

# STATE OF COLORADO

DIVISION OF RECLAMATION, MINING AND SAFETY  
Department of Natural Resources

1313 Sherman St., Room 215  
Denver, Colorado 80203  
Phone: (303) 866-3567  
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March 22, 2013

Jason Burkey  
Oldcastle SW Group, Inc.  
P.O. Box 3609  
Grand Junction, CO  
81506

John W. Hickenlooper  
Governor

Mike King  
Executive Director

Loretta Piñeda  
Director

**RE: Anderson Pit, Permit No. M-2005-021, Reclamation Costs Update and Notice of Surety Increase SI-1**

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). *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, March 22, 2013**. Please review the enclosed figures as soon as possible and contact our office if any calculation errors are noted.

Staff calculations estimate the cost to reclaim the above referenced site to be \$230,100.00. This is an increase of \$64,847.00 over the \$165,253.00 currently held by the Division. This estimate is based on conditions observed during the March 20, 2013 inspection.

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, have questions or concerns, please contact me at the DRMS Grand Junction Field Office.

Sincerely,



*Dustin Chapla*

Environmental Protection Specialist  
Department of Natural Resources  
Division of Reclamation, Mining and Safety  
101 South 3<sup>rd</sup>, Suite 301  
Grand Junction, CO 81501  
Phone: (970) 243-6299  
Fax: (970) 241-1516

Enc: Financial Warranty Cost Estimate

## COST SUMMARY WORK

Task description: Review adequacy of financial warranty based on conditions observed during March 20, 2013 inspection.

Site: Anderson Pit

Permit Action: 2013-03-20

Inspection

Permit/Job#: M2005021

### PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 3/22/2013

County: Delta

Filename: M021-000

User: DMC

Agency or organization name: DRMS

### TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Demolition and disposal of structures	DEMOLISH	1	40.00	\$96,244.77
02a	Dewater current pit	PUMPING	1	105.64	\$6,780.00
03a	Cut slopes to 3H:1V / rough finish grading	DOZER	1	30.68	\$6,079.81
04a	Rip compacted areas prior to topsoil replacement	RIPPER	1	30.32	\$6,399.00
05a	Replace topsoil over stripped areas	DOZER	1	70.54	\$13,977.64
06a	Revegetate disturbed area	REVEGE	1	35.00	\$51,599.63
06b	Vegetate wetland perimeter	REVEGE	1	1.00	\$1,338.74
07a	Mobilize reclamation crew and equipment	MOBILIZE	1	2.80	\$2,685.97
<b><u>SUBTOTALS:</u></b>				<b>315.98</b>	<b>\$185,105.56</b>

### INDIRECT COSTS

#### OVERHEAD AND PROFIT:

Liability insurance: 2.02%

Total = \$3,739.13

Performance bond: 1.05%

Total = \$1,943.61

Job superintendent: 142.89 hrs

Total = \$9,346.43

Profit: 10.00%

Total = \$18,510.56

TOTAL O & P = \$33,539.73

CONTRACT AMOUNT (direct + O & P) = \$218,645.29

#### LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): 500.00

Total = 500.00

Engineering work and/or contract/bid preparation: 0.00%

Total = \$0.00

Reclamation management and/or administration: 5.00%

\$10,932.26

CONTINGENCY: 0.00

Total = \$0.00

TOTAL INDIRECT COST = \$44,971.99

**TOTAL BOND AMOUNT (direct + indirect) = \$230,100.00**

## DEMOLITION WORK

Task description: Demolition and disposal of structures

Site: Anderson Pit

Permit Action: 2013-03-20 Inspection

Permit/Job#: M2005021

### PROJECT IDENTIFICATION

Task #: 01A

State: Colorado

Abbreviation: None

Date: 3/22/2013

County: Delta

Filename: M021-01a

User: DMC

Agency or organization name: DRMS

### UNIT COSTS

Location adjustment: 98.20 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Concrete plant slab	60' x 90' x 6"	Demo. and on-site disposal in excavated pit, 6 in. thick - Max. 200 ft. push	5,400.00	SF	\$1.70	\$9,169.20
Concrete plant building stemwall	1' x 1' x 304'	Demo. and on-site disposal in excavated pit, 1.0 ft. x 2 ft. - Max. 200 ft. push	304.00	LF	\$6.79	\$2,064.46
Concrete plant foundation pads	5 @ 10' x 1.5' x 4'	Demo. and on-site disposal in excavated pit, 12 in. thick - Max. 200 ft. push	200.00	SF	\$3.40	\$679.20
Truck scale foundation	700 s.f.	Demo. and on-site disposal in excavated pit, 8 in. thick - Max. 200 ft. push	700.00	SF	\$2.26	\$1,584.80
Fuel storage slab	24' x 36'	Demo. and on-site disposal in excavated pit, 6 in. thick - Max. 200 ft. push	864.00	SF	\$1.70	\$1,467.07
Concrete plant building, machinery in half of bldg	(60' x 90' x 25').5	Bldg. (MN) demo./off-site disposal in approved landfill - Max. 5 mile haul	67,500.00	CF	\$1.05	\$70,605.00
Concrete plant feeder conveyor	50'	Conveyor, elevated, including supports - 5 ft. W x 6 ft. H housing	50.00	LF	\$43.17	\$2,158.50
Section of sediment pond discharge pipe	20" diameter x 85'	Pipe, sewer/water - 21 to 24 in. diameter pipe	85.00	LF	\$9.42	\$800.70
Disposal fees for steel	1000 c.y.	Loading and 5 mile haul, salvage allowed - Steel frame structures	1,000.00	CY	\$9.48	\$9,480.00

Job Hours: 40.00

Subtotal  
(unadjusted): \$98,008.93

Total Cost  
(adjusted for location): \$96,244.77

## PUMPING WORK

Task description: Dewater current pitSite: Anderson PitPermit Action: 2013-03-20 InspectionPermit/Job#: M2005021

### PROJECT IDENTIFICATION

Task #: 02AState: ColoradoAbbreviation: NoneDate: 3/22/2013County: DeltaFilename: M021-02aUser: DMCAgency or organization name: DRMS

### HOURLY EQUIPMENT COST

	Description	Quantity
Make and Model:	Centrifugal pump - 200M, 10 in.	1
Attachment 1:	Suction pipe - 10 in. diam., 25 ft.	1
Attachment 2:	Discharge pipe - 10 in. D., 25 ft.	12
Labor Unit 1:	Pump operator (same as 1st)	1

Horsepower: 70Shift Basis: 1 per dayWeight: 1.95

(US Tons)

#### Cost Breakdown:

	Utilization %
Ownership Cost/Hour: <u>\$20.67</u>	<u>NA</u>
Operating Cost/Hour: <u>\$20.57</u>	<u>100</u>
Operator Cost/Hour: <u>\$22.94</u>	<u>NA</u>
Total Unit Cost/Hour: <u>\$64.18</u>	

Total Fleet Cost/Hour: \$64.18

### PUMPING QUANTITIES

Initial Pond Volume: <u>100.00</u>		Conversion factor: <u>325850.5800</u>
Final Pond Volume: <u>32,585,058.00</u>	gallons	
Total Pond Inflow Surface Area: <u>10,000</u>	Sq. ft.	Unit inflow rate in gph/sq. ft.: <u>0.3516</u>
Total Pond Inflow Volume per Hour: <u>3,516.00</u>	gallons	

Source of estimated volume: Maps

### PUMPING TIME

Maximum Pump Capacity:	<u>200,000</u>	gph/pump
Estimated Suction Head:	<u>15</u>	feet
Estimated Discharge Head:	<u>15</u>	feet
Total Head:	<u>30</u>	feet
CPB Pump Capacity:	<u>168,000</u>	gph/pump
Site Altitude:	<u>5,000</u>	feet
Adjusted Pumping Capacity:	<u>168,000</u>	gph
Initial Unadjusted Pumping Time:	<u>193.96</u>	hours
Inflow during Initial Pumping:	<u>681,959</u>	gallons
Net Unadjusted Pumping Time:	<u>198.02</u>	Hours
Altitude Adjustment Factor:	<u>0.9700</u>	(3% rule)
Pump Efficiency Factor:	<u>0.9167</u>	(55 min./hr.)
Total Adjusted Pumping Time:	<u>176.08</u>	hours

### JOB TIME AND COST

Total job time: 176.08 HoursUnit cost: \$0.000340 /GallonTotal job cost: \$11,301.00

**BULLDOZER WORK**Task description: Cut slopes to 3H:1V and remaining site gradingSite: Anderson PitPermit Action: 2013-03-20 InspectionPermit/Job#: M2005021**PROJECT IDENTIFICATION**Task #: 03A  
Date: 3/22/2013  
User: DMCState: Colorado  
County: DeltaAbbreviation: None  
Filename: M021-03aAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D8T - 8U  
Horsepower: 310  
Blade Type: Universal  
Attachment: NA  
Shift Basis: 1 per day  
Data Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$56.69	NA
Operating Cost/Hour:	\$104.06	100
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$37.41	NA

Total unit Cost/Hour: \$198.16Total Fleet Cost/Hour: \$198.16**MATERIAL QUANTITIES**Initial Volume: 15,000  
Swell factor: 1.000  
Loose volume: 15,000 LCYSource of estimated volume: Division of Reclamation, Mining & SafetySource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 100 feet  
Unadjusted hourly production: 931.6 LCY/hrMaterials consistency description: Partly consolidated stockpile 1.1Average push gradient: 0 %  
Average site altitude: 5,000 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:	1.100	(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: 0.5248

Adjusted unit production: 488.90 LCY/hr

Adjusted fleet production: **488.9** LCY/hr

### **JOB TIME AND COST**

Fleet size: 1 Dozer(s)

Unit cost: \$0.405/LCY

Total job time: **30.68** Hours

Total job cost: **\$6,079.81**

## BULLDOZER RIPPING WORK

Task description: Rip compacted areas prior to topsoil replacement

Site: Anderson Pit

Permit Action: 2013-03-20 Inspection

Permit/Job#: M2005021

### PROJECT IDENTIFICATION

Task #: 04A

State: Colorado

Abbreviation: None

Date: 3/22/2013

County: Delta

Filename: M021-04a

User: DMC

Agency or organization name: DRMS

### HOURLY EQUIPMENT COST

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

Horsepower: 310  
Shift Basis: 1 per day  
Data Source: (CRG)

#### Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	\$63.00	NA
Operating Cost/Hour:	\$104.06	100
Ripper Operating Cost/Hour:	\$6.53	100
Operator Cost/Hour:	\$37.41	NA
Total Unit Cost/Hour:	\$211.01	
Total Fleet Cost/Hour:	\$211.01	

### MATERIAL QUANTITIES

Selected estimating method: Area

#### Alternate Methods:

Seismic: NA Bank Volume: NA BCY NA  
Area: 15.00 acres Rip Depth (ft): 2.00 Volume: 48,400 BCY or CCY

Source of estimated quantity: Inspection observations

### HOURLY PRODUCTION

#### Seismic:

Seismic Velocity: NA feet/second

#### Area:

Average Ripping Depth: 2.00 mph  
Average Ripping Width: 7.08 degrees  
Average Ripping Length: 50.00 feet  
Average Dozer Speed: 88.00 feet  
Average Maneuver Time: 0.25 feet  
Production per unit area: 0.596 acres/hour

#### Job Condition Correction Factors

Unadjusted Hourly Unit Production: 0.596 Acres/hr  
Site Altitude: 5,000 feet  
Altitude Adj: 1.00 (CAT HB)  
Job Efficiency: 0.83 (1 shift/day)  
Net Correction: 0.83 multiplier

Adjusted Hourly Unit Production: 0.49 Acres/hr  
Adjusted Hourly Fleet Production: 0.49 Acres/hr

### JOB TIME AND COST

Fleet size: 1 Grader(s) Total job time: 30.32 Hours

Unit cost: \$426.588 Per acre Total job cost: \$6,399.00

BULLDOZER WORKTask description: Replace topsoil over stripped areasSite: Anderson PitPermit Action: 2013-03-20 InspectionPermit/Job#: M2005021PROJECT IDENTIFICATIONTask #: 05AState: ColoradoAbbreviation: NoneDate: 3/22/2013County: DeltaFilename: M021-05aUser: DMCAgency or organization name: DRMSHOURLY EQUIPMENT COSTBasic Machine: Cat D8T - 8UHorsepower: 310Blade Type: UniversalAttachment: NAShift Basis: 1 per dayData Source: (CRG)Cost Breakdown:

		<u>Utilization %</u>
Ownership Cost/Hour:	\$56.69	NA
Operating Cost/Hour:	\$104.06	100
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$37.41	NA

Total unit Cost/Hour: \$198.16Total Fleet Cost/Hour: \$198.16MATERIAL QUANTITIESInitial Volume: 56,466Swell factor: 1.000Loose volume: 56,466 LCYSource of estimated volume: 35 ac. @ 12" depthSource of estimated swell factor: Cat HandbookHOURLY PRODUCTIONAverage push distance: 100 feetUnadjusted hourly production: 931.6 LCY/hrMaterials consistency description: Loose stockpile 1.2Average push gradient: 0 %Average site altitude: 5,000 feetMaterial weight: 1,600 lbs/LCYWeight description: Top SoilJob 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:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.8593

Adjusted unit production: 800.52 LCY/hr

Adjusted fleet production: 800.52 LCY/hr

### **JOB TIME AND COST**

Fleet size: 1 Dozer(s)

Unit cost: \$0.248/LCY

Total job time: 70.54 Hours

Total job cost: \$13,977.64

**REVEGETATION WORK**Task description: Revegetate disturbed areaSite: Anderson PitPermit Action: 2013-03-20 InspectionPermit/Job#: M2005021**PROJECT IDENTIFICATION**Task #: 06AState: ColoradoAbbreviation: NoneDate: 3/22/2013County: DeltaFilename: M021-06aUser: DMCAgency or organization name: DRMS**FERTILIZING****Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
10-34-0, 18-46-0, 5-10-5	200.00	pound	\$0.33	\$65.40
<b>Total Fertilizer Materials Cost/Acre</b>				<b>\$65.40</b>

**Application**

Description	Cost /Acre
Tractor towed spreader (MEANS 32 01 90.13 0120)	\$52.71
<b>Total Fertilizer Application Cost/Acre</b>	<b>\$52.71</b>

**TILLING**

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$98.01
Weed control spraying (MEANS 31 31 16.13 3100)	\$145.20
<b>Total Tilling Cost/Acre</b>	<b>\$243.21</b>

**SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Crested Wheatgrass - Fairway	1.50	6.89	\$3.63
Yellow Sweet Clover - Madrid	1.50	8.95	\$3.83
Streambank Wheatgrass - Sodar	3.00	9.78	\$12.63
Thickspike Wheatgrass - Critana	3.00	10.61	\$15.51
Rabbitbrush, Rubber	0.25	3.72	\$9.15
Saltbush, Four Wing	0.25	0.34	\$2.68
Sumac, Skunkbrush	0.25	0.12	\$8.86
<b>Totals Seed Mix</b>	<b>9.75</b>	<b>40.41</b>	<b>\$56.28</b>

**Application**

Description	Cost /Acre
Drill seeding (DRMS Cost Data)	\$88.20
<b>Total Seed Application Cost/Acre</b>	<b>\$88.20</b>

**MULCHING and MISCELLANEOUS****Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - Curtail @ 4.0 pt/ac	1.00	ACRE	\$16.24	\$16.24
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$265.00	\$530.00
<b>Total Mulch Materials Cost/Acre</b>				<b>\$546.24</b>

**Application**

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$65.89
Weed spray, truck, aquatic area, nox. [DMG]	\$61.49
<b>Total Mulch Application Cost/Acre</b>	<b>\$127.38</b>

**NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
<b>Totals Nursery Stock Cost / Acre</b>					<b>\$0.00</b>

**JOB TIME AND COST**

No. of Acres:	35	Cost /Acre:	\$1,179.42
Estimated Failure Rate:	25%	Cost /Acre*:	\$1,179.42
*Selected Replanting Work Items:	FERTILIZING, TILLING, SEEDING, MULCHING		
Initial Job Cost:	\$41,279.70		
Reseeding Job Cost:	\$10,319.93		
Total Job Cost:	\$51,599.63		
Job Hours:	35.00		

REVEGETATION WORKTask description: Vegetate wetland perimeterSite: Anderson PitPermit Action: 2013-03-20 InspectionPermit/Job#: M2005021PROJECT IDENTIFICATIONTask #: 06BState: ColoradoAbbreviation: NoneDate: 3/22/2013County: DeltaFilename: M021-06bUser: DMCAgency or organization name: DRMSFERTILIZINGMaterials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
10-34-0, 18-46-0, 5-10-5	1.00	pound	\$0.33	\$0.33
<b>Total Fertilizer Materials Cost/Acre</b>				<b>\$0.33</b>

Application

Description	Cost /Acre
Tractor towed spreader (MEANS 32 01 90.13 0120)	\$52.71
<b>Total Fertilizer Application Cost/Acre</b>	<b>\$52.71</b>

TILLING

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$98.01
Weed control spraying (MEANS 31 31 16.13 3100)	\$145.20
<b>Total Tilling Cost/Acre</b>	<b>\$243.21</b>

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Alkali Sacaton	1.00	39.03	\$22.81
Great Basin Wildrye - Magnar	1.50	6.10	\$11.24
Nebraska Sedge	1.00	20.94	\$137.92
Slender Wheatgrass - Native	3.00	10.95	\$6.75
Red Top	1.00	114.55	\$6.13
Reedgrass, Canadian (or Blue Joint)	0.50	51.42	\$101.55
Reedgrass, Northern - Native	0.50	51.42	\$68.96
Saltgrass, Inland	1.00	13.86	\$46.99
Timothy, Alpine - Native	1.00	29.84	\$27.07
<b>Totals Seed Mix</b>	<b>10.50</b>	<b>338.12</b>	<b>\$429.42</b>

Application

Description	Cost /Acre
Drill seeding (DRMS Cost Data)	\$88.20
<b>Total Seed Application Cost/Acre</b>	<b>\$88.20</b>

**MULCHING and MISCELLANEOUS****Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Hay, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$265.00	\$530.00
Herbicide - Curtail @ 4.0 pt/ac	1.00	ACRE	\$16.24	\$16.24
<b>Total Mulch Materials Cost/Acre</b>				<b>\$546.24</b>

**Application**

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$65.89
Weed spray, truck, aquatic area, nox. [DMG]	\$61.49
<b>Total Mulch Application Cost/Acre</b>	<b>\$127.38</b>

**NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
<b>Totals Nursery Stock Cost / Acre</b>					<b>\$0.00</b>

**JOB TIME AND COST**

No. of Acres:	0.72	Cost /Acre:	\$1,487.49
Estimated Failure Rate:	25%	Cost /Acre*:	\$1,487.49
*Selected Replanting Work Items:	FERTILIZING, TILLING, SEEDING, MULCHING		
Initial Job Cost:	\$1,070.99		
Reseeding Job Cost:	\$267.75		
Total Job Cost:	\$1,338.74		
Job Hours:	1.00		

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: Mobilize reclamation crew and equipmentSite: Anderson PitPermit Action: 2013-03-20 InspectionPermit/Job#: M2005021PROJECT IDENTIFICATIONTask #: 07AState: ColoradoAbbreviation: NoneDate: 3/22/2013County: DeltaFilename: M021-07aUser: DMCAgency or organization name: DRMSEQUIPMENT TRANSPORT RIG COSTShift basis: 1 per day  
Cost 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:	\$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 - 8U	53.70	\$63.00	\$125.45	1	\$188.45	\$125.45	\$250.00
CAT 966H	25.80	\$34.06	\$88.67	1	\$122.73	\$88.67	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$39.59	\$88.67	1	\$128.26	\$88.67	\$250.00

Subtotals: **\$439.44** **\$302.79** **\$750.00**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	\$25.51	1	\$25.51	\$25.51

Subtotals: **\$25.51** **\$25.51**

**EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region:	DELTA	
Total one-way travel distance:	5.00	miles
Average Travel Speed:	25.00	mph

Total Non-Roadable Mob/Demob Cost *	\$2,675.77
'* two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	\$10.20
'** one round trip, no haul rig:	

**Transportation Cycle Time:**

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.20	0.20
Return Time (Hours):	0.20	0.20
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.40	0.40

**JOB TIME AND COST**

Total job time:	2.80	Hours
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Total job cost:	\$2,685.97
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