

January 26, 2024

Justin McCarty
McCarty Excavation and Construction, Inc.
17145 CR 501
Bayfield, CO 81122



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

1313 Sherman Street, Room 215
Denver, CO 80203

RE: Texas Creek Grav Pit, Permit # M-1980-143, 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 \$8,420.00. This is an increase of \$650.00 over the \$7,770.00 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".

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



COST SUMMARY WORK

Task description: _____

Site: Texas Creek Grav Pit

Permit Action: 2024 Update

Permit/Job#: M1980143

PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 1/10/2024

County: La Plata

Filename: M143-000

User: DMC

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Cut and Grade Highwall to 3:1	DOZER	1	2.64	\$1,181
02a	Rip Compacted Areas	RIPPER	1	2.33	\$1,048
03a	Topsoil on Unreclaimed Surface	DOZER	1	3.08	\$1,315
04a	Revegetation	REVEGE	1	2.00	\$1,933
05a	Mobilize/Demobilize	MOBILIZE	1	2.90	\$1,615
<u>SUBTOTALS:</u>				12.95	\$7,092

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02

Total = \$143

Performance bond: 1.05

Total = \$74

Job superintendent: 0.00

Total = \$0

Profit: 10.00

Total = \$709

TOTAL O & P = \$927

CONTRACT AMOUNT (direct + O & P) = \$8,019

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

\$401

CONTINGENCY: 0.00

Total = \$0

TOTAL INDIRECT COST = \$1,328

TOTAL BOND AMOUNT (direct + indirect) = \$8,420

BULLDOZER WORKTask description: Cut and Grade Highwall to 3:1Site: Texas Creek Grav PitPermit Action: 2024 UpdatePermit/Job#: M1980143**PROJECT IDENTIFICATION**Task #: 01AState: ColoradoAbbreviation: NoneDate: 1/10/2024County: La PlataFilename: M143-01aUser: DMCAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D8T - 8SUHorsepower: 310Blade Type: Semi-UniversalAttachment: 3-shank ripperShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$241.38	NA
Operating Cost/Hour:	\$143.92	100
Ripper own. Cost/Hour:	\$14.11	NA
Ripper op. Cost/Hour:	\$7.45	100
Operator Cost/Hour:	\$41.30	NA

Total unit Cost/Hour: \$448.16Total Fleet Cost/Hour: \$448.16**MATERIAL QUANTITIES**Initial Volume: 3,000Swell factor: 1.000Loose volume: 3,000 LCYSource of estimated volume: Existing conditionsSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 50 feetUnadjusted hourly production: 1,400.0 LCY/hrMaterials consistency description: Loose stockpile 1.2Average push gradient: -30 %Average site altitude: 7,300 feetMaterial weight: 3,250 lbs/LCYWeight description: Gravel - Pitrun**Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	1.200	(CAT HB)
Dozing method:	1.200	(SLOT)
Visibility:	1.000	(AVG.)

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.601	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.708	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.8129

Adjusted unit production: 1,138.06 LCY/hr

Adjusted fleet production: **1138.06** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.394/LCY

Total job time: **2.64** Hours

Total job cost: **\$1,181**

BULLDOZER RIPPING WORK

Task description: Rip Compacted Areas

Site: Texas Creek Grav Pit Permit Action: 2024 Update Permit/Job#: M1980143

PROJECT IDENTIFICATION

Task #: 02A State: Colorado Abbreviation: None
Date: 1/10/2024 County: La Plata Filename: M143-02a
User: DMC

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Basic Machine: Cat D8T - 8SU Horsepower: 310
Ripper Attachment: 3-Shank Ripper Shift Basis: 1 per day
Data Source: (CRG)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	<u>\$241.38</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$143.92</u>	<u>100</u>
Ripper Ownership Cost/Hour:	<u>\$14.11</u>	<u>NA</u>
Ripper Operating Cost/Hour:	<u>\$7.45</u>	<u>100</u>
Operator Cost/Hour:	<u>\$41.30</u>	<u>NA</u>
Total Unit Cost/Hour:	<u>\$448.16</u>	
Total Fleet Cost/Hour:	<u>\$448.16</u>	

MATERIAL QUANTITIES

Selected estimating method: Area

Alternate Methods:

Seismic: NA Bank Volume: NA BCY NA
Area: 1.50 acres Rip Depth (ft): 1.00 Volume: 2,420 BCY or CCY

Source of estimated quantity: Existing conditions

HOURLY PRODUCTION

Seismic:

Seismic Velocity: NA feet/second

Area:

Average Ripping Depth:	<u>2.56</u>	<u>feet/pass</u>
Average Ripping Width:	<u>7.08</u>	<u>feet/pass</u>
Average Ripping Length:	<u>200.00</u>	<u>feet/pass</u>
Average Dozer Speed:	<u>88.00</u>	<u>feet/minute</u>
Average Maneuver Time:	<u>0.25</u>	<u>minutes/pass</u>
Production per unit area:	<u>0.773</u>	<u>acres/hour</u>

Job Condition Correction Factors

Unadjusted Hourly Unit Production:	<u>0.773</u>	<u>Acres/hr</u>
Site Altitude:	<u>7,300</u>	<u>feet</u>
Altitude Adj:	<u>1.00</u>	<u>(CAT HB)</u>
Job Efficiency:	<u>0.83</u>	<u>(1 shift/day)</u>
Net Correction:	<u>0.83</u>	<u>multiplier</u>
Adjusted Hourly Unit Production:	<u>0.64</u>	<u>Acres/hr</u>
Adjusted Hourly Fleet Production:	<u>0.64</u>	<u>Acres/hr</u>

JOB TIME AND COST

Fleet size: 1 Grader(s) Total job time: **2.34** Hours

Unit cost: \$698.391 Per acre Total job cost: **\$1,048**

BULLDOZER WORKTask description: Topsoil on Unreclaimed SurfaceSite: Texas Creek Grav PitPermit Action: 2024 UpdatePermit/Job#: M1980143**PROJECT IDENTIFICATION**Task #: 03AState: ColoradoAbbreviation: NoneDate: 1/10/2024County: La PlataFilename: M143-03aUser: DMCAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D8T - 8SUHorsepower: 310Blade Type: Semi-UniversalAttachment: NAShift Basis: 1 per dayData 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: \$426.60Total Fleet Cost/Hour: **\$426.60****MATERIAL QUANTITIES**Initial Volume: 1,700Swell factor: 1.000Loose volume: **1,700 LCY**Source of estimated volume: Existing conditionsSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 100 feetUnadjusted hourly production: 852.6 LCY/hrMaterials consistency description: Loose stockpile 1.2Average push gradient: 0 %Average site altitude: 7,300 feetMaterial weight: 2,550 lbs/LCYWeight description: Earth - Dry packed**Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	0.900	(AB.AVG.)
Material consistency:	1.200	(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:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.6468

Adjusted unit production: 551.46 LCY/hr

Adjusted fleet production: **551.46** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.774/LCY

Total job time: **3.08** Hours

Total job cost: **\$1,315**

REVEGETATION WORKTask description: RevegetationSite: Texas Creek Grav PitPermit Action: 2024 UpdatePermit/Job#: M1980143PROJECT IDENTIFICATIONTask #: 04A
Date: 1/10/2024
User: DMCState: Colorado
County: La PlataAbbreviation: None
Filename: M143-04aAgency 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
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
Crested Wheatgrass - Nordan	5.00	22.96	\$19.50
Intermediate Wheatgrass - Oahe	6.00	12.81	\$16.80
Ryegrass, Perennial - Linn	3.00	17.01	\$5.40
Pubescent Wheatgrass - Luna	8.00	16.53	\$27.20
Totals Seed Mix	22.00	69.31	\$68.90

Application

Description	Cost /Acre
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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}	0.25	TON	\$429.79	\$107.45
Total Mulch Materials Cost/Acre				\$107.45

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: 2 Cost /Acre: \$743.30
 Estimated Failure Rate: 30% Cost /Acre*: \$743.30
 *Selected Replanting Work Items: TILLING,SEEDING,MULCHING

Initial Job Cost: **\$1,486.60**
 Reseeding Job Cost: **\$445.98**
 Total Job Cost: **\$1,933**
 Job Hours: **2.00**

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Mobilize/Demobilize**Site: **Texas Creek Grav Pit**Permit Action: **2024 Update**Permit/Job#: **M1980143****PROJECT IDENTIFICATION**Task #: **05A**
Date: **1/10/2024**
User: **DMC**State: **Colorado**
County: **La Plata**Abbreviation: **None**
Filename: **M143-05a**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	1	\$399.55	\$158.17	\$0.00
Drill/Broadcast Seeder with Tractor	25.00	\$6.73	\$82.29	1	\$89.02	\$82.29	\$0.00
Power Mulcher (Bowie LD-90)	6.00	\$25.94	\$82.29	1	\$108.23	\$82.29	\$0.00

Subtotals: **\$596.80** **\$322.75** **\$0.00****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>BAYFIELD</u>	
Total one-way travel distance:	<u>9.00</u>	miles
Average Travel Speed:	<u>40.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$1,607.40</u>
** two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	<u>\$7.12</u>
** one round trip, no haul rig:	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>0.23</u>	<u>0.23</u>
Return Time (Hours):	<u>0.23</u>	<u>0.23</u>
Loading Time (Hours):	<u>0.50</u>	<u>NA</u>
Unloading Time (Hours):	<u>0.50</u>	<u>NA</u>
Subtotals:	<u>1.45</u>	<u>0.45</u>

JOB TIME AND COST

Total job time:	<u>2.90</u>	Hours
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Total job cost:	<u>\$1,615</u>
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