



**COLORADO**  
Division of Reclamation,  
Mining and Safety  
Department of Natural Resources  
Rm 215  
1001 E 62nd Ave  
Denver CO 80216

May 31, 2023

Matthew Welte  
Summit Brick & Tile Co.  
601 East 13<sup>th</sup> Street  
Pueblo, CO 81002

**RE: Fox #1 Clay Mine, Permit No. # M-1977-219 , Technical Revision (TR-2), Adequacy Review-#1**

Dear Mr. Welte:

The Division of Reclamation, Mining and Safety (Division) is in the process of reviewing the above referenced Technical Revision in order to ensure that it adequately satisfies the requirements of the Colorado Mined Land Reclamation Act (§ § 34-32.5-101-34-32.5-125) (Act) and the Rules and Regulations for the Extraction of Construction Materials (Rules). During review of the material submitted, the Division determined that the following issue of concern needs to be adequately addressed before the Technical Revision can be considered for approval:

1. The Division has created an updated cost estimate reflecting the reclamation responsibility for the Fox #1 Clay Mine according to the current permit file and the dimensions provided in the TR-2 application. Please review the attached cost estimate and provide any comments or concur with the estimate to the Division by the decision date (June 17, 2023).

Please submit your response(s) to the above listed issue(s) at least three days prior to the decision date in order to allow the Division sufficient time for review. If you cannot address the above issues by this date, please request an extension to the decision due date to ensure adequate time for the Division to review materials. If any adequacy issues remain by the decision due date the Division may deny your request.

The Division will continue to review your Technical Revision and will contact you if additional information is needed.

If you require additional information, or have questions or concerns, please contact me via email at [amber.michels@state.co.us](mailto:amber.michels@state.co.us) or by telephone at (720) 836-0967.

Sincerely,

Amber Michels  
Environmental Protection Specialist



*Enclosure:*    *DRMS TR-2 Cost Estimate*  
Ec:             Jared Ebert, Senior EPS, DRMS

## COST SUMMARY WORK

Task description: Reclamation work cost estimate summary

Site: Fox #1 Clay Mine Permit Action: TR2 and 2023  
Inspection

Permit/Job#: M1977219

### PROJECT IDENTIFICATION

Task #: 000 State: Colorado Abbreviation: None  
Date: 5/30/2023 County: Pueblo Filename: M219-000  
User: ANM

Agency or organization name: DRMS

### TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Doze overburden (Zone 1) off highwall	DOZER	1	4.95	\$1,374
002	Backfill remaining highwall	SCRAPER1	1	94.24	\$412,253
003	Replace root zone material	SCRAPER1	1	12.74	\$55,708
004	Replace growth medium (topsoil)	SCRAPER1	1	5.76	\$25,176
005	Revegetate 60 acres	REVEGE	1	60.00	\$86,270
006	Mob/Demob of Reclamation Equipment	MOBILIZE	1	10.18	\$37,117
<b><u>SUBTOTALS:</u></b>				<b>187.87</b>	<b>\$617,898</b>

### INDIRECT COSTS

#### OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$12,482
Performance bond:	1.05	Total =	\$6,488
Job superintendent:	93.94	Total =	\$7,057
Profit:	10.00	Total =	\$61,790

TOTAL O & P = \$87,817

CONTRACT AMOUNT (direct + O & P) = \$705,715

#### LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs):	<u>\$500</u>	Total =	<u>\$500</u>
Engineering work and/or contract/bid preparation:	<u>4.25</u>	Total =	<u>\$29,993</u>
Reclamation management and/or administration:	<u>5.00</u>		<u>\$35,286</u>

CONTINGENCY: 0.00 Total = \$0

TOTAL INDIRECT COST = \$153,595

**TOTAL BOND AMOUNT (direct + indirect) = \$771,493**

**BULLDOZER WORK**Task description: **Doze overburden (Zone 1) off highwall**Site: **Fox #1 Clay Mine**Permit Action: **TR2 and 2023**  
**Inspection**Permit/Job#: **M1977219****PROJECT IDENTIFICATION**Task #: **001**  
Date: **5/30/2023**  
User: **ANM**State: **Colorado**  
County: **Pueblo**Abbreviation: **None**  
Filename: **001**Agency or organization name: **DRMS****HOURLY EQUIPMENT COST**Basic Machine: **Cat D8T - 8SU**  
Horsepower: **310**  
Blade Type: **Semi-Universal**  
Attachment: **3-shank ripper**  
Shift Basis: **1 per day**  
Data Source: **(CRG)****Cost Breakdown:**

		<b><u>Utilization %</u></b>
Ownership Cost/Hour:	<b><u>\$124.85</u></b>	<b><u>NA</u></b>
Operating Cost/Hour:	<b><u>\$97.63</u></b>	<b><u>100</u></b>
Ripper own. Cost/Hour:	<b><u>\$13.10</u></b>	<b><u>NA</u></b>
Ripper op. Cost/Hour:	<b><u>\$1.83</u></b>	<b><u>25</u></b>
Operator Cost/Hour:	<b><u>\$40.04</u></b>	<b><u>NA</u></b>
Total unit Cost/Hour:	<b><u>\$277.44</u></b>	
Total Fleet Cost/Hour:	<b><u>\$277.44</u></b>	

**MATERIAL QUANTITIES**Initial Volume: **3,560**  
Swell factor: **1.330**  
Loose volume: **4,735 LCY**Source of estimated volume: **Application 9' HW to 3H:1V and 4,500 l.f (TR2 2023)**Source of estimated swell  
factor: **Cat Handbook****HOURLY PRODUCTION**Average push distance: **50 feet**  
Unadjusted hourly  
production: **1,400.0 LCY/hr**Materials consistency  
description: **Compacted fill or embankment 0.9**Average push  
gradient: **-30 %**  
Average site altitude: **6,200 feet**Material weight: **2,900 lbs/LCY**

Weight description: Decomposed rock - 50% Rock, 50% Earth

Job Condition Correction Factor

		<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	0.900	(CAT HB))
Dozing method:	1.200	(SLOT)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(SSD-AC)
Push gradient:	1.601	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.6828

Adjusted unit  
production: 955.92 LCY/hr

Adjusted fleet  
production: **955.92** LCY/hr

**JOB TIME AND COST**

Fleet size: 1 Dozer(s)  
Unit cost: \$0.290/LCY

Total job time: **4.95** Hours  
Total job cost: **\$1,374**

**SCRAPER TEAM WORK**Task description: **Backfill remaining highwall**

Site: **Fox #1 Clay Mine** Permit Action: TR2 and 2023  
Inspection Permit/Job#: M1977219

**PROJECT IDENTIFICATION**

Task #: 002 State: Colorado Abbreviation: None  
 Date: 5/30/2023 County: Pueblo Filename: 002  
 User: ANM

Agency or organization name: DRMS**HOURLY EQUIPMENT**COSTShift basis: 1 per day

Equipment Description	
-Scraper:	Cat 637G
-Dozer:	NA
Support Equipment -Load Area:	Cat D8T - 8SU
-Dump Area:	Cat D8T - 8SU
Road Maintenance -Motor Grader:	CAT 140M
-Water Truck:	Water Tanker, 2,500 Gal.

**Cost Breakdown:**

	Scraper Work Team		Support Equipment		Maintenance Equipment	
	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	NA	100	100	50	50
Ownership cost/hour:	\$264.49	NA	\$124.85	\$124.85	\$75.87	\$10.28
Operating cost/hour:	\$296.10	NA	\$97.63	\$97.63	\$26.91	\$10.16
%Utilization-ripper:	NA	NA	25	25	25	NA
Ripper own. cost/hour:	NA	NA	\$13.10	\$13.10	\$2.84	\$0.00
Ripper op. cost/hour:	NA	NA	\$1.83	\$1.83	\$0.63	\$0.00
Operator cost/hour:	\$47.07	NA	\$40.04	\$40.04	\$46.87	\$0.00
Unit Subtotals:	\$607.66	NA	\$277.44	\$277.44	\$153.12	\$20.44
Number of Units:	6	0	1	1	1	1
Group Subtotals:	Work:	\$3,645.96	Support:	\$554.88	Maint:	\$173.56

Total work team cost/hour: **\$4,374.40****MATERIAL QUANTITIES**

Initial volume: 297,000 CCY Swell factor: 1.165  
 Loose volume: 346,005 LCY

Source of estimated volume: 4,500 l.f.(TR2) x 45' H minus 9' (application) to 3H:1V  
 Source of estimated swell factor: Cat Handbook

**HOURLY PRODUCTION****Scraper Bowl (volume) Basis:**

Material weight: 2,900 lbs/LCY Struck Volume: 24.00 LCY  
 Material description: Decomposed rock - 50% Rock, Heaped Volume: 34.00 LCY  
50% Earth  
 Rated Payload: 81,600 pounds Average Volume: 29.00 LCY

Payload Capacity: 28.14 LCYAdjusted Capacity: 28.14 LCYCycle Time:

Scraper Loading Time: 0.80 Minutes  
 Maneuver and Spread Time: 0.60 Minutes

Job Condition Correction:

Site Altitude: 6200 feet

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

Travel Time:Road Condition: Hard, smooth, stabilized, surfaced, watered, maintained 2.0Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	800.00	-1.00	2.00	1.00	2952	0.48

Haul Time: 0.48 minutesReturn Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	800.00	1.00	2.00	3.00	2949	0.41

Return Time: 0.41 minutes

Total Scraper team cycle time: 2.29 minutes  
 Adjusted for job conditions: 611.91 LCY/Hour  
 Selected Number of Scrapers: 6 Scraper(s)  
 Adjusted single scraper team (unit) hourly production: 3,671.45 LCY/Hour  
 Adjusted multiple scraper team (fleet) hourly production: 3,671.45 LCY/Hour

Unadjusted unit production/hour: 737.24 LCY/Hour  
 Optimal Number of Scrapers per push  
 dozer: \_\_\_\_\_

**JOB TIME AND COST**Fleet size: 1 Team(s)Total job time: 94.24 HoursUnit cost: \$1.191 /LCYTotal job cost: \$412,253

**SCRAPER TEAM WORK**Task description: **Replace root zone material**Site: **Fox #1 Clay Mine**Permit Action: **TR2 and 2023  
Inspection**Permit/Job#: **M1977219****PROJECT IDENTIFICATION**Task #: **003**State: **Colorado**Abbreviation: **None**Date: **5/30/2023**County: **Pueblo**Filename: **003**User: **ANM**Agency or organization name: **DRMS****HOURLY EQUIPMENT**COSTShift basis: **1 per day**

Equipment Description	
-Scraper:	Cat 637G
-Dozer:	NA
Support Equipment -Load Area:	Cat D8T - 8SU
-Dump Area:	Cat D8T - 8SU
Road Maintenance -Motor Grader:	CAT 140M
-Water Truck:	Water Tanker, 2,500 Gal.

**Cost Breakdown:**

	Scraper Work Team		Support Equipment		Maintenance Equipment	
	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	NA	100	100	50	50
Ownership cost/hour:	\$264.49	NA	\$124.85	\$124.85	\$75.87	\$10.28
Operating cost/hour:	\$296.10	NA	\$97.63	\$97.63	\$26.91	\$10.16
%Utilization-ripper:	NA	NA	25	25	25	NA
Ripper own. cost/hour:	NA	NA	\$13.10	\$13.10	\$2.84	\$0.00
Ripper op. cost/hour:	NA	NA	\$1.83	\$1.83	\$0.63	\$0.00
Operator cost/hour:	\$47.07	NA	\$40.04	\$40.04	\$46.87	\$0.00
Unit Subtotals:	\$607.66	NA	\$277.44	\$277.44	\$153.12	\$20.44
Number of Units:	6	0	1	1	1	1
Group Subtotals:	Work:	\$3,645.96	Support:	\$554.88	Maint:	\$173.56

Total work team cost/hour: **\$4,374.40****MATERIAL QUANTITIES**Initial volume: **48,400**

CCY

Swell factor: **1.000**Loose volume: **48,400**

LCY

Source of estimated volume: **Application: 6" root zone TR2: 60 acres**Source of estimated swell factor: **Cat Handbook****HOURLY PRODUCTION****Scraper Bowl (volume) Basis:**

Material weight: **2,650 lbs/LCY**  
 Material description: **Decomposed rock - 25% Rock,  
75% Earth**  
 Rated Payload: **81,600 pounds**

Struck Volume: **24.00** LCY  
 Heaped Volume: **34.00** LCY  
 Average Volume: **29.00** LCY



Payload Capacity: 30.79 LCYAdjusted Capacity: 29.00 LCYCycle Time:

Scraper Loading Time: 0.80 Minutes  
 Maneuver and Spread Time: 0.60 Minutes

Job Condition Correction:

Site Altitude: 6200 feet

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

Travel Time:Road Condition: Hard, smooth, stabilized, surfaced, watered, maintained 2.0Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	800.00	-1.00	2.00	1.00	2952	0.47

Haul Time: 0.47 minutesReturn Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	800.00	1.00	2.00	3.00	2949	0.41

Return Time: 0.41 minutes

Total Scraper team cycle time: 2.28 minutes  
 Adjusted for job conditions: 633.42 LCY/Hour  
 Selected Number of Scrapers: 6 Scraper(s)  
 Adjusted single scraper team (unit) hourly production: 3,800.53 LCY/Hour  
 Adjusted multiple scraper team (fleet) hourly production: 3,800.53 LCY/Hour

Unadjusted unit production/hour: 763.16 LCY/Hour  
 Optimal Number of Scrapers per push  
 dozer: \_\_\_\_\_

**JOB TIME AND COST**Fleet size: 1 Team(s)Total job time: 12.74 HoursUnit cost: \$1.151 /LCYTotal job cost: \$55,708

**SCRAPER TEAM WORK**Task description: Replace growth medium (topsoil)Site: Fox #1 Clay MinePermit Action: TR2 and 2023  
InspectionPermit/Job#: M1977219**PROJECT IDENTIFICATION**Task #: 004State: ColoradoAbbreviation: NoneDate: 5/30/2023County: PuebloFilename: 004User: ANMAgency or organization name: DRMS**HOURLY EQUIPMENT**COSTShift basis: 1 per day

Equipment Description	
-Scraper:	Cat 637G
-Dozer:	NA
Support Equipment -Load Area:	Cat D8T - 8SU
-Dump Area:	Cat D8T - 8SU
Road Maintenance -Motor Grader:	CAT 140M
-Water Truck:	Water Tanker, 2,500 Gal.

**Cost Breakdown:**

	Scraper Work Team		Support Equipment		Maintenance Equipment	
	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	NA	100	100	50	50
Ownership cost/hour:	\$264.49	NA	\$124.85	\$124.85	\$75.87	\$10.28
Operating cost/hour:	\$296.10	NA	\$97.63	\$97.63	\$26.91	\$10.16
%Utilization-ripper:	NA	NA	25	25	25	NA
Ripper own. cost/hour:	NA	NA	\$13.10	\$13.10	\$2.84	\$0.00
Ripper op. cost/hour:	NA	NA	\$1.83	\$1.83	\$0.63	\$0.00
Operator cost/hour:	\$47.07	NA	\$40.04	\$40.04	\$46.87	\$0.00
Unit Subtotals:	\$607.66	NA	\$277.44	\$277.44	\$153.12	\$20.44
Number of Units:	6	0	1	1	1	1
Group Subtotals:	Work:	\$3,645.96	Support:	\$554.88	Maint:	\$173.56

Total work team cost/hour: \$4,374.40**MATERIAL QUANTITIES**Initial volume: 22,264

CCY

Swell factor: 1.000Loose volume: 22,264

LCY

Source of estimated volume: Adequacy Response #2: 2.7" root zone TR2: 60 acresSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION****Scraper Bowl (volume) Basis:**

Material weight: 1,600 lbs/LCY  
 Material description: Top Soil  
 Rated Payload: 81,600 pounds  
 Payload Capacity: 51.00 LCY

Struck Volume: 24.00 LCY  
 Heaped Volume: 34.00 LCY  
 Average Volume: 29.00 LCY  
 Adjusted Capacity: 29.00 LCY

Cycle Time:Scraper Loading Time: 0.80 MinutesManeuver and Spread Time: 0.60 MinutesJob Condition Correction:

Site Altitude: 6200 feet

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

Travel Time:Road Condition: Hard, smooth, stabilized, surfaced, watered, maintained 2.0Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	800.00	-1.00	2.00	1.00	2952	0.43

Haul Time: 0.43 minutesReturn Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	800.00	1.00	2.00	3.00	2949	0.41

Return Time: 0.41 minutesTotal Scraper team cycle time: 2.24 minutesAdjusted for job conditions: 644.73 LCY/HourSelected Number of Scrapers: 6 Scraper(s)Adjusted single scraper team (unit) hourly production: 3,868.39 LCY/HourAdjusted multiple scraper team (fleet) hourly production: 3,868.39 LCY/HourUnadjusted unit production/hour: 776.79 LCY/HourOptimal Number of Scrapers per push  
dozer: \_\_\_\_\_**JOB TIME AND COST**Fleet size: 1 Team(s)Total job time: 5.76 HoursUnit cost: \$1.131 /LCYTotal job cost: \$25,176

**REVEGETATION WORK**Task description: Revegetate 60 acres

Site: Fox #1 Clay Mine Permit Action: TR2 and 2023 Inspection Permit/Job#: M1977219

**PROJECT IDENTIFICATION**

Task #: 005 State: Colorado Abbreviation: None  
 Date: 5/30/2023 County: Pueblo Filename: 005  
 User: ANM

Agency or organization name: DRMS**FERTILIZING****Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost / Acre
Ammonium nitrate, 33-0-0	121.00	pound	\$0.37	\$44.77
Triple superphosphate, 0-46-0	87.00	pound	\$0.47	\$40.89
			<b>Total Fertilizer Materials Cost/Acre</b>	<b>\$85.66</b>

**Application**

Description	Cost / Acre
Tractor towed spreader (MEANS 32 01 90.13 0120)	\$39.64
<b>Total Fertilizer Application Cost/Acre</b>	<b>\$39.64</b>

**SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost / Acre
Blue Grama - Hachita	0.25	4.08	\$3.99
Sand Dropseed	0.03	3.58	\$0.29
Sideoats Grama - Butte	3.19	10.47	\$28.71
Western Wheatgrass - Arriba	7.20	18.18	\$46.80
Needlegrass, Green - Lodorm	0.48	1.99	\$5.65
<b>Totals Seed Mix</b>	<b>11.15</b>	<b>38.31</b>	<b>\$85.45</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
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$421.36	\$842.72
<b>Total Mulch Materials Cost/Acre</b>				<b>\$842.72</b>

**Application**

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$73.00
<b>Total Mulch Application Cost/Acre</b>	<b>\$73.00</b>

**JOB TIME AND COST**

No. of Acres:	60	Cost /Acre:	\$1,358.47
Estimated Failure Rate:	25%	Cost /Acre*:	\$317.45
*Selected Replanting Work Items:	SEEDING		

Initial Job Cost: **\$81,508.20**  
 Reseeding Job Cost: **\$4,761.75**  
 Total Job Cost: **\$86,270**  
 Job Hours: **60.00**

**EQUIPMENT MOBILIZATION/DEMOBILIZATION**Task description: **Mob/Demob of Reclamation Equipment**

Site: **Fox #1 Clay Mine** Permit Action: **TR2 and 2023 Inspection** Permit/Job#: **M1977219**

**PROJECT IDENTIFICATION**

Task #: **006** State: **Colorado** Abbreviation: **None**  
 Date: **5/30/2023** County: **Pueblo** Filename: **006**  
 User: **ANM**

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:	\$15.25	\$23.06	\$37.58
Operating Cost/Hour:	\$25.26	\$30.83	\$51.41
Operator Cost/Hour:	\$27.71	\$27.71	\$27.71
Helper Cost/Hour:	\$0.00	\$20.22	\$20.22
Total Unit Cost/Hour:	\$68.22	\$101.82	\$136.92

**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	\$137.95	\$136.92	2	\$549.74	\$273.84	\$250.00
Cat 637G	57.28	\$264.49	\$136.92	6	\$2,408.46	\$821.52	\$1,500.00
CAT 140M	16.68	\$78.71	\$68.22	1	\$146.93	\$68.22	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$6.25	\$68.22	2	\$148.94	\$136.44	\$250.00
Power Mulcher (Bowie LD-90)	6.00	\$14.79	\$68.22	1	\$83.01	\$68.22	\$250.00

Subtotals: **\$3,337.08** **\$1,368.24** **\$2,500.00**

**ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Water Tanker, 2,500 Gal.	\$30.60	1	\$30.60	\$30.60
Light Duty Pickup, 4x4, 3/4 T.	\$87.03	1	\$87.03	\$87.03
Lube Truck, 4x2, 190 HP	\$76.19	1	\$76.19	\$76.19
Fuel Tanker, 4x2, 170 HP	\$69.51	1	\$69.51	\$69.51

Subtotals: **\$263.33** **\$263.33**

**EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region:	<u>PUEBLO, CO</u>	
Total one-way travel distance:	<u>30.00</u>	miles
Average Travel Speed:	<u>55.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$36,829.72</u>
** two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	<u>\$287.27</u>
** one round trip, no haul rig:	

**Transportation Cycle Time:**

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>0.55</u>	<u>0.55</u>
Return Time (Hours):	<u>0.55</u>	<u>0.55</u>
Loading Time (Hours):	<u>2.00</u>	<u>NA</u>
Unloading Time (Hours):	<u>2.00</u>	<u>NA</u>
Subtotals:	<u>5.09</u>	<u>1.09</u>

**JOB TIME AND COST**

Total job time:	<u>10.18</u>	Hours
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Total job cost:	<u>\$37,117</u>
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