## COST SUMMARY WORK

Т	Task descrip	otion:	DW-1R Dewater	ring System				
Site:	Deserado	Mine	Per	rmit Action:	TR73	Permit/Job	o#: <u>C1981018</u>	
P	ROJECT	IDENTIFIC	CATION					
	Task #:	000	State:	Colorado		Abbreviation:	None	
	Date:	2/8/2022	County:	Moffat		Filename:	C18-000	
	User:	CCW						

Agency or organization name: DRMS

## TASK LIST (DIRECT COSTS)

Took		Form	Fleet	Task	
Task	Description	Used	Size	Hours	Cost
001	Plug and Seal DW-1R Borehole	BOREHOLE	1	8.00	\$16,702
002	Regrade DW-1R Pond	DOZER	1	2.56	\$867
003	Regrade DW-1R Light Use Road	DOZER	1	0.83	\$280
004	Topsoil Replacement for the DW-1R Pond	DOZER	1	1.22	\$403
005	Topsoil Replacement for the DW-1R Light Use	DOZER	1	0.40	\$131
	Road				
006	Reseed DW-1R Pond	REVEGE	1	10.00	\$406
007	Reseed DW-1R Light Use Road	REVEGE	1	10.00	\$131
		<u>SUBTO</u>	TALS:	33.01	\$18,920

### **INDIRECT COSTS**

#### **OVERHEAD AND PROFIT:**

Liability insurance:	2.02	Total =	\$382
Performance bond:	1.05	Total =	\$199
Job superintendent:	12.50	Total =	\$900
Profit:	10.00	Total =	\$1,892
		TOTAL O & P =	\$3,373
		CONTRACT AMOUNT (direct + $O \& P$ ) =	\$22,293

#### LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs):	\$0	Total =	\$0
Engineering work and/or contract/bid preparation:	8.59	Total =	\$1,915
Reclamation management and/or administration:	6.20		\$1,382
CONTINGENCY:	0.00	Total =	\$0
	,	TOTAL INDIRECT COST =	\$6,670
TOTAL BO	ND AM	IOUNT (direct + indirect) =	\$25,590

## BOREHOLE SEALING WORK

Та	ask description:	Plug and Seal DW-1R Bore	ehole		
Site: _]	Deserado Mine	Permit Action:	TR73	Permit	/Job#: <u>C1981018</u>
<u>PROJEC</u>	<u>T IDENTIFICATIO</u>	N			
Task #: Date: User:	2/8/2022	State: Colorado County: Moffat		Abbreviation: Filename:	None C018-001
	Agency or organiz	ation name: DRMS			

# UNIT COSTS

Borehole Description	Sealing/Item Method	Diameter	Length	Quantity	Unit	Unit Cost	Total Cost
Seal 10" Borehole	Portland cement grout - 10 in. (labor, equip, materials)	10	1697	1,697.00	LF	\$9.75	\$16,545.75
Bottom Plug 10"	PVC plug - 10 in. diameter borehole	10	NA	1.00	EA	\$115.29	\$115.29
Cut Casing 10" diameter	Exposed casing removal - Calculate Circumference in Linear Feet	10	NA	1.00	LF	\$3.26	\$3.26
Borehole Marker	Borehole location/identification marker (EA, material cost only)	NA	NA	1.00	EA	\$37.50	\$37.50

 Job Hours:
 8.00
 Total Cost:
 \$16,702.00

Page 1 of 2

Deserado Mine	Permit Action:	TR73	Permit/Jo	b#: C1981018
PROJECT IDENTIFICATI	<u>ON</u>			
Task #: 002	State: Colorado		Abbreviation:	None
Date: 2/8/2022	County: Moffat		Filename:	C018-002
User: CCW				
Agency or organization	name: DRMS			
HOURLY EQUIPMENT CO	<u>DST</u>			
Basic Machine: Cat D9T -	9SU			
Horsepower: 405				
Blade Type: Semi-Univ	versal			
Attachment: 3-shank ri	pper			
Shift Basis: 1 per day				
Data Source: (CRG)				
Cost Breakdown:				
Ownership Cost/Hour:	\$126.01	<u>Utilization %</u> NA		
Operating Cost/Hour:	\$120.01	100		
Ripper own.				
Cost/Hour:	\$19.26	NA		
Ripper op. Cost/Hour:	\$11.48	100		
Operator Cost/Hour:	\$41.30	NA		
Total unit Cost/Hour:\$339Total Fleet Cost/Hour:\$339				
MATERIAL QUANTITIES				
Initial Volume: 1,573				
Swell factor: 1.250				
Loose volume: <b>1,966</b> LCY				
Source of estimated volume:	Section V and Map 162			
Source of estimated volume. Source of estimated swell factor:	Cat Handbook			
HOURLY PRODUCTION				
	100 6			
Average push distance: Unadjusted hourly production:	100 feet 1,243.2 LCY/hr			
Materials consistency description	on: Compacted fill or emb	oankment 0.9		
Average push -10 9 gradient:	%			
	0 feet			
Material weight: 2,55	0 lbs/LCY			
Weight description: Earth	n - Dry packed			
		Source		

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:	1.000	(DOZ-OC)
Push gradient:	1.225	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.6190

Adjusted unit production:	769.54 LCY/hr
Adjusted fleet production:	769.54 LCY/hr

### JOB TIME AND COST

Fleet size:	1 Dozer(s)
Unit cost:	\$0.441/LCY

Total job time:	<b>2.56</b> Hours
Total job cost:	\$867

Page 1 of 2

: Deserado Mine	Permit Action:	TR73	Permit/Jo	b#: <u>C1981018</u>
PROJECT IDENTIFICAT	TION			
Task #:         003           Date:         2/8/2022	State: <u>Colorado</u> County: Moffat		Abbreviation: Filename:	None C018-003
User: CCW				
Agency or organization	on name: DRMS			
HOURLY EQUIPMENT (	COST			
Basic Machine: Cat D91	- 9SU			
Horsepower: 405				
Blade Type: Semi-U				
Attachment: <u>3-shank</u> Shift Basis: 1 per da				
Shift Basis: <u>1 per da</u> Data Source: (CRG)	у			
Cost Breakdown:	I	Utilization %		
Ownership Cost/Hour:	\$126.01	NA		
Operating Cost/Hour:	\$120.01	100		
Ripper own.	\$19.26	NA		
Cost/Hour:	\$19.20			
Ripper op. Cost/Hour: Operator Cost/Hour:	\$11.48	100 NA		
Initial Volume: 508	<u>s</u>			
Swell factor: <u>1.250</u> Loose volume: <b>635</b> LCY				
Source of estimated volume:	Section V and Map 162			
Source of estimated swell factor:	Cat Handbook			
HOURLY PRODUCTION				
Average push distance: Unadjusted hourly production:	100 feet 1,243.2 LCY/hr	_		
Materials consistency descrip	tion: <u>Compacted fill or emb</u>	bankment 0.9		
01	) %			
gradient:				
Average site altitude:5,8	300 feet			
Material weight: 2,5	50 lbs/LCY			
Weight description:Ea	rth - Dry packed			
		a		
Condition Correction Factor	<u>er</u>	Source		

Task # 003

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:	1.000	(DOZ-OC)
Push gradient:	1.225	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.6190

Adjusted unit production:	769.54 LCY/hr
Adjusted fleet production:	769.54 LCY/hr

### JOB TIME AND COST

Fleet size:	1 Dozer(s)
Unit cost:	\$0.441/LCY

Total job time:	<b>0.83</b> Hours
Total job cost:	\$280

Task description:	Tops	oil Replacement for th	ne DW-1R Pond		
Site: Deserado Mine		Permit Action	: TR73	Permit/Jo	b#: <u>C1981018</u>
PROJECT IDEN	<b>FIFICATIO</b>	N			
Task #:         004           Date:         2/8/20           User:         CCW		State: Colorado County: Moffat		Abbreviation: Filename:	None C018-004
Agency or	organization r	name: DRMS			
HOURLY EQUIP	MENT CO	<u>ST</u>			
Basic Machine:	Cat D9T - 9	SU			
Horsepower:	405				
Blade Type: Attachment:	Semi-Unive				
Shift Basis:	3-shank rip 1 per day	per			
Data Source:	(CRG)				
Cost Breakdown:					
<u>cost breakdown</u> .			Utilization %		
Ownership Cost/He		\$126.01	NA		
Operating Cost/He		\$141.41	100		
Ripper o Cost/H		\$19.26	NA		
Ripper op. Cost/H		\$1.72	15		
Operator Cost/H		\$41.30	NA		
Total Fleet Cost/Ho <u>MATERIAL QUA</u> Initial Volume: Swell factor: Loose volume:					
Source of estimated Source of estimated factor:	l volume:	Division of Reclama Cat Handbook	tion, Mining & Safety		
HOURLY PROD	UCTION				
Average push distar Unadjusted hourly production:	nce:	75 feet 1,514.3 LCY/hr			
Materials consisten	cy description	: Compacted fill or	embankment 0.9		
Average push gradient: Average site altitud	0 % e: <u>5,600</u>	feet			
Material weight:	2,550	lbs/LCY			
Weight description:	Earth	- Dry packed			
Job Condition Correc	tion Factor		Source		

Task # 004

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:	0.700	(FND-MF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3537

Adjusted unit production:	535.61 LCY/hr
Adjusted fleet production:	535.61 LCY/hr

### JOB TIME AND COST

Fleet size:	1 Dozer(s)
Unit cost:	\$0.616/LCY

Total job time:1.22 HoursTotal job cost:\$403

Task description:	Topsoil Replacement for the	DW-1R Light Use Ro	ad	
ite: Deserado Mine Permit Action: TR73		TR73	Permit/Job#: C1981018	
PROJECT IDENT	<b>IFICATION</b>			
Task #:       005         Date:       2/8/202         User:       CCW	State:Colorado22County:Moffat		Abbreviation: Filename:	None C018-005
Agency or or	ganization name: DRMS			
HOURLY EQUIPM	MENT COST			
Basic Machine: Horsepower: Blade Type: Attachment: Shift Basis:	Cat D9T - 9SU 405 Semi-Universal 3-shank ripper 1 per day	- - -		
Data Source:	(CRG)	-		
Cost Breakdown:	£106.01	<u>Utilization %</u> NA		
Ownership Cost/Hot Operating Cost/Hot		100		
Ripper ow	vn. \$19.26	NA		
Cost/Hot Ripper op. Cost/Hot		15		
Operator Cost/Hor		NA		
Swell factor:	r: \$329.70			
Source of estimated s Source of estimated s factor:		n, Mining & Safety		
HOURLY PRODU	<u>CTION</u>			
Average push distand Unadjusted hourly production:	ce: 75 feet 1,514.3 LCY/hr			
Materials consistency	y description: <u>Compacted fill or em</u>	bankment 0.9		
Average push gradient: Average site altitude	0 %			
Material weight:	2,550 lbs/LCY			
Weight description:	Earth - Dry packed			
Job Condition Correcti	on Factor	Source		

Task # 005

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:	0.700	(FND-MF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3537

Adjusted unit production:	535.61 LCY/hr
Adjusted fleet production:	<b>535.61</b> LCY/hr

### JOB TIME AND COST

Fleet size:	1 Dozer(s)
Unit cost:	\$0.616/LCY

Total job time:	<b>0.40</b> Hours
Total job cost:	\$131

# **REVEGETATION WORK**

Deserad	o Mine	Permit Action: TR73	Permit/Job	o#: <u>C1981018</u>
<u>ROJECT</u>	IDENTIFI	CATION		
Task #:	006	State: Colorado	Abbreviation:	None
Date:	2/8/2022	County: Rio Blanco	Filename:	C018-006
User:	CCW			-

## **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
Alkali Sacaton	0.10	3.90	\$2.85
Indian Ricegrass - Nespar	0.40	1.29	\$3.55
Beardless Wheatgrass - Whitmar	0.50	1.63	\$5.86
Bluebunch Wheatgrass - Secar	0.50	1.61	\$5.44
Canby Bluegrass - Canbar	0.20	4.25	\$2.05
Crested Wheatgrass - Nordan	4.00	18.37	\$15.60
Russian Wildrye - Bozoisky	2.00	8.03	\$12.96
Bottlebrush Squirreltail	0.20	0.88	\$3.25
Sandberg Bluegrass - VNS	0.20	4.25	\$1.68

Pubescent Wheatgrass - Greenleaf	1.00	2.07	\$3.65
Sheep Fescue - Covar	0.20	3.12	\$1.22
Slender Wheatgrass - Pryor	2.00	7.30	\$8.50
Milk Vetch, Cicer - Monarch	1.00	3.33	\$8.20
Thickspike Wheatgrass - Critana	1.00	3.54	\$6.88
Western Wheatgrass - Arriba	2.00	5.05	\$13.00
Needlegrass, Green - Lodorm	0.60	2.49	\$7.07
Sagebrush, Mountain or Big	0.10	5.28	\$1.98
Prairie Junegrass	0.20	10.63	\$5.20
Flax, Lewis Blue	0.40	2.65	\$6.60
Saltbush, Four Wing	2.00	2.75	\$25.00
Saltbush, Shadscale	0.50	0.75	\$5.00
Yarrow, White	0.10	6.36	\$4.00
Totals Seed Mix	19.20	99.54	\$149.52

#### 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
					\$
		<b>Totals</b>	Nursery Stoc	k Cost / Acre	\$0.00

### JOB TIME AND COST

No. of Acres:	0.65	Cost /Acre:	\$416.74
Estimated Failure Rate:	50%	Cost /Acre*:	\$416.74
*Selected Replanting Work Items:	SEEDING		

Initial Job Cost: \$270.88

Reseeding Job Cost:	\$135.44
Total Job Cost:	\$406
Job Hours:	10.00

# **REVEGETATION WORK**

Task descr	iption:	Reseed DW-1R Light Use Road	
ite: Deserado Mine		Permit Action: TR73	Permit/Job#: C1981018
	<u>IDENTIFI</u>		
Task #:	007	State: Colorado	Abbreviation: None
Date:	2/8/2022	County: Rio Blanco	Filename: C018-007
User:	CCW		

## **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
Alkali Sacaton	0.10	3.90	\$2.85
Indian Ricegrass - Nespar	0.40	1.29	\$3.55
Beardless Wheatgrass - Whitmar	0.50	1.63	\$5.86
Bluebunch Wheatgrass - Secar	0.50	1.61	\$5.44
Canby Bluegrass - Canbar	0.20	4.25	\$2.05
Crested Wheatgrass - Nordan	4.00	18.37	\$15.60
Russian Wildrye - Bozoisky	2.00	8.03	\$12.96
Bottlebrush Squirreltail	0.20	0.88	\$3.25
Sandberg Bluegrass - VNS	0.20	4.25	\$1.68

Pubescent Wheatgrass - Greenleaf	1.00	2.07	\$3.65
Sheep Fescue - Covar	0.20	3.12	\$1.22
Slender Wheatgrass - Pryor	2.00	7.30	\$8.50
Milk Vetch, Cicer - Monarch	1.00	3.33	\$8.20
Thickspike Wheatgrass - Critana	1.00	3.54	\$6.88
Western Wheatgrass - Arriba	2.00	5.05	\$13.00
Needlegrass, Green - Lodorm	0.60	2.49	\$7.07
Sagebrush, Mountain or Big	0.10	5.28	\$1.98
Prairie Junegrass	0.20	10.63	\$5.20
Flax, Lewis Blue	0.40	2.65	\$6.60
Saltbush, Four Wing	2.00	2.75	\$25.00
Saltbush, Shadscale	0.50	0.75	\$5.00
Yarrow, White	0.10	6.36	\$4.00
Totals Seed Mix	19.20	99.54	\$149.52

#### 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 Stoc	k Cost / Acre	\$0.00

### JOB TIME AND COST

No. of Acres:	0.21	Cost /Acre:	\$416.74
Estimated Failure Rate:	50%	Cost /Acre*:	\$416.74
*Selected Replanting Work Items:	SEEDING		

Initial Job Cost: \$87.52

Reseeding Job Cost:	\$43.76
Total Job Cost:	\$131
Job Hours:	10.00