STATE OF COLORADO

Yeldell - DNR, Amy <amy.yeldell@state.co.us>

RE: Breeze Basin Sand & Gravel Pit, Permit No. M-2008-022, SI-2

Yeldell - DNR, Amy <amy.yeldell@state.co.us> Mon, Oct 19, 2015 at 11:24 AM
To: Jon Mueller <Jon.Mueller@elamconstruction.com>

Ok will do. I have them in our correspondence tab as the inactive permit contact and Russell Larsen as the active. If all information should be directed to them can you please submit a contact change form. You may want to give them a heads up as the due date will remain the same.

--
Amy Yeldell
Environmental Protection Specialist
Minerals Program, Grand Junction Field Office

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

P 970.254.8511 Ext:8183 | F 970.241.1516 | C 970.210.1272

101 S. 3rd St., Suite 301, Grand Junction, CO 81501

amy.yeldell@state.co.us | www.mining.state.co.us

On Mon, Oct 19, 2015 at 10:26 AM, Jon Mueller <Jon.Mueller@elamconstruction.com> wrote:

> Good Morning Amy,
>
> I received the referenced Surety Increase – 2 letter for Breeze Basin Pit dated October 5th, 2015 (Permit No. M-2008-022). The bond however is held by 4B Land & Livestock, LLC (The Brennise). If you could forward the document with the corrected attention to :
>
> Scott & Sheila Brennise
>
> 4B Land & Livestock, LLC
>
> 5801 Highway 394
>
> Craig, Colorado 81625
>
> Thanks Amy,
>
> If you have any questions please feel free to give me a call.

Jon Mueller

Environmental Compliance Coordinator

Elam Sand & Gravel

556 Struthers Avenue – GJ / CO 81501

Office: (970)-242-5370

Direct: 970 255- 2098

Jon.Mueller@elamconstruction.com

October 5, 2015

Russell Larsen
Elam Construction Inc.
556 Struthers Ave
Grand Junction, CO 81501

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

1313 Sherman Street, Room 215
Denver, CO 80203

RE: Breeze Basin Sand & Gravel Pit, Permit No. M-2008-022, Reclamation Costs Update and Notice of Surety Increase (SI-2)

Dear Mr. Larsen:

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 ***$55,000*** rounded up from ***$54,901.34***. This is an increase of ***$7,190*** over the ***$47,810*** currently held by the Division. This estimate is based on conditions observed during the September 9, 2015 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, December 04, 2015**. 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

Amy Yeldell
Environmental Protection Specialist
Department of Natural Resources
Division of Reclamation, Mining and Safety

Ec: Russ Means, Senior EPS / Field Office Supervisor, Grand Junction DRMS
Enc: Financial Warranty Cost Estimate

STATE OF COLORADO * 1876 *

<u>COST SUMMARY WORK</u>

Task description: Reclamation Cost Update

Site: Breeze Basin Sand & Gravel Pit

Permit Action: 2015-09 Inspection

Permit/Job#: M2008022

PROJECT IDENTIFICATION

Task #: 001
Date: 9/21/2015
User: ACY

State: Colorado
County: Moffat

Abbreviation: None
Filename: M022-001

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Decrease pit water level 15 feet	PUMPING	1	292.27	$17,083.00
02a	Highwall reduction	DOZER	1	3.99	$834.00
03a	Rip stockpile area and temporary access	RIPPER	1	10.25	$2,285.00
04a	Push topsoil over pit slopes and stockpile area	DOZER	1	12.09	$2,526.00
05a	Revegetate pit slopes	REVEGE	1	8.00	$3,703.00
05b	Revegetate stockpile area	REVEGE	1	16.00	$13,386.00
06a	Mobilize reclamation crew and equipment	MOBILIZE	1	2.57	$2,518.00
06b	Secondary mobilize reclamation crew	MOBILIZE	1	2.57	$828.00
			SUBTOTALS:	347.74	$ $43,163

INDIRECT COSTS

<u>OVERHEAD AND PROFIT:</u>

Liability insurance:	2.02	Total =	$871.89
Performance bond:	1.05	Total =	$453.21
Job superintendent:	40.00	Total =	$3,006.40
Profit:	10.00	Total =	$4,316.30
		TOTAL O & P =	$8,647.80
		CONTRACT AMOUNT (direct + O & P) =	$51,810.80

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		$2,590.54
CONTINGENCY:	0.00	Total =	$0.00

TOTAL INDIRECT COST = $11,738.34

TOTAL BOND AMOUNT (direct + indirect) = $54,901.34

Rounded to: $55,000.00 ✓

PUMPING WORK

Task description: Decrease pit water level 15 feet

Site: Breeze Basin Sand & Gravel Pit

Permit Action: 2015-09 Inspection

Permit/Job#: M2008022

PROJECT IDENTIFICATION

Task #: 01A
Date: 9/21/2015
User: ACY

State: Colorado
County: Moffat

Abbreviation: None
Filename: M022-01a

Agency 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.	2
Attachment 2:	Discharge pipe - 10 in. D., 25 ft	4
Labor Unit 1:	Pump operator	1

Horsepower: 70
Shift Basis: 1 per day
Weight: 1.95
(US Tons)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	$14.72	NA
Operating Cost/Hour:	$21.24	100
Operator Cost/Hour:	$22.49	NA
Total Unit Cost/Hour:	$58.45	

Total Fleet Cost/Hour: $58.45

PUMPING QUANTITIES

Initial Pond Volume: 90.00
Final Pond Volume: 29,326,552.20 gallons
Total Pond Inflow Surface Area: 40,000 Sq. ft.
Total Pond Inflow Volume per Hour: 7,032.00 gallons

Conversion factor: 325850.5800

Unit inflow rate in gph/sq. ft.: 0.1758

Source of estimated volume: Approx. 6 ac. pond observed during inspection

PUMPING TIME

Maximum Pump Capacity:	200,000	gph/pump
Estimated Suction Head:	25	feet
Estimated Discharge Head:	0	feet
Total Head:	25	feet
CPB Pump Capacity:	93,000	gph/pump
Site Altitude:	6,200	feet
Adjusted Pumping Capacity:	93,000	gph
Initial Unadjusted Pumping Time:	315.34	hours
Inflow during Initial Pumping:	2,217,466	gallons
Net Unadjusted Pumping Time:	339.18	Hours
Altitude Adjustment Factor:	0.9400	(3% rule)
Pump Efficiency Factor:	0.9167	(55 min./hr.)
Total Adjusted Pumping Time:	292.27	hours

JOB TIME AND COST

Total job time: 292.27 Hours

Unit cost: $0.000542 /Gallon

Total job cost: $17,083

CIRCES Cost Estimating Software

BULLDOZER WORK

Task description: Highwall reduction

Site: Breeze Basin Sand & Gravel Pit

Permit Action: 2015-09 Inspection

Permit/Job#: M2008022

PROJECT IDENTIFICATION

Task #:	02A	State:	Colorado	Abbreviation:	None
Date:	9/21/2015	County:	Moffat	Filename:	M022-02a
User:	ACY				

Agency 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:

		Utilization %
Ownership Cost/Hour:	$62.67	NA
Operating Cost/Hour:	$108.22	100
Ripper Op. Cost/Hour:	$0.00	0
Operator Cost/Hour:	$38.01	NA

Total unit Cost/Hour: $208.90

Total Fleet Cost/Hour: **$208.90**

MATERIAL QUANTITIES

Initial Volume:	2,894
Swell factor:	1.060
Loose volume:	**3,068** LCY

Source of estimated volume: Division of Reclamation, Mining & Safety

Source of estimated swell factor: Cat Handbook

HOURLY PRODUCTION

Average push distance: 50 feet

Unadjusted hourly production: 1,627.0 LCY/hr

Materials consistency description: Compacted fill or embankment 0.9

Average push gradient: -15 %

Average site altitude: 6,200 feet

Material weight: 2,900 lbs/LCY

Weight description: Sand and gravel - Dry

Job Condition Correction Factor		Source
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:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4724

Adjusted unit production: 768.59 LCY/hr
Adjusted fleet production: 768.59 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: $0.272/LCY

Total job time: 3.99 Hours
Total job cost: **$834**

BULLDOZER RIPPING WORK

Task description: Rip stockpile area and temporary access

Site: Breeze Basin Sand & Gravel Pit

Permit Action: 2015-09 Inspection

Permit/Job#: M2008022

PROJECT IDENTIFICATION

Task #:	03A	State:	Colorado	Abbreviation:	None
Date:	9/21/2015	County:	Moffat	Filename:	M022-03a
User:	ACY				

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Basic Machine:	Cat D8T - 8U	Horsepower:	310
Ripper Attachment:	3-Shank Ripper	Shift Basis:	1 per day
		Data Source:	(CRG)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	$69.05	NA
Operating Cost/Hour:	$108.22	100
Ripper Operating Cost/Hour:	$7.46	100
Operator Cost/Hour:	$38.01	NA
Total Unit Cost/Hour:	$222.73	

Total Fleet Cost/Hour: **$222.73**

MATERIAL QUANTITIES

Selected estimating method: Area

Alternate Methods:

Seismic:	NA		Bank Volume:	NA	BCY	NA	
Area:	7.00	acres	Rip Depth (ft):	2.00	Volume:	22,587	BCY or CCY

Source of estimated quantity: Based on site inspection

HOURLY PRODUCTION

Seismic:

Seismic Velocity:	NA	feet/second

Area:

Average Ripping Depth:	2.56	mph
Average Ripping Width:	7.08	degrees
Average Ripping Length:	500.00	feet
Average Dozer Speed:	88.00	feet
Average Maneuver Time:	0.25	feet
Production per unit area:	0.822	acres/hour

Job Condition Correction Factors

Unadjusted Hourly Unit Production:	0.822	Acres/hr
Site Altitude:	6,200	feet
Altitude Adj:	1.00	(CAT HB)
Job Efficiency:	0.83	(1 shift/day)
Net Correction:	0.83	multiplier
Adjusted Hourly Unit Production:	0.68	Acres/hr
Adjusted Hourly Fleet Production:	**0.68**	Acres/hr

JOB TIME AND COST

Fleet size:	1	Grader(s)	Total job time:	**10.26**	Hours
Unit cost:	$326.454	Per acre	Total job cost:	**$2,285**	

CIRCES Cost Estimating Software

BULLDOZER WORK

Task description: ~~Push topsoil over pit slopes and stockpile area~~

Site: Breeze Basin Sand & Gravel Pit

Permit Action: 2015-09 Inspection

Permit/Job#: M2008022

PROJECT IDENTIFICATION

Task #: 04A
Date: 9/21/2015
User: ACY

State: Colorado
County: Moffat

Abbreviation: None
Filename: M022-04a

Agency 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:

		Utilization %
Ownership Cost/Hour:	$62.67	NA
Operating Cost/Hour:	$108.22	100
Ripper Op. Cost/Hour:	$0.00	0
Operator Cost/Hour:	$38.01	NA

Total unit Cost/Hour: $208.90
Total Fleet Cost/Hour: $208.90

MATERIAL QUANTITIES

Initial Volume: 9,680
Swell factor: 1.000
Loose volume: 9,680 LCY

Source of estimated volume: Approx. 9 ac. @ 8" depth
Source of estimated swell factor: Cat Handbook

HOURLY PRODUCTION

Average push distance: 100 feet
Unadjusted hourly production: 931.6 LCY/hr

Materials consistency description: Loose stockpile 1.2

Average push gradient: 0 %
Average site altitude: 6,200 feet

Material weight: 1,600 lbs/LCY

Weight description: Top Soil

Job Condition Correction Factor

		Source
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: $0.281/LCY

Total job time: 12.09 Hours
Total job cost: **$2,526**

REVEGETATION WORK

Task description: Revegetate pit slopes

Site: Breeze Basin Sand & Gravel Pit

Permit Action: 2015-09 Inspection

Permit/Job#: M2008022

PROJECT IDENTIFICATION

Task #: 05A
Date: 9/21/2015
User: ACY

State: Colorado
County: Moffat

Abbreviation: None
Filename: M022-05a

Agency 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)	$98.01
Total Tilling Cost/Acre	$98.01

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Paloma	1.00	3.24	$8.71
Bluebunch Wheatgrass - Secar	5.00	16.07	$34.20
Crested Wheatgrass - Ephraim	2.00	9.18	$4.46
Great Basin Wildrye - Magnar	1.00	4.06	$7.49
Nebraska Sedge	3.80	79.59	$524.10
Western Wheatgrass - Arriba	2.90	7.32	$10.67
Timothy - Climax	1.00	28.70	$1.15
		148.16	$590.78

Totals Seed Mix	16.70		

Application

Description	Cost /Acre
Drill seeding (DRMS Cost Data)	$88.20
Total Seed Application Cost/Acre	$88.20

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	$265.00	$530.00
Total Mulch Materials Cost/Acre				$530.00

Application

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	$65.89
Total Mulch Application Cost/Acre	$65.89

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
Cottonwood, Narrowleaf	25	Tubling, 10 cu. in. container {(MEANS)	$1.45	$0.00	$36.25
Willow, Sandbar	770	Tubling, 3 cu. in. container (MEANS)	$0.93	$0.00	$716.10
Totals Nursery Stock Cost / Acre					$752.35

JOB TIME AND COST

No. of Acres: 1.5
Estimated Failure Rate: 25%
*Selected Replanting Work Items: TILLING,SEEDING,MULCHING

Cost /Acre: $2,125.23
Cost /Acre*: $1,372.88

Initial Job Cost: $3,187.85
Reseeding Job Cost: $514.83
Total Job Cost: $3,703
Job Hours: 8.00

REVEGETATION WORK

Task description: Revegetate stockpile area

Site: Breeze Basin Sand & Gravel Pit

Permit Action: 2015-09 Inspection

Permit/Job#: M2008022

PROJECT IDENTIFICATION

Task #: 05B
Date: 9/21/2015
User: ACY

State: Colorado
County: Moffat

Abbreviation: None
Filename: M022-05b

Agency 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)	$98.01
Total Tilling Cost/Acre	$98.01

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Paloma	1.00	3.24	$8.71
Bluebunch Wheatgrass - Secar	5.00	16.07	$34.20
Crested Wheatgrass - Ephraim	2.00	9.18	$4.46
Great Basin Wildrye - Magnar	1.00	4.06	$7.49
Nebraska Sedge	3.80	79.59	$524.10
Western Wheatgrass - Arriba	2.90	7.32	$10.67
Timothy - Climax	1.00	28.70	$1.15
		148.16	$590.78

Totals Seed Mix	16.70

Application

Description	Cost /Acre
Drill seeding (DRMS Cost Data)	$88.20
Total Seed Application Cost/Acre	$88.20

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	$265.00	$530.00
Total Mulch Materials Cost/Acre				$530.00

Application

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	$65.89
Total Mulch Application Cost/Acre	$65.89

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: 7.5
Estimated Failure Rate: 30%
*Selected Replanting Work Items: TILLING,SEEDING MULCHING

Cost /Acre: $1,372.88
Cost /Acre*: $1 372.88

Initial Job Cost: $10,296.60
Reseeding Job Cost: $3,088.98
Total Job Cost: $13,386
Job Hours: 16.00

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description: **Mobilize reclamation crew and equipment**

Site: **Breeze Basin Sand & Gravel Pit** Permit Action: 2015-09 Inspection Permit/Job#: M2008022

PROJECT IDENTIFICATION

Task #: 06A State: Colorado Abbreviation: None
Date: 9/21/2015 County: Moffat Filename: M022-06a
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:	$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	48.33	$62.67	$117.55	1	$180.22	$117.55	$250.00
Drill/Broadcast Seeder with Tractor	25.00	$39.59	$88.67	1	$128.26	$88.67	$250.00
Centrifugal pump - 200M, 10 in.	1.95	$7.30	$88.67	1	$95.97	$88.67	$250.00

Subtotals:	$404.45	$294.89	$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	$33.48	1	$33.48	$33.48

Subtotals:	$33.48	$33.48

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	CRAIG	
Total one-way travel distance:	5.00	miles
Average Travel Speed:	35.00	mph
Total Non-Roadable Mob/Demob Cost * ** Two round trips with haul rig:	$2,508.71	
Total Roadable Mob/Demob Cost ** ** One round trip, no haul rig:	$9.57	

Transportation Cycle Time:

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

JOB TIME AND COST

Total job time:	**2.57**	Hours
Total job cost:	**$2,518**	

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description: Secondary mobilize reclamation crew

Site: Breeze Basin Sand & Gravel Pit

Permit Action: 2015-09 Inspection

Permit/Job#: M2008022

PROJECT IDENTIFICATION

Task #:	00B	State:	Colorado	Abbreviation:	None
Date:	9/21/2015	County:	Moffat	Filename:	M022-06b
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:	$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)	Ownership 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	$39.59	$88.67	1	$128.26	$88.67	$250.00

Subtotals:	$128.26	$88.67	$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, 1 T. Crew	$33.48	1	$33.48	$33.48

Subtotals:	$33.48	$33.48

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	CRAIG	
Total one-way travel distance:	5.00	miles
Average Travel Speed:	35.00	mph
Total Non-Roadable Mob/Demob Cost * * two round trips with haul rig:	$818.50	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	$9.57	

Transportation Cycle Time:

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

JOB TIME AND COST

Total job time:	**2.57**	Hours
Total job cost:	**$828**	