



November 17, 2023

Jim Doody  
Kilgore Companies LLC dba Elam Construction  
556 Struthers Ave  
Grand Junction, CO 81501

***RE: Sunny Side Gravel Pit, Permit No. M-1986-160, Proposed Surety Increase SI-5***

Dear Mr. Doody:

This reclamation cost update was in response to the site inspection conducted on October 25, 2023. It is Division policy to periodically update its costs to ensure that the Financial Warranty adequately, reflects the actual current cost of fulfilling the requirements of the approved reclamation plan.

The bond was last recalculated in 2018 with SO-1. Below is a table summarizing input values that have been updated in since the SO-1 calculation. This table does not account for price changes resulting from inflation or other RS Means cost changes. Bond calculations are based on a combination of field observations and worst case scenario based on the approved reclamation plan.

Task	Form Used	Description
01a	Dozer	Highwall reduction grade to 3H: 1V Change to D8, Push -15%, corrected volumes, material type bank Grade highwall benches (36,667 BCY) <ul style="list-style-type: none"><li>• 100'H x 300'W @ 1:1 cut/fill (27,778 BCY)</li><li>• 40'H x 600'W @ 1:1 cut/fill (8,889 BCY)</li></ul>
02a	Ripper	Rip Pit Floor Change to D8
03a	Dozer	Place overburden/topsoil on pit floor Change to D8, 300 ft push, @ 0%
03b	Dozer	Place overburden/topsoil on slopes only Change to D8, 300 ft push, @ 0%



04a	Ripper	Cross rip slopes to control erosion Change to D8, ripper length 200 ft
05a	Reveg	Reveg 9.5 acres with 50% failure Increase job hrs, ~1 hr and ac
06a	Mob	Update equipment used
06b	Mob	Update equipment used

Per policy I wanted to send this out for review prior to issuance. Please look it over and let me know if there are errors or concerns. If no response is received by **Monday, January 1, 2024** then I'll issue SI-5 as is. SI-5 will result in a total required bond amount of \$167,108, which is an increase of \$73,843.62 over the \$93,264.38 currently held.

Sincerely,



**Amy Yeldell**  
Environmental Protection Specialist

Ec:  
Travis Marshall, Senior EPS, Grand Junction DRMS

## COST SUMMARY WORK

Task description: Post Inspection Update

Site: Sunny Side Gravel Pt

Permit Action: 2023

Permit/Job#: M1986160

### PROJECT IDENTIFICATION

Task #: ACY

State: Colorado

Abbreviation: None

Date: 11/17/2023

County: Mesa

Filename: M160-ACY

User: ACY

Agency or organization name: DRMS

### TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Grade Highwalls	DOZER	2	59.77	\$53,449
02a	Rip pit floor	RIPPER	2	4.20	\$3,761
03a	Place overburden/topsoil on pit floor	DOZER	2	28.46	\$24,210
03b	Place overburden/topsoil on graded slope	DOZER	2	18.45	\$15,693
04a	Cross rip to terrace slope	RIPPER	2	3.19	\$2,855
05a	Reveg disturbance	REVEGE	1	16.00	\$23,337
06a	Initial Mobilization of Reclamation Equipment	MOBILIZE	1	5.50	\$6,951
06b	Secondary Mobilization of Reclamation Equipment	MOBILIZE	1	5.50	\$2,316
<b><u>SUBTOTALS:</u></b>				<b>141.07</b>	<b>\$132,572</b>

### INDIRECT COSTS

#### OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$2,678
Performance bond:	1.05	Total =	\$1,392
Job superintendent:	40.00	Total =	\$2,603
Profit:	10.00	Total =	\$13,257
		TOTAL O & P =	\$19,930
		CONTRACT AMOUNT (direct + O & P) =	\$152,502

#### LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs):	\$500	Total =	\$500
Engineering work and/or contract/bid preparation:	4.25	Total =	\$6,481
Reclamation management and/or administration:	5.00		\$7,625

CONTINGENCY: 0.00 Total = \$0

TOTAL INDIRECT COST = \$34,537

**TOTAL BOND AMOUNT (direct + indirect) = \$167,109**

**BULLDOZER WORK**Task description: **Grade Highwalls**Site: **Sunny Side Gravel Pt** Permit Action: **2023** Permit/Job#: **M1986160****PROJECT IDENTIFICATION**

Task #: **01A** State: **Colorado** Abbreviation: **None**  
 Date: **11/17/2023** County: **Mesa** Filename: **M160-01a**  
 User: **ACY**

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

Basic Machine: **Cat D8T - 8SU**  
 Horsepower: **310**  
 Blade Type: **Semi-Universal**  
 Attachment: **1-shank ripper**  
 Shift Basis: **1 per day**  
 Data Source: **(CRG)**

**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$241.38	NA
Operating Cost/Hour:	\$143.92	100
Ripper own. Cost/Hour:	\$17.40	NA
Ripper op. Cost/Hour:	\$4.37	50
Operator Cost/Hour:	\$40.04	NA

Total unit Cost/Hour: **\$447.11**  
 Total Fleet Cost/Hour: **\$894.21**

**MATERIAL QUANTITIES**

Initial Volume: **36,667**  
 Swell factor: **1.180**  
 Loose volume: **43,267 LCY**

Source of estimated volume: **110'H x 300'W and 40'H x 600'W 1:1 to 3:1 cut fill**  
 Source of estimated swell factor: **Cat Handbook**

**HOURLY PRODUCTION**

Average push distance: **150 feet**  
 Unadjusted hourly production: **634.3 LCY/hr**

Materials consistency description: **Compacted fill or embankment 0.9**

Average push gradient: **-15 %**  
 Average site altitude: **5,800 feet**

Material weight: **2,400 lbs/LCY**Weight description: **Clay and gravel - Dry****Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	0.900	(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:	1.329	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.958	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.5706

Adjusted unit production: 361.93 LCY/hr

Adjusted fleet production: **723.86** LCY/hr

### **JOB TIME AND COST**

Fleet size: 2 Dozer(s)

Unit cost: \$1.235/LCY

Total job time: **59.77** Hours

Total job cost: **\$53,449**

## BULLDOZER RIPPING WORK

Task description: Rip pit floor

Site: Sunny Side Gravel Pt Permit Action: 2023 Permit/Job#: M1986160

### PROJECT IDENTIFICATION

Task #: 02A State: Colorado Abbreviation: None  
Date: 11/17/2023 County: Mesa Filename: M160-02a  
User: ACY

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>\$40.04</u>	<u>NA</u>
Total Unit Cost/Hour:	<u>\$446.90</u>	
Total Fleet Cost/Hour:	<u>\$893.79</u>	

### MATERIAL QUANTITIES

Selected estimating method: Area

#### Alternate Methods:

Seismic: NA Bank Volume: NA BCY NA  
Area: 5.40 acres Rip Depth (ft): 2.00 Volume: 17,424 BCY or CCY

Source of estimated quantity: Staff estimate of pit floor 5.4 ac

### 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>5,800</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>1.28</u>	<u>Acres/hr</u>

### JOB TIME AND COST

Fleet size: 2 Grader(s) Total job time: 4.21 Hours

Unit cost: \$696.428 Per acre Total job cost: \$3,761

**BULLDOZER WORK**Task description: Place overburden/topsoil on pit floorSite: Sunny Side Gravel PtPermit Action: 2023Permit/Job#: M1986160**PROJECT IDENTIFICATION**Task #: 03AState: ColoradoAbbreviation: NoneDate: 11/17/2023County: MesaFilename: M160-03aUser: ACYAgency 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	50
Operator Cost/Hour:	\$40.04	NA

Total unit Cost/Hour: \$425.34Total Fleet Cost/Hour: \$850.67**MATERIAL QUANTITIES**Initial Volume: 8,712Swell factor: 1.090Loose volume: 9,496 LCYSource of estimated volume: 5.4 ac 12" deepSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 300 feetUnadjusted hourly production: 291.4 LCY/hrMaterials consistency description: Consolidated stockpile 1.0Average push gradient: 0 %Average site altitude: 5,800 feetMaterial weight: 2,400 lbs/LCYWeight description: Clay and gravel - Dry**Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	1.000	(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:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.958	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.5725

Adjusted unit production: 166.83 LCY/hr

Adjusted fleet production: **333.66 LCY/hr**

### **JOB TIME AND COST**

Fleet size: 2 Dozer(s)

Unit cost: \$2.550/LCY

Total job time: **28.46 Hours**

Total job cost: **\$24,210**



**BULLDOZER WORK**Task description: Place overburden/topsoil on graded slopeSite: Sunny Side Gravel PtPermit Action: 2023Permit/Job#: M1986160**PROJECT IDENTIFICATION**Task #: 03BState: ColoradoAbbreviation: NoneDate: 11/17/2023County: MesaFilename: M160-03bUser: ACYAgency 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	50
Operator Cost/Hour:	\$40.04	NA

Total unit Cost/Hour: \$425.34Total Fleet Cost/Hour: **\$850.67****MATERIAL QUANTITIES**Initial Volume: 5,647Swell factor: 1.090Loose volume: **6,155 LCY**Source of estimated volume: 3.5 ac 12" deepSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 300 feetUnadjusted hourly production: 291.4 LCY/hrMaterials consistency description: Consolidated stockpile 1.0Average push gradient: 0 %Average site altitude: 5,800 feetMaterial weight: 2,400 lbs/LCYWeight description: Clay and gravel - Dry**Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	1.000	(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:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.958	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.5725

Adjusted unit production: 166.83 LCY/hr

Adjusted fleet production: **333.66 LCY/hr**

### **JOB TIME AND COST**

Fleet size: 2 Dozer(s)

Unit cost: \$2.550/LCY

Total job time: **18.45 Hours**

Total job cost: **\$15,693**

## BULLDOZER RIPPING WORK

Task description: Cross rip to terrace slope

Site: Sunny Side Gravel Pt Permit Action: 2023 Permit/Job#: M1986160

### PROJECT IDENTIFICATION

Task #: 04A State: Colorado Abbreviation: None  
Date: 11/17/2023 County: Mesa Filename: M160-04a  
User: ACY

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>\$40.04</u>	<u>NA</u>
Total Unit Cost/Hour:	<u>\$446.90</u>	
Total Fleet Cost/Hour:	<u>\$893.79</u>	

### MATERIAL QUANTITIES

Selected estimating method: Area

#### Alternate Methods:

Seismic: NA Bank Volume: NA BCY NA  
Area: 4.10 acres Rip Depth (ft): 1.00 Volume: 6,615 BCY or CCY

Source of estimated quantity: Staff estimate 4.1 ac of slopes

### 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>5,800</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: 0.64 Acres/hr  
Adjusted Hourly Fleet Production: 1.28 Acres/hr

### JOB TIME AND COST

Fleet size: 2 Grader(s) Total job time: 3.19 Hours

Unit cost: \$696.428 Per acre Total job cost: \$2,855

**REVEGETATION WORK**Task description: Reveg disturbanceSite: Sunny Side Gravel PtPermit Action: 2023Permit/Job#: M1986160**PROJECT IDENTIFICATION**Task #: 05AState: ColoradoAbbreviation: NoneDate: 11/17/2023County: MesaFilename: M160-05aUser: ACYAgency or organization name: DRMS**FERTILIZING****Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Ammonium nitrate, 33-0-0	60.00	pound	\$0.62	\$37.40
			<b>Total Fertilizer Materials Cost/Acre</b>	<b>\$37.40</b>

**Application**

Description	Cost /Acre
Tractor towed spreader (MEANS 32 01 90.13 0120)	\$41.82
<b>Total Fertilizer Application Cost/Acre</b>	<b>\$41.82</b>

**TILLING**

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$112.82
<b>Total Tilling Cost/Acre</b>	<b>\$112.82</b>

**SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Nespar	4.80	15.54	\$42.60
Crested Wheatgrass - Ephraim	5.00	22.96	\$21.63
Yellow Sweet Clover - Madrid	0.35	2.09	\$0.99
<b>Totals Seed Mix</b>	<b>10.15</b>	<b>40.58</b>	<b>\$65.21</b>

**Application**

Description	Cost /Acre
Drill Seeding (DRMS Survey Cost)	\$232.00

<b>Total Seed Application Cost/Acre</b>	<b>\$232.00</b>
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**MULCHING and MISCELLANEOUS****Materials**

<b>Description</b>	<b>Units / Acre</b>	<b>Unit</b>	<b>Cost / Unit</b>	<b>Cost /Acre</b>
Herbicide - 2,4D @ 1.0 pt/ac	1.00	ACRE	\$4.01	\$4.01
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$429.79	\$859.57
<b>Total Mulch Materials Cost/Acre</b>				<b>\$863.58</b>

**Application**

<b>Description</b>	<b>Cost /Acre</b>
Crimping, with tractor {DMG survey data}	\$74.46
Power mulcher (MEANS 32 91 13.16 0350)	\$147.67
Weed spray, truck, non-aquatic area, nox. [DMG]	\$62.72
<b>Total Mulch Application Cost/Acre</b>	<b>\$284.85</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: 9.5 Cost /Acre: \$1,637.68  
 Estimated Failure Rate: 50% Cost /Acre\*: \$1,637.68  
 \*Selected Replanting Work Items: FERTILIZING,TILLING,SEEDING,MU  
LCHING

Initial Job Cost: **\$15,557.96**  
 Reseeding Job Cost: **\$7,778.98**  
 Total Job Cost: **\$23,337**  
 Job Hours: **16.00**

**EQUIPMENT MOBILIZATION/DEMOBILIZATION**Task description: **Initial Mobilization of Reclamation Equipment**Site: **Sunny Side Gravel Pt**Permit Action: 2023Permit/Job#: M1986160**PROJECT IDENTIFICATION**Task #: 06AState: ColoradoAbbreviation: NoneDate: 11/17/2023County: MesaFilename: M160-06aUser: 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:**

<b>Available Rig Capacities</b>	<b>0-25 Tons</b>	<b>26-50 Tons</b>	<b>51+ Tons</b>
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	53.08	\$255.49	\$175.95	2	\$862.88	\$351.90	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$6.73	\$82.29	1	\$89.02	\$82.29	\$250.00
Power Mulcher (Bowie LD-90)	6.00	\$25.94	\$82.29	1	\$108.23	\$82.29	\$250.00

Subtotals: **\$1,060.13** **\$516.48** **\$750.00****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	\$92.68	1	\$92.68	\$92.68
Light Duty Pickup, 4x4, 3/4 T.	\$116.86	2	\$233.72	\$233.72

Subtotals: **\$326.40** **\$326.40**

**EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region:	GRAND JUNCTION, CO	
Total one-way travel distance:	<u>35.00</u>	miles
Average Travel Speed:	<u>40.00</u>	mph
Total Non-Roadable Mob/Demob Cost *	\$6,379.33	
** two round trips with haul rig:		
Total Roadable Mob/Demob Cost **	<u>\$571.20</u>	
** one round trip, no haul rig:		

**Transportation Cycle Time:**

	Non- Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>0.88</u>	<u>0.88</u>
Return Time (Hours):	<u>0.88</u>	<u>0.88</u>
Loading Time (Hours):	<u>0.50</u>	<u>NA</u>
Unloading Time (Hours):	<u>0.50</u>	<u>NA</u>
Subtotals:	<u>2.75</u>	<u>1.75</u>

**JOB TIME AND COST**

Total job time: 5.50 Hours

Total job cost: \$6,951

**EQUIPMENT MOBILIZATION/DEMOBILIZATION**Task description: **Secondary Mobilization of Reclamation Equipment**Site: **Sunny Side Gravel Pt**Permit Action: 2023Permit/Job#: M1986160**PROJECT IDENTIFICATION**Task #: 06BState: ColoradoAbbreviation: NoneDate: 11/17/2023County: MesaFilename: M160-06bUser: 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:**

<b>Available Rig Capacities</b>	<b>0-25 Tons</b>	<b>26-50 Tons</b>	<b>51+ Tons</b>
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
Drill/Broadcast Seeder with Tractor	25.00	\$6.73	\$82.29	1	\$89.02	\$82.29	\$250.00
Power Mulcher (Bowie LD-90)	6.00	\$25.94	\$82.29	1	\$108.23	\$82.29	\$250.00

Subtotals: **\$197.25** **\$164.58** **\$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	\$92.68	1	\$92.68	\$92.68
Light Duty Pickup, 4x4, 3/4 T.	\$72.29	1	\$72.29	\$72.29

Subtotals: **\$164.97** **\$164.97**



**EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region:	GRAND JUNCTION, CO	
Total one-way travel distance:	<u>35.00</u>	miles
Average Travel Speed:	<u>40.00</u>	mph
Total Non-Roadable Mob/Demob Cost *	\$2,027.70	
** two round trips with haul rig:		
Total Roadable Mob/Demob Cost **	<u>\$288.70</u>	
** one round trip, no haul rig:		

**Transportation Cycle Time:**

	Non- Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>0.88</u>	<u>0.88</u>
Return Time (Hours):	<u>0.88</u>	<u>0.88</u>
Loading Time (Hours):	<u>0.50</u>	<u>NA</u>
Unloading Time (Hours):	<u>0.50</u>	<u>NA</u>
Subtotals:	<u>2.75</u>	<u>1.75</u>

**JOB TIME AND COST**

Total job time: 5.50 Hours

Total job cost: \$2,316