

COST SUMMARY WORK

Task description: _____

Site: Yoast Mine

Permit Action: MT6

Permit/Job#: C1994082

PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 12/19/2022

County: Routt

Filename: C082-000

User: RAR

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Herbicide Plateau Remains	REVEGE	1	100.00	\$22,179
031	Regrade Pond 011	DOZER	1	30.20	\$10,518
032	Regrade Pond 012	DOZER	1	96.23	\$33,511
035	Reconstruct Drainage Channels	POSTMININ G	1	92.44	\$31,488
037	Regrade Pond 12A	DOZER	1	44.72	\$15,573
046	Replace Topsoil from Stockpile L to Unreleased Pond 12 Area	SCRAPER1	2	73.72	\$198,482
065	Drill Seed Mix 1	REVEGE	1	173.90	\$5,546
066	Drill Seed mix 2	REVEGE	1	19.00	\$13,454
068	Broadcast Seed Mix 1	REVEGE	1	13.00	\$18,217
070	Shrub/Tree Planting - List 1 - Areas NOT Released	REVEGE	1	20.00	\$59,876
074	Drill Seed Mix 1 - Reseed Phase II Areas-100% of 19.85 Acre	REVEGE	1	252.30	\$9,588
085	Mobilize/Demobilize Equipment for Initial Reclamation	MOBILIZE	1	3.33	\$12,695
086	Mobilize/Demobilize Equipment for Pond Removal	MOBILIZE	1	3.33	\$2,946
087	Mobilize/Demobilize Equipment for Site Maintenance	MOBILIZE	1	11.33	\$58,933
<u>SUBTOTALS:</u>				933.5	\$493,006

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02

Performance bond: 1.05

Job superintendent: 407.75

Profit: 10.00

Total = \$9,959

Total = \$5,177

Total = \$30,634

Total = \$49,301

TOTAL O & P = \$95,070

CONTRACT AMOUNT (direct + O & P) = \$588,076

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs):	<u>\$500</u>	Total =	<u>\$500</u>
Engineering work and/or contract/bid preparation:	<u>6.59</u>	Total =	<u>\$38,754</u>
Reclamation management and/or administration:	<u>4.89</u>		<u>\$28,757</u>

CONTINGENCY:	0.00	Total =	<u>\$0</u>
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TOTAL INDIRECT COST =	<u>\$163,081</u>
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TOTAL BOND AMOUNT (direct + indirect) =	<u>\$656,087</u>
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REVEGETATION WORKTask description: Herbicide Plateau RemainsSite: Yoast MinePermit Action: MT6Permit/Job#: C1994082PROJECT IDENTIFICATIONTask #: 001State: ColoradoAbbreviation: NoneDate: 1/26/2023County: RouttFilename: C1994082User: RARAgency or organization name: DRMSFERTILIZING**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
	\$
Total Tilling Cost/Acre	\$0.00

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
			\$
Totals Seed Mix	0.00	0.00	\$0.00

Application

Description	Cost /Acre
	\$

Total Seed Application Cost/Acre	\$0.00
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MULCHING and MISCELLANEOUS**Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost / Acre
Herbicide - Plateau @ 1.0 pt/ac	1.00	ACRE	\$11.21	\$11.21
Total Mulch Materials Cost/Acre				\$11.21

Application

Description	Cost / Acre
Weed spray, truck, non-aquatic area, nox. [DMG]	\$62.72
Total Mulch Application Cost/Acre	\$62.72

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:	300	Cost /Acre:	\$73.93
Estimated Failure Rate:	20%	Cost /Acre*:	\$0.00
*Selected Replanting Work Items:	NONE		

Initial Job Cost:	\$22,179.00
Reseeding Job Cost:	\$0.00
Total Job Cost:	\$22,179
Job Hours:	100.00

BULLDOZER WORKTask description: Regrade Pond 011Site: Yoast MinePermit Action: MT6Permit/Job#: C1994082PROJECT IDENTIFICATIONTask #: 031State: ColoradoAbbreviation: NoneDate: 12/16/2022County: RouttFilename: 1994082User: RARAgency or organization name: DRMSHOURLY EQUIPMENT COSTBasic Machine: Cat D9T - 9SUHorsepower: 405Blade Type: Semi-UniversalAttachment: 3-shank ripperShift Basis: 1 per dayData Source: (CRG)Cost Breakdown:

		<u>Utilization %</u>
Ownership Cost/Hour:	\$146.30	NA
Operating Cost/Hour:	\$141.41	100
Ripper own. Cost/Hour:	\$17.01	NA
Ripper op. Cost/Hour:	\$2.21	25
Operator Cost/Hour:	\$41.30	NA

Total unit Cost/Hour: \$348.23Total Fleet Cost/Hour: \$348.23MATERIAL QUANTITIESInitial Volume: 8,389Swell factor: 1.165Loose volume: 9,773 LCYSource of estimated volume: Division of Reclamation, Mining & SafetySource of estimated swell
factor: Cat Handbook

HOURLY PRODUCTION

Average push distance: 150 feet
 Unadjusted hourly production: 910.5 LCY/hr

Materials consistency description: Compacted fill or embankment 0.9

Average push gradient: 0 %
 Average site altitude: 7,000 feet

Material weight: 2,900 lbs/LCY

Weight description: Decomposed rock - 50% Rock, 50% Earth

Job Condition Correction Factor

		<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	0.900	(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:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3554

Adjusted unit production: 323.59 LCY/hr
 Adjusted fleet production: **323.59** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
 Unit cost: \$1.076/LCY

Total job time: **30.20** Hours
 Total job cost: **\$10,518**

BULLDOZER WORKTask description: Regrade Pond 012Site: Yoast MinePermit Action: MT6Permit/Job#: C1994082PROJECT IDENTIFICATIONTask #: 032State: ColoradoAbbreviation: NoneDate: 12/16/2022County: RouttFilename: 1994082User: RARAgency or organization name: DRMSHOURLY EQUIPMENT COSTBasic Machine: Cat D9T - 9SUHorsepower: 405Blade Type: Semi-UniversalAttachment: 3-shank ripperShift Basis: 1 per dayData Source: (CRG)Cost Breakdown:

		<u>Utilization %</u>
Ownership Cost/Hour:	\$146.30	NA
Operating Cost/Hour:	\$141.41	100
Ripper own. Cost/Hour:	\$17.01	NA
Ripper op. Cost/Hour:	\$2.21	25
Operator Cost/Hour:	\$41.30	NA

Total unit Cost/Hour: \$348.23Total Fleet Cost/Hour: **\$348.23**MATERIAL QUANTITIESInitial Volume: 26,729Swell factor: 1.165Loose volume: **31,139** LCYSource of estimated volume: Division of Reclamation, Mining & SafetySource of estimated swell
factor: Cat Handbook

HOURLY PRODUCTION

Average push distance: 150 feet
 Unadjusted hourly production: 910.5 LCY/hr

Materials consistency description: Compacted fill or embankment 0.9

Average push gradient: 0 %
 Average site altitude: 7,250 feet

Material weight: 2,900 lbs/LCY

Weight description: Decomposed rock - 50% Rock, 50% Earth

Job Condition Correction Factor

		<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	0.900	(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:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3554

Adjusted unit production: 323.59 LCY/hr
 Adjusted fleet production: 323.59 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
 Unit cost: \$1.076/LCY

Total job time: 96.23 Hours
 Total job cost: \$33,511

Post-Mining Drainage Channel Construction (Ditches)

Task description: Reconstruct Drainage Channels

Site: Yoast Mine

Permit Action: MT6

Permit/Job#: C1994082

PROJECT IDENTIFICATION

Task #: 035

State: Colorado

Abbreviation: None

Date: 2/1/2023

County: Routt

Filename: MT6

User: RAR

Agency or organization name: DRMS

Channel	Length (ft)	Depth (ft)	Width (bottom) (ft)	Side Slopes (XH:1V)	Width (top) (ft)	Excavated Vol./LF (CY)	Excavated Vol. (total) (CY)
YPM-4	150	0.50	1.00	3.00	4.00	0.0463	7
TPM-5-1	0	0.00	0.00	0.00	0.00	0.0000	0
YPM 6-2	1,440	0.80	5.00	3.00	9.80	0.2193	316
YPM 6-3	750	0.90	5.00	3.00	10.40	0.2567	193
YPM 7	1,540	0.80	2.00	3.00	6.80	0.1304	201
YPM 13	1,130	1.30	2.00	3.00	9.80	0.2841	321
YPM 20	0	0.00	0.00	0.00	0.00	0.0000	0
Totals:	5,010						1,037

Riprap	Riprap Thickness (2xD50) (ft)	Perimeter, P (ft)	Area for Geotextile (excl. anchor trenches) (sf)	Riprap Vol. (CY)
	0.00	4.16	624	0
	0.00	0.00	0	0
	0.00	10.06	14,486	0
	0.00	10.69	8,019	0
	0.00	7.06	10,872	0
	0.00	10.22	11,551	0
	0.00	0.00	0	0
Totals:			45,552	0

Materials Needed:

Geotextile (SY incl. 15%
wastage): 5,821
Riprap (CY): 0
Excavation (CY): 1,037

Costs:

Material Costs:	Geotextile (SY):	\$4.26	Riprap (CY):	\$37.00	Excavation (CY):	\$0.00
Labor Cost:		\$0.30		\$14.05		\$2.73
Equipment Cost:		\$0.00		\$13.95		\$2.04
Means Reference	31 32 1916 1510		31 37 1310 0100		31 23 1642 0310	

Totals:

Geotextile (SY):	<u>\$26,541.59</u>
Riprap (CY):	<u>\$0.00</u>
Excavation (CY):	<u>\$4,946.26</u>

Hours:

Geotextile (SY):	66.52
87.50 SY/HR	
Riprap (CY):	<u>0.00</u>
7.75 CY/HR	
Excavation (CY):	25.92
40.00 CY/HR	

Total Post-Mining Channel Reconstruction hours:	<u>92.44</u>	Hours
Total Post-Mining Channel Reconstruction Cost:	<u>\$31,488</u>	

BULLDOZER WORKTask description: Regrade Pond 12ASite: Yoast MinePermit Action: MT6Permit/Job#: C1994082PROJECT IDENTIFICATIONTask #: 037State: ColoradoAbbreviation: NoneDate: 12/19/2022County: RouttFilename: 1994082User: RARAgency or organization name: DRMSHOURLY EQUIPMENT COSTBasic Machine: Cat D9T - 9SUHorsepower: 405Blade Type: Semi-UniversalAttachment: 3-shank ripperShift Basis: 1 per dayData Source: (CRG)Cost Breakdown:

		<u>Utilization %</u>
Ownership Cost/Hour:	\$146.30	NA
Operating Cost/Hour:	\$141.41	100
Ripper own. Cost/Hour:	\$17.01	NA
Ripper op. Cost/Hour:	\$2.21	25
Operator Cost/Hour:	\$41.30	NA

Total unit Cost/Hour: \$348.23Total Fleet Cost/Hour: **\$348.23**MATERIAL QUANTITIESInitial Volume: 9,920Swell factor: 1.165Loose volume: **11,557** LCYSource of estimated volume: Division of Reclamation, Mining & SafetySource of estimated swell
factor: Cat Handbook

HOURLY PRODUCTION

Average push distance: 175 feet
 Unadjusted hourly production: 805.3 LCY/hr

Materials consistency description: Compacted fill or embankment 0.9

Average push gradient: 5 %
 Average site altitude: 7,400 feet

Material weight: 2,900 lbs/LCY

Weight description: Decomposed rock - 50% Rock, 50% Earth

Job Condition Correction Factor

		<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	0.900	(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:	0.903	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3209

Adjusted unit production: 258.42 LCY/hr
 Adjusted fleet production: 258.42 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
 Unit cost: \$1.348/LCY

Total job time: 44.72 Hours
 Total job cost: \$15,573

SCRAPER TEAM WORKTask description: **Replace Topsoil from Stockpile L to Unreleased Pond 12 Area**Site: **Yoast Mine**Permit Action: **MT6**Permit/Job#: **C1994082****PROJECT IDENTIFICATION**Task #: **046**State: **Colorado**Abbreviation: **None**Date: **12/19/2022**County: **Routt**Filename: **1994082**User: **RAR**Agency or organization name: **DRMS****HOURLY EQUIPMENT**COSTShift basis: **1 per day**

	Equipment Description
-Scraper:	Cat 637G w/push-pull
-Dozer:	NA
Support Equipment -Load Area:	NA
-Dump Area:	NA
Road Maintenance -Motor Grader:	CAT 14M
-Water Truck:	Water Tanker, 10,000 Gal.

Cost Breakdown:

	Scraper Work Team		Support Equipment		Maintenance Equipment	
	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	NA	NA	NA	25	25
Ownership cost/hour:	\$287.19	NA	NA	NA	\$114.80	\$91.73
Operating cost/hour:	\$277.83	NA	NA	NA	\$19.85	\$32.57
%Utilization-ripper:	NA	NA	NA	NA	NA	NA
Ripper own. cost/hour:	NA	NA	NA	NA	\$0.00	\$0.00
Ripper op. cost/hour:	NA	NA	NA	NA	\$0.00	\$0.00
Operator cost/hour:	\$30.90	NA	NA	NA	\$28.56	\$21.12
Unit Subtotals:	\$595.92	NA	NA	NA	\$163.20	\$145.42
Number of Units:	4	0	0	0	1	1
Group Subtotals:	Work:	\$2,383.68	Support:	\$0.00	Maint:	\$308.62

Total work team cost/hour: **\$2,692.30****MATERIAL QUANTITIES**Initial volume: **127,255**

CCY

Swell factor: **1.115**Loose volume: **141,889**

LCY

Source of estimated volume: **Division of Reclamation, Mining & Safety**Source of estimated swell factor: **Cat Handbook****HOURLY PRODUCTION****Scraper Bowl (volume) Basis:**

Material weight:	<u>2,100 lbs/LCY</u>	Struck Volume:	<u>24.00</u>	LCY
Material description:	<u>Earth - Loam</u>	Heaped Volume:	<u>34.00</u>	LCY
Rated Payload:	<u>81,600 pounds</u>	Average Volume:	<u>29.00</u>	LCY
Payload Capacity:	<u>38.86 LCY</u>	Adjusted Capacity:	<u>29.00</u>	LCY

Cycle Time:

Scraper Loading Time: 1.00 Minutes
 Maneuver and Spread Time: 0.60 Minutes

Job Condition Correction:

Site Altitude: 7800 feet

	Scraper	Push Dozer	Source
Altitude Adj:	0.980	NA	(CAT HB)
Job Efficiency:	0.830	NA	(CAT HB)
Net Correction:	0.813	NA	

Travel Time:Road Condition: Firm, smooth, rolling, dirt/lt. surfaced, watered, maintained 3.0Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1400.00	-5.00	3.00	-2.00	2972	0.53

Haul Time: 0.53 minutesReturn Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1400.00	5.00	3.00	8.00	1931	0.81

Return Time: 0.81 minutes

Total Scraper team cycle time: 2.94 minutes
 Adjusted for job conditions: 962.33 LCY/Hour
 Selected Number of Scrapers: 2 Scraper(s)
 Adjusted single scraper team (unit) hourly production: 962.33 LCY/Hour
 Adjusted multiple scraper team (fleet) hourly production: 1,924.65 LCY/Hour

Unadjusted unit production/hour: 1,183.67 LCY/Hour
 Optimal Number of Scrapers per push
 dozer: _____

JOB TIME AND COST

Fleet size: 2 Team(s) Total job time: 73.72 Hours
 Unit cost: \$1.399 /LCY Total job cost: \$198,482

REVEGETATION WORKTask description: **Drill Seed Mix 1**Site: **Yoast Mine**Permit Action: **MT6**Permit/Job#: **C1994082****PROJECT IDENTIFICATION**Task #: **065**State: **Colorado**Abbreviation: **None**Date: **12/19/2022**County: **Routt**Filename: **1994082**User: **RAR**Agency or organization name: **DRMS****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)	\$117.18
Total Tilling Cost/Acre	\$117.18

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Arrowleaf Balsamroot	0.50	0.62	\$35.10
Alpine Fescue	0.10	2.98	\$1.81
Big Bluegrass - Sherman	0.10	2.07	\$0.85
Bitterbrush, Antelope	1.00	0.31	\$19.50
Orchardgrass - Paiute	0.03	0.37	\$0.12
Mountain Brome - Bromar	1.10	1.77	\$4.18
Slender Wheatgrass - San Luis	1.10	4.02	\$4.68
Streambank Wheatgrass - Sodar	0.50	1.63	\$2.85
Thickspike Wheatgrass - Critana	0.50	1.77	\$3.44
Needlegrass, Green - Lodorm	1.10	4.57	\$12.95
Western Wheatgrass - Rosanna	1.10	2.78	\$6.33
Sagebrush, Mountain or Big	0.25	13.20	\$4.94

Flax, Lewis Blue	0.50	3.32	\$8.25
Snowberry, Mountain	0.50	0.86	\$25.25
Penstemon, Palmer	0.10	2.21	\$5.45
Penstemon, Rocky Mountain	0.25	3.92	\$7.38
Yarrow, Western	0.10	6.08	\$4.18
Basin Wildrye - Trailhead	1.10	4.47	\$16.95
Canada Bluegrass - Reubens	0.05	2.87	\$0.33
Alfalfa - Travois (Yellow Alfalfa)	0.10	0.48	\$0.26
Lupine, Tailcup	1.00	0.55	\$72.00
Bluebunch Wheatgrass - Goldar	0.50	1.61	\$2.30
Aster, Pacific	0.10	1.74	\$11.95
Totals Seed Mix	11.68	64.19	\$251.02

Application

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

MULCHING and MISCELLANEOUS**Materials**

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

Application

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

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: 8.4 Cost /Acre: \$600.20
 Estimated Failure Rate: 10% Cost /Acre*: \$600.20
 *Selected Replanting Work Items: TILLING,SEEDING

Initial Job Cost: \$5,041.68
 Reseeding Job Cost: \$504.17
 Total Job Cost: \$5,546

Job Hours: 173.90

REVEGETATION WORKTask description: **Drill Seed mix 2**Site: **Yoast Mine**Permit Action: **MT6**Permit/Job#: **C1994082****PROJECT IDENTIFICATION**Task #: **066**State: **Colorado**Abbreviation: **None**Date: **12/19/2022**County: **Routt**Filename: **1994082**User: **RAR**Agency or organization name: **DRMS****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)	\$117.18
Total Tilling Cost/Acre	\$117.18

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Big Bluegrass - Sherman	0.50	10.33	\$4.24
Beardless (Creeping) Wildrye - Shoshone	3.00	10.33	\$70.26
Blue Wildrye - Arlington or Elkton	1.00	3.44	\$6.66
Mountain Brome - Bromar	2.00	3.21	\$7.60
Blanketflower, Perennial	0.25	0.75	\$13.50
Slender Wheatgrass - San Luis	2.00	7.30	\$8.50
Needlegrass, Green - Lodorm	1.00	4.16	\$11.78
Western Wheatgrass - Rosanna	3.00	7.58	\$17.25
Rose, Wood's	1.00	0.00	\$20.50
Sagebrush, Silver	0.25	4.86	\$7.75
Reed Canarygrass - VNS	0.25	2.90	\$1.24
Snowberry, Mountain	2.00	3.44	\$101.00

Penstemon, Rocky Mountain	0.25	3.92	\$7.38
Yarrow, Western	0.10	6.08	\$4.18
Basin Wildrye - Trailhead	2.00	8.13	\$30.82
Lupine, Tailcup	1.00	0.55	\$72.00
Aster, Pacific	0.10	1.74	\$11.95
Totals Seed Mix	19.70	78.72	\$396.60

Application

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

MULCHING and MISCELLANEOUS**Materials**

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

Application

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

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:	16.4	Cost /Acre:	\$745.78
Estimated Failure Rate:	10%	Cost /Acre*:	\$745.78
*Selected Replanting Work Items: TILLING,SEEDING			

Initial Job Cost:	\$12,230.79
Reseeding Job Cost:	\$1,223.08
Total Job Cost:	\$13,454
Job Hours:	19.00

REVEGETATION WORKTask description: **Broadcast Seed Mix 1**Site: **Yoast Mine**Permit Action: **MT6**Permit/Job#: **C1994082****PROJECT IDENTIFICATION**Task #: **068**State: **Colorado**Abbreviation: **None**Date: **12/19/2022**County: **Routt**Filename: **1994082**User: **RAR**Agency or organization name: **DRMS****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)	\$117.18
Total Tilling Cost/Acre	\$117.18

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Arrowleaf Balsamroot	1.00	1.24	\$70.20
Alpine Fescue	0.20	5.97	\$3.62
Big Bluegrass - Sherman	0.20	4.13	\$1.70
Bitterbrush, Antelope	2.00	0.62	\$39.00
Orchardgrass - Paiute	0.06	0.74	\$0.24
Mountain Brome - Bromar	2.20	3.54	\$8.36
Slender Wheatgrass - San Luis	2.20	8.03	\$9.35
Streambank Wheatgrass - Sodar	1.00	3.26	\$5.70
Thickspike Wheatgrass - Critana	1.00	3.54	\$6.88
Needlegrass, Green - Lodorm	2.20	9.14	\$25.91
Western Wheatgrass - Rosanna	2.20	5.56	\$12.65
Sagebrush, Mountain or Big	0.50	26.40	\$9.88

Flax, Lewis Blue	1.00	6.63	\$16.50
Snowberry, Mountain	1.00	1.72	\$50.50
Penstemon, Palmer	0.20	4.42	\$10.90
Penstemon, Rocky Mountain	0.50	7.84	\$14.75
Yarrow, Western	0.20	12.16	\$8.36
Basin Wildrye - Trailhead	2.20	8.94	\$33.90
Canada Bluegrass - Reubens	0.10	5.74	\$0.65
Alfalfa - Travois (Yellow Alfalfa)	0.20	0.96	\$0.51
Lupine, Tailcup	2.00	1.10	\$144.00
Bluebunch Wheatgrass - Goldar	1.00	3.21	\$4.60
Aster, Pacific	0.20	3.48	\$23.90
Totals Seed Mix	23.36	128.38	\$502.05

Application

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

MULCHING and MISCELLANEOUS**Materials**

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

Application

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

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:	13.7	Cost /Acre:	\$886.45
Estimated Failure Rate:	50%	Cost /Acre*:	\$886.45
*Selected Replanting Work Items:	TILLING,SEEDING		

Initial Job Cost:	\$12,144.37
Reseeding Job Cost:	\$6,072.18
Total Job Cost:	\$18,217
Job Hours:	13.00

REVEGETATION WORKTask description: Shrub/Tree Planting - List 1 - Areas NOT ReleasedSite: Yoast MinePermit Action: MT6Permit/Job#: C1994082**PROJECT IDENTIFICATION**Task #: 070State: ColoradoAbbreviation: NoneDate: 12/19/2022County: RouttFilename: 1994082User: RARAgency or organization name: DRMS**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)	\$117.18
Total Tilling Cost/Acre	\$117.18

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
			\$
Totals Seed Mix	0.00	0.00	\$0.00

Application

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

MULCHING and MISCELLANEOUS

Materials

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

Application

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

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
Chokecherry	1500	Bare root seedling, 11-16 inch ht. (MEANS)	\$2.35	\$0.00	\$3,525.00
Oak, Gambel's	1500	Bare root seedling, 11-16 inch ht. (MEANS)	\$2.35	\$0.00	\$3,525.00
Serviceberry	1500	Bare root seedling, 11-16 inch ht. (MEANS)	\$2.35	\$0.00	\$3,525.00
Totals Nursery Stock Cost / Acre					\$10,575.00

JOB TIME AND COST

No. of Acres:	<u>4</u>	Cost /Acre:	<u>\$10,692.18</u>
Estimated Failure Rate:	<u>40%</u>	Cost /Acre*:	<u>\$10,692.18</u>
*Selected Replanting Work Items:	<u>TILLING,NURSERY</u>		
Initial Job Cost:	<u>\$42,768.72</u>		
Reseeding Job Cost:	<u>\$17,107.49</u>		
Total Job Cost:	<u>\$59,876</u>		
Job Hours:	20.00		

REVEGETATION WORKTask description: **Drill Seed Mix 1 - Reseed Phase II Areas-100% of 19.85 Acre**Site: **Yoast Mine**Permit Action: **MT6**Permit/Job#: **C1994082****PROJECT IDENTIFICATION**Task #: **074**State: **Colorado**Abbreviation: **None**Date: **12/19/2022**County: **Routt**Filename: **1994082**User: **RAR**Agency or organization name: **DRMS****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
	\$
Total Tilling Cost/Acre	\$0.00

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Arrowleaf Balsamroot	0.50	0.62	\$35.10
Alpine Fescue	0.10	2.98	\$1.81
Big Bluegrass - Sherman	0.10	2.07	\$0.85
Bitterbrush, Antelope	1.00	0.31	\$19.50
Orchardgrass - Paiute	0.03	0.37	\$0.12
Mountain Brome - Bromar	1.10	1.77	\$4.18
Slender Wheatgrass - San Luis	1.10	4.02	\$4.68
Streambank Wheatgrass - Sodar	0.50	1.63	\$2.85
Thickspike Wheatgrass - Critana	0.50	1.77	\$3.44
Needlegrass, Green - Lodorm	1.10	4.57	\$12.95

Western Wheatgrass - Rosanna	1.10	2.78	\$6.33
Sagebrush, Mountain or Big	0.25	13.20	\$4.94
Flax, Lewis Blue	0.50	3.32	\$8.25
Snowberry, Mountain	0.50	0.86	\$25.25
Penstemon, Palmer	0.10	2.21	\$5.45
Penstemon, Rocky Mountain	0.25	3.92	\$7.38
Yarrow, Western	0.10	6.08	\$4.18
Basin Wildrye - Trailhead	1.10	4.47	\$16.95
Canada Bluegrass - Reubens	0.05	2.87	\$0.33
Alfalfa - Travois (Yellow Alfalfa)	0.10	0.48	\$0.26
Lupine, Tailcup	1.00	0.55	\$72.00
Bluebunch Wheatgrass - Goldar	0.50	1.61	\$2.30
Aster, Pacific	0.10	1.74	\$11.95
Totals Seed Mix	11.68	64.19	\$251.02

Application

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

MULCHING and MISCELLANEOUS**Materials**

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

Application

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

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:	19.85	Cost /Acre:	\$483.02
Estimated Failure Rate:	0%	Cost /Acre*:	\$483.02
*Selected Replanting Work Items:	SEEDING		

Initial Job Cost:	\$9,587.95
Reseeding Job Cost:	\$0.00
Total Job Cost:	\$9,588
Job Hours:	252.30

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Mobilize/Demobilize Equipment for Initial Reclamation**Site: **Yoast Mine**Permit Action: **MT6**Permit/Job#: **C1994082****PROJECT IDENTIFICATION**Task #: **085**State: **Colorado**Abbreviation: **None**Date: **1/11/2023**County: **Routt**Filename: **C1994082**User: **RAR**Agency or organization name: **DRMS****EQUIPMENT TRANSPORT RIG COST**Shift basis: **1 per day**Cost Data Source: **CRG Data**Truck 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	26-50 Tons	51+ Tons
Ownership Cost/Hour:	\$15.25	\$23.06	\$37.58
Operating Cost/Hour:	\$25.26	\$30.83	\$51.41
Operator Cost/Hour:	\$27.71	\$27.71	\$27.71
Helper Cost/Hour:	\$0.00	\$20.22	\$20.22
Total Unit Cost/Hour:	\$68.22	\$101.82	\$136.92

NON ROADABLE EQUIPMENT:

Machine Description	Weight/ Unit (TONS)	Owner ship Cost/hr/ unit	Haul Rig Cost/hr/unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
Cat D11T - 11U	134.12	\$257.09	\$136.92	2	\$788.02	\$273.84	\$500.00
Cat 637G w/push-pull	59.59	\$287.19	\$136.92	4	\$1,696.44	\$547.68	\$1,000.00
CAT 14M	23.57	\$114.80	\$68.22	1	\$183.02	\$68.22	\$250.00
Water Tanker, 5,000 Gal.	15.00	\$37.19	\$68.22	1	\$105.41	\$68.22	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$6.25	\$68.22	1	\$74.47	\$68.22	\$0.00
Truck Mounted - 3.0 in. - 1,700 ft. cap.	0.00	\$27.65	\$68.22	1	\$95.87	\$68.22	\$0.00

Subtotals: **\$2,943.23** **\$1,094.40** **\$2,000.00****ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Fuel Tanker, 6x4, 210 HP	\$48.30	1	\$48.30	\$48.30
Lube Truck, 6x4, 250 HP	\$48.30	1	\$48.30	\$48.30
Flatbed Truck, 6x4, 45K GVW	\$54.51	1	\$54.51	\$54.51
Light Duty Pickup, 4x4, 1 T. Crew	\$24.30	1	\$24.30	\$24.30

Subtotals: **\$175.41** **\$175.41**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	<u>HAYDEN</u>	
Total one-way travel distance:	<u>10.00</u>	miles
Average Travel Speed:	<u>30.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$12,578.21</u>
'* two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	<u>\$116.94</u>
'** one round trip, no haul rig:	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>0.33</u>	<u>0.33</u>
Return Time (Hours):	<u>0.33</u>	<u>0.33</u>
Loading Time (Hours):	<u>0.50</u>	<u>NA</u>
Unloading Time (Hours):	<u>0.50</u>	<u>NA</u>
Subtotals:	<u>1.67</u>	<u>0.67</u>

JOB TIME AND COST

Total job time:	<u>3.33</u>	Hours
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Total job cost:	<u>\$12,695</u>
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EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Mobilize/Demobilize Equipment for Pond Removal**Site: **Yoast Mine**Permit Action: **MT6**Permit/Job#: **C1994082****PROJECT IDENTIFICATION**Task #: **086**State: **Colorado**Abbreviation: **None**Date: **1/11/2023**County: **Routt**Filename: **C1994082**User: **RAR**Agency or organization name: **DRMS****EQUIPMENT TRANSPORT RIG COST**Shift basis: **1 per day**Cost Data Source: **CRG Data**Truck 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	26-50 Tons	51+ Tons
Ownership Cost/Hour:	\$15.25	\$23.06	\$37.58
Operating Cost/Hour:	\$25.26	\$30.83	\$51.41
Operator Cost/Hour:	\$27.71	\$27.71	\$27.71
Helper Cost/Hour:	\$0.00	\$20.22	\$20.22
Total Unit Cost/Hour:	\$68.22	\$101.82	\$136.92

NON ROADABLE EQUIPMENT:

Machine Description	Weight/ Unit (TONS)	Owner ship Cost/hr/ unit	Haul Rig Cost/hr/unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
Cat D9T - 9SU	60.01	\$146.30	\$136.92	1	\$283.22	\$136.92	\$250.00
Cat 627G	41.80	\$179.93	\$101.82	1	\$281.75	\$101.82	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$6.25	\$68.22	1	\$74.47	\$68.22	\$0.00

Subtotals: **\$639.44** **\$306.96** **\$500.00****ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Flatbed Truck, 6x4, 45K GVW	\$54.51	1	\$54.51	\$54.51

Subtotals: **\$54.51** **\$54.51**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	<u>HAYDEN</u>	
Total one-way travel distance:	<u>10.00</u>	miles
Average Travel Speed:	<u>30.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$2,909.81</u>
** two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	<u>\$36.34</u>
** one round trip, no haul rig:	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>0.33</u>	<u>0.33</u>
Return Time (Hours):	<u>0.33</u>	<u>0.33</u>
Loading Time (Hours):	<u>0.50</u>	<u>NA</u>
Unloading Time (Hours):	<u>0.50</u>	<u>NA</u>
Subtotals:	<u>1.67</u>	<u>0.67</u>

JOB TIME AND COST

Total job time:	<u>3.33</u>	Hours
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Total job cost:	<u>\$2,946</u>
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EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Mobilize/Demobilize Equipment for Site Maintenance**Site: **Yeast Mine**Permit Action: **MT6**Permit/Job#: **C1994082****PROJECT IDENTIFICATION**Task #: **087**State: **Colorado**Abbreviation: **None**Date: **1/11/2023**County: **Routt**Filename: **C1994082**User: **RAR**Agency or organization name: **DRMS****EQUIPMENT TRANSPORT RIG COST**Shift basis: **1 per day**Cost Data Source: **CRG Data**Truck 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	26-50 Tons	51+ Tons
Ownership Cost/Hour:	\$15.25	\$23.06	\$37.58
Operating Cost/Hour:	\$25.26	\$30.83	\$51.41
Operator Cost/Hour:	\$27.71	\$27.71	\$27.71
Helper Cost/Hour:	\$0.00	\$20.22	\$20.22
Total Unit Cost/Hour:	\$68.22	\$101.82	\$136.92

NON ROADABLE EQUIPMENT:

Machine Description	Weight/ Unit (TONS)	Owner ship Cost/hr/ unit	Haul Rig Cost/hr/unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
Cat D3K XL - 3P	9.22	\$27.70	\$68.22	5	\$479.60	\$341.10	\$0.00
Cat D7R DS Series II LGP	34.57	\$92.78	\$101.82	5	\$973.00	\$509.10	\$0.00
Cat 336D L 10'-6" Stick	32.23	\$83.53	\$101.82	5	\$926.75	\$509.10	\$1,250.00
CAT 14M	23.57	\$114.80	\$68.22	10	\$1,830.20	\$682.20	\$2,500.00
Drill/Broadcast Seeder with Tractor	25.00	\$6.25	\$68.22	5	\$372.35	\$341.10	\$0.00

Subtotals: **\$4,581.90** **\$2,382.60** **\$3,750.00****ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Generic 8-10 cy, 6x4	\$91.11	10	\$911.10	\$911.10
Flatbed Truck, 6x4, 45K GVW	\$54.51	10	\$545.10	\$545.10

Subtotals: **\$1,456.20** **\$1,456.20**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	<u>HAYDEN</u>	
Total one-way travel distance:	<u>10.00</u>	miles
Average Travel Speed:	<u>30.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$57,962.00</u>
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 '* two round trips with haul rig:

Total Roadable Mob/Demob Cost **	<u>\$970.80</u>
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 ** one round trip, no haul rig:

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>0.33</u>	<u>0.33</u>
Return Time (Hours):	<u>0.33</u>	<u>0.33</u>
Loading Time (Hours):	<u>2.50</u>	<u>NA</u>
Unloading Time (Hours):	<u>2.50</u>	<u>NA</u>
Subtotals:	<u>5.67</u>	<u>0.67</u>

JOB TIME AND COST

Total job time:	<u>11.33</u>	Hours
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Total job cost:	<u>\$58,933</u>
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