



July 30, 2025

Jon Muller
Kilgore Companies LLC dba Elam Construction
7057 West 2100 South
Salt Lake City, UT 84128

RE: Orchard Grove Industrial Pit, Permit No. M-1990-094, Proposed Surety Increase

Dear Mr. Muller:

This reclamation cost update was in response to the site inspection conducted on July 16, 2025. 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 2019 with TR-2. Below is a table summarizing input values. Values that have been updated are noted in **Red**. 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.

Assumptions:

It states while mining a maximum of a 6 ac pond will be present. Additionally, backfill volume in the amount of 30,000 CY of imported inert fill will be on site for pond backfill. Final reclamation will consist of no pond on site. 16 ac of graveled area (south) and 18 ac (north) to be revegetated for final reclamation. Topsoil will be applied at a minimum of 3 inches over the 18 acres to be revegetated. Currently 1500 CY is available on site. The deficit will be imported (County only has compost not topsoil- alternative is 2" @ \$20 CY). Finally cottonwoods will be planted every 40 ft. along Redlands Pkwy (about 33 trees). With all Tamarisk and Russian Olive trees (noxious weeds) to be removed.

Task	Form Used	Description
01a	Demo	Remove task - Completed
02a	Truck Dozer	Backfill Pond – Grade stockpiles on site or excess fill to backfill ponds 9ac @ 5'D Max = 72600 CY w/ avg push of 200'



03a	Ripper	Rip 18 ac to be veg
04a	Truck	Haul imported topsoil – Do not have to pay for loading equipment, only trucking Purchase compost \$28.50 CY per website = \$167,608.50 Increased Dump Dozer utilization to 100%, all material needs to be graded.
05a	Reveg	Reveg 18 ac Removed scarification since already discing
05b	Reveg	Cottonwood planting Removed all other applications except trees
06a	Mob	Initial Mobilization Updated equipment used
06b	Mob	Secondary Mob
Indirect		Added required engineering and bid prep cost

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. As noted you may also wish to revise your reclamation plan. If no response is received by **Friday, August 15, 2025** then I'll issue the increase the following Monday as is. The surety increase will result in a total required bond amount of **\$643,339**, which is an increase of \$280,820 over the \$362,519 currently held.

Please feel free to contact me with any further questions. Amy Yeldell at the Division of Reclamation, Mining and Safety, Rm 215, 1001 E 62nd Ave, Denver CO 80216. Direct contact can be made by phone at 970-210-1272 or via email at amy.yeldell@ state.co.us

Sincerely,



Amy Yeldell
Environmental Protection Specialist

Ec:
Travis Marshall, Senior EPS, Grand Junction DRMS

COST SUMMARY WORK

Task description: Updated pos inspection and inflation 2019-2025

Site: Orchard Grove Industrial Pit

Permit Action: 2025

Permit/Job#: M1990094

PROJECT IDENTIFICATION

Task #: ACY

State: Colorado

Abbreviation: None

Date: 7/30/2025

County: Mesa

Filename: M094-ACY

User: ACY

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
02a	Backfill ponds to min of 2 ft above water	DOZER	3	248.79	\$245,937
03a	Rip 18 ac to be reveg	RIPPER	3	9.16	\$9,731
04a	Haul imported topsoil	TRUCK1	1	50.92	\$191,642
05a	Revegetation of 18 ac	REVEGE	1	24.00	\$52,167
05b	Cottonwood Planting	REVEGE	1	24.00	\$2,282
06a	Initial Mobilization to site	MOBILIZE	1	2.66	\$5,039
06b	Initial Mobilization to site	MOBILIZE	1	2.66	\$1,565
<u>SUBTOTALS:</u>				362.19	\$508,363

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$10,269
Performance bond:	1.05	Total =	\$5,338
Job superintendent:	181.09	Total =	\$13,605
Profit:	10.00	Total =	\$50,836
		TOTAL O & P =	\$80,048
		CONTRACT AMOUNT (direct + O & P) =	\$588,411

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs):	\$500	Total =	\$500
Engineering work and/or contract/bid preparation:	4.25	Total =	\$25,007
Reclamation management and/or administration:	5.00		\$29,421

CONTINGENCY: 0.00 Total = \$0

TOTAL INDIRECT COST = \$134,976

TOTAL BOND AMOUNT (direct + indirect) = \$643,339

BULLDOZER WORKTask description: **Backfill ponds to min of 2 ft above water**Site: **Orchard Grove Industrial Pit**Permit Action: 2025Permit/Job#: M1990094**PROJECT IDENTIFICATION**Task #: 02AState: ColoradoAbbreviation: NoneDate: 7/30/2025County: MesaFilename: M094-02aUser: 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:	\$179.60	NA
Operating Cost/Hour:	\$110.45	100
Ripper own. Cost/Hour:	\$0.00	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$39.46	NA

Total unit Cost/Hour: \$329.51Total Fleet Cost/Hour: **\$988.53****MATERIAL QUANTITIES**Initial Volume: 72,600Swell factor: 1.330Loose volume: **96,558 LCY**Source of estimated volume: Staff estimatesSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 200 feetUnadjusted hourly production: 491.9 LCY/hrMaterials consistency description: Consolidated stockpile 1.0Average push gradient: 15 %Average site altitude: 4,530 feetMaterial weight: 2,900 lbs/LCYWeight description: Decomposed rock - 50% Rock, 50% Earth**Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	0.750	(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:	0.800	(FND-RF)
Push gradient:	0.666	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.2630

Adjusted unit production: 129.37 LCY/hr

Adjusted fleet production: **388.11** LCY/hr

JOB TIME AND COST

Fleet size: 3 Dozer(s)

Unit cost: \$2.547/LCY

Total job time: **248.79** Hours

Total job cost: **\$245,937**

BULLDOZER RIPPING WORK

Task description: Rip 18 ac to be reveg

Site: Orchard Grove Industrial Pit

Permit Action: 2025

Permit/Job#: M1990094

PROJECT IDENTIFICATION

Task #: 03A

State: Colorado

Abbreviation: None

Date: 7/30/2025

County: Mesa

Filename: M094-03a

User: ACY

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Basic Machine: Cat D8T - 8SU
Ripper Attachment: 3-Shank Ripper

Horsepower: 310

Shift Basis: 1 per day

Data Source: (CRG)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	\$179.60	NA
Operating Cost/Hour:	\$110.45	100
Ripper Ownership Cost/Hour:	\$15.28	NA
Ripper Operating Cost/Hour:	\$9.14	100
Operator Cost/Hour:	\$39.46	NA
Total Unit Cost/Hour:	\$353.93	

Total Fleet Cost/Hour: \$1,061.79

MATERIAL QUANTITIES

Selected estimating method: Area

Alternate Methods:

Seismic: NA Bank Volume: NA BCY NA
Area: 18.00 acres Rip Depth (ft): 2.00 Volume: 58,080 BCY or CCY

Source of estimated quantity: Reclamation plan

HOURLY PRODUCTION

Seismic:

Seismic Velocity: NA feet/second

Area:

Average Ripping Depth: 2.56 feet/pass
Average Ripping Width: 7.08 feet/pass
Average Ripping Length: 250.00 feet/pass
Average Dozer Speed: 88.00 feet/minute
Average Maneuver Time: 0.25 minutes/pass
Production per unit area: 0.789 acres/hour

Job Condition Correction Factors

Unadjusted Hourly Unit Production: 0.789 Acres/hr

Site Altitude: 4,530 feet

Altitude Adj: 1.00 (CAT HB)

Job Efficiency: 0.83 (1 shift/day)

Net Correction: 0.83 multiplier

Adjusted Hourly Unit Production: 0.65 Acres/hr

Adjusted Hourly Fleet Production: 1.96 Acres/hr

JOB TIME AND COST

Fleet size: 3 Grader(s) Total job time: 9.16 Hours

Unit cost: \$540.616 Per acre Total job cost: \$9,731

TRUCK/LOADER TEAM WORKTask description: Haul imported topsoilSite: Orchard Grove Industrial PitPermit Action: 2025Permit/Job#: M1990094**PROJECT IDENTIFICATION**Task #: 04AState: ColoradoAbbreviation: NoneDate: 7/30/2025County: MesaFilename: M094-04aUser: ACYAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Shift basis: 1 per day

	Equipment Description
Truck Loader Team -Truck:	Generic 15-18 cy, 6x4
-Loader:	CAT 972H
Support Equipment -Load Area:	NA
-Dump Area:	Cat D8T - 8SU
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	0	NA	100	NA	NA
Ownership cost/hour:	\$34.35	\$65.96	NA	\$179.60	NA	NA
Operating cost/hour:	\$66.02	\$0.00	NA	\$110.45	NA	NA
%Utilization-ripper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	NA	\$0.00	NA	NA
Ripper op. cost/hour:	NA	\$0.00	NA	\$0.00	NA	NA
Operator cost/hour:	\$24.50	\$59.52	NA	\$39.46	NA	NA
Unit Subtotals:	\$124.87	\$125.48	NA	\$329.51	NA	NA
Number of Units:	8	1	0	1	0	0
Group Subtotals:	Work: \$1,124.44		Support: \$329.51		Maint: \$0.00	

Total work team cost/hour: \$1,453.95**MATERIAL QUANTITIES**Initial volume: 4,840

CCY

Swell factor: 1.215Loose volume: 5,881

LCY

Source of estimated volume: 2" Compost over 16 ac to make 3+ inch of topsoilSource of estimated swell factor: Cat HandbookMaterial Purchase Cost: \$20.00Total Cost: \$117,612.00**HOURLY PRODUCTION****Truck Capacity:**Truck Payload (weight) Basis:Material weight: 1,600

Pounds/LCY

Description: Top SoilRated Payload: 63,980

Pounds

Payload Capacity: 39.99

LCY

Truck Bed (volume) Basis:

Struck Volume:	15.00	LCY
Heaped Volume:	18.00	LCY
Average Volume:	16.50	LCY
Adjusted Volume:	18.00	LCY

Final Truck Volume Based on Number of Loader Passes: 12.32 LCY

Loading Tool Capacity

Bucket Size Class: NA

Rated Capacity:	5.600	LCY (heaped)
Bucket Fill Factor:	1.100	Other - rock/dirt mixtures (100-120%) 1.100
Adjusted Capacity:	6.160	LCY

Job Condition Corrections:

Site Altitude (ft.): 4530 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: 2 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): 0.525 minutes

Cycle Time Factors		Factor (min.)	Source
Material:	Mixed material 0.02	0.020	(Cat HB)
Stockpile:	Conveyor or dozer piled 10 ft. high and up 0.00	0.000	(Cat HB)
Truck Ownership:	Common ownership of trucks and loaders -0.04	-0.040	(Cat HB)
Operation:	Constant operation -0.04	-0.040	(Cat HB)
Dump Target:	Nominal target 0.00	0.000	(Cat HB)
Net Cycle Time Adjustment:		-0.060	minutes
Adjusted Loader Cycle Time:		0.465	minutes
Net Load Time per Truck:		0.565	minutes

Truck Cycle Time:

Truck Exchange Time:	0.50	Minutes	Adjusted for site altitude:	0.500	Minutes
Truck Load Time:	0.565	Minutes	Adjusted for site altitude:	0.565	Minutes
Truck Maneuver and Dump Time:	0.90	Minutes	Adjusted for site altitude:	0.900	Minutes

Truck Travel (Haul & Return) Time:
penetration 1.2

Road Condition: Very hard, smooth, asphalt or concrete, no tire

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	59664.00	0.00	1.20	1.20	2952	20.363

Haul Time: **20.363** minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	59664.00	0.00	1.20	1.20	2963	20.170

Return Time: **20.170** minutesTotal Truck Cycle Time: **42.498** minutes

Loading Tool unit

Production 694.08 LCY/Hour Adjusted for job efficiency: 576.09 LCY/Hour
Truck Unit Production 17.39 LCY/Hour Adjusted for job efficiency: 14.44 LCY/Hour

Optimal No. of Trucks: 40 Truck(s) Selected Number of Trucks: 8 Truck(s)

Adjusted hourly truck team production: 115.49 LCY/Hour
Adjusted single truck/loader team production: 115.49 LCY/Hour
Adjusted multiple truck/loader team production: **115.49** LCY/Hour

JOB TIME AND COSTFleet size: 1 Team(s) Total job time: **50.92** HoursUnit cost: \$12.589 /LCY Total job cost: **\$191,642**

REVEGETATION WORKTask description: Revegetation of 18 acSite: Orchard Grove Industrial PitPermit Action: 2025Permit/Job#: M1990094PROJECT IDENTIFICATIONTask #: 05AState: ColoradoAbbreviation: NoneDate: 7/30/2025County: MesaFilename: M094-05aUser: ACYAgency 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)	\$114.13
Total Tilling Cost/Acre	\$114.13

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Alkali Sacaton	0.60	23.42	\$17.87
Ryegrass, Annual/Gulf	10.00	43.62	\$13.66
Yellow Sweet Clover - Madrid	1.40	8.36	\$6.49
Tall Wheatgrass - Jose	11.00	19.95	\$64.74
Totals Seed Mix	23.00	95.34	\$102.75

Application

Description	Cost /Acre
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Drill Seeding (DRMS Survey Cost)	\$242.30
Total Seed Application Cost/Acre	\$242.30

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Hay, delivered	2.00	TON	\$504.56	\$1,009.12
Herbicide - 2,4D @ 1.0 pt/ac	1.00	ACRE	\$4.44	\$4.44
Total Mulch Materials Cost/Acre				\$1,013.56

Application

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$239.35
Power mulcher (MEANS 32 91 13.16 0350)	\$141.57
Weed spray, truck, non-aquatic area, nox. [DMG]	\$249.08
Total Mulch Application Cost/Acre	\$630.00

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:	<u>18</u>	Cost /Acre:	<u>\$2,102.74</u>
Estimated Failure Rate:	<u>40%</u>	Cost /Acre*:	<u>\$1,988.61</u>
*Selected Replanting Work Items:	<u>SEEDING,MULCHING</u>		
Initial Job Cost:	<u>\$37,849.32</u>		
Reseeding Job Cost:	<u>\$14,317.99</u>		
Total Job Cost:	<u>\$52,167</u>		
Job Hours:	24.00		

REVEGETATION WORKTask description: Cottonwood PlantingSite: Orchard Grove Industrial PitPermit Action: 2025Permit/Job#: M1990094**PROJECT IDENTIFICATION**Task #: 05B
Date: 7/30/2025
User: ACYState: Colorado
County: MesaAbbreviation: None
Filename: M094-05bAgency 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
	\$
Total Tilling Cost/Acre	\$0.00

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
			\$
Totals Seed Mix	0.00	0.00	\$0.00

Application

Description	Cost /Acre
	\$

Total Seed Application Cost/Acre	\$0.00
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MULCHING and MISCELLANEOUS**Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

Application

Description	Cost /Acre
	\$
Total Mulch Application Cost/Acre	\$0.00

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
Cottonwood, Plains	33	Container, 5 gallon (MEANS)	\$49.40	\$2.40	\$1,630.20
Totals Nursery Stock Cost / Acre					\$1,630.20

JOB TIME AND COST

No. of Acres:	<u>1</u>	Cost /Acre:	<u>\$1,630.20</u>
Estimated Failure Rate:	<u>40%</u>	Cost /Acre*:	<u>\$1,630.20</u>
*Selected Replanting Work Items:	<u>NURSERY</u>		

Initial Job Cost:	<u>\$1,630.20</u>
Reseeding Job Cost:	<u>\$652.08</u>
Total Job Cost:	<u>\$2,282</u>
Job Hours:	<u>24.00</u>

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Initial Mobilization to site**Site: **Orchard Grove Industrial Pit**Permit Action: **2025**Permit/Job#: **M1990094****PROJECT IDENTIFICATION**

Task #: **06A** State: **Colorado** Abbreviation: **None**
 Date: **7/30/2025** County: **Mesa** Filename: **M094-06a**
 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:	\$21.47	\$38.32	\$48.96
Operating Cost/Hour:	\$31.47	\$60.11	\$65.86
Operator Cost/Hour:	\$22.52	\$22.52	\$22.52
Helper Cost/Hour:	\$0.00	\$22.25	\$22.25
Total Unit Cost/Hour:	\$75.46	\$143.20	\$159.59

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	\$194.88	\$159.59	3	\$1,063.41	\$478.77	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$5.99	\$75.46	1	\$81.45	\$75.46	\$250.00
Power Mulcher (Bowie LD-90)	6.00	\$29.91	\$75.46	1	\$105.37	\$75.46	\$250.00

Subtotals: **\$1,250.23** **\$629.69** **\$750.00**

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Generic 15-18 cy, 6x4	\$124.87	8	\$998.96	\$998.96
Light Duty Pickup, 4x4, 1 T. Crew	\$141.71	1	\$141.71	\$141.71
Light Duty Pickup, 4x4, 3/4 T.	\$95.59	1	\$95.59	\$95.59

Subtotals: **\$1,236.26** **\$1,236.26**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	GRAND JUNCTION, CO	
Total one-way travel distance:	5.00	miles
Average Travel Speed:	30.00	mph
Total Non-Roadable Mob/Demob Cost *	\$4,627.10	
** two round trips with haul rig:		
Total Roadable Mob/Demob Cost **	\$412.09	
** one round trip, no haul rig:		

Transportation Cycle Time:

	Non- Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.17	0.17
Return Time (Hours):	0.17	0.17
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.33	0.33

JOB TIME AND COST

Total job time:	2.67	Hours
Total job cost:	\$5,039	

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Initial Mobilization to site**Site: **Orchard Grove Industrial Pit**Permit Action: **2025**Permit/Job#: **M1990094****PROJECT IDENTIFICATION**

Task #: **06B** State: **Colorado** Abbreviation: **None**
 Date: **7/30/2025** County: **Mesa** Filename: **M094-06b**
 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:	\$21.47	\$38.32	\$48.96
Operating Cost/Hour:	\$31.47	\$60.11	\$65.86
Operator Cost/Hour:	\$22.52	\$22.52	\$22.52
Helper Cost/Hour:	\$0.00	\$22.25	\$22.25
Total Unit Cost/Hour:	\$75.46	\$143.20	\$159.59

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	\$5.99	\$75.46	1	\$81.45	\$75.46	\$250.00
Power Mulcher (Bowie LD-90)	6.00	\$29.91	\$75.46	1	\$105.37	\$75.46	\$250.00
Subtotals:					\$186.82	\$150.92	\$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, 1 T. Crew	\$141.71	1	\$141.71	\$141.71
Light Duty Pickup, 4x4, 3/4 T.	\$95.59	1	\$95.59	\$95.59
Subtotals:			\$237.30	\$237.30

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	GRAND JUNCTION, CO	
Total one-way travel distance:	5.00	miles
Average Travel Speed:	30.00	mph
Total Non-Roadable Mob/Demob Cost *	\$1,486.22	
** two round trips with haul rig:		
Total Roadable Mob/Demob Cost **	\$79.10	
** one round trip, no haul rig:		

Transportation Cycle Time:

	Non- Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.17	0.17
Return Time (Hours):	0.17	0.17
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.33	0.33

JOB TIME AND COST

Total job time:	2.67	Hours
Total job cost:	\$1,565	