



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

1313 Sherman St. Room 215
Denver, CO 80203

March 24, 2021

Mr. Jason Burkey
Oldcastle SW Group, Inc. dba United Companies of Mesa County
2273 River Road
Grand Junction, CO 81502-3609

Re: Hall Pit, Permit No. M-1983-142, Financial Warranty Increase, Revision No. SI-2

Dear Mr. Burkey:

On March 24, 2021 the Division of Reclamation, Mining and Safety increased the current Financial Warranty for this permit to \$38,450.00, in accordance with Rule 4.2.1 of the Rules and Regulations. This is an increase of \$16,298.00.

The Division ordered amendment of the current Financial Warranty, or submittal of a new Financial Warranty reflecting the increase, within 60 days from the date of this letter. If you wish to submit a different type of Financial Warranty, please contact me such that I may send you the applicable form.

If you have any questions, please contact me.

Sincerely,

Amy C. Yeldell
Environmental Protection Specialist

cc: Sara M. Stevenson-Benn, DRMS

M-FW-14



COST SUMMARY WORK

Task description: 2021 Inspection Update

Site: Hall Pit

Permit Action: 2021-03

Permit/Job#: M1983142

PROJECT IDENTIFICATION

Task #: ACY

State: Colorado

Abbreviation: None

Date: 3/23/2021

County: Mesa

Filename: M142-acy

User: ACY

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Remove scale and office	DEMOLISH	1	8.00	\$1,201
02a	Rip compacted pit floor	RIPPER	1	11.88	\$2,366
03a	Grade topsoil	DOZER	1	52.21	\$9,723
04a	Reveg Affected Areas	REVEGE	1	24.00	\$11,811
05a	Initial Mobilization	MOBILIZE	1	2.44	\$2,381
05b	Secondary Mobilization	MOBILIZE	1	2.44	\$1,378
<u>SUBTOTALS:</u>				100.97	\$28,860

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02

Total = \$583

Performance bond: 1.05

Total = \$303

Job superintendent: 50.49

Total = \$3,511

Profit: 10.00

Total = \$2,886

TOTAL O & P = \$7,283

CONTRACT AMOUNT (direct + O & P) = \$36,143

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

\$1,807

CONTINGENCY: 0.00

Total = \$0

TOTAL INDIRECT COST = \$9,590

TOTAL BOND AMOUNT (direct + indirect) = \$38,450

DEMOLITION WORK

Task description: Remove scale and office

Site: Hall Pit

Permit Action: 2021-03

Permit/Job#: M1983142

PROJECT IDENTIFICATION

Task #: 01A

State: Colorado

Abbreviation: None

Date: 3/23/2021

County: Mesa

Filename: M142-01a

User: ACY

Agency or organization name: DRMS

UNIT COSTS

Location adjustment: 90.70 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Truck Scale	30' x 10'3"	Loading and 5 mile haul, salvage allowed - Steel frame structures	33.00	CY	\$10.65	\$351.45
Scale approach ramps	10' x 20' x 1'	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	200.00	SF	\$1.67	\$334.00
Scale House	8' X 15' X 8'	Loading and 2 mile haul, no salvage - Machine loading	36.00	CY	\$17.75	\$639.00

Job Hours: 8.00

Subtotal
(unadjusted): \$1,324.45

Total Cost
(adjusted for location): \$1,201.28

BULLDOZER RIPPING WORK

Task description: Rip compacted pit floor

Site: Hall Pit Permit Action: 2021-03 Permit/Job#: M1983142

PROJECT IDENTIFICATION

Task #: 02A State: Colorado Abbreviation: None
Date: 3/23/2021 County: Mesa Filename: M142-02a
User: ACY

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:	<u>\$74.64</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$71.55</u>	<u>100</u>
Ripper Ownership Cost/Hour:	<u>\$7.60</u>	<u>NA</u>
Ripper Operating Cost/Hour:	<u>\$5.32</u>	<u>100</u>
Operator Cost/Hour:	<u>\$40.04</u>	<u>NA</u>
Total Unit Cost/Hour:	<u>\$199.14</u>	
Total Fleet Cost/Hour:	<u>\$199.14</u>	

MATERIAL QUANTITIES

Selected estimating method: Area

Alternate Methods:

Seismic: NA Bank Volume: NA BCY NA
Area: 7.00 acres Rip Depth (ft): 2.00 Volume: 22,587 BCY or CCY

Source of estimated quantity: 2020 Ann Rpt

HOURLY PRODUCTION

Seismic:

Seismic Velocity: NA feet/second

Area:

Average Ripping Depth: 2.45 feet/pass
Average Ripping Width: 6.50 feet/pass
Average Ripping Length: 200.00 feet/pass
Average Dozer Speed: 88.00 feet/minute
Average Maneuver Time: 0.25 minutes/pass
Production per unit area: 0.710 acres/hour

Job Condition Correction Factors

Unadjusted Hourly Unit Production: 0.710 Acres/hr
Site Altitude: 4,900 feet
Altitude Adj: 1.00 (CAT HB)
Job Efficiency: 0.83 (1 shift/day)
Net Correction: 0.83 multiplier

Adjusted Hourly Unit Production: 0.59 Acres/hr
Adjusted Hourly Fleet Production: **0.59** Acres/hr

JOB TIME AND COST

Fleet size: 1 Grader(s) Total job time: **11.88** Hours

Unit cost: \$338.021 Per acre Total job cost: **\$2,366**

BULLDOZER WORKTask description: Grade topsoilSite: Hall Pit Permit Action: 2021-03 Permit/Job#: M1983142**PROJECT IDENTIFICATION**

Task #: 03A State: Colorado Abbreviation: None
 Date: 3/23/2021 County: Mesa Filename: M142-03a
 User: ACY

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

Basic Machine: Cat D7R DS XR Series II
 Horsepower: 240
 Blade Type: Semi-Universal
 Attachment: NA
 Shift Basis: 1 per day
 Data Source: (CRG)

Cost Breakdown:

		<u>Utilization %</u>
Ownership Cost/Hour:	<u>\$74.64</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$71.55</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>\$40.04</u>	<u>NA</u>

Total unit Cost/Hour: \$186.22
 Total Fleet Cost/Hour: **\$186.22**

MATERIAL QUANTITIES

Initial Volume: 8,470
 Swell factor: 1.000
 Loose volume: **8,470 LCY**

Source of estimated volume: Staff estimates, previous calculations. 7 ac @ 9"
 Source of estimated swell factor: Cat Handbook

HOURLY PRODUCTION

Average push distance: 200 feet
 Unadjusted hourly production: 410.8 LCY/hr

Materials consistency description: Consolidated stockpile 1.0

Average push gradient: 0 %
 Average site altitude: 4,900 feet

Material weight: 2,900 lbs/LCYWeight description: Sand and gravel - Dry

<u>Job Condition Correction Factor</u>	<u>Source</u>
Operator Skill: <u>0.750</u>	<u>(AVG.)</u>
Material consistency: <u>1.000</u>	<u>(CAT HB)</u>
Dozing method: <u>1.000</u>	<u>(GEN.)</u>
Visibility: <u>1.000</u>	<u>(AVG.)</u>

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:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3949

Adjusted unit production: 162.22 LCY/hr

Adjusted fleet production: **162.22** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$1.148/LCY

Total job time: **52.21** Hours

Total job cost: **\$9,723**

REVEGETATION WORKTask description: Reveg Affected AreasSite: Hall PitPermit Action: 2021-03Permit/Job#: M1983142**PROJECT IDENTIFICATION**Task #: 04AState: ColoradoAbbreviation: NoneDate: 3/23/2021County: MesaFilename: M142-04aUser: ACYAgency or organization name: DRMS**FERTILIZING****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)	\$107.16
Weed control spraying (MEANS 31 31 16.13 3100)	\$193.60
Total Tilling Cost/Acre	\$300.76

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Foxtail Barley	2.00	6.89	\$430.00
Galleta	2.20	8.03	\$49.17
Slender Wheatgrass - Native	2.20	8.03	\$10.18
Tall Fescue - KY 31	1.50	7.82	\$2.96
Saltbush, Shadscale	1.00	1.49	\$10.00
Saltgrass, Inland	0.67	9.29	\$28.68
Totals Seed Mix	9.57	41.54	\$530.98

Application

Application	
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}	1.50	TON	\$301.00	\$451.50
Total Mulch Materials Cost/Acre				\$451.50

Application

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$70.17
Power mulcher (MEANS 32 91 13.16 0350)	\$101.93
Total Mulch Application Cost/Acre	\$172.10

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:	7	Cost /Acre:	\$1,687.34
Estimated Failure Rate:	50%	Cost /Acre*:	\$1,687.34
*Selected Replanting Work Items:	TILLING,SEEDING,MULCHING		
Initial Job Cost:	\$11,811.38		
Reseeding Job Cost:	\$5,905.69		
Total Job Cost:	\$17,717		
Job Hours:	24.00		

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Initial Mobilization**Site: **Hall Pit** Permit Action: **2021-03** Permit/Job#: **M1983142****PROJECT IDENTIFICATION**

Task #: **05A** State: **Colorado** Abbreviation: **None**
 Date: **3/23/2021** County: **Mesa** Filename: **M142-05a**
 User: **ACY**

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:	\$17.20	\$29.63	\$38.69
Operating Cost/Hour:	\$26.56	\$47.02	\$55.69
Operator Cost/Hour:	\$23.63	\$23.63	\$23.63
Helper Cost/Hour:	\$0.00	\$23.53	\$23.53
Total Unit Cost/Hour:	\$67.39	\$123.81	\$141.54

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	\$82.24	\$123.81	1	\$206.05	\$123.81	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$6.72	\$67.39	1	\$74.11	\$67.39	\$250.00
Power Mulcher (Bowie LD-90)	6.00	\$11.19	\$67.39	1	\$78.58	\$67.39	\$250.00
Subtotals:					\$358.74	\$258.59	\$750.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Flatbed Truck, 6x4, 45K GVW	\$78.26	1	\$78.26	\$78.26
Light Duty Pickup, 4x4, 3/4 T.	\$41.46	1	\$41.46	\$41.46
Subtotals:			\$119.72	\$119.72

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	<u>GRAND JUNCTION</u>	
Total one-way travel distance:	<u>5.00</u>	miles
Average Travel Speed:	<u>45.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$2,354.66</u>
** two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	<u>\$26.60</u>
** one round trip, no haul rig:	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>0.11</u>	<u>0.11</u>
Return Time (Hours):	<u>0.11</u>	<u>0.11</u>
Loading Time (Hours):	<u>0.50</u>	<u>NA</u>
Unloading Time (Hours):	<u>0.50</u>	<u>NA</u>
Subtotals:	<u>1.22</u>	<u>0.22</u>

JOB TIME AND COST

Total job time: 2.44 Hours

Total job cost: \$2,381

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Secondary Mobilization**Site: **Hall Pit**Permit Action: 2021-03Permit/Job#: M1983142**PROJECT IDENTIFICATION**Task #: 05BState: ColoradoAbbreviation: NoneDate: 3/23/2021County: MesaFilename: M142-05bUser: ACYAgency 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:**

Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons
Ownership Cost/Hour:	\$17.20	\$29.63	\$38.69
Operating Cost/Hour:	\$26.56	\$47.02	\$55.69
Operator Cost/Hour:	\$23.63	\$23.63	\$23.63
Helper Cost/Hour:	\$0.00	\$23.53	\$23.53
Total Unit Cost/Hour:	\$67.39	\$123.81	\$141.54

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
Drill/Broadcast Seeder with Tractor	25.00	\$6.72	\$67.39	1	\$74.11	\$67.39	\$250.00
Power Mulcher (Bowie LD-90)	6.00	\$11.19	\$67.39	1	\$78.58	\$67.39	\$250.00
Subtotals:					\$152.69	\$134.78	\$500.00

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.	\$41.46	1	\$41.46	\$41.46
Subtotals:			\$41.46	\$41.46

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	<u>GRAND JUNCTION</u>	
Total one-way travel distance:	<u>5.00</u>	miles
Average Travel Speed:	<u>45.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$1,369.26</u>
** two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	<u>\$9.21</u>
** one round trip, no haul rig:	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>0.11</u>	<u>0.11</u>
Return Time (Hours):	<u>0.11</u>	<u>0.11</u>
Loading Time (Hours):	<u>0.50</u>	<u>NA</u>
Unloading Time (Hours):	<u>0.50</u>	<u>NA</u>
Subtotals:	<u>1.22</u>	<u>0.22</u>

JOB TIME AND COST

Total job time:	<u>2.44</u>	Hours
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Total job cost:	<u>\$1,378</u>
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