



## COLORADO

Division of Reclamation,  
Mining and Safety


Department of Natural Resources

### MINERALS PROGRAM INSPECTION REPORT

PHONE: (303) 866-3567

The Division of Reclamation, Mining and Safety has conducted an inspection of the mining operation noted below. This report documents observations concerning compliance with the terms of the permit and applicable rules and regulations of the Mined Land Reclamation Board.

<b>MINE NAME:</b> Mud Creek Pit	<b>MINE/PROSPECTING ID#:</b> M-2008-010	<b>MINERAL:</b> Sand and gravel	<b>COUNTY:</b> Montezuma
<b>INSPECTION TYPE:</b> Monitoring	<b>WEATHER:</b> Clear	<b>INSP. DATE:</b> June 11, 2024	<b>INSP. TIME:</b> 14:00
<b>OPERATOR:</b> Oldcastle SW Group, Inc. Four Corners	<b>OPERATOR REPRESENTATIVE:</b> Francesca Mallonee	<b>TYPE OF OPERATION:</b> 112c - Construction Regular Operation	

<b>REASON FOR INSPECTION:</b> Normal I&E Program	<b>BOND CALCULATION TYPE:</b> Complete Bond	<b>BOND AMOUNT:</b> \$49,883.20
<b>DATE OF COMPLAINT:</b> NA	<b>POST INSP. CONTACTS:</b> None	<b>JOINT INSP. AGENCY:</b> None
<b>INSPECTOR(S):</b> Todd Jesse	<b>INSPECTOR'S SIGNATURE:</b> 	<b>SIGNATURE DATE:</b> July 10, 2024

**The following inspection topics were identified as having Problems or Possible Violations. OPERATORS SHOULD READ THE FOLLOWING PAGES CAREFULLY IN ORDER TO ASSURE COMPLIANCE WITH THE TERMS OF THE PERMIT AND APPLICABLE RULES AND REGULATIONS. If a Possible Violation is indicated, you will be notified under separate cover as to when the Mined Land Reclamation Board will consider possible enforcement action.**

**INSPECTION TOPIC:** Hydrologic Balance

**PROBLEM/POSSIBLE VIOLATION:** Problem: The Division has no evidence that the operator has a valid well permit, substitute water supply plan, or approved water augmentation plan for the exposed groundwater at the site. This is a problem related to 34-32.5-116(4)(h) of the Colorado Revised Statutes and 3.1.6(1)(a) of the Construction Materials Rules and Regulations governing injury to existing water rights.

**CORRECTIVE ACTIONS:** The operator shall demonstrate that the operation is in compliance with the Office of the State Engineer, show evidence that the operator is taking measures to bring the site into compliance with the SEO, or backfill the pits to at least two feet above the groundwater surface by the corrective action date specified.

**CORRECTIVE ACTION DUE DATE:** 9/11/24

## **OBSERVATIONS**

This inspection report was conducted as part of the normal monitoring program established by the Colorado Division of Reclamation, Mining, and Safety's Active Mines Program. The Mud Creek Pit is a 112c Operation operated by Oldcastle SW Group, Inc. The site is located 2 miles west of Mancos, CO at an elevation of approximately 6,800 feet. Public access is controlled by a gate off the Hwy 160. Franchesca Mallonee of Oldcastle SW Group, Inc dba Four Corners Materials was present during the inspection.

### **Financial Warranty:**

The Division currently holds a financial warranty in the amount of \$49,883. The last bond calculation was done in 2016. In an effort to ensure the financial warranty remains adequate to reclaim this site per the requirements of the approved reclamation plan, DRMS has updated the Reclamation Cost Estimate. The updated estimate is attached to this inspection report. Calculations estimate the cost of reclamation to be \$53,311. This is an increase of \$3,428 over the current surety held by the Division. A Notice of Surety Increase will be sent under a separate cover once the operator has had the opportunity to review the estimate and dispute any calculations.

### **Hydrologic Balance:**

Groundwater has been exposed in the pit (Photo 1). This is noted as a maintenance item. No record of a Gravel Pit Well Permit was submitted to the Division that allows for groundwater to be exposed. **Please either submit documentation that show the operation is in compliance with the State Engineer Office, the operation is working with the State Engineer to bring the site into compliance or backfill the areas with exposed groundwater to at least 2 feet above the water table. Please submit documentation to the Division by September 11<sup>th</sup>, 2024.** The approved mine plan states that no groundwater is to be exposed and that operation would only mine to a depth of 30' which is above the water table.

Hydrocarbons are being stored on site near the scale in a double walled tank (Photo 2). No evidence of spills was noted on the site.

### **Gen. Compliance with Mine Plan:**

At the time of the inspection the operator had disturbed approximately 25 acres within the permit boundary. Multiple stockpiles were observed within the permit boundary. An approximately 500' long and 10' high highwall was observed within the mining area (Photo 3). No slumping or other erosional features were noted along the highwall. There are multiple processed and unprocessed stockpiles on the pit floor. No processing equipment was observed during the inspection.

### **Revegetation:**

Cheat grass (*Bromus tectorum*) (Photo 4) was observed within the permit boundary, but not on any stockpiles. The Division recommends that the operator work with Montezuma County to create a Weed Management Plan to combat invasive species within the permit boundary.

### **Support Facilities On-site:**

On-site support facilities include an office and scale (Photo 5). The facilities look orderly and well maintained. No signs of displacement or erosion were noted around the base of any of the structures.

### **Signs and Markers:**

The mine identification sign and affected area boundary markers are in place and in compliance with Rule 3.1.12. The permit boundary is marked with fence lines that are easily identifiable. The mine ID sign is posted at the entrance to the site in accordance with the Rules.

Topsoil:

Topsoil is being stockpiled in the permit boundary along the perimeter of the pit. The topsoil stockpile is protected by vegetation. No signs of erosion or slumping were observed on the topsoil piles (Photo 6). There appears to be sufficient topsoil to complete reclamation.

All responses to this report should be directed to Todd Jesse with the Division's Active Mines Program at DRMS, Room 215, 1001 E. 62nd Ave. Denver, CO 80216. Direct contact can be made at the Division's Grand Junction Field Office, by phone at (720) 688-0626 or by email at [todd.jesse@state.co.us](mailto:todd.jesse@state.co.us).

## **PHOTOGRAPHS**



Photo 1: View to the west of exposed groundwater at bottom of pit.



Photo 2: View to the west of double walled fuel tank near scale.





Photo 3: View to the east of highwall on site.



Photo 4: View to the north of cheat grass on site.





Photo 5: View to the west of office and scale.



Photo 6: View to the northeast of topsoil stockpile.

### GENERAL INSPECTION TOPICS

The following list identifies the environmental and permit parameters inspected and gives a categorical evaluation of each

(AR) RECORDS----- <u>N</u>	(FN) FINANCIAL WARRANTY----- <u>Y</u>	(RD) ROADS----- <u>N</u>
(HB) HYDROLOGIC BALANCE----- <u>PB</u>	(BG) BACKFILL & GRADING----- <u>N</u>	(EX) EXPLOSIVES----- <u>N</u>
(PW) PROCESSING WASTE/TAILING---- <u>N</u>	(SF) PROCESSING FACILITIES----- <u>Y</u>	(TS) TOPSOIL----- <u>Y</u>
(MP) GENL MINE PLAN COMPLIANCE- <u>Y</u>	(FW) FISH & WILDLIFE----- <u>N</u>	(RV) REVEGETATION---- <u>Y</u>
(SM) SIGNS AND MARKERS----- <u>Y</u>	(SP) STORM WATER MGT PLAN---- <u>N</u>	(RS) RECL PLAN/COMP-- <u>N</u>
(ES) OVERBURDEN/DEV. WASTE----- <u>N</u>	(SC) EROSION/SEDIMENTATION--- <u>N</u>	(ST) STIPULATIONS----- <u>N</u>
(AT) ACID OR TOXIC MATERIALS----- <u>N</u>	(OD) OFF-SITE DAMAGE----- <u>N</u>	

Y = Inspected / N = Not inspected / NA = Not applicable to this operation / PB = Problem cited / PV = Possible violation cited

#### Inspection Contact Address

Franchesca Mallonee  
Oldcastle SW Group, Inc. dba Four Corners Materials  
9755 CR 213  
Durango, CO 81303

Enclosure: Reclamation Cost Estimate

CC: Travis Marshall, DRMS

## COST SUMMARY WORK

Task description: Cost Summary

Site: Mud Creek Pit

Permit Action: 2024

Permit/Job#: M2008010

### PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 7/9/2024

County: Montezuma

Filename: M010-000

User: TJ1

Agency or organization name: DRMS

### TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Demolish and remove all mining related structures	DEMOLISH	1	0.00	\$359
002	Highwall reduction to 3H:1V, 10' high x 1000'L	DOZER	1	1.96	\$147
003	Rip and grade 12 acres affected lands	DOZER	1	33.48	\$2,581
004	Topsoil Replacement 1' deep, 12 acres	DOZER	1	75.96	\$5,554
005	Revegetate 13 acres affected	REVEGE	1	16.00	\$29,673
006	Haul reclamation equipment to and from job site.	MOBILIZE	1	3.80	\$4,281
007	Secondary Mobilization	MOBILIZE	1	3.80	\$1,202
<b><u>SUBTOTALS:</u></b>				<b>135</b>	<b>\$43,797</b>

### INDIRECT COSTS

#### OVERHEAD AND PROFIT:

Liability insurance: 2.02

Total = \$885

Performance bond: 1.05

Total = \$460

Job superintendent: 0.00

Total = \$0

Profit: 10.00

Total = \$4,380

TOTAL O & P = \$5,724

CONTRACT AMOUNT (direct + O & P) = \$49,521

#### LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): \$0

Total = \$0

Engineering work and/or contract/bid preparation: 0.00

Total = \$0

Reclamation management and/or administration: 5.00

\$2,476

CONTINGENCY: 3.00

Total = \$1,314

TOTAL INDIRECT COST = \$9,514

**TOTAL BOND AMOUNT (direct + indirect) = \$53,311**



## DEMOLITION WORK

Task description: Demolish and remove all mining related structures

Site: Mud Creek Pit

Permit Action: 2024

Permit/Job#: M2008010

### PROJECT IDENTIFICATION

Task #: 001

State: Colorado

Abbreviation: None

Date: 7/9/2024

County: Montezuma

Filename: M010-001

User: TJ1

Agency or organization name: DRMS

### UNIT COSTS

Location adjustment: 95.20 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Truck Scales, concrete pads	8'L x 2.5'W x 0.5'D	Demo. and on-site disposal in existing pit, 1.0 ft. x 2 ft. - Max. 10,000 ft. haul	56.00	LF	\$4.63	\$259.06
Misc debris	10'L x 10'W x 5'H	Bldg. (SN) demo./on-site disposal in existing pit or cut - Max. 200 ft. push	500.00	CF	\$0.24	\$118.10

Job Hours: 0.00

Subtotal  
(unadjusted): \$377.16

Total Cost  
(adjusted for location): \$359.06

**BULLDOZER WORK**Task description: Highwall reduction to 3H:1V, 10' high x 1000'LSite: Mud Creek PitPermit Action: 2024Permit/Job#: M2008010**PROJECT IDENTIFICATION**Task #: 002State: ColoradoAbbreviation: NoneDate: 7/9/2024County: MontezumaFilename: M010-002User: TJ1Agency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: OBSOLETE-Cat D8T - 8UHorsepower: 305Blade Type: UniversalAttachment: 3-shank ripperShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$10.00	NA
Operating Cost/Hour:	\$10.00	100
Ripper own. Cost/Hour:	\$14.53	NA
Ripper op. Cost/Hour:	\$1.99	25
Operator Cost/Hour:	\$38.59	NA

Total unit Cost/Hour: \$75.10Total Fleet Cost/Hour: \$75.10**MATERIAL QUANTITIES**Initial Volume: 1,389Swell factor: 1.000Loose volume: 1,389 LCYSource of estimated volume:  $((15'L \times 5'H) / 2) \times 1000'L / 27 = 1,388.89 \text{ cy}$ Source of estimated swell factor: NA**HOURLY PRODUCTION**Average push distance: 50 feetUnadjusted hourly production: 1,627.0 LCY/hrMaterials consistency description: Compacted fill or embankment 0.9Average push gradient: -10 %Average site altitude: 6,800 feetMaterial weight: 2,900 lbs/LCYWeight description: Sand 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:	1.225	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4354

Adjusted unit production: 708.40 LCY/hr

Adjusted fleet production: **708.4** LCY/hr

### **JOB TIME AND COST**

Fleet size: 1 Dozer(s)

Unit cost: \$0.106/LCY

Total job time: **1.96** Hours

Total job cost: **\$147**



**BULLDOZER WORK**Task description: **Rip and grade 12 acres affected lands**Site: **Mud Creek Pit**Permit Action: 2024Permit/Job#: M2008010**PROJECT IDENTIFICATION**Task #: 003State: ColoradoAbbreviation: NoneDate: 7/9/2024County: MontezumaFilename: M008-003User: TJ1Agency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: OBSOLETE-Cat D8T - 8UHorsepower: 305Blade Type: UniversalAttachment: 3-shank ripperShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	<u>\$10.00</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$10.00</u>	<u>100</u>
Ripper own. Cost/Hour:	<u>\$14.53</u>	<u>NA</u>
Ripper op. Cost/Hour:	<u>\$3.98</u>	<u>50</u>
Operator Cost/Hour:	<u>\$38.59</u>	<u>NA</u>

Total unit Cost/Hour: \$77.09Total Fleet Cost/Hour: **\$77.09****MATERIAL QUANTITIES**Initial Volume: 19,360Swell factor: 1.000Loose volume: **19,360 LCY**Source of estimated volume: (12ac)(43560sf/ac)(1'D) / 27 = 19,360 cySource of estimated swell factor: NA**HOURLY PRODUCTION**Average push distance: 50 feetUnadjusted hourly production: 1,627.0 LCY/hrMaterials consistency description: Compacted fill or embankment 0.9Average push gradient: 0 %Average site altitude: 6,800 feetMaterial weight: 2,900 lbs/LCYWeight description: Sand and gravel - Dry**Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	<u>0.750</u>	<u>(AVG.)</u>
Material consistency:	<u>0.900</u>	<u>(CAT HB))</u>
Dozing method:	<u>1.000</u>	<u>(GEN.)</u>
Visibility:	<u>1.000</u>	<u>(AVG.)</u>

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:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3554

Adjusted unit production: 578.24 LCY/hr

Adjusted fleet production: **578.24** LCY/hr

### **JOB TIME AND COST**

Fleet size: 1 Dozer(s)

Unit cost: \$0.133/LCY

Total job time: **33.48** Hours

Total job cost: **\$2,581**

**BULLDOZER WORK**Task description: Topsoil Replacement 1' deep, 12 acresSite: Mud Creek PitPermit Action: 2024Permit/Job#: M2008010**PROJECT IDENTIFICATION**Task #: 004State: ColoradoAbbreviation: NoneDate: 7/9/2024County: MontezumaFilename: M008-004User: TJ1Agency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: OBSOLETE-Cat D8T - 8UHorsepower: 305Blade Type: UniversalAttachment: 3-shank ripperShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$10.00	NA
Operating Cost/Hour:	\$10.00	100
Ripper own. Cost/Hour:	\$14.53	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$38.59	NA

Total unit Cost/Hour: \$73.12Total Fleet Cost/Hour: \$73.12**MATERIAL QUANTITIES**Initial Volume: 19,360Swell factor: 1.000Loose volume: 19,360 LCYSource of estimated volume: (12ac)(43560sf/ac)(1'D) / 27 = 19,360 cySource of estimated swell factor: NA**HOURLY PRODUCTION**Average push distance: 200 feetUnadjusted hourly production: 515.8 LCY/hrMaterials consistency description: Partly consolidated stockpile 1.1Average push gradient: 0 %Average site altitude: 6,800 feetMaterial weight: 2,550 lbs/LCYWeight description: Earth - Dry packed**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:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4941

Adjusted unit production: 254.86 LCY/hr

Adjusted fleet production: **254.86** LCY/hr

### **JOB TIME AND COST**

Fleet size: 1 Dozer(s)

Unit cost: \$0.287/LCY

Total job time: **75.96** Hours

Total job cost: **\$5,554**

**REVEGETATION WORK**Task description: Revegetate 13 acres affectedSite: Mud Creek PitPermit Action: 2024Permit/Job#: M2008010**PROJECT IDENTIFICATION**Task #: 005State: ColoradoAbbreviation: NoneDate: 7/9/2024County: MontezumaFilename: M008-005User: TJ1Agency 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	\$0.51	\$102.32
			<b>Total Fertilizer Materials Cost/Acre</b>	<b>\$102.32</b>

**Application**

Description	Cost /Acre
Tractor towed spreader (MEANS 32 01 90.13 0120)	\$43.12
<b>Total Fertilizer Application Cost/Acre</b>	<b>\$43.12</b>

**TILLING**

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
<b>Total Tilling Cost/Acre</b>	<b>\$117.61</b>

**SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Rye, Annual Tetraploid - Barmultra	2.00	8.72	\$3.86
Meadow Brome - Regar	6.00	5.51	\$33.75
Orchardgrass - Paiute	1.50	18.60	\$6.88
Smooth Brome - Manchar	2.00	6.66	\$10.44
Intermediate Wheatgrass - Rush	3.00	6.40	\$14.19
Burnett, Small (or Little) - Delar	2.00	2.53	\$8.91
Sainfoin - Renumex	3.00	1.31	\$12.96
<b>Totals Seed Mix</b>	<b>19.50</b>	<b>49.72</b>	<b>\$91.00</b>

**Application**

Description	Cost /Acre
Drill Seeding (DRMS Survey Cost)	\$236.64
<b>Total Seed Application Cost/Acre</b>	<b>\$236.64</b>

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

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
	1.00		\$0.00	\$0.00
Hay, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$492.78	\$985.56
<b>Total Mulch Materials Cost/Acre</b>				<b>\$985.56</b>

**Application**

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$85.37
Power mulcher (MEANS 32 91 13.16 0350)	\$157.25
Weed spray, truck, non-aquatic area, nox. [DMG]	\$83.26
<b>Total Mulch Application Cost/Acre</b>	<b>\$325.89</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: 13 Cost /Acre: \$1,902.14  
 Estimated Failure Rate: 20% Cost /Acre\*: \$1,902.14  
 \*Selected Replanting Work Items: FERTILIZING,TILLING,SEEDING,MU  
LCHING

Initial Job Cost: **\$24,727.82**  
 Reseeding Job Cost: **\$4,945.56**  
 Total Job Cost: **\$29,673**  
 Job Hours: **16.00**



**EQUIPMENT MOBILIZATION/DEMOBILIZATION**Task description: Haul reclamation equipment to and from job site.Site: Mud Creek PitPermit Action: 2024Permit/Job#: M2008010**PROJECT IDENTIFICATION**Task #: 006State: ColoradoAbbreviation: NoneDate: 7/9/2024County: MontezumaFilename: M008-006User: TJ1Agency or organization name: DRMS**EQUIPMENT TRANSPORT RIG COST**Shift basis: 1 per dayCost 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:**

<b>Available Rig Capacities</b>	<b>0-25 Tons</b>	<b>26-50 Tons</b>	<b>51+ Tons</b>
Ownership Cost/Hour:	\$10.44	\$22.18	\$23.94
Operating Cost/Hour:	\$26.48	\$54.55	\$55.65
Operator Cost/Hour:	\$22.52	\$22.52	\$22.52
Helper Cost/Hour:	\$0.00	\$23.53	\$23.53
Total Unit Cost/Hour:	\$59.44	\$122.78	\$125.64

**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	\$173.32	\$122.78	1	\$296.10	\$122.78	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$41.02	\$59.44	2	\$200.92	\$118.88	\$250.00
Power Mulcher (Bowie LD-90)	6.00	\$27.21	\$59.44	2	\$173.30	\$118.88	\$500.00

Subtotals: **\$670.32** **\$360.54** **\$1,000.00****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.	\$13.77	1	\$13.77	\$13.77

Subtotals: **\$13.77** **\$13.77**

**EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region: CORTEZ  
 Total one-way travel distance: 18.00 miles  
 Average Travel Speed: 40.00 mph

Total Non-Roadable Mob/Demob Cost \* \$4,268.41  
 \*\* two round trips with haul rig:  
 Total Roadable Mob/Demob Cost \*\* \$12.39  
 \*\* one round trip, no haul rig:

**Transportation Cycle Time:**

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.45	0.45
Return Time (Hours):	0.45	0.45
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.90	0.90

**JOB TIME AND COST**

Total job time: 3.80 Hours

Total job cost: \$4,281

**EQUIPMENT MOBILIZATION/DEMOBILIZATION**Task description: Secondary MobilizationSite: Mud Creek PitPermit Action: 2024Permit/Job#: M2008010**PROJECT IDENTIFICATION**Task #: 007State: ColoradoAbbreviation: NoneDate: 7/9/2024County: MontezumaFilename: M010-007User: TJ1Agency or organization name: DRMS**EQUIPMENT TRANSPORT RIG COST**Shift basis: 1 per dayCost 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:**

<b>Available Rig Capacities</b>	<b>0-25 Tons</b>	<b>26-50 Tons</b>	<b>51+ Tons</b>
Ownership Cost/Hour:	\$10.44	\$22.18	\$23.94
Operating Cost/Hour:	\$26.48	\$54.55	\$55.65
Operator Cost/Hour:	\$22.52	\$22.52	\$22.52
Helper Cost/Hour:	\$0.00	\$23.53	\$23.53
Total Unit Cost/Hour:	\$59.44	\$122.78	\$125.64

**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	\$41.02	\$59.44	2	\$200.92	\$118.88	\$250.00

Subtotals: **\$200.92** **\$118.88** **\$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, 3/4 T.	\$13.77	1	\$13.77	\$13.77

Subtotals: **\$13.77** **\$13.77**

**EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region: CORTEZ  
 Total one-way travel distance: 18.00 miles  
 Average Travel Speed: 40.00 mph

Total Non-Roadable Mob/Demob Cost \* \$1,189.66  
 \*\* two round trips with haul rig:  
 Total Roadable Mob/Demob Cost \*\* \$12.39  
 \*\* one round trip, no haul rig:

**Transportation Cycle Time:**

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.45	0.45
Return Time (Hours):	0.45	0.45
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.90	0.90

**JOB TIME AND COST**

Total job time: 3.80 Hours

Total job cost: \$1,202