			
Average push distance: 100 feet			
Unadjusted hourly 852.6 LCY/hr			
production:			
•			
Materials consistency description: Loose stockpi	ile 1.2		
Average push -5 %			
gradient:			
Average site altitude: 6,350 feet			
Material weight: 1,600 lbs/LCY			
Weight description: Top Soil		_	
Job Condition Correction Factor	Source		

Operator Skill:	0.750	(AVG.)
Material consistency:	1.200	(CAT HB)
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.115	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.9582

Adjusted unit production:
Adjusted fleet production:

816.96 LCY/hr

816.96 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.255/LCY

Total job time: 1.32 Hours
Total job cost: \$274

REVEGETATION WORK

: Monogram Mines Permit	t Action: 2019	-04-22	Permit/Job#	: M1978222U0
PROJECT IDENTIFICATION				
	Colorado Montrose			None M222-13a
Agency or organization name: <u>DRMS</u>	S			
TERTILIZING Interials	Units /	Ti:4	Cost / Unit	Cost /Acre
Description	Acre	Unit	Cost / Unit	Cost/Acre
			\$	\$
			Total Fertilizer Materials Cost/Acre	\$0.00
pplication				
				Cost /Acre
Description				
Description				\$

TILLING

Description	Cost /Acre
Subsoil scarification, (MEANS 32 91 13.23 3100)	\$191.66
Weed control spraying (MEANS 31 31 16.13 3100)	\$193.60
Total Tilling Cost/Acre	\$385.26

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Paloma	1.20	3.88	\$11.70
Sand Dropseed	0.04	4.78	\$0.44
Bottlebrush Squirreltail	3.20	14.10	\$76.99
Sandberg Bluegrass - VNS	0.60	12.74	\$4.95
Galleta	0.60	2.19	\$15.17
Sweetvetch, Utah or Northern	0.20	0.09	\$15.36
Needle and Thread	0.80	2.11	\$34.00
Western Wheatgrass - Native	5.60	14.14	\$40.15
Daisy or Sunflower, Maximillians	0.40	2.27	\$22.46

Sagebrush, Mountain or Big	0.10	5.28	\$2.02
Saltbush, Four Wing	0.06	0.08	\$0.77
Globemallow, Scarlet (or copper)	0.18	2.04	\$24.98
Winter Fat	0.10	0.25	\$2.10
Penstemon, Rocky Mountain	0.12	1.88	\$3.63
Yarrow, White	0.06	3.82	\$2.46
Totals Seed Mix	13.26	69.66	\$257.18

Application

Description		Cost /Acre
Broadcast seeding [DMG]		\$267.22
Total Seed A	pplication Cost/Acre	\$267.22

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$288.00	\$576.00
Total Mulch Materials Cost/Acre				\$576.00

Application

Description		Cost /Acre
Power mulcher (MEANS 32 91 13.16 0350)		\$92.78
	Total Mulch Application Cost/Acre	\$92.78

NURSERY STOCK PLANTING

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

JOB TIME AND COST

No. of Acres: 2 Cost /Acre: \$1,578.44 Estimated Failure Rate: 25% Cost /Acre*: \$1,578.44

*Selected Replanting Work Items: TILLING,SEEDING,MULCHING

Initial Job Cost: \$3,156.88

Reseeding Job Cost: \$789.22

Total Job Cost: \$3,946

2.00

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description:	Mobilize reclan	nation crew/e	quipment		
e: Monogram Mines	Pe	ermit Action:	2019-04-22	Permit/Jo	bb#: <u>M1978222UG</u>
PROJECT IDENTIFICA	TION				
Task #: 14A	State:	Colorado		Abbreviation:	None
Date: 4/22/2019 User: DMC	County:	Montrose		Filename:	M222-14a
Agency or organiza	tion name: D	RMS			
EQUIPMENT TRANSPO	ORT RIG CO	<u>ST</u>			
				Shift basis:	1 per day
				Cost Data Source:	CRG Data
Truck Tractor D	escription: G	ENERIC ON-		TRUCK TRACTOR, 6X4, HP (2ND HALF, 2006)	DIESEL POWERED,
Truck Trailer D	escription:	GENERIC	FOLDING (GOOSENECK, DROP DEC	CK EQUIPMENT
			TRAII	ER (25T, 50T, AND 100T)
Cost Breakdown:					
Available Rig Capacities	0-25 Ton	s 26-50	Tons	51+ Tons	
Ownership Cost/Hou	r: \$16.63	\$18	3.37	\$22.33	
Operating Cost/Hou	r: \$44.38	\$46	5.13	\$50.07	
Operator Cost/Hou	r: \$27.66	\$27	7.66	\$27.66	
Helper Cost/Hou	r: \$0.00	\$25	5.39	\$25.39	

NON ROADABLE EQUIPMENT:

Total Unit Cost/Hour:

\$88.67

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	\$102.55	\$125.45	1	\$228.00	\$125.45	\$250.00
CAT 450E	9.80	\$24.67	\$88.67	1	\$113.34	\$88.67	\$250.00
Drill/Broadcast	25.00	\$15.54	\$88.67	1	\$104.21	\$88.67	\$250.00
Seeder with							
Tractor							
Power Mulcher	6.00	\$8.33	\$88.67	1	\$97.00	\$88.67	\$250.00
(Bowie LD-90)							

\$117.55

\$125.45

Subtotals: \$542.55 \$391.46 \$1,000.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Light Duty Pickup, 4x4, 3/4 T.	\$12.23	1	\$12.23	\$12.23

Subtotals	¢12 23	¢12 23

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:
Total one-way travel distance:
Average Travel Speed:

NUCLA/NATURITA
miles
35.00
mph

Total Non-Roadable Mob/Demob Cost *
 '* two round trips with haul rig:
Total Roadable Mob/Demob Cost **
 ** one round trip, no haul rig:

\$4,152.54

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.57	0.57
Return Time (Hours):	0.57	0.57
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	2.14	1.14
Subtotals:	2.14	1.14

JOB TIME AND COST

Total job cost: 4.29 Hours

Total job cost: \$4,167