



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

October 17, 2023

Donald Corson
C&B Sand and Gravel Inc.
P.O. Box 147
Baggs, WY 82321

Re: Sheehan Pit (Permit No. M-2007-058)
Technical Revision No. 2
Adequacy Review

Dear Mr. Corson:

After reviewing TR-2 from C&B Sand and Gravel Inc. for the Sheehan Pit, the Division has the following comments:

1. When reviewing the proposed Exhibit E – Mining Plan Map and Exhibit E - Reclamation Plan Map, the legend for both shows the “mined area” as shaded yellow. However, it is unclear to the Division in both maps which portion of the site this is referring to. Please provide an updated Mining Plan and Reclamation Plan map that clearly delineates the “mined area” boundary.
2. When reviewing the proposed Exhibit E – Mining Plan Map and Exhibit E - Reclamation Plan Map, there is an additional line added to both maps that splits the site into approximate halves. It is unclear to the Division on what this new additional line represents. For additional clarification, please refer to the “green arrow” shown in Figure 1 of this Letter. Please provide the Division with additional clarification on what the new additional line the Mining Plan Map and Reclamation Plan map represents and update the referenced Maps as necessary.
3. When reviewing the proposed Exhibit E – Mining Plan Map and Exhibit E - Reclamation Plan Map, the northern portion above the newly additional line noted in Comment 2 of this Letter appears to have been shaded out. It is unclear to the Division why this change has occurred as there is no reference to the shaded out area in the associated Map legends. For additional clarification, please refer to the area enclosed by the dashed green lines as shown in Figure 1 of this Letter. Please provide the Division with additional clarification on what the newly shaded out area of the Mining Plan Map and Reclamation Plan map represents and update the referenced Maps as necessary.





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4. There appears to be some acreage discrepancies provided on the proposed Exhibit E – Mining Plan Map and Exhibit E - Reclamation Plan Map when comparing them to the currently approved Mining and Reclamation Plan Maps (Figure 2 of this Letter). The currently approved noted Maps show the “mine” as a total of 8.14 acres however the proposed maps show only 5 total acres associated with the “mine”. In order for the Division to release disturbed acreage, it must go through the Acreage Release process and meet the reclamation requirements of the Rules and Regulations as well as the approved reclamation plan. The total “mine” area will still need to be the approved 8.14 acres. Please provide an updated Mining Plan and Reclamation Plan map with the current “mine” acreages.
5. It is observed that when reviewing the proposed Exhibit E – Mining Plan Map and Exhibit E - Reclamation Plan Map the Storage and Crushing Area is being increased from currently approved 0.62 acres to 3.25 acres. It should be noted that the purpose of the Technical Revision is to abate specifically the problem noted as a result of the Division’s inspection that occurred on August 28, 2023. An increase in permitted acreage would need to be address in a separate Technical Revision. Please provide an updated Mining Plan and Reclamation Plan map removing the proposed increased acreage to the Storage and Crushing Area.
6. Currently the Division holds a Financial Warranty in the amount of \$51,470 for this site. The bond was last recalculated with TR-1 which was issued on September 25, 2018. As part of the Technical Revision process, the Division has recalculated its reclamation cost estimate. The total amount associated with the updated reclamation cost estimate is \$86,599. This is an increase of \$35,129. Attached is the Division’s reclamation cost estimate for Sheehan Pit. The Division’s cost estimate is consistent with previous cost estimates approved by both the Division and C&B Sand and Gravel, Inc. If the Operator has any questions or comments regarding the increase to the required financial warranty, please provide a response to the Division as part of this Technical Revision adequacy review process.

If you have any questions, feel free to contact me.

Sincerely,

Zach Trujillo
Environmental Protection Specialist





COLORADO

**Division of Reclamation,
Mining and Safety**

Department of Natural Resources

(303) 866-3567 ext. 8164

Zach.Trujillo@state.co.us

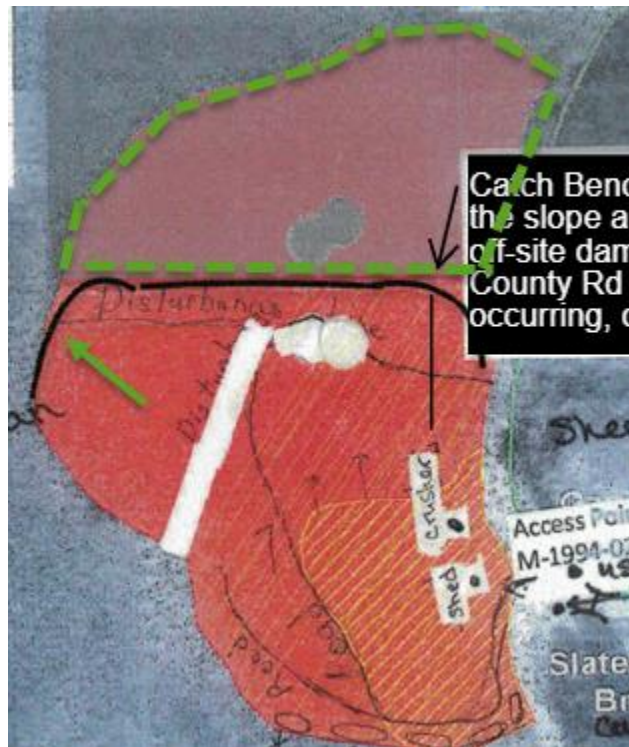
Physical Address: 1313 Sherman Street, Room 215, Denver, CO 80203 P 303.866.3567 F 303.832.8106
Mailing Address: DRMS Room 215, 1001 E 62nd Ave, Denver, CO 80216 <https://drms.colorado.gov>
Jared S. Polis, Governor | Dan Gibbs, Executive Director | Michael A. Cunningham, Acting Director





Figures

Figure 1

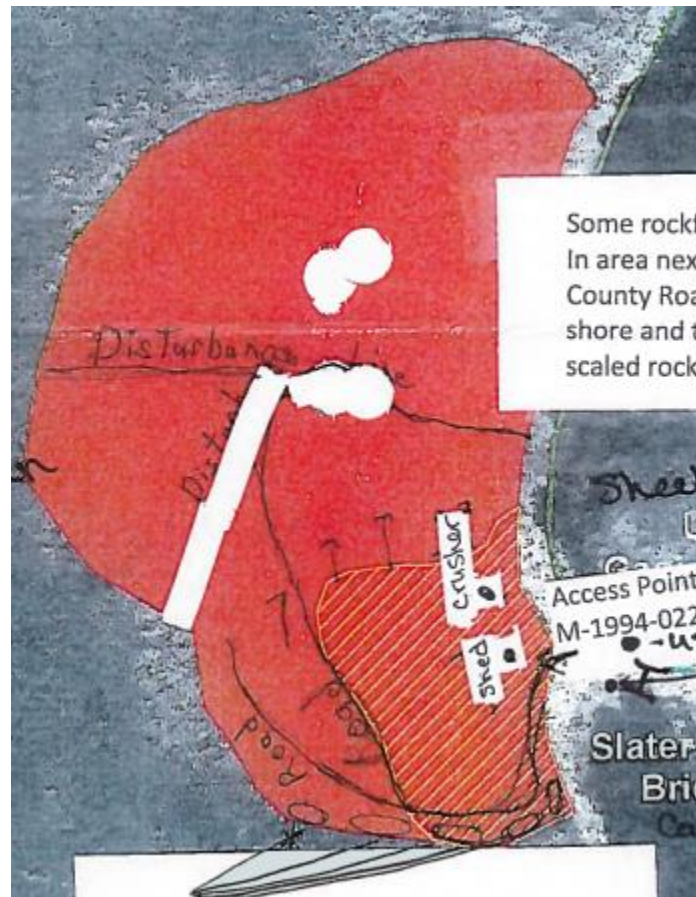


Proposed Map





Figure 2



Currently Approved Map



COST SUMMARY WORK

Task description: Reclaim Site

Site: Sheehan Pit

Permit Action: TR2

Permit/Job#: M2007058

PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 10/17/2023

County: Moffat

Filename: M058-000

User: ZTT

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Main- Slope Highwalls	DOZER	1	68.95	\$30,900
02a	Main-Distribute Topsoil	DOZER	1	16.83	\$7,455
03a	Main-Reveg disturbed area	REVEGE	1	8.00	\$21,076
04a	Stockpile- Rip	RIPPER	1	1.06	\$239
05a	Stockpile-Distribute Topsoil	DOZER	1	0.38	\$168
06a	Stockpile- Reveg disturbed area	REVEGE	1	2.00	\$1,464
07a	Initial Mobilization of Reclamation Equipment	MOBILIZE	1	6.80	\$5,280
08a	Secondary Mobilization of Reclamation Equipment	MOBILIZE	1	6.80	\$2,459
09a	Main-Remove Shed	DEMOLISH	1	2.00	\$233
<u>SUBTOTALS:</u>				112.82	\$69,274

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02

Total = \$1,399

Performance bond: 1.05

Total = \$727

Job superintendent: 56.41

Total = \$3,671

Profit: 10.00

Total = \$6,927

TOTAL O & P = \$12,725

CONTRACT AMOUNT (direct + O & P) = \$81,999

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): \$500

Total = \$500

Engineering work and/or contract/bid preparation: 0.00

Total = \$0

Reclamation management and/or administration: 5.00

\$4,100

CONTINGENCY: 0.00

Total = \$0

TOTAL INDIRECT COST = \$17,325

TOTAL BOND AMOUNT (direct + indirect) = \$86,599

BULLDOZER WORKTask description: Main- Slope HighwallsSite: Sheehan Pit Permit Action: TR2 Permit/Job#: M2007058**PROJECT IDENTIFICATION**

Task #: 01A State: Colorado Abbreviation: None
 Date: 10/17/2023 County: Moffat Filename: M058-01a
 User: ZTT

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:

		<u>Utilization %</u>
Ownership Cost/Hour:	<u>\$241.38</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$143.92</u>	<u>100</u>
Ripper own. Cost/Hour:	<u>\$14.11</u>	<u>NA</u>
Ripper op. Cost/Hour:	<u>\$7.45</u>	<u>100</u>
Operator Cost/Hour:	<u>\$41.30</u>	<u>NA</u>

Total unit Cost/Hour: \$448.16
 Total Fleet Cost/Hour: **\$448.16**

MATERIAL QUANTITIES

Initial Volume: 24,074
 Swell factor: 1.330
 Loose volume: **32,018 LCY**

Source of estimated volume: 40' H x 500'W and 60'H x 500'W benches 1:1 to 3:1 cut&fillSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**

Average push distance: 50 feet
 Unadjusted hourly production: 1,400.0 LCY/hr

Materials consistency description: Rock, avg. ripped or blasted 0.7

Average push gradient: 0 %
 Average site altitude: 6,630 feet

Material weight: 2,900 lbs/LCYWeight description: Decomposed rock - 50% Rock, 50% Earth**Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	<u>0.750</u>	<u>(AVG.)</u>
Material consistency:	<u>0.700</u>	<u>(CAT HB)</u>
Dozing method:	<u>1.200</u>	<u>(SLOT)</u>

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

Net correction: 0.3317

Adjusted unit production: 464.38 LCY/hr

Adjusted fleet production: **464.38** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.965/LCY

Total job time: **68.95** Hours

Total job cost: **\$30,900**

BULLDOZER WORKTask description: **Main-Distribute Topsoil**Site: **Sheehan Pit**Permit Action: **TR2**Permit/Job#: **M2007058****PROJECT IDENTIFICATION**Task #: **02A**State: **Colorado**Abbreviation: **None**Date: **10/17/2023**County: **Moffat**Filename: **M058-02a**User: **ZTT**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:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$241.38	NA
Operating Cost/Hour:	\$143.92	100
Ripper own. Cost/Hour:	\$14.11	NA
Ripper op. Cost/Hour:	\$2.24	30
Operator Cost/Hour:	\$41.30	NA

Total unit Cost/Hour: **\$442.95**Total Fleet Cost/Hour: **\$442.95****MATERIAL QUANTITIES**Initial Volume: **2,151**Swell factor: **1.000**Loose volume: **2,151 LCY**Source of estimated volume: **4" over 4 ac disturbed**Source of estimated swell factor: **Cat Handbook****HOURLY PRODUCTION**Average push distance: **150 feet**Unadjusted hourly production: **634.3 LCY/hr**Materials consistency description: **Rock, avg. ripped or blasted 0.7**Average push gradient: **15 %**Average site altitude: **6,630 feet**Material weight: **2,650 lbs/LCY**Weight description: **Decomposed rock - 25% Rock, 75% Earth****Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	0.700	(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:	0.666	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.868	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.2015

Adjusted unit production: 127.81 LCY/hr

Adjusted fleet production: **127.81** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$3.466/LCY

Total job time: **16.83** Hours

Total job cost: **\$7,455**

REVEGETATION WORKTask description: Main-Reveg disturbed areaSite: Sheehan PitPermit Action: TR2Permit/Job#: M2007058PROJECT IDENTIFICATIONTask #: 03AState: ColoradoAbbreviation: NoneDate: 10/17/2023County: MoffatFilename: M058-03aUser: ZTTAgency or organization name: DRMSFERTILIZING**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)	\$112.82
Total Tilling Cost/Acre	\$112.82

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Bluebunch Wheatgrass - Secar	10.00	32.14	\$108.75
Indian Ricegrass - Native	2.00	6.47	\$13.00
Crested Wheatgrass - Nordan	4.00	18.37	\$15.60
Western Wheatgrass - Native	5.80	14.65	\$34.80
Totals Seed Mix	21.80	71.63	\$172.15

Application

Description	Cost /Acre
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Hydro seeding (MEANS 32 92 19.14 0200)	\$1,313.33
Total Seed Application Cost/Acre	\$1,313.33

MULCHING and MISCELLANEOUS**Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - Curtail @ 4.0 pt/ac	1.00	ACRE	\$35.09	\$35.09
Hydromulch tackifier, <15 ac. {Materials Only}	1.00	ACRE	\$1,655.28	\$1,655.28
Silt fence, Materials (MEANS 31 25 14.16 1000)	40.00	LINEAR FOOT	\$0.64	\$25.60
Total Mulch Materials Cost/Acre				\$1,715.97

Application

Description	Cost /Acre
NA-mulch application incl. with hydroseeding	\$0.00
Silt fence, Labor + Maint for 6 months (MEANS 32 25 14.16 1100)	\$15.18
Weed spray, hand, non-aquatic area, nox. [DMG]	\$183.16
Total Mulch Application Cost/Acre	\$198.34

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: 4 Cost /Acre: \$3,512.61
 Estimated Failure Rate: 50% Cost /Acre*: \$3,512.61
 *Selected Replanting Work Items: TILLING,SEEDING,MULCHING

Initial Job Cost: **\$14,050.44**
 Reseeding Job Cost: **\$7,025.22**
 Total Job Cost: **\$21,076**
 Job Hours: **8.00**

BULLDOZER WORKTask description: **Stockpile-Distribute Topsoil**Site: **Sheehan Pit** Permit Action: **TR2** Permit/Job#: **M2007058****PROJECT IDENTIFICATION**

Task #: 05A State: Colorado Abbreviation: None
 Date: 10/17/2023 County: Moffat Filename: M058-05a
 User: ZTT

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:

		<u>Utilization %</u>
Ownership Cost/Hour:	<u>\$241.38</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$143.92</u>	<u>100</u>
Ripper own. Cost/Hour:	<u>\$14.11</u>	<u>NA</u>
Ripper op. Cost/Hour:	<u>\$2.24</u>	<u>30</u>
Operator Cost/Hour:	<u>\$41.30</u>	<u>NA</u>

Total unit Cost/Hour: \$442.95
 Total Fleet Cost/Hour: **\$442.95**

MATERIAL QUANTITIES

Initial Volume: 250
 Swell factor: 1.215
 Loose volume: **304 LCY**

Source of estimated volume: 3" over 0.62 ac disturbed
 Source of estimated swell factor: Cat Handbook

HOURLY PRODUCTION

Average push distance: 75 feet
 Unadjusted hourly production: 1,017.1 LCY/hr

Materials consistency description: Partly consolidated stockpile 1.1

Average push gradient: 0 %
 Average site altitude: 6,630 feet

Material weight: 1,600 lbs/LCYWeight description: Top Soil**Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	<u>0.750</u>	<u>(AVG.)</u>
Material consistency:	<u>1.100</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:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.7877

Adjusted unit production: 801.17 LCY/hr

Adjusted fleet production: **801.17** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.553/LCY

Total job time: **0.38** Hours

Total job cost: **\$168**

REVEGETATION WORKTask description: Stockpile- Reveg disturbed areaSite: Sheehan PitPermit Action: TR2Permit/Job#: M2007058**PROJECT IDENTIFICATION**Task #: 06AState: ColoradoAbbreviation: NoneDate: 10/17/2023County: MoffatFilename: M058-06aUser: ZTTAgency 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)	\$112.82
Total Tilling Cost/Acre	\$112.82

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Native	1.00	3.24	\$6.50
Western Wheatgrass - Native	2.90	7.32	\$17.40
Needlegrass, Green - Lodorm	5.50	22.85	\$64.76
Basin Wildrye - Trailhead	1.00	4.06	\$15.41
Totals Seed Mix	10.40	37.48	\$104.07

Application

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

MULCHING and MISCELLANEOUS**Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Hay, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$429.79	\$859.57
Herbicide - Curtail @ 4.0 pt/ac	1.00	ACRE	\$35.09	\$35.09
Total Mulch Materials Cost/Acre				\$894.66

Application

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$74.46
Power mulcher (MEANS 32 91 13.16 0350)	\$147.67
Weed spray, hand, non-aquatic area, nox. [DMG]	\$183.16
Total Mulch Application Cost/Acre	\$405.29

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: 0.62 Cost /Acre: \$1,748.84
 Estimated Failure Rate: 35% Cost /Acre*: \$1,748.84
 *Selected Replanting Work Items: TILLING,SEEDING,MULCHING

Initial Job Cost: **\$1,084.28**
 Reseeding Job Cost: **\$379.50**
 Total Job Cost: **\$1,464**
 Job Hours: **2.00**

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Initial Mobilization of Reclamation Equipment**Site: **Sheehan Pit**Permit Action: **TR2**Permit/Job#: **M2007058****PROJECT IDENTIFICATION**Task #: **07A**State: **Colorado**Abbreviation: **None**Date: **10/17/2023**County: **Moffat**Filename: **C**User: **ZTT**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:	\$20.26	\$36.04	\$47.05
Operating Cost/Hour:	\$39.51	\$76.08	\$82.85
Operator Cost/Hour:	\$22.52	\$22.52	\$22.52
Helper Cost/Hour:	\$0.00	\$23.53	\$23.53
Total Unit Cost/Hour:	\$82.29	\$158.17	\$175.95

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	\$255.49	\$175.95	1	\$431.44	\$175.95	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$6.73	\$82.29	1	\$89.02	\$82.29	\$250.00
Power Mulcher (Bowie LD-90)	6.00	\$25.94	\$82.29	1	\$108.23	\$82.29	\$250.00

Subtotals: **\$628.69** **\$340.53** **\$750.00****ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Hydroseeder with Tractor	\$54.30	1	\$54.30	\$54.30
Light Duty Pickup, 4x4, 1 T. Crew	\$27.44	1	\$27.44	\$27.44

Subtotals: **\$81.74** **\$81.74**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	<u>CRAIG, CO</u>	
Total one-way travel distance:	<u>60.00</u>	miles
Average Travel Speed:	<u>50.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$5,083.51</u>
'* two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	<u>\$196.18</u>
** one round trip, no haul rig:	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>1.20</u>	<u>1.20</u>
Return Time (Hours):	<u>1.20</u>	<u>1.20</u>
Loading Time (Hours):	<u>0.50</u>	<u>NA</u>
Unloading Time (Hours):	<u>0.50</u>	<u>NA</u>
Subtotals:	<u>3.40</u>	<u>2.40</u>

JOB TIME AND COST

Total job time:	<u>6.80</u>	Hours
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Total job cost:	<u>\$5,280</u>
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EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Secondary Mobilization of Reclamation Equipment**Site: **Sheehan Pit**Permit Action: **TR2**Permit/Job#: **M2007058****PROJECT IDENTIFICATION**Task #: **08A**State: **Colorado**Abbreviation: **None**Date: **10/17/2023**County: **Moffat**Filename: **M058-08a**User: **ZTT**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:	\$20.26	\$36.04	\$47.05
Operating Cost/Hour:	\$39.51	\$76.08	\$82.85
Operator Cost/Hour:	\$22.52	\$22.52	\$22.52
Helper Cost/Hour:	\$0.00	\$23.53	\$23.53
Total Unit Cost/Hour:	\$82.29	\$158.17	\$175.95

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	\$6.73	\$82.29	1	\$89.02	\$82.29	\$250.00
Power Mulcher (Bowie LD-90)	6.00	\$25.94	\$82.29	1	\$108.23	\$82.29	\$250.00
Subtotals:					\$197.25	\$164.58	\$500.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Hydroseeder with Tractor	\$54.30	1	\$54.30	\$54.30
Light Duty Pickup, 4x4, 1 T. Crew	\$27.44	1	\$27.44	\$27.44
Subtotals:			\$81.74	\$81.74

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	<u>CRAIG, CO</u>	
Total one-way travel distance:	<u>60.00</u>	miles
Average Travel Speed:	<u>50.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$2,262.89</u>
** two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	<u>\$196.18</u>
** one round trip, no haul rig:	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>1.20</u>	<u>1.20</u>
Return Time (Hours):	<u>1.20</u>	<u>1.20</u>
Loading Time (Hours):	<u>0.50</u>	<u>NA</u>
Unloading Time (Hours):	<u>0.50</u>	<u>NA</u>
Subtotals:	<u>3.40</u>	<u>2.40</u>

JOB TIME AND COST

Total job time:	<u>6.80</u>	Hours
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Total job cost:	<u>\$2,459</u>
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DEMOLITION WORK

Task description: Main-Remove Shed

Site: Sheehan Pit

Permit Action: TR2

Permit/Job#: M2007058

PROJECT IDENTIFICATION

Task #: 09A

State: Colorado

Abbreviation: None

Date: 10/17/2023

County: Moffat

Filename: M058-09a

User: ZTT

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
Shed	10' x 8' x 8'	Bldg. (SN) demo./off-site disposal in approved landfill - Max. 15 mile haul	640.00	CF	\$0.38	\$244.10

Job Hours: 2.00

Subtotal
(unadjusted): \$244.10

Total Cost
(adjusted for location): \$233.12