

February 12, 2018

Jason Burkey  
Oldcastle SW Group, Inc.  
dba United Companies of Mesa County  
2273 River Road  
Grand Junction, CO 81505



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

1313 Sherman Street, Room 215  
Denver, CO 80203

***RE: Craig Ranch Pit, Permit No. M-1986-002, Reclamation Costs Update and Notice of Surety Increase (SI-2)***

Dear Mr. Burkey:

In an effort to ensure the Financial Warranty for the above referenced site adequately reflects the actual current costs of fulfilling the requirements of the approved reclamation plan, the Colorado Division of Reclamation, Mining and Safety (Division) has updated the reclamation cost estimate (copy enclosed).

Division calculations estimate the cost to reclaim the above referenced site to be \$223,350.00 rounded down from \$233,350.42. This is an increase of \$15,007.20 over the \$218,342.80 currently held by the Division. This estimate is based on conditions observed during the January 25, 2018 inspection. ***Therefore, pursuant to Section 34-32.5-117(4) of the Colorado Land Reclamation Act, adequate Financial Warranty must be submitted to the Division within 60 days of the mailing date of this letter.*** The additional amount needs to be accepted prior to **Friday, April 13, 2018**. Please review the enclosed figures as soon as possible and contact our office if any calculation errors are noted.

Please make arrangements with Barbara Coria at the Division of Reclamation, Mining and Safety Denver Office, phone no. 303.866.3567, ext. 8148 for submittal of the financial warranty. Any questions regarding completion, execution and/or submittal of financial warranty forms should also be directed to Barbara Coria.

If you require additional information, or have questions or concerns, please feel free to contact me. Amy Yeldell at the Division of Reclamation, Mining and Safety, 1313 Sherman St., Room 215, Denver, CO 80203. Direct contact can be made by phone at 970-254-8511 or via email at amy.yeldell@state.co.us

Sincerely,

**Amy Yeldell**  
Environmental Protection Specialist  
Department of Natural Resources  
Division of Reclamation, Mining and Safety  
Phone: (970) 254-8511



Ec: Russ Means, Senior EPS, Grand Junction DRMS  
Enc: Financial Warranty Cost Estimate

## COST SUMMARY WORK

Task description: Update Bond Calc Post Inspection 01-25-2018

Site: Craig Ranch Pit

Permit Action: 2018-01

Permit/Job#: M1986002

### PROJECT IDENTIFICATION

Task #: ACY

State: Colorado

Abbreviation: None

Date: 2/6/2018

County: Mesa

Filename: M002-ACY

User: ACY

Agency or organization name: DRMS

### TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Removal of Scale	DEMOLISH	1	4.00	\$2,258.38
02a	Regrade near vertical side slopes to 3H:1V	DOZER	1	10.81	\$2,059.00
03a	Finish placement of overburden and wash fines	SCRAPER1	2	27.68	\$39,276.00
04a	Bring topsoil from stockpile, place topsoil on 30 acres	SCRAPER1	2	30.68	\$43,527.00
05a	Re vegetation of 30 acres	REVEGE	1	40.00	\$76,043.00
06a	Initial Mobilization	MOBILIZE	1	2.62	\$7,694.00
06b	Secondary Mobilization	MOBILIZE	1	2.62	\$1,535.00
<b><u>SUBTOTALS:</u></b>				<b>118.41</b>	<b>\$172,392</b>

### INDIRECT COSTS

#### OVERHEAD AND PROFIT:

Liability insurance: 2.02

Total = \$3,482.32

Performance bond: 1.05

Total = \$1,810.12

Job superintendent: 59.20

Total = \$4,324.56

Profit: 10.00

Total = \$17,239.20

TOTAL O & P = \$26,856.20

CONTRACT AMOUNT (direct + O & P) = \$199,248.20

#### LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): 500.00

Total = 500.00

Engineering work and/or contract/bid preparation: 4.25

Total = \$8,468.05

Reclamation management and/or administration: 5.00

\$9,962.41

CONTINGENCY: 3.00

Total = \$5,171.76

TOTAL INDIRECT COST = \$50,958.42

**TOTAL BOND AMOUNT (direct + indirect) = \$223,350.42**

## DEMOLITION WORK

Task description: Removal of Scale

Site: Craig Ranch Pit

Permit Action: 2018-01

Permit/Job#: M1986002

### PROJECT IDENTIFICATION

Task #: 01A

State: Colorado

Abbreviation: None

Date: 2/6/2018

County: Mesa

Filename: M002-01a

User: ACY

Agency or organization name: DRMS

### UNIT COSTS

Location adjustment: 95.50 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Scale Footing Removal	20' x 70'	Footing, concrete, average reinforcing - 1.5 ft. x 2 ft.	180.00	LF	\$3.54	\$637.20
Scale Removal	20' x 70'	Floor, concrete, demolition only, average reinforcing - 8 in. thick	1,400.00	SF	\$0.79	\$1,106.00
Dump Charges	56 CY	Dump fees - Building construction materials.	56.00	CY	\$11.10	\$621.60

Job Hours: 4.00

Subtotal  
(unadjusted): \$2,364.80

Total Cost  
(adjusted for location): \$2,258.38

**BULLDOZER WORK**Task description: **Regrade near vertical side slopes to 3H:1V**Site: **Craig Ranch Pit**Permit Action: 2018-01Permit/Job#: M1986002**PROJECT IDENTIFICATION**Task #: 02AState: ColoradoAbbreviation: NoneDate: 2/6/2018County: MesaFilename: M002-02aUser: 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:	\$83.81	NA
Operating Cost/Hour:	\$66.17	100
Ripper own. Cost/Hour:	\$0.00	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$40.52	NA

Total unit Cost/Hour: \$190.50Total Fleet Cost/Hour: **\$190.50****MATERIAL QUANTITIES**Initial Volume: 4,000Swell factor: 1.180Loose volume: **4,720 LCY**Source of estimated volume: Table L-1Source of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 75 feetUnadjusted hourly production: 1,017.1 LCY/hrMaterials consistency description: Compacted fill or embankment 0.9Average push gradient: 0 %Average site altitude: 4,700 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:	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:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.958	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4294

Adjusted unit production: 436.74 LCY/hr

Adjusted fleet production: **436.74** LCY/hr

### **JOB TIME AND COST**

Fleet size: 1 Dozer(s)

Unit cost: \$0.436/LCY

Total job time: **10.81** Hours

Total job cost: **\$2,059**

**SCRAPER TEAM WORK**Task description: **Finish placement of overburden and wash fines**Site: **Craig Ranch Pit**Permit Action: 2018-01Permit/Job#: M1986002**PROJECT IDENTIFICATION**Task #: 03AState: ColoradoAbbreviation: NoneDate: 2/6/2018County: MesaFilename: M002-03aUser: ACYAgency or organization name: DRMS**HOURLY EQUIPMENT**COSTShift basis: 1 per day

	Equipment Description
-Scraper:	Cat 627G w/push-pull
-Dozer:	Cat D8T - 8SU
Support Equipment -Load Area:	NA
-Dump Area:	Cat D8T - 8SU
Road Maintenance -Motor Grader:	NA
-Water Truck:	NA

**Cost Breakdown:**

	Scraper Work Team		Support Equipment		Maintenance Equipment	
	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	100	NA	100	NA	NA
Ownership cost/hour:	\$99.75	\$83.81	NA	\$83.81	NA	NA
Operating cost/hour:	\$118.23	\$66.17	NA	\$66.17	NA	NA
%Utilization-ripper:	NA	NA	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:	\$41.46	\$40.52	NA	\$40.52	NA	NA
Unit Subtotals:	\$259.44	\$190.50	NA	\$190.50	NA	NA
Number of Units:	4	1	0	1	0	0
Group Subtotals:	Work:	\$1,228.26	Support:	\$190.50	Maint:	\$0.00

Total work team cost/hour: **\$1,418.76****MATERIAL QUANTITIES**Initial volume: 35,000

CCY

Swell factor: 1.000Loose volume: **35,000**

LCY

Source of estimated volume: Table L-1Source of estimated swell factor: Cat Handbook**HOURLY PRODUCTION****Scraper Bowl (volume) Basis:**

Material weight:	<u>2,700 lbs/LCY</u>	Struck Volume:	<u>15.70</u>	LCY
Material description:	<u>Sand and clay - Loose</u>	Heaped Volume:	<u>22.00</u>	LCY
Rated Payload:	<u>52,800 pounds</u>	Average Volume:	<u>18.85</u>	LCY
Payload Capacity:	<u>19.56 LCY</u>	Adjusted Capacity:	<b><u>18.85</u></b>	LCY

Cycle Time:Scraper Loading Time: 0.90 MinutesManeuver and Spread Time: 0.60 MinutesJob Condition Correction:

Site Altitude: 4700 feet

	Scraper	Push Dozer	Source
Altitude Adj:	1.000	1.000	(CAT HB)
Job Efficiency:	0.830	0.830	(CAT HB)
Net Correction:	0.830	0.830	

Travel Time:Road Condition: Firm, smooth, rolling, dirt/lt. surfaced, watered, maintained 3.0Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1250.00	5.00	3.00	8.00	1381	0.97

Haul Time: 0.97 minutesReturn Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1250.00	-5.00	3.00	-2.00	2938	0.50

Return Time: 0.50 minutesTotal Scraper team cycle time: 2.97 minutesAdjusted for job conditions: 632.14 LCY/HourSelected Number of Scrapers: 2 Scraper(s)Adjusted single scraper team (unit) hourly production: 632.14 LCY/HourAdjusted multiple scraper team (fleet) hourly production: 1,264.28 LCY/HourUnadjusted unit production/hour: 761.62 LCY/Hour

Optimal Number of Scrapers per push dozer: \_\_\_\_\_

**JOB TIME AND COST**Fleet size: 2 Team(s)Total job time: 27.68 HoursUnit cost: \$1.122 /LCYTotal job cost: \$39,276



**SCRAPER TEAM WORK**Task description: **Bring topsoil from stockpile, place topsoil on 30 acres**Site: **Craig Ranch Pit**Permit Action: 2018-01Permit/Job#: M1986002**PROJECT IDENTIFICATION**Task #: 04AState: ColoradoAbbreviation: NoneDate: 2/6/2018County: MesaFilename: M002-04aUser: ACYAgency or organization name: DRMS**HOURLY EQUIPMENT**COSTShift basis: 1 per day

	Equipment Description
-Scraper:	Cat 627G w/push-pull
-Dozer:	Cat D8T - 8SU
Support Equipment -Load Area:	NA
-Dump Area:	Cat D8T - 8SU
Road Maintenance -Motor Grader:	NA
-Water Truck:	NA

**Cost Breakdown:****Scraper Work Team****Support Equipment****Maintenance Equipment**

	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	100	NA	100	NA	NA
Ownership cost/hour:	\$99.75	\$83.81	NA	\$83.81	NA	NA
Operating cost/hour:	\$118.23	\$66.17	NA	\$66.17	NA	NA
%Utilization-ripper:	NA	NA	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:	\$41.46	\$40.52	NA	\$40.52	NA	NA
Unit Subtotals:	\$259.44	\$190.50	NA	\$190.50	NA	NA
Number of Units:	4	1	0	1	0	0
Group Subtotals:	Work:	\$1,228.26	Support:	\$190.50	Maint:	\$0.00

Total work team cost/hour: **\$1,418.76****MATERIAL QUANTITIES**Initial volume: 36,000

CCY

Swell factor: 1.000Loose volume: **36,000**

LCY

Source of estimated volume: Table L-1 Reclamation task and Cost EstimateSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION****Scraper Bowl (volume) Basis:**

Material weight:	<u>1,600 lbs/LCY</u>	Struck Volume:	<u>15.70</u>	LCY
Material description:	<u>Top Soil</u>	Heaped Volume:	<u>22.00</u>	LCY
Rated Payload:	<u>52,800 pounds</u>	Average Volume:	<u>18.85</u>	LCY
Payload Capacity:	<u>33.00 LCY</u>	Adjusted Capacity:	<b><u>18.85</u></b>	LCY

Cycle Time:Scraper Loading Time: 0.90 MinutesManeuver and Spread Time: 0.60 MinutesJob Condition Correction:

Site Altitude: 4700 feet

	Scraper	Push Dozer	Source
Altitude Adj:	1.000	1.000	(CAT HB)
Job Efficiency:	0.830	0.830	(CAT HB)
Net Correction:	0.830	0.830	

Travel Time:Road Condition: Firm, smooth, rolling, dirt/lt. surfaced, watered, maintained 3.0Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1500.00	5.00	3.00	8.00	1381	1.13

Haul Time: 1.13 minutesReturn Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1500.00	-5.00	3.00	-2.00	2938	0.57

Return Time: 0.57 minutesTotal Scraper team cycle time: 3.20 minutesAdjusted for job conditions: 586.71 LCY/HourSelected Number of Scrapers: 2 Scraper(s)Adjusted single scraper team (unit) hourly production: 586.71 LCY/HourAdjusted multiple scraper team (fleet) hourly production: 1,173.41 LCY/HourUnadjusted unit production/hour: 706.88 LCY/Hour

Optimal Number of Scrapers per push dozer: \_\_\_\_\_

**JOB TIME AND COST**Fleet size: 2 Team(s)Total job time: 30.68 HoursUnit cost: \$1.209 /LCYTotal job cost: \$43,527

**REVEGETATION WORK**Task description: Revegetation of 30 acresSite: Craig Ranch PitPermit Action: 2018-01Permit/Job#: M1986002**PROJECT IDENTIFICATION**Task #: 05AState: ColoradoAbbreviation: NoneDate: 2/6/2018County: MesaFilename: M002-05aUser: ACYAgency or organization name: DRMS**FERTILIZING****Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			<b>Total Fertilizer Materials Cost/Acre</b>	<b>\$0.00</b>

**Application**

Description	Cost /Acre
	\$
<b>Total Fertilizer Application Cost/Acre</b>	<b>\$0.00</b>

**TILLING**

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$106.29
<b>Total Tilling Cost/Acre</b>	<b>\$106.29</b>

**SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Sand Dropseed	6.30	752.07	\$68.29
Sandberg Bluegrass - VNS	5.00	106.18	\$40.30
Galleta	6.30	23.00	\$155.61
Triticale	10.00	5.74	\$4.50
Saltbush, Four Wing	0.60	0.83	\$7.50
Globemallow, Scarlet (or copper)	1.30	14.72	\$176.15
Winter Fat	3.80	9.68	\$77.90
Yarrow, Western	1.30	79.03	\$54.34
Kochia, Forage (Prostrate)	0.60	84.27	\$5.39

<b>Totals Seed Mix</b>	35.20	1,075.51	<b>\$589.98</b>
------------------------	-------	----------	-----------------

## Application

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

## MULCHING and MISCELLANEOUS

## Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - 2,4D @ 1.0 pt/ac	1.00	ACRE	\$2.74	\$2.74
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$261.00	\$522.00
<b>Total Mulch Materials Cost/Acre</b>				<b>\$524.74</b>

## Application

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$66.02
Power mulcher (MEANS 32 91 13.16 0350)	\$99.32
Weed spray, truck, non-aquatic area, nox. [DMG]	\$71.50
<b>Total Mulch Application Cost/Acre</b>	<b>\$236.84</b>

## 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:	30	Cost /Acre:	\$1,689.85
Estimated Failure Rate:	50%	Cost /Acre*:	\$1,689.85
*Selected Replanting Work Items:	TILLING,SEEDING,MULCHING		
Initial Job Cost:	<b>\$50,695.50</b>		
Reseeding Job Cost:	<b>\$25,347.75</b>		
Total Job Cost:	<b>\$76,043</b>		
Job Hours:	<b>40.00</b>		

**EQUIPMENT MOBILIZATION/DEMOBILIZATION**Task description: **Initial Mobilization**Site: **Whitewater Quarry**Permit Action: **2018-01**Permit/Job#: **M1986002****PROJECT IDENTIFICATION**Task #: **06A**State: **Colorado**Abbreviation: **None**Date: **2/6/2018**County: **Mesa**Filename: **M002-06a**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:**

<b>Available Rig Capacities</b>	<b>0-25 Tons</b>	<b>26-50 Tons</b>	<b>51+ Tons</b>
Ownership Cost/Hour:	\$16.63	\$18.37	\$22.33
Operating Cost/Hour:	\$44.38	\$46.13	\$50.07
Operator Cost/Hour:	\$27.66	\$27.66	\$27.66
Helper Cost/Hour:	\$0.00	\$25.39	\$25.39
Total Unit Cost/Hour:	\$88.67	\$117.55	\$125.45

**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	47.71	\$83.81	\$117.55	2	\$402.72	\$235.10	\$500.00
Cat 627G w/push-pull	43.48	\$99.75	\$117.55	4	\$869.20	\$470.20	\$1,000.00
Drill/Broadcast Seeder with Tractor	25.00	\$12.22	\$88.67	1	\$100.89	\$88.67	\$250.00
Power Mulcher (Bowie LD-90)	6.00	\$7.03	\$88.67	1	\$95.70	\$88.67	\$250.00

Subtotals: **\$1,468.51** **\$882.64** **\$2,000.00****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.	\$40.79	2	\$81.58	\$81.58

Subtotals: **\$81.58** **\$81.58**

**EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region:	<u>GRAND JUNCTION</u>	
Total one-way travel distance:	<u>7.00</u>	miles
Average Travel Speed:	<u>45.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$7,668.49</u>
'* two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	<u>\$25.38</u>
** one round trip, no haul rig:	

**Transportation Cycle Time:**

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>0.16</u>	<u>0.16</u>
Return Time (Hours):	<u>0.16</u>	<u>0.16</u>
Loading Time (Hours):	<u>0.50</u>	<u>NA</u>
Unloading Time (Hours):	<u>0.50</u>	<u>NA</u>
Subtotals:	<u>1.31</u>	<u>0.31</u>

**JOB TIME AND COST**

Total job time:	<u>2.62</u>	Hours
-----------------	-------------	-------

Total job cost:	<u>\$7,694</u>
-----------------	----------------

**EQUIPMENT MOBILIZATION/DEMOBILIZATION**Task description: **Secondary Mobilization**Site: **Whitewater Quarry**Permit Action: **2018-01**Permit/Job#: **M1986002****PROJECT IDENTIFICATION**Task #: **06B**State: **Colorado**Abbreviation: **None**Date: **2/6/2018**County: **Mesa**Filename: **M002-06b**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:**

<b>Available Rig Capacities</b>	<b>0-25 Tons</b>	<b>26-50 Tons</b>	<b>51+ Tons</b>
Ownership Cost/Hour:	\$16.63	\$18.37	\$22.33
Operating Cost/Hour:	\$44.38	\$46.13	\$50.07
Operator Cost/Hour:	\$27.66	\$27.66	\$27.66
Helper Cost/Hour:	\$0.00	\$25.39	\$25.39
Total Unit Cost/Hour:	\$88.67	\$117.55	\$125.45

**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	\$12.22	\$88.67	1	\$100.89	\$88.67	\$250.00
Power Mulcher (Bowie LD-90)	6.00	\$7.03	\$88.67	1	\$95.70	\$88.67	\$250.00
Subtotals:					<b>\$196.59</b>	<b>\$177.34</b>	<b>\$500.00</b>

**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.	\$40.79	2	\$81.58	\$81.58
Subtotals:			<b>\$81.58</b>	<b>\$81.58</b>

**EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region:	<u>GRAND JUNCTION</u>	
Total one-way travel distance:	<u>7.00</u>	miles
Average Travel Speed:	<u>45.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$1,509.51</u>
** two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	<u>\$25.38</u>
** one round trip, no haul rig:	

**Transportation Cycle Time:**

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.16	0.16
Return Time (Hours):	0.16	0.16
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.31	0.31

**JOB TIME AND COST**

Total job time: 2.62 Hours

Total job cost: \$1,535