

January 25, 2024

Franchesca Mallonee
Oldcastle SW Group
9755 CR 213
Durango, CO 81303



COLORADO
Division of Reclamation,
Mining and Safety
Department of Natural Resources

1313 Sherman Street, Room 215
Denver, CO 80203

RE: Bayfield Pit No. 1, Permit # M-1987-038, Reclamation Costs Update

Dear Operator:

In an effort to ensure the Financial Warranty for the above referenced site adequately reflects the actual current costs of fulfilling the requirements of the approved reclamation plan, the Colorado Division of Reclamation, Mining and Safety (Division) has updated the reclamation cost estimate (copy enclosed) for this site. Division calculations estimate the cost to reclaim the site to be \$82,418.00. This is an increase of \$29,436.00 over the \$52,982.00 currently held by the Division.

Within 15 days, please review the attached estimate and notify me if any calculation errors are noted.

If you require additional information, or have questions or concerns, please contact me.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Dustin Czapla', with a long horizontal flourish extending to the right.

Dustin Czapla
Environmental Protection Specialist
Division of Reclamation, Mining and Safety
Phone: (303) 866-3567, ext. 8188



COST SUMMARY WORK

Task description: 2024-01-19 Update

Site: Bayfield Pit No. 1

Permit Action: 2024-01-19 Update

Permit/Job#: M1987038

PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 1/19/2024

County: La Plata

Filename: M1987038000

User: DMC

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Dewater pit to reclaim slopes	PUMPING	1	63.33	\$3,365
02a	Reduce highwalls to 3:1 and general dozing around site	DOZER	1	9.52	\$4,385
03a	Rip compaction in disturbed area	RIPPER	1	18.70	\$8,783
04a	Replace Topsoil on Disturbed Areas	DOZER	1	31.19	\$14,366
05a	Revegetation	REVEGE	1	15.00	\$27,603
06a	Mobilize Reclamation Equipment	MOBILIZE	1	6.51	\$6,346
<u>SUBTOTALS:</u>				144.25	\$64,848

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02

Total = \$1,310

Performance bond: 1.05

Total = \$681

Job superintendent: 72.12

Total = \$4,694

Profit: 10.00

Total = \$6,485

TOTAL O & P = \$13,169

CONTRACT AMOUNT (direct + O & P) = \$78,017

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): \$500

Total = \$500

Engineering work and/or contract/bid preparation: 0.00

Total = \$0

Reclamation management and/or administration: 5.00

\$3,901

CONTINGENCY: 0.00

Total = \$0

TOTAL INDIRECT COST = \$17,570

TOTAL BOND AMOUNT (direct + indirect) = \$82,418

PUMPING WORK

Task description: Dewater pit to reclaim slopes

Site: Bayfield Pit No. 1

Permit Action: 2024-01-19 Update

Permit/Job#: M1987038

PROJECT IDENTIFICATION

Task #: 01A

State: Colorado

Abbreviation: None

Date: 1/19/2024

County: La Plata

Filename: M038-01a

User: DMC

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

	Description	Quantity
Make and Model:	Centrifugal pump - 40M, 4 in.	1
Attachment 1:	Suction hose - 4 in. diam., 25 ft.	3
Attachment 2:	Discharge hose - 4 in. D., 25 ft.	3
Labor Unit 1:	Pump operator	1
Horsepower:	<u>45</u>	
Shift Basis:	<u>1 per day</u>	
Weight:	<u>0.70</u>	
	(US Tons)	

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	<u>\$10.78</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$14.67</u>	<u>100</u>
Operator Cost/Hour:	<u>\$27.68</u>	<u>NA</u>
Total Unit Cost/Hour:	<u>\$53.13</u>	
Total Fleet Cost/Hour:	<u>\$53.13</u>	

PUMPING QUANTITIES

Initial Pond Volume:	<u>392,040.00</u>		Conversion factor:	<u>7.4805</u>
Final Pond Volume:	<u>2,932,655.22</u>	gallons		
Total Pond Inflow Surface Area:	<u>2</u>	Sq. ft.	Unit inflow rate in gph/sq. ft.:	<u>0.0000</u>
Total Pond Inflow Volume per Hour:	<u>0.00</u>	gallons		

Source of estimated volume: DRMS estimations

PUMPING TIME

Maximum Pump Capacity:	<u>40,000</u>	gph/pump
Estimated Suction Head:	<u>10</u>	feet
Estimated Discharge Head:	<u>5</u>	feet
Total Head:	<u>15</u>	feet
CPB Pump Capacity:	<u>39,900</u>	gph/pump
Site Altitude:	<u>6,770</u>	feet
Adjusted Pumping Capacity:	<u>39,900</u>	gph
Initial Unadjusted Pumping Time:	<u>73.50</u>	hours
Inflow during Initial Pumping:	<u>0</u>	gallons
Net Unadjusted Pumping Time:	<u>73.50</u>	Hours
Altitude Adjustment Factor:	<u>0.9400</u>	(3% rule)
Pump Efficiency Factor:	<u>0.9167</u>	(55 min./hr.)
Total Adjusted Pumping Time:	<u>63.33</u>	hours

JOB TIME AND COST

Total job time: 63.33 Hours

Unit cost: \$0.001147 /Gallon

Total job cost: \$3,365

BULLDOZER WORKTask description: Reduce highwalls to 3:1 and general dozing around siteSite: Bayfield Pit No. 1Permit Action: 2024-01-19 UpdatePermit/Job#: M1987038**PROJECT IDENTIFICATION**Task #: 02AState: ColoradoAbbreviation: NoneDate: 1/19/2024County: La PlataFilename: M038-02aUser: DMCAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic 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:	\$238.76	NA
Operating Cost/Hour:	\$162.29	100
Ripper own. Cost/Hour:	\$18.32	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$41.30	NA

Total unit Cost/Hour: \$460.67Total Fleet Cost/Hour: \$460.67**MATERIAL QUANTITIES**Initial Volume: 7,958Swell factor: 1.250Loose volume: 9,948 LCYSource of estimated volume: Division of Reclamation, Mining & SafetySource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 50 feetUnadjusted hourly production: 2,110.5 LCY/hrMaterials consistency description: Compacted fill or embankment 0.9Average push gradient: -10 %Average site altitude: 6,700 feetMaterial weight: 2,550 lbs/LCYWeight description: Earth - Dry packed**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	(SSD-AC)
Push gradient:	1.225	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4952

Adjusted unit production: 1,045.12 LCY/hr

Adjusted fleet production: **1045.12** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.441/LCY

Total job time: **9.52** Hours

Total job cost: **\$4,385**

BULLDOZER RIPPING WORK

Task description: Rip compaction in disturbed area

Site: Bayfield Pit No. 1

Permit Action: 2024-01-19 Update

Permit/Job#: M1987038

PROJECT IDENTIFICATION

Task #: 03A

State: Colorado

Abbreviation: None

Date: 1/19/2024

County: La Plata

Filename: M038-03a

User: DMC

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Basic Machine: Cat D9T - 9SU

Horsepower: 405

Ripper Attachment: 3-Shank Ripper

Shift Basis: 1 per day

Data Source: (CRG)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	\$238.76	NA
Operating Cost/Hour:	\$162.29	100
Ripper Ownership Cost/Hour:	\$18.32	NA
Ripper Operating Cost/Hour:	\$8.98	100
Operator Cost/Hour:	\$41.30	NA
Total Unit Cost/Hour:	\$469.65	
Total Fleet Cost/Hour:	\$469.65	

MATERIAL QUANTITIES

Selected estimating method: Area

Alternate Methods:

Seismic: NA Bank Volume: NA BCY NA
Area: 13.00 acres Rip Depth (ft): 1.00 Volume: 20,973 BCY or CCY

Source of estimated quantity: DRMS estimation

HOURLY PRODUCTION

Seismic:

Seismic Velocity: NA feet/second

Area:

Average Ripping Depth:	<u>2.00</u>	feet/pass
Average Ripping Width:	<u>7.67</u>	feet/pass
Average Ripping Length:	<u>200.00</u>	feet/pass
Average Dozer Speed:	<u>88.00</u>	feet/minute
Average Maneuver Time:	<u>0.25</u>	minutes/pass
Production per unit area:	<u>0.838</u>	acres/hour

Job Condition Correction Factors

Unadjusted Hourly Unit Production: 0.838 Acres/hr

Site Altitude: 6,700 feet

Altitude Adj: 1.00 (CAT HB)

Job Efficiency: 0.83 (1 shift/day)

Net Correction: 0.83 multiplier

Adjusted Hourly Unit Production: 0.70 Acres/hr

Adjusted Hourly Fleet Production: 0.70 Acres/hr

JOB TIME AND COST

Fleet size: 1 Grader(s) Total job time: 18.70 Hours

Unit cost: \$675.582 Per acre Total job cost: \$8,783

BULLDOZER WORKTask description: **Replace Topsoil on Disturbed Areas**Site: **Bayfield Pit No. 1**Permit Action: 2024-01-19 UpdatePermit/Job#: M1987038**PROJECT IDENTIFICATION**Task #: 04AState: ColoradoAbbreviation: NoneDate: 1/19/2024County: La PlataFilename: M038-04aUser: DMCAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic 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:	\$238.76	NA
Operating Cost/Hour:	\$162.29	100
Ripper own. Cost/Hour:	\$18.32	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$41.30	NA

Total unit Cost/Hour: \$460.67Total Fleet Cost/Hour: **\$460.67****MATERIAL QUANTITIES**Initial Volume: 13,982Swell factor: 1.250Loose volume: **17,478 LCY**Source of estimated volume: Assume 13 Acres to be topsoiled and revegedSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 100 feetUnadjusted hourly production: 1,243.2 LCY/hrMaterials consistency description: Compacted fill or embankment 0.9Average push gradient: -5 %Average site altitude: 6,700 feetMaterial weight: 2,550 lbs/LCYWeight description: Earth - Dry packed**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	(SSD-AC)
Push gradient:	1.115	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4508

Adjusted unit production: 560.43 LCY/hr

Adjusted fleet production: **560.43** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.822/LCY

Total job time: **31.19** Hours

Total job cost: **\$14,366**

REVEGETATION WORKTask description: RevegetationSite: Bayfield Pit No. 1Permit Action: 2024-01-19 UpdatePermit/Job#: M1987038PROJECT IDENTIFICATIONTask #: 05AState: ColoradoAbbreviation: NoneDate: 1/19/2024County: La PlataFilename: M038-05aUser: DMCAgency or organization name: DRMSFERTILIZING**Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
8-32-16, 16-20-0	200.00	pound	\$0.90	\$179.34
			Total Fertilizer Materials Cost/Acre	\$179.34

Application

Description	Cost /Acre
Tractor towed spreader (MEANS 32 01 90.13 0120)	\$41.82
Total Fertilizer Application Cost/Acre	\$41.82

TILLING

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$112.82
Total Tilling Cost/Acre	\$112.82

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Nespar	1.90	6.15	\$16.86
Arizona Fescue - Redondo	0.90	10.33	\$8.33
Blue Grama - Lovington	0.20	3.26	\$3.20
Crested Wheatgrass - Fairway	1.00	4.59	\$4.03
Streambank Wheatgrass - Sodar	2.30	7.50	\$13.11
Western Wheatgrass - Barton	4.00	10.10	\$28.00
Totals Seed Mix	10.30	41.94	\$73.52

Application

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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
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$429.79	\$859.57
Total Mulch Materials Cost/Acre				\$859.57

Application

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$74.46
Power mulcher (MEANS 32 91 13.16 0350)	\$147.67
Total Mulch Application Cost/Acre	\$222.13

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>13</u>	Cost /Acre:	<u>\$1,721.20</u>
Estimated Failure Rate:	<u>25%</u>	Cost /Acre*:	<u>\$1,608.38</u>
*Selected Replanting Work Items:	<u>FERTILIZING,SEEDING,MULCHING</u>		
Initial Job Cost:	<u>\$22,375.60</u>		
Reseeding Job Cost:	<u>\$5,227.24</u>		
Total Job Cost:	<u>\$27,603</u>		
Job Hours:	<u>15.00</u>		

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Mobilize Reclamation Equipment**Site: **Bayfield Pit No. 1**Permit Action: **2024-01-19 Update**Permit/Job#: **M1987038****PROJECT IDENTIFICATION**

Task #: **06A** State: **Colorado** Abbreviation: **None**
 Date: **1/19/2024** County: **La Plata** Filename: **M038-06a**
 User: **DMC**

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:	\$20.26	\$36.04	\$47.05
Operating Cost/Hour:	\$39.51	\$76.08	\$82.85
Operator Cost/Hour:	\$22.52	\$22.52	\$22.52
Helper Cost/Hour:	\$0.00	\$23.53	\$23.53
Total Unit Cost/Hour:	\$82.29	\$158.17	\$175.95

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	66.13	\$257.08	\$175.95	1	\$433.03	\$175.95	\$250.00
Centrifugal pump - 40M, 4 in.	0.70	\$9.16	\$82.29	1	\$91.45	\$82.29	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$6.73	\$82.29	1	\$89.02	\$82.29	\$250.00
Power Mulcher (Bowie LD-90)	6.00	\$25.94	\$82.29	1	\$108.23	\$82.29	\$250.00

Subtotals: **\$721.73** **\$422.82** **\$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.	\$15.83	1	\$15.83	\$15.83

Subtotals: **\$15.83** **\$15.83**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	<u>DURANGO</u>	
Total one-way travel distance:	<u>22.00</u>	miles
Average Travel Speed:	<u>35.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$6,325.78</u>
** two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	<u>\$19.90</u>
** one round trip, no haul rig:	

Transportation Cycle Time:

	Non- Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>0.63</u>	<u>0.63</u>
Return Time (Hours):	<u>0.63</u>	<u>0.63</u>
Loading Time (Hours):	<u>1.00</u>	<u>NA</u>
Unloading Time (Hours):	<u>1.00</u>	<u>NA</u>
Subtotals:	<u>3.26</u>	<u>1.26</u>

JOB TIME AND COST

Total job time:	<u>6.51</u>	Hours
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Total job cost:	<u>\$6,346</u>
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