



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

August 26, 2021

James Branch and Natasha Goldberg  
HCR High Country Repair  
2632 McCormick Ave.  
Pueblo, CO 81001

**RE: Ghost River Gravel Pit, Permit No. M2003-002, Financial Warranty Increase,  
Revision No. SI-2**

Dear Mr. Branch,

On August 26, 2021 the Division of Reclamation, Mining and Safety (DRMS) increased the current Financial Warranty for the Ghost River Gravel Pit (M2003-002) to \$49,316.00, in accordance with Rule 4.2.1 of the Rules and Regulations. This is an increase of \$30,204.00.

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, **October 25, 2021**.

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. Her phone number is 303-866-3567 or by email at [sara.stevenson-benn@state.co.us](mailto:sara.stevenson-benn@state.co.us).

If you need additional information or have any questions, please contact me at Division of Reclamation, Mining and Safety, 1313 Sherman Street, Room 215, Denver, CO 80203, by telephone at **303-866-3567 x8114**, or by email at [patrick.lennberg@state.co.us](mailto:patrick.lennberg@state.co.us).

Sincerely,

Patrick Lennberg  
Environmental Protection Specialist

Enclosures: Financial Warranty Calculations

cc: Jared Ebert, DRMS  
Sara Stevenson-Benn, DRMS

ec: James Branch, HCR High Country Repair, [jldb713@msn.com](mailto:jldb713@msn.com)  
Natasha Goldberg, HCR High Country Repair, [highcountryrepair@outlook.com](mailto:highcountryrepair@outlook.com)



**Enclosure**

## COST SUMMARY WORK

Task description: \_\_\_\_\_

Site: Ghost River Gravel Pit Permit Action: 2021 Inspection Permit/Job#: M2003002

### PROJECT IDENTIFICATION

Task #: 000 State: Colorado Abbreviation: None  
Date: 8/2/2021 County: Huerfano Filename: M002-000  
User: JPL

Agency or organization name: DRMS

### TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Push-up to grade highwall to 3:1 slope	DOZER	1	37.20	\$7,902
002	Grade Topsoil 4.5-inches 9.9 acres	DOZER	1	21.76	\$4,598
003	Rip 2 acre Area	RIPPER	1	4.40	\$955
004	Revegetate	REVEGE	1	20.00	\$18,604
005	Mob/Demob	MOBILIZE	1	4.54	\$3,931
<b><u>SUBTOTALS:</u></b>				<b>87.9</b>	<b>\$35,990</b>

### INDIRECT COSTS

#### OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$727
Performance bond:	1.05	Total =	\$378
Job superintendent:	31.68	Total =	\$2,282
Profit:	10.00	Total =	\$3,599

TOTAL O & P = \$6,986

CONTRACT AMOUNT (direct + O & P) = \$42,976

#### LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs):	<u>\$500</u>	Total =	<u>\$500</u>
Engineering work and/or contract/bid preparation:	<u>8.59</u>	Total =	<u>\$3,692</u>
Reclamation management and/or administration:	<u>5.00</u>		<u>\$2,149</u>

CONTINGENCY: 0.00 Total = \$0

TOTAL INDIRECT COST = \$13,326

**TOTAL BOND AMOUNT (direct + indirect) = \$49,316**

**BULLDOZER WORK**Task description: **Push-up to grade highwall to 3:1 slope**Site: **Ghost River Gravel Pit**Permit Action: 2021 InspectionPermit/Job#: M2003002**PROJECT IDENTIFICATION**Task #: 001State: ColoradoAbbreviation: NoneDate: 8/2/2021County: HuerfanoFilename: M002-001User: JPLAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D7R DS XR Series IIHorsepower: 240Blade Type: Semi-UniversalAttachment: 3-shank ripperShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$81.02	NA
Operating Cost/Hour:	\$79.33	100
Ripper own.		
Cost/Hour:	\$9.32	NA
Ripper op. Cost/Hour:	\$1.48	25
Operator Cost/Hour:	\$41.30	NA

Total unit Cost/Hour: \$212.45Total Fleet Cost/Hour: **\$212.45****MATERIAL QUANTITIES**Initial Volume: 14,500Swell factor: 1.000Loose volume: **14,500 LCY**Source of estimated volume: 650' long highwall 22 feet height, Push-up volumeSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 70 feetUnadjusted hourly production: 887.8 LCY/hrMaterials consistency description: Consolidated stockpile 1.0Average push gradient: 5 %Average site altitude: 5,700 feetMaterial weight: 2,650 lbs/LCYWeight description: Decomposed rock - 25% Rock, 75% Earth**Job Condition Correction Factor**Operator Skill: 0.750Source  
(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:	0.900	(SSD-FC)
Push gradient:	0.903	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.868	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4391

Adjusted unit  
production: 389.83 LCY/hr

Adjusted fleet  
production: **389.83** LCY/hr

### **JOB TIME AND COST**

Fleet size: 1 Dozer(s)

Unit cost: \$0.545/LCY

Total job time: **37.20** Hours

Total job cost: **\$7,902**

**BULLDOZER WORK**Task description: **Grade Topsoil 4.5-inches 9.9 acres**Site: **Ghost River Gravel Pit**Permit Action: **2021 Inspection**Permit/Job#: **M2003002****PROJECT IDENTIFICATION**Task #: **002**State: **Colorado**Abbreviation: **None**Date: **8/2/2021**County: **Huerfano**Filename: **002**User: **JPL**Agency or organization name: **DRMS****HOURLY EQUIPMENT COST**Basic Machine: **Cat D7R DS XR Series II**Horsepower: **240**Blade Type: **Semi-Universal**Attachment: **3-shank ripper**Shift Basis: **1 per day**Data Source: **(CRG)****Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$81.02	NA
Operating Cost/Hour:	\$79.33	100
Ripper own.		
Cost/Hour:	\$9.32	NA
Ripper op. Cost/Hour:	\$0.30	5
Operator Cost/Hour:	\$41.30	NA

Total unit Cost/Hour: **\$211.27**Total Fleet Cost/Hour: **\$211.27****MATERIAL QUANTITIES**Initial Volume: **6,000**Swell factor: **1.000**Loose volume: **6,000 LCY**Source of estimated volume: **Reclamation Plan Ex D**

Source of estimated swell

factor:

**Cat Handbook****HOURLY PRODUCTION**Average push distance: **150 feet**

Unadjusted hourly

production:

**518.9 LCY/hr**Materials consistency description: **Partly consolidated stockpile 1.1**

Average push

gradient:

Average site altitude: **5,700 feet**Material weight: **2,650 lbs/LCY**Weight description: **Decomposed rock - 25% Rock, 75% Earth****Job Condition Correction Factor**Operator Skill: **0.750****Source****(AVG.)**

Material consistency:	1.100	(CAT HB)
Dozing method:	1.100	(50% SL)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.900	(SSD-FC)
Push gradient:	0.903	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.868	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.5313

Adjusted unit production: 275.69 LCY/hr

Adjusted fleet production: **275.69** LCY/hr

### **JOB TIME AND COST**

Fleet size: 1 Dozer(s)

Unit cost: \$0.766/LCY

Total job time: **21.76** Hours

Total job cost: **\$4,598**

## BULLDOZER RIPPING WORK

Task description: Rip 2 acre Area

Site: Ghost River Gravel Pit

Permit Action: 2021 Inspection

Permit/Job#: M2003002

### PROJECT IDENTIFICATION

Task #: 003

State: Colorado

Abbreviation: None

Date: 8/2/2021

County: Huerfano

Filename: M002-003

User: JPL

Agency or organization name: DRMS

### HOURLY EQUIPMENT COST

Basic Machine: Cat D7R DS XR Series II

Horsepower: 240

Ripper Attachment: 3-Shank Ripper

Shift Basis: 1 per day

Data Source: (CRG)

#### Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	\$81.02	NA
Operating Cost/Hour:	\$79.33	100
Ripper Ownership Cost/Hour:	\$9.32	NA
Ripper Operating Cost/Hour:	\$5.93	100
Operator Cost/Hour:	\$41.30	NA
Total Unit Cost/Hour:	\$216.90	
Total Fleet Cost/Hour:	<b>\$216.90</b>	

### MATERIAL QUANTITIES

Selected estimating method: Area

#### Alternate Methods:

Seismic: NA

Bank Volume: NA

BCY NA

Area: 2.00 acres

Rip Depth (ft): 1.00

Volume: 3,227

BCY or CCY

Source of estimated quantity: Reclamation Cost Estimate

### HOURLY PRODUCTION

#### Seismic:

Seismic Velocity: NA feet/second

#### Area:

Average Ripping Depth:	<u>2.45</u>	feet/pass
Average Ripping Width:	<u>6.50</u>	feet/pass
Average Ripping Length:	<u>50.00</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>0.547</u>	acres/hour

#### Job Condition Correction Factors

Unadjusted Hourly Unit Production: 0.547 Acres/hr

Site Altitude: 5,700 feet

Altitude Adj: 1.00 (CAT HB)

Job Efficiency: 0.83 (1 shift/day)

Net Correction: 0.83 multiplier

Adjusted Hourly Unit Production: 0.45 Acres/hr

Adjusted Hourly Fleet Production: **0.45** Acres/hr

### JOB TIME AND COST

Fleet size: 1 Grader(s)

Total job time: **4.40** Hours

Unit cost: \$477.622 Per acre

Total job cost: **\$955**





**REVEGETATION WORK**Task description: RevegetateSite: Ghost River Gravel PitPermit Action: 2021 InspectionPermit/Job#: M2003002**PROJECT IDENTIFICATION**Task #: 004State: ColoradoAbbreviation: NoneDate: 8/2/2021County: HuerfanoFilename: 004User: JPLAgency or organization name: DRMS**FERTILIZING****Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Triple superphosphate, 0-46-0	80.00	pound	\$0.46	\$36.80
			<b>Total Fertilizer Materials Cost/Acre</b>	<b>\$36.80</b>

**Application**

Description	Cost /Acre
Truck whirlwind spreader (MEANS 32 01 90.13 0140)	\$16.12
<b>Total Fertilizer Application Cost/Acre</b>	<b>\$16.12</b>

**TILLING**

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$114.56
Weed control spraying (MEANS 31 31 16.13 3100)	\$290.40
<b>Total Tilling Cost/Acre</b>	<b>\$404.96</b>

**SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indiangrass - Cheyenne	0.40	1.22	\$4.52
Blue Grama - Lovington	0.60	9.79	\$9.59
Sideoats Grama - Vaughn	1.80	5.91	\$15.08
Galleta	0.60	2.19	\$13.41
Western Wheatgrass - Barton	6.40	16.16	\$44.80
Saltbush, Four Wing	0.50	0.69	\$6.25
Winter Fat	0.50	1.27	\$10.25
<b>Totals Seed Mix</b>	<b>10.80</b>	<b>37.24</b>	<b>\$103.89</b>

**Application**

<b>Description</b>	<b>Cost /Acre</b>
Drill Seeding (DRMS Survey Cost)	\$232.00
<b>Total Seed Application Cost/Acre</b>	<b>\$232.00</b>

**MULCHING and MISCELLANEOUS****Materials**

<b>Description</b>	<b>Units / Acre</b>	<b>Unit</b>	<b>Cost / Unit</b>	<b>Cost /Acre</b>
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$307.02	\$614.04
<b>Total Mulch Materials Cost/Acre</b>				<b>\$614.04</b>

**Application**

<b>Description</b>	<b>Cost /Acre</b>
Crimping, with tractor {DMG survey data}	\$71.57
<b>Total Mulch Application Cost/Acre</b>	<b>\$71.57</b>

**NURSERY STOCK PLANTING**

<b>Common Name</b>	<b>No / Acre</b>	<b>Type and Size</b>	<b>Planting Cost</b>	<b>Fertilizer Pellet Cost</b>	<b>Cost /Acre</b>
					\$
<b>Totals Nursery Stock Cost / Acre</b>					<b>\$0.00</b>

**JOB TIME AND COST**

No. of Acres: 11.8                      Cost /Acre: \$1,479.38  
 Estimated Failure Rate: 25%                      Cost /Acre\*: \$388.81  
 \*Selected Replanting Work Items: FERTILIZING,SEEDING

Initial Job Cost: **\$17,456.68**  
 Reseeding Job Cost: **\$1,146.99**  
 Total Job Cost: **\$18,604**  
 Job Hours: **20.00**

**EQUIPMENT MOBILIZATION/DEMOBILIZATION**Task description: **Mob/Demob**Site: **Ghost River Gravel Pit**Permit Action: 2021 InspectionPermit/Job#: M2003002**PROJECT IDENTIFICATION**Task #: 005State: ColoradoAbbreviation: NoneDate: 8/2/2021County: HuerfanoFilename: M002-005User: JPLAgency or organization name: DRMS**EQUIPMENT TRANSPORT RIG COST**Shift basis: 1 per dayCost 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:**

<b>Available Rig Capacities</b>	<b>0-25 Tons</b>	<b>26-50 Tons</b>	<b>51+ Tons</b>
Ownership Cost/Hour:	\$21.28	\$37.94	\$47.67
Operating Cost/Hour:	\$26.55	\$50.48	\$56.21
Operator Cost/Hour:	\$20.54	\$20.54	\$20.54
Helper Cost/Hour:	\$0.00	\$23.53	\$23.53
Total Unit Cost/Hour:	\$68.37	\$132.49	\$147.95

**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 D7R DS XR Series II	35.93	\$90.34	\$132.49	1	\$222.83	\$132.49	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$7.98	\$68.37	2	\$152.70	\$136.74	\$500.00
Power Mulcher (Bowie LD-90)	6.00	\$14.98	\$68.37	1	\$83.35	\$68.37	\$250.00

Subtotals: **\$458.88** **\$337.60** **\$1,000.00****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: PUEBLO, CO  
 Total one-way travel distance: 35.00 miles  
 Average Travel Speed: 55.00 mph

Total Non-Roadable Mob/Demob Cost \* \$3,931.46  
 \*\* two round trips with haul rig:  
 Total Roadable Mob/Demob Cost \*\* \$0.00  
 \*\* one round trip, no haul rig:

**Transportation Cycle Time:**

	Non- Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.64	0.64
Return Time (Hours):	0.64	0.64
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	2.27	1.27

**JOB TIME AND COST**

Total job time: 4.55 Hours

Total job cost: \$3,931