



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

February 13, 2024

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

**Re: Texas Creek Grav Pit - File No. M-1980-143
McCarty Excavation and Construction, Inc.
Surety Increase (SI-2)**

Dear Justin R. McCarty:

On February 13, 2024 the Division of Reclamation, Mining and Safety increased the Financial Warranty requirement for this permit to \$8,420.00, in accordance with Rule 4.2.1 of the Rules and Regulations. This is an increase of \$650.00.

The Division ordered amendment of the current Financial Warranty, or submittal of a new Financial Warranty reflecting the increase, is due within 60 days from the date of this letter (February 13, 2024).

Please make arrangements with Sara Stevenson-Benn at the Division's Denver office for submittal of the financial warranty. Any other questions regarding completion, execution and/or submittal of financial warranty forms should also be directed to Sara M. Stevenson-Benn by telephone at (303) 866-3567 (8148), or by email at Sara.stevenson-benn@state.co.us.

The Permittee for this site may be scheduled for a Formal Board Hearing for possible revocation of the permit after April 13, 2024, if the amount of increased Financial Warranty has not been provided.

Bond Held:	\$7,770.00
Prior Liability:	\$7,770.00
Change in Liability:	\$650.00
Revised Liability:	\$8,420.00
Prior Permit Acreage:	6.70
Change in Permit Acreage:	0.00



Revised Permit Acreage:	6.70
Prior Affected Acreage:	6.70
Change in Affected Acreage:	0.00
Revised Affected Acreage:	6.70

If you have any questions, please contact me by telephone at (303) 866-3567 x 8188, or by email at Dustin.czapla@state.co.us.

Sincerely,



Dustin M. Czapla
Environmental Protection Specialist

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):	<u>\$0</u>	Total =	<u>\$0</u>
Engineering work and/or contract/bid preparation:	<u>0.00</u>	Total =	<u>\$0</u>
Reclamation management and/or administration:	<u>5.00</u>		<u>\$401</u>

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/DemobilizeSite: Texas Creek Grav PitPermit Action: 2024 UpdatePermit/Job#: M1980143**PROJECT IDENTIFICATION**Task #: 05A
Date: 1/10/2024
User: DMCState: Colorado
County: La PlataAbbreviation: None
Filename: M143-05aAgency or organization name: DRMS**EQUIPMENT TRANSPORT RIG COST**Shift basis: 1 per day
Cost Data Source: CRG DataTruck 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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