

COST SUMMARY WORK

Task description: Cost Summary of Reclamation Tasks

Site: Florence Pit Permit Action: 2022 Update Permit/Job#: M2001070

PROJECT IDENTIFICATION

Task#: 000 State: Colorado Abbreviation: None
Date: 7/12/2022 County: Teller Filename: M070-000
User: ERR

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Backfill Pit	LOADER	1	4.35	\$809
002	Revegetation	REVEGE	1	2.00	\$777
003	Mob/Demob Reclamation Equipment	MOBILIZE	1	3.86	\$955
<u>SUBTOTALS:</u>				10.21	\$2,541

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total=	\$51
Performance bond:	1.05	Total=	\$27
Job superintendent:	0.00	Total=	\$0
Profit:	10.00	Total=	\$254
		TOTAL O & P =	\$332
		CONTRACT AMOUNT (direct + O & P) =	\$2,873

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs):	\$0	Total=	\$0
Engineering work and/or contract/bid preparation:	0.00	Total=	\$0
Reclamation management and/or administration:	5.00		\$144

CONTINGENCY: 0.00 Total= \$0

TOTAL INDIRECT COST = \$476

TOTAL AMOUNT (direct + indirect) = \$3,017

TOTAL BOND AMOUNT (rounded) = \$3,000

WHEEL LOADER – LOAD AND CARRY WORKTask description: **Backfill Pit**Site: **Florence Pit**Permit Action: 2022 UpdatePermit/Job#: M2001070**PROJECT IDENTIFICATION**Task#: 001State: ColoradoAbbreviation: NoneDate: 7/12/2022County: TellerFilename: 001User: ERRAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: CAT 450EAttachment 1: ROPS CabHorsepower: 101Shift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		Utilization %
Ownership Cost/Hour:	\$89.81	NA
Operating Cost/Hour:	\$55.06	100
Operator Cost/Hour:	\$40.71	NA
Total Unit Cost/Hour:	\$185.58	
Total Fleet Cost/Hour:	\$185.58	

MATERIAL QUANTITIESInitial volume: 556

CCY

Swell factor: 1.000Loose volume: 556

LCY

Source of estimated volume: Exhibit C Mine Plan Max Pit Size: 50' x 30' x 10' deepSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION****Loader Cycle Time:** Unadjusted Basic Cycle Time (load, dump, maneuver): 0.475 minutes

Cycle Time Factors		Factor (min.)	Source
Material:	Mixed material 0.02	0.020	(Cat HB)
Stockpile:	Dumped by truck 0.02	0.020	(Cat HB)
Truck Ownership:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Operation:	Constant operation -0.04	-0.040	(Cat HB)
Dump Target:	Nominal target 0.00	0.000	(Cat HB)
Net Cycle Time Adjustment:		0.000	minutes
Adjusted Basic Cycle Time:		0.475	minutes

Rolling Resistance – Road ConditionsHaul: Rutted dirt, little maintenance, no water, 1" tire penetration 4.0Return: Rutted dirt, little maintenance, no water, 1" tire penetration 4.0**Haul and Return Time**

	Length (feet)	Grade Res. (%)	Rolling Res. (%)	Total Res. (%)	Travel Time (minutes)	Source
Haul Route:	100	0.00	4.00	4.00	0.0635	(Cat HB)
Return Route:	100	0.00	4.00	4.00	0.0635	(Cat HB)

Total Travel Time: 0.1269 minutes
 Total Cycle Time: **0.6019** minutes

Load Bucket Capacity

Rated Capacity: 1.50 LCY (heaped)
 Bucket Fill Factor: 1.100 Other - rock/dirt mixtures (100-120%) 1.100
 Adjusted Capacity: **1.65** LCY

Job Condition Correction Factors

Site Altitude: 9670 feet

		Source
Altitude Adj:	<u>0.95</u>	(CAT HB)
Job Efficiency:	<u>0.83</u>	(1 shift/day)
Net Correction:	<u>0.79</u>	multiplier

Unadjusted Hourly Unit Production: 164.47 LCY/Hour
 Adjusted Hourly Unit Production: 129.68 LCY/Hour
 Adjusted Hourly Fleet Production: **129.68** LCY/Hour

JOB TIME AND COST

Fleet size: 1 Loader(s) Total job time: **4.29** Hours
 Unit cost: \$1.431 /LCY Total job cost: **\$796**

REVEGETATION WORKTask description: RevegetationSite: Florence PitPermit Action: 2022 UpdatePermit/Job#: M2001070PROJECT IDENTIFICATIONTask #: 002State: ColoradoAbbreviation: NoneDate: 7/12/2022County: TellerFilename: 002User: ERRAgency or organization name: DRMSFERTILIZINGMaterials

Description	Units / Acre	Unit	Cost / Unit	Cost/Acre
Ammonium nitrate, 33-0-0	121.00	pound	\$0.37	\$44.77
Triple superphosphate, 0-46-0	87.00	pound	\$0.47	\$40.89
			Total Fertilizer Materials Cost/Acre	\$85.66

Application

Description	Cost/Acre
Push rotary spreader (MEANS 32 01 90.13 0110)	\$113.69
Total Fertilizer Application Cost/Acre	\$113.69

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
Arizona Fescue - Redondo	1.60	18.37	\$14.80
Meadow Brome - Paddock	8.30	7.62	\$32.99
Russian Wildrye - Bozoisky	5.80	23.30	\$37.58
Streambank Wheatgrass - Sodar	5.70	18.58	\$32.49
Western Wheatgrass - Arriba	12.00	30.30	\$78.00
Totals Seed Mix	33.40	98.17	\$195.87

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:	<u>0.84</u>	Cost/Acre:	<u>\$779.62</u>
Estimated Failure Rate:	<u>25%</u>	Cost/Acre*:	<u>\$580.27</u>
*Selected Replanting Work Items:	<u>TILLING,SEEDING</u>		
Initial Job Cost:	<u>\$654.88</u>		
Reseeding Job Cost:	<u>\$121.86</u>		
Total Job Cost:	<u>\$777</u>		
Job Hours:	<u>2.00</u>		

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Mob/Demob Reclamation Equipment**Site: **Florence Pit**Permit Action: **2022 Update**Permit/Job#: **M2001070****PROJECT IDENTIFICATION**Task #: **003**State: **Colorado**Abbreviation: **None**Date: **7/12/2022**County: **Teller**Filename: **M070-003**User: **ERR**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 450E	9.80	\$89.81	\$68.22	1	\$158.03	\$68.22	\$250.00

Subtotals: **\$158.03** **\$68.22** **\$250.00****ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/fleet	Return Trip Cost/hr/fleet
---------------------	------------------------	------------	----------------------------	------------------------------

Subtotals: **\$0.00** **\$0.00**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	<u>COLORADO SPRINGS</u>	
Total one-way travel distance:	<u>52.00</u>	miles
Average Travel Speed:	<u>60.00</u>	mph
Total Non-Roadable Mob/Demob Cost *	<u>\$955.38</u>	
'* two round trips with haul rig:		
Total Roadable Mob/Demob Cost **	<u>\$0.00</u>	
** one round trip, no haul rig:		

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>0.87</u>	<u>0.87</u>
Return Time (Hours):	<u>0.87</u>	<u>0.87</u>
Loading Time (Hours):	<u>0.10</u>	<u>NA</u>
Unloading Time (Hours):	<u>0.10</u>	<u>NA</u>
Subtotals:	<u>1.93</u>	<u>1.73</u>

JOB TIME AND COST

Total job time: 3.87 Hours

Total job cost: \$955