

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: Rock Dog #1, Permit # M-2005-045, 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 \$194,409.00. This is an increase of \$56,567.00 over the \$137,842.00 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: _____

Site: Rock Dog #1

Permit Action: 2024-01-24 Update

Permit/Job#: M2005045

PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 1/24/2024

County: La Plata

Filename: M045-000

User: DMC

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Grade Highwalls	DOZER	2	67.18	\$57,315
02a	Grade Pit Floor with Overburden - 20 Acres	SCRAPER1	1	9.83	\$19,572
03a	Spread Topsoil	DOZER	2	72.02	\$61,450
04a	Revegetation	REVEGE	1	20.00	\$10,217
05a	Mobilize/Demobilize	MOBILIZE	1	5.33	\$9,756
<u>SUBTOTALS:</u>				174.36	\$158,310

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02

Total = \$3,198

Performance bond: 1.05

Total = \$1,662

Job superintendent: 87.18

Total = \$5,674

Profit: 10.00

Total = \$15,831

TOTAL O & P = \$26,365

CONTRACT AMOUNT (direct + O & P) = \$184,675

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

\$9,234

CONTINGENCY: 0.00

Total = \$0

TOTAL INDIRECT COST = \$36,099

TOTAL BOND AMOUNT (direct + indirect) = \$194,409

BULLDOZER WORKTask description: **Grade Highwalls**Site: **Rock Dog #1** Permit Action: **2024-01-24 Update** Permit/Job#: **M2005045****PROJECT IDENTIFICATION**

Task #: **01A** State: **Colorado** Abbreviation: **None**
 Date: **1/24/2024** County: **La Plata** Filename: **M045-01a**
 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**
 Data Source: **(CRG)**

Cost Breakdown:

		<u>Utilization %</u>
Ownership Cost/Hour:	\$241.38	NA
Operating Cost/Hour:	\$143.92	100
Ripper own. Cost/Hour:	\$0.00	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$41.30	NA

Total unit Cost/Hour: **\$426.60**
 Total Fleet Cost/Hour: **\$853.20**

MATERIAL QUANTITIES

Initial Volume: **50,436**
 Swell factor: **1.000**
 Loose volume: **50,436 LCY**

Source of estimated volume: **Division of Reclamation, Mining & Safety**
 Source of estimated swell factor: **Cat Handbook**

HOURLY PRODUCTION

Average push distance: **100 feet**
 Unadjusted hourly production: **852.6 LCY/hr**

Materials consistency description: **Consolidated stockpile 1.0**

Average push gradient: **-5 %**
 Average site altitude: **6,600 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:	1.000	(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:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4403

Adjusted unit production: 375.40 LCY/hr

Adjusted fleet production: **750.8** LCY/hr

JOB TIME AND COST

Fleet size: 2 Dozer(s)

Unit cost: \$1.136/LCY

Total job time: **67.18** Hours

Total job cost: **\$57,315**

SCRAPER TEAM WORKTask description: **Grade Pit Floor with Overburden - 20 Acres**Site: **Rock Dog #1**Permit Action: 2024-01-24 UpdatePermit/Job#: M2005045**PROJECT IDENTIFICATION**Task #: 02AState: ColoradoAbbreviation: NoneDate: 1/24/2024County: La PlataFilename: M045-02aUser: DMCAgency or organization name: DRMS**HOURLY EQUIPMENT**COSTShift basis: 1 per day

	Equipment Description
-Scraper:	Cat 627G w/push-pull
-Dozer:	Cat D8T - 8SU
Support Equipment -Load Area:	Cat D8T - 8SU
-Dump Area:	NA
Road Maintenance -Motor Grader:	NA
-Water Truck:	NA

Cost Breakdown:**Scraper Work Team****Support Equipment****Maintenance Equipment**

	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	100	100	NA	NA	NA
Ownership cost/hour:	\$249.04	\$241.38	\$241.38	NA	NA	NA
Operating cost/hour:	\$289.36	\$143.92	\$143.92	NA	NA	NA
%Utilization-ripper:	NA	NA	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	\$0.00	NA	NA	NA
Ripper op. cost/hour:	NA	\$0.00	\$0.00	NA	NA	NA
Operator cost/hour:	\$30.90	\$41.30	\$41.30	NA	NA	NA
Unit Subtotals:	\$569.30	\$426.60	\$426.60	NA	NA	NA
Number of Units:	2	1	1	0	0	0
Group Subtotals:	Work:	\$1,565.20	Support:	\$426.60	Maint:	\$0.00

Total work team cost/hour: **\$1,991.80****MATERIAL QUANTITIES**Initial volume: 6,600

CCY

Swell factor: 1.330Loose volume: **8,778**

LCY

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

Material weight: 2,900 lbs/LCY
 Material description: Decomposed rock - 50% Rock,
50% Earth
 Rated Payload: 52,800 pounds
 Payload Capacity: 18.21 LCY

Struck Volume: 15.70 LCY
 Heaped Volume: 22.00 LCY
 Average Volume: 18.85 LCY
 Adjusted Capacity: **18.21** LCY

Cycle Time:Scraper Loading Time: 0.90 MinutesManeuver and Spread Time: 0.60 MinutesJob Condition Correction:

Site Altitude: 6600 feet

	Scraper	Push Dozer	Source
Altitude Adj:	1.000	1.000	(CAT HB)
Job Efficiency:	0.830	0.830	(CAT HB)
Net Correction:	0.830	0.830	

Travel Time:Road Condition: Hard, smooth, stabilized, surfaced, watered, maintained 2.0Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	400.00	5.00	2.00	7.00	1568	0.34

Haul Time: 0.34 minutesReturn Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	400.00	-5.00	2.00	-3.00	2938	0.19

Return Time: 0.19 minutesTotal Scraper team cycle time: 2.03 minutesAdjusted for job conditions: 893.30 LCY/HourSelected Number of Scrapers: 2 Scraper(s)Adjusted single scraper team (unit) hourly production: 893.30 LCY/HourAdjusted multiple scraper team (fleet) hourly production: 893.30 LCY/HourUnadjusted unit production/hour: 1,076.27 LCY/Hour

Optimal Number of Scrapers per push dozer: _____

JOB TIME AND COSTFleet size: 1 Team(s)Total job time: 9.83 HoursUnit cost: \$2.230 /LCYTotal job cost: \$19,572

BULLDOZER WORKTask description: Spread TopsoilSite: Rock Dog #1 Permit Action: 2024-01-24 Update Permit/Job#: M2005045**PROJECT IDENTIFICATION**

Task #:	<u>03A</u>	State:	<u>Colorado</u>	Abbreviation:	<u>None</u>
Date:	<u>1/24/2024</u>	County:	<u>La Plata</u>	Filename:	<u>M045-03a</u>
User:	<u>DMC</u>				

Agency or organization name: DRMS**HOURLY EQUIPMENT COST**

Basic Machine:	<u>Cat D8T - 8SU</u>
Horsepower:	<u>310</u>
Blade Type:	<u>Semi-Universal</u>
Attachment:	<u>NA</u>
Shift Basis:	<u>1 per day</u>
Data Source:	<u>(CRG)</u>

Cost Breakdown:

		<u>Utilization %</u>
Ownership Cost/Hour:	<u>\$241.38</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$143.92</u>	<u>100</u>
Ripper own. Cost/Hour:	<u>\$0.00</u>	<u>NA</u>
Ripper op. Cost/Hour:	<u>\$0.00</u>	<u>0</u>
Operator Cost/Hour:	<u>\$41.30</u>	<u>NA</u>

Total unit Cost/Hour:	<u>\$426.60</u>
Total Fleet Cost/Hour:	<u>\$853.20</u>

MATERIAL QUANTITIES

Initial Volume:	<u>16,833</u>
Swell factor:	<u>1.000</u>
Loose volume:	<u>16,833 LCY</u>

Source of estimated volume:	<u>Division of Reclamation, Mining & Safety</u>
Source of estimated swell factor:	<u>Cat Handbook</u>

HOURLY PRODUCTION

Average push distance:	<u>350 feet</u>
Unadjusted hourly production:	<u>233.3 LCY/hr</u>

Materials consistency description: Consolidated stockpile 1.0

Average push gradient:	<u>-5 %</u>
Average site altitude:	<u>6,600 feet</u>

Material weight: 2,550 lbs/LCYWeight description: Earth - Dry packed

<u>Job Condition Correction Factor</u>	<u>Source</u>
Operator Skill:	<u>0.750</u>
Material consistency:	<u>1.000</u>
Dozing method:	<u>1.000</u>
Visibility:	<u>1.000</u>

	<u>(AVG.)</u>
	<u>(CAT HB)</u>
	<u>(GEN.)</u>
	<u>(AVG.)</u>

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: 0.5009

Adjusted unit production: 116.86 LCY/hr

Adjusted fleet production: **233.72** LCY/hr

JOB TIME AND COST

Fleet size: 2 Dozer(s)

Unit cost: \$3.651/LCY

Total job time: **72.02** Hours

Total job cost: **\$61,450**

REVEGETATION WORKTask description: RevegetationSite: Rock Dog #1Permit Action: 2024-01-24 UpdatePermit/Job#: M2005045PROJECT IDENTIFICATIONTask #: 04AState: ColoradoAbbreviation: NoneDate: 1/24/2024County: La PlataFilename: M045-04aUser: DMCAgency 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
Chisel plowing {DMG}	\$100.40
Total Tilling Cost/Acre	\$100.40

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Orchardgrass - Paiute	8.75	108.47	\$35.66
Ryegrass, Annual/Gulf	5.00	21.81	\$8.25
Smooth Brome - Lincoln	5.00	16.64	\$16.63
Ryegrass, Perennial - Herbie	6.25	35.44	\$11.25
Tall Fescue - Festorina	2.50	13.03	\$4.50
Totals Seed Mix	27.50	195.39	\$76.28

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
			\$	\$
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: 20 Cost /Acre: \$408.68
 Estimated Failure Rate: 25% Cost /Acre*: \$408.68
 *Selected Replanting Work Items: TILLING,SEEDING

Initial Job Cost: **\$8,173.60**
 Reseeding Job Cost: **\$2,043.40**
 Total Job Cost: **\$10,217**
 Job Hours: **20.00**

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Mobilize/Demobilize**Site: **Rock Dog #1**Permit Action: 2024-01-24 UpdatePermit/Job#: M2005045**PROJECT IDENTIFICATION**

Task #: 05A State: Colorado Abbreviation: None
 Date: 1/24/2024 County: La Plata Filename: M045-05a
 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 D8T - 8SU	47.71	\$241.38	\$158.17	2	\$799.10	\$316.34	\$0.00
Cat 627G	41.80	\$230.18	\$158.17	2	\$776.70	\$316.34	\$500.00
Drill/Broadcast Seeder with Tractor	25.00	\$6.73	\$82.29	1	\$89.02	\$82.29	\$250.00

Subtotals: **\$1,664.82** **\$714.97** **\$750.00**

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>15.00</u>	miles
Average Travel Speed:	<u>45.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$9,745.81</u>
'* two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	<u>\$10.55</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>1.00</u>	<u>NA</u>
Unloading Time (Hours):	<u>1.00</u>	<u>NA</u>
Subtotals:	<u>2.67</u>	<u>0.67</u>

JOB TIME AND COST

Total job time:	<u>5.33</u>	Hours
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Total job cost:	<u>\$9,756</u>
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