



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

1313 Sherman St. Room 215
Denver, CO 80203

October 27, 2020

Mr. Craig Howell
Nuvemco, LLC
P.O. Box 297
Naturita, CO 81422

**Re: October Ore Pile Reclamation, Permit No. M-2008-050, Financial Warranty Increase,
Revision No. SI-1**

Dear Mr. Howell:

On October 27, 2020 the Division of Reclamation, Mining and Safety increased the current Financial Warranty for this permit to \$18,212.00, in accordance with Rule 4.2.1 of the Rules and Regulations. This is an increase of \$4,992.00. See the attached calculation.

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, Monday December 26, 2020.

If you have any questions, please contact me.

Sincerely,

Amy C. Yeldell
Environmental Protection Specialist

M-FW-14



COST SUMMARY WORK

Task description: 2020 Calc Update

Site: October Ore Pile
Reclamation

Permit Action: 2020-10

Permit/Job#: M2008050

PROJECT IDENTIFICATION

Task #: ACY State: Colorado Abbreviation: None
Date: 10/27/2020 County: Mesa Filename: M050-ACY
User: ACY

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Remove Silt Fence	DEMOLISH	1	3.00	\$481
02a	Rip disturbed area	RIPPER	1	0.85	\$175
03a	Push slaved topsoil	DOZER	1	0.41	\$79
04a	Transport Alternative Soils	TRUCK1	1	7.89	\$3,927
04b	Push imported topsoil	DOZER	1	3.10	\$594
05a	Reveg 0.46 ac	REVEGE	1	8.00	\$553
06a	Initial Mobilization	MOBILIZE	1	8.00	\$7,247
07a	Secondary Mobilization	MOBILIZE	1	8.00	\$1,282
<u>SUBTOTALS:</u>				39.25	\$14,338

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$290
Performance bond:	1.05	Total =	\$151
Job superintendent:	0.00	Total =	\$0
Profit:	10.00	Total =	\$1,434

TOTAL O & P = \$1,874

CONTRACT AMOUNT (direct + O & P) = \$16,212

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs):	\$500	Total =	\$500
Engineering work and/or contract/bid preparation:	4.25	Total =	\$689
Reclamation management and/or administration:	5.00		\$811

CONTINGENCY: 0.00 Total = \$0

TOTAL INDIRECT COST = \$3,874

TOTAL BOND AMOUNT (direct + indirect) = \$18,212

DEMOLITION WORK

Task description: Remove Silt Fence

Site: October Ore Pile
Reclamation

Permit Action: 2020-10

Permit/Job#: M2008050

PROJECT IDENTIFICATION

Task #: 01A
Date: 10/27/2020
User: ACY

State: Colorado
County: Mesa

Abbreviation: None
Filename: M050-01a

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
600 LF of Silt Fence	600 lf	Hauling only, per mile, 12-18 CY truck - 50 mph average speed	120.00	MI	\$3.24	\$388.80
Landfill Fee	15 CY	Dump fees - Rubbish only	15.00	CY	\$9.45	\$141.75

Job Hours: 3.00

Subtotal
(unadjusted): \$530.55

Total Cost
(adjusted for location): \$481.21

BULLDOZER RIPPING WORK

Task description: Rip disturbed area

Site: October Ore Pile Reclamation Permit Action: 2020-10 Permit/Job#: M2008050

PROJECT IDENTIFICATION

Task #: 02A State: Colorado Abbreviation: None
Date: 10/27/2020 County: Mesa Filename: M050-02a
User: ACY

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Basic Machine: Cat D7R DS Series II LGP Horsepower: 240
Ripper Attachment: 3-Shank Ripper Shift Basis: 1 per day
Data Source: (CRG)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	\$76.61	NA
Operating Cost/Hour:	\$74.78	100
Ripper Ownership Cost/Hour:	\$7.60	NA
Ripper Operating Cost/Hour:	\$5.32	100
Operator Cost/Hour:	\$40.04	NA
Total Unit Cost/Hour:	\$204.34	
Total Fleet Cost/Hour:	\$204.34	

MATERIAL QUANTITIES

Selected estimating method: Area

Alternate Methods:

Seismic: NA Bank Volume: NA BCY NA
Area: 0.46 acres Rip Depth (ft): 1.00 Volume: 742 BCY or CCY

Source of estimated quantity: Previously accepted value

HOURLY PRODUCTION

Seismic:

Seismic Velocity: NA feet/second

Area:

Average Ripping Depth: 1.00 feet/pass
Average Ripping Width: 6.50 feet/pass
Average Ripping Length: 100.00 feet/pass
Average Dozer Speed: 88.00 feet/minute
Average Maneuver Time: 0.25 minutes/pass
Production per unit area: 0.646 acres/hour

Job Condition Correction Factors

Unadjusted Hourly Unit Production: 0.646 Acres/hr
Site Altitude: 6,800 feet
Altitude Adj: 1.00 (CAT HB)
Job Efficiency: 0.83 (1 shift/day)
Net Correction: 0.83 multiplier

Adjusted Hourly Unit Production: 0.54 Acres/hr
Adjusted Hourly Fleet Production: 0.54 Acres/hr

JOB TIME AND COST

Fleet size: 1 Grader(s) Total job time: 0.86 Hours

Unit cost: \$381.220 Per acre Total job cost: \$175

BULLDOZER WORKTask description: **Push slaved topsoil**

Site: **October Ore Pile Reclamation** Permit Action: **2020-10** Permit/Job#: **M2008050**

PROJECT IDENTIFICATION

Task #: **03A** State: **Colorado** Abbreviation: **None**
 Date: **10/27/2020** County: **Mesa** Filename: **M050-03a**
 User: **ACY**

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

Basic Machine: **Cat D7R DS Series II LGP**
 Horsepower: **240**
 Blade Type: **Straight**
 Attachment: **NA**
 Shift Basis: **1 per day**
 Data Source: **(CRG)**

Cost Breakdown:

		<u>Utilization %</u>
Ownership Cost/Hour:	\$76.61	NA
Operating Cost/Hour:	\$74.78	100
Ripper own. Cost/Hour:	\$0.00	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$40.04	NA

Total unit Cost/Hour: **\$191.43**
 Total Fleet Cost/Hour: **\$191.43**

MATERIAL QUANTITIES

Initial Volume: **100**
 Swell factor: **1.000**
 Loose volume: **100 LCY**

Source of estimated volume: **6" over 0.11 ac-previous value**
 Source of estimated swell factor: **Cat Handbook**

HOURLY PRODUCTION

Average push distance: **100 feet**
 Unadjusted hourly production: **496.4 LCY/hr**

Materials consistency description: **Loose stockpile 1.2**

Average push gradient: **5 %**
 Average site altitude: **6,800 feet**

Material weight: **2,550 lbs/LCY**Weight description: **Earth - Dry packed****Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	0.750	(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:	0.903	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4867

Adjusted unit production: 241.60 LCY/hr

Adjusted fleet production: **241.6** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.792/LCY

Total job time: **0.41** Hours

Total job cost: **\$79**

TRUCK/LOADER TEAM WORKTask description: **Transport Alternative Soils**Site: **October Ore Pile
Reclamation**

Permit Action:

2020-10

Permit/Job#: **M2008050****PROJECT IDENTIFICATION**Task #: **04A**State: **Colorado**Abbreviation: **None**Date: **10/27/2020**County: **Mesa**Filename: **M050-04a**User: **ACY**Agency or organization name: **DRMS****HOURLY EQUIPMENT COST**Shift basis: **1 per day**

	Equipment Description
Truck Loader Team -Truck:	Generic 12-18 cy, 6x4
-Loader:	CAT 938H
Support Equipment -Load Area:	NA
-Dump Area:	NA
Road Maintenance -Motor Grader:	NA
-Water Truck:	NA

Cost Breakdown:**Truck/Loader Team****Support Equipment****Maintenance Equipment**

	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	100	NA	NA	NA	NA
Ownership cost/hour:	\$24.61	\$27.00	NA	NA	NA	NA
Operating cost/hour:	\$50.89	\$33.65	NA	NA	NA	NA
%Utilization-ripper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	NA	NA	NA	NA
Ripper op. cost/hour:	NA	\$0.00	NA	NA	NA	NA
Operator cost/hour:	\$24.82	\$35.97	NA	NA	NA	NA
Unit Subtotals:	\$100.33	\$96.61	NA	NA	NA	NA
Number of Units:	4	1	0	0	0	0
Group Subtotals:	Work: \$497.93		Support: \$0.00		Maint: \$0.00	

Total work team cost/hour: **\$497.93****MATERIAL QUANTITIES**Initial volume: **750**

CCY

Swell factor: **1.000**Loose volume: **750**

LCY

Source of estimated volume: **1' pver 0.46 ac**Source of estimated swell factor: **Cat Handbook**Material Purchase Cost: **\$0.00**Total Cost: **\$0.00****HOURLY PRODUCTION****Truck Capacity:****Truck Payload (weight) Basis:**Material weight: **2,550**

Pounds/LCY

Description: **Earth - Dry packed**Rated Payload: **50,300**

Pounds

Payload Capacity: 19.73 LCY

Truck Bed (volume) Basis:

Struck Volume: 12.00 LCY
 Heaped Volume: 18.00 LCY
 Average Volume: 15.00 LCY
 Adjusted Volume: 18.00 LCY

Final Truck Volume Based on Number of Loader Passes: 17.16 LCY

Loading Tool Capacity

Bucket Size Class: NA

Rated Capacity: 3.900 LCY (heaped)
 Bucket Fill Factor: 1.100 Other - rock/dirt mixtures (100-120%) 1.100
 Adjusted Capacity: 4.290 LCY

Job Condition Corrections:

Site Altitude (ft.): 6800 feet

	Truck	Loader	Source
Altitude Adj:	1.000	1.000	(CAT HB)
Job Efficiency:	0.830	0.830	(CAT HB)

Net Correction: 0.830 0.830

Loading Tool Cycle Time: Number of Loading Tool Passes Required to Fill Truck: 4 passes

Excavators and Front Shovels:

Machine Cycle Time vs. Job Condition Rating: NA
 Selected Value within this Basic Rating: NA

Track Loaders – Material Description: _____

Cycle Time Elements (min.):

Load: NA Maneuver: NA Dump: 0.100

Wheel and Track Loaders - Unadjusted Basic Loader Cycle Time (load, dump, maneuver): 0.483 minutes

Cycle Time Factors		Factor (min.)	Source
Material:	Mixed material 0.02	0.020	(Cat HB)
Stockpile:	Dumped by truck 0.02	0.020	(Cat HB)
Truck Ownership:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Operation:	Inconsistent operation 0.04	0.040	(Cat HB)
Dump Target:	Nominal target 0.00	0.000	(Cat HB)
Net Cycle Time Adjustment:		0.080	minutes
Adjusted Loader Cycle Time:		0.563	minutes
Net Load Time per Truck:		1.788	minutes

Truck Cycle Time:

Truck Exchange Time: 0.50 Minutes Adjusted for site altitude: 0.500 Minutes
 Truck Load Time: 1.788 Minutes Adjusted for site altitude: 1.788 Minutes
 Truck Maneuver and Dump Time: 0.90 Minutes Adjusted for site altitude: 0.900 Minutes

Truck Travel (Haul & Return) Time:
penetration 4.0

Road Condition: Rutted dirt, little maintenance, no water, 1" tire

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	36960.00	2.00	4.00	6.00	1855	20.004

Haul Time: **20.004** minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	36960.00	-2.00	4.00	2.00	2905	12.758

Return Time: **12.758** minutesTotal Truck Cycle Time: **35.950** minutes

Loading Tool unit

Production	<u>450.10</u>	LCY/Hour	Adjusted for job efficiency:	<u>373.58</u>	LCY/Hour
Truck Unit Production	<u>28.64</u>	LCY/Hour	Adjusted for job efficiency:	<u>23.77</u>	LCY/Hour

Optimal No. of Trucks:	<u>16</u>	Truck(s)	Selected Number of Trucks:	<u>4</u>	Truck(s)
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Adjusted hourly truck team production:	<u>95.09</u>	LCY/Hour
Adjusted single truck/loader team production:	<u>95.09</u>	LCY/Hour
Adjusted multiple truck/loader team production:	<u>95.09</u>	LCY/Hour

JOB TIME AND COST

Fleet size:	<u>1</u>	Team(s)	Total job time:	<u>7.89</u>	Hours
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Unit cost:	<u>\$5.237</u>	/LCY	Total job cost:	<u>\$3,927</u>
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BULLDOZER WORKTask description: **Push imported topsoil**

Site: **October Ore Pile Reclamation** Permit Action: **2020-10** Permit/Job#: **M2008050**

PROJECT IDENTIFICATION

Task #: **04B** State: **Colorado** Abbreviation: **None**
 Date: **10/27/2020** County: **Mesa** Filename: **M050-04b**
 User: **ACY**

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

Basic Machine: **Cat D7R DS Series II LGP**
 Horsepower: **240**
 Blade Type: **Straight**
 Attachment: **NA**
 Shift Basis: **1 per day**
 Data Source: **(CRG)**

Cost Breakdown:

		<u>Utilization %</u>
Ownership Cost/Hour:	\$76.61	NA
Operating Cost/Hour:	\$74.78	100
Ripper own. Cost/Hour:	\$0.00	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$40.04	NA

Total unit Cost/Hour: **\$191.43**
 Total Fleet Cost/Hour: **\$191.43**

MATERIAL QUANTITIES

Initial Volume: **750**
 Swell factor: **1.000**
 Loose volume: **750 LCY**

Source of estimated volume: **1' over 0.46 ac-previous value**
 Source of estimated swell factor: **Cat Handbook**

HOURLY PRODUCTION

Average push distance: **100 feet**
 Unadjusted hourly production: **496.4 LCY/hr**

Materials consistency description: **Loose stockpile 1.2**

Average push gradient: **5 %**
 Average site altitude: **6,800 feet**

Material weight: **2,550 lbs/LCY**Weight description: **Earth - Dry packed****Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	0.750	(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:	0.903	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4867

Adjusted unit production: 241.60 LCY/hr

Adjusted fleet production: **241.6** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.792/LCY

Total job time: **3.10** Hours

Total job cost: **\$594**

REVEGETATION WORKTask description: Reveg 0.46 acSite: October Ore Pile
ReclamationPermit Action: 2020-10Permit/Job#: M2008050**PROJECT IDENTIFICATION**Task #: 05A
Date: 10/27/2020
User: ACYState: Colorado
County: MesaAbbreviation: None
Filename: M050-05aAgency 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
Total Tilling Cost/Acre	\$107.16

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Blue Grama - Hachita	0.80	13.06	\$12.78
Indian Ricegrass - Paloma	4.20	13.60	\$46.73
Crested Wheatgrass - Nordan	3.00	13.77	\$11.70
Pubescent Wheatgrass - Luna	6.00	12.40	\$20.40
Slender Wheatgrass - Pryor	4.00	14.60	\$17.00
Milk Vetch, Cicer - Lutana	0.60	2.00	\$4.92
Western Wheatgrass - Arriba	5.40	13.64	\$35.10
Needle and Thread	4.80	12.67	\$200.88
Flax, Lewis Blue	1.60	10.61	\$26.40

Saltbush, Four Wing	6.00	8.26	\$75.00
Penstemon, Palmer	0.40	8.84	\$21.80
Totals Seed Mix	36.80	123.45	\$472.71

Application

Description	Cost /Acre
Broadcast seeding [DMG]	\$267.22
Total Seed Application Cost/Acre	\$267.22

MULCHING and MISCELLANEOUS**Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - Curtail @ 4.0 pt/ac	1.00	ACRE	\$7.63	\$7.63
Total Mulch Materials Cost/Acre				\$7.63

Application

Description	Cost /Acre
Weed spray, hand, non-aquatic area, nox. [DMG]	\$183.16
Total Mulch Application Cost/Acre	\$183.16

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: 0.46 Cost /Acre: \$1,037.88
 Estimated Failure Rate: 50% Cost /Acre*: \$1,037.88
 *Selected Replanting Work Items: TILLING,SEEDING,MULCHING

Initial Job Cost: **\$477.42**
 Reseeding Job Cost: **\$238.71**
 Total Job Cost: **\$716**
 Job Hours: **8.00**

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Initial Mobilization**Site: **October Ore Pile
Reclamation**Permit Action: **2020-10**Permit/Job#: **M2008050****PROJECT IDENTIFICATION**

Task #: **06A** State: **Colorado** Abbreviation: **None**
 Date: **10/27/2020** County: **Mesa** Filename: **M050-06a**
 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 Series II LGP	38.49	\$84.21	\$123.81	1	\$208.02	\$123.81	\$250.00
CAT 938H	16.34	\$27.00	\$67.39	1	\$94.39	\$67.39	\$1,000.00
Drill/Broadcast Seeder with Tractor	25.00	\$6.72	\$67.39	1	\$74.11	\$67.39	\$250.00

Subtotals: **\$376.52** **\$258.59** **\$1,500.00**

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Flatbed Truck, 4x2, 30K GVW	\$58.44	1	\$58.44	\$58.44
Light Duty Pickup, 4x4, 3/4 T.	\$69.69	1	\$69.69	\$69.69
Generic 12-18 cy, 6x4	\$100.32	4	\$401.28	\$401.28

Subtotals: **\$529.41** **\$529.41**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	<u>GRAND JUNCTION</u>	
Total one-way travel distance:	<u>60.00</u>	miles
Average Travel Speed:	<u>40.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$5,658.37</u>
'* two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	<u>\$1,588.23</u>
** one round trip, no haul rig:	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>1.50</u>	<u>1.50</u>
Return Time (Hours):	<u>1.50</u>	<u>1.50</u>
Loading Time (Hours):	<u>0.50</u>	<u>NA</u>
Unloading Time (Hours):	<u>0.50</u>	<u>NA</u>
Subtotals:	<u>4.00</u>	<u>3.00</u>

JOB TIME AND COST

Total job time: 8.00 Hours

Total job cost: \$7,247

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: Secondary MobilizationSite: Valley Vista PitPermit Action: 2020-10Permit/Job#: M1981229**PROJECT IDENTIFICATION**Task #: 06BState: ColoradoAbbreviation: NoneDate: 10/15/2020County: MesaFilename: M229-06bUser: 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
Flatbed Truck, 4x2, 15K GVW	\$79.68	1	\$79.68	\$79.68
Subtotals:			\$79.68	\$79.68

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>35.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$1,387.51</u>
** two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	<u>\$22.77</u>
** one round trip, no haul rig:	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>0.14</u>	<u>0.14</u>
Return Time (Hours):	<u>0.14</u>	<u>0.14</u>
Loading Time (Hours):	<u>0.50</u>	<u>NA</u>
Unloading Time (Hours):	<u>0.50</u>	<u>NA</u>
Subtotals:	<u>1.29</u>	<u>0.29</u>

JOB TIME AND COST

Total job time:	<u>2.57</u>	Hours
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Total job cost:	<u>\$1,410</u>
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EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: Secondary MobilizationSite: October Ore Pile
ReclamationPermit Action: 2020-10Permit/Job#: M2008050**PROJECT IDENTIFICATION**

Task #: 07A State: Colorado Abbreviation: None
 Date: 10/27/2020 County: Mesa Filename: M050-07a
 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
Drill/Broadcast Seeder with Tractor	25.00	\$6.72	\$67.39	1	\$74.11	\$67.39	\$250.00

Subtotals: **\$74.11** **\$67.39** **\$250.00**

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.	\$69.69	1	\$69.69	\$69.69

Subtotals: **\$69.69** **\$69.69**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	<u>GRAND JUNCTION</u>	
Total one-way travel distance:	<u>60.00</u>	miles
Average Travel Speed:	<u>40.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$1,072.72</u>
** two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	<u>\$209.07</u>
** one round trip, no haul rig:	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>1.50</u>	<u>1.50</u>
Return Time (Hours):	<u>1.50</u>	<u>1.50</u>
Loading Time (Hours):	<u>0.50</u>	<u>NA</u>
Unloading Time (Hours):	<u>0.50</u>	<u>NA</u>
Subtotals:	<u>4.00</u>	<u>3.00</u>

JOB TIME AND COST

Total job time:	<u>8.00</u>	Hours
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Total job cost:	<u>\$1,282</u>
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