



February 27, 2024

Andy Azacarraga
M.A. Concrete Construction, Inc.
2323 River Road
Grand Junction, CO 81505

RE: 20 Road Gravel Pit, Permit No. M-2005-061, Proposed Surety Increase SI-1

Dear Mr. Azcarraga:

This reclamation cost update was in response to the site inspection conducted on February 13, 2024. It is Division policy to periodically update its costs to ensure that the Financial Warranty adequately, reflects the actual current cost of fulfilling the requirements of the approved reclamation plan.

Below is a table summarizing input values that have been updated. This table does not account for price changes resulting from inflation or other RS Means cost changes. Bond calculations are based on a combination of field observations and worst case scenario based on the approved reclamation plan.

| Task | Form Used | Description |
|------|-----------|---|
| 01 | Pumping | Dewater Pit – Update to 7 ac pit Prev: Up to a 9.3 ac pit 15 ft f water |
| 02a | Demo | Add demo of Scale and Scale house Load/carry into pit 800ft away |
| 03a | Dozer | Grading highwalls = 28,667 BCY 2400 LF of 1.5H: 1V going to 3H: 1V cut/fill @ 40'H = 26,667 BCY Misc. grading of stockpiles and general shaping = 2,000 CCY Prev: Backfill North area 4.6 ac and 1.8 ac (900' x 75' x 20' H = 50K CCY) and then grade highwalls 2300 LD 20'H backfill (51,111 CCY) |
| N/A | Borehole | Removed sealing 3 monitoring wells, never drilled |
| 04a | Ripper | Decompact affected land 13 ac (20 ac – 7ac pond) |



| | | |
|-----|--------|--|
| 05a | Loader | Transport topsoil 6" @ 13ac = 10,487 CCY *rec plan states 8" |
| 05b | Dozer | Spread transported topsoil 12,742 LCY |
| 06a | Reveg | Reveg Seed Mix A (North Area) = 7.7 ac flat areas 9.5 -1.8 ac not yet affected |
| 06b | Reveg | Reveg Seed Mix B (South Area) = 5.3 ac slopes 8.17 -2.87 not yet affected |
| 10a | Mob | Mobilize Equipment 1 X Loader 3 CY 2x Dump truck 12CY 1x Excavator 1.5 CY 2 x D8 Dozer Tractor-drill seeder Power mulcher 8" Submersible Pump |
| 10b | Mob | Add secondary mobilization |

Per policy I wanted to send this out for review prior to issuance. Please look it over and let me know if there are errors or concerns. If no response is received by Monday, April 1, 2024 then I'll issue SI-1 as is. SI-1 will result in a total required bond amount of \$152,261, which is an increase of \$31,677 over the \$120,584 currently held.

Sincerely,



Amy Yeldell
Environmental Protection Specialist

Ec: Travis Marshall, Senior EPS, Grand Junction DRMS

COST SUMMARY WORK

Task description: Post inspection update

Site: 20 Road Gravel Pit

Permit Action: 2-2024

Permit/Job#: M2005061

PROJECT IDENTIFICATION

Task #: ACY

State: Colorado

Abbreviation: None

Date: 2/26/2024

County: Mesa

Filename: M061-ACY

User: ACY

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

| Task | Description | Form Used | Fleet Size | Task Hours | Cost |
|--------------------------|-------------------------------------|-----------|------------|---------------|------------------|
| 01a | Dewater Pit | PUMPING | 1 | 190.30 | \$9,319 |
| 02a | Demo Scale house | DEMOLISH | 1 | 3.00 | \$755 |
| 03a | Regrade highwalls to 3H: 1V or less | DOZER | 2 | 56.38 | \$47,959 |
| 04a | Decompact affected lands | RIPPER | 2 | 10.46 | \$9,353 |
| 05a | Transport topsoil | LOADER | 1 | 46.53 | \$6,980 |
| 05b | Spread transported topsoil | DOZER | 2 | 6.54 | \$5,561 |
| 06a | Reveg Seed Mix A @ 7.7 ac | REVEGE | 1 | 12.50 | \$19,064 |
| 06b | Reveg Seed Mix B @ 5.3 ac | REVEGE | 1 | 8.50 | \$14,061 |
| 10a | Initial Mobilization | MOBILIZE | 1 | 3.33 | \$8,420 |
| 10b | Secondary Mobilization | MOBILIZE | 1 | 3.33 | \$1,751 |
| <u>SUBTOTALS:</u> | | | | 340.87 | \$123,223 |

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02

Total = \$2,489

Performance bond: 1.05

Total = \$1,294

Job superintendent: 80.00

Total = \$5,206

Profit: 10.00

Total = \$12,322

TOTAL O & P = \$21,312

CONTRACT AMOUNT (direct + O & P) = \$144,535

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

\$7,227

CONTINGENCY: 0.00

Total = \$0

TOTAL INDIRECT COST = \$29,038

TOTAL BOND AMOUNT (direct + indirect) = \$152,261

PUMPING WORK

Task description: Dewater Pit

Site: 20 Road Gravel Pit

Permit Action: 2-2024

Permit/Job#: M2005061

PROJECT IDENTIFICATION

Task #: 01A

State: Colorado

Abbreviation: None

Date: 2/26/2024

County: Mesa

Filename: M061-01a

User: ACY

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

| | Description | Quantity |
|-----------------|------------------------------------|----------|
| Make and Model: | Submersible pump - 460v, 8 in. | 1 |
| Attachment 1: | Suction hose - 6 in. diam., 25 ft. | 2 |
| Attachment 2: | Discharge hose - 4 in. D., 25 ft. | 4 |
| Labor Unit 1: | Pump operator | 1 |

Horsepower: 95

Shift Basis: 1 per day

Weight: 0.70

(US Tons)

Cost Breakdown:

| | | Utilization % |
|-----------------------|---------|---------------|
| Ownership Cost/Hour: | \$16.70 | NA |
| Operating Cost/Hour: | \$4.04 | 100 |
| Operator Cost/Hour: | \$28.23 | NA |
| Total Unit Cost/Hour: | \$48.97 | |

Total Fleet Cost/Hour: \$48.97

PUMPING QUANTITIES

| | | | | |
|------------------------------------|----------------------|---------|----------------------------------|--------------------|
| Initial Pond Volume: | <u>105.00</u> | | Conversion factor: | <u>325850.5800</u> |
| Final Pond Volume: | <u>34,214,310.90</u> | gallons | | |
| Total Pond Inflow Surface Area: | <u>4,500</u> | Sq. ft. | Unit inflow rate in gph/sq. ft.: | <u>0.1758</u> |
| Total Pond Inflow Volume per Hour: | <u>791.10</u> | gallons | | |

Source of estimated volume: 7 ac Pit with 15 ft of water

PUMPING TIME

| | | |
|----------------------------------|----------------|---------------|
| Maximum Pump Capacity: | <u>170,000</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>165,600</u> | gph/pump |
| Site Altitude: | <u>4,500</u> | feet |
| Adjusted Pumping Capacity: | <u>165,600</u> | gph |
| Initial Unadjusted Pumping Time: | <u>206.61</u> | hours |
| Inflow during Initial Pumping: | <u>163,448</u> | gallons |
| Net Unadjusted Pumping Time: | <u>207.60</u> | Hours |
| Altitude Adjustment Factor: | <u>1.0000</u> | (3% rule) |
| Pump Efficiency Factor: | <u>0.9167</u> | (55 min./hr.) |
| Total Adjusted Pumping Time: | <u>190.30</u> | hours |

JOB TIME AND COST

Total job time: 190.30 Hours

Unit cost: \$0.000271 /Gallon

Total job cost: \$9,319

DEMOLITION WORK

Task description: **Demo Scale house**

Site: **20 Road Gravel Pit**

Permit Action: 2-2024

Permit/Job#: M2005061

PROJECT IDENTIFICATION

Task #: 02A

State: Colorado

Abbreviation: None

Date: 2/26/2024

County: Mesa

Filename: M061-02a

User: ACY

Agency or organization name: DRMS

UNIT COSTS

Location adjustment: 89.80 %

| Structure or Item Description | Dimensions | Demolition Menu Selection | Quantity | Unit | Unit Cost | Total Cost |
|--------------------------------------|-------------------|--|-----------------|-------------|------------------|-------------------|
| Scale house | 10 x10 x10 | Bldg. (SN) demo./on-site disposal in existing pit or cut - Max. 10,000 ft. haul | 1,000.00 | CF | \$0.24 | \$237.50 |
| Scale footers | 20 x 3 x 2 | Demo. and on-site disposal in existing pit, 2.0 ft. x 3 ft. - Max. 10,000 ft. haul | 40.00 | LF | \$15.09 | \$603.44 |

Job Hours: **3.00**

Subtotal
(unadjusted): **\$840.94**

Total Cost
(adjusted for location): **\$755.16**

BULLDOZER WORKTask description: **Regrade highwalls to 3H: 1V or less**Site: **20 Road Gravel Pit**Permit Action: 2-2024Permit/Job#: M2005061**PROJECT IDENTIFICATION**Task #: 03AState: ColoradoAbbreviation: NoneDate: 2/26/2024County: MesaFilename: M061-03aUser: ACYAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D8T - 8SUHorsepower: 310Blade Type: Semi-UniversalAttachment: NAShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

| | | <u>Utilization %</u> |
|------------------------|----------|----------------------|
| Ownership Cost/Hour: | \$241.38 | NA |
| Operating Cost/Hour: | \$143.92 | 100 |
| Ripper own. Cost/Hour: | \$0.00 | NA |
| Ripper op. Cost/Hour: | \$0.00 | 0 |
| Operator Cost/Hour: | \$40.04 | NA |

Total unit Cost/Hour: \$425.34Total Fleet Cost/Hour: **\$850.67****MATERIAL QUANTITIES**Initial Volume: 28,667Swell factor: 1.220Loose volume: **34,974 LCY**Source of estimated volume: Division of Reclamation, Mining & SafetySource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 150 feetUnadjusted hourly production: 634.3 LCY/hrMaterials consistency description: Compacted fill or embankment 0.9Average push gradient: -15 %Average site altitude: 4,500 feetMaterial weight: 2,800 lbs/LCYWeight description: Clay - Natural bed**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: | 1.329 | (CAT HB) |
| Altitude: | 1.000 | (CAT HB) |
| Material Weight: | 0.821 | (CAT HB) |
| Blade type: | 1.000 | (PAT) |

Net correction: 0.4890

Adjusted unit production: 310.17 LCY/hr

Adjusted fleet production: **620.34** LCY/hr

JOB TIME AND COST

Fleet size: 2 Dozer(s)

Unit cost: \$1.371/LCY

Total job time: **56.38** Hours

Total job cost: **\$47,959**

BULLDOZER RIPPING WORK

Task description: Decompact affected lands

Site: 20 Road Gravel Pit Permit Action: 2-2024 Permit/Job#: M2005061

PROJECT IDENTIFICATION

Task #: 04A State: Colorado Abbreviation: None
Date: 2/26/2024 County: Mesa Filename: M061-04a
User: ACY

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

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

Cost Breakdown:

| | | Utilization % |
|-----------------------------|-----------------|---------------|
| Ownership Cost/Hour: | \$241.38 | NA |
| Operating Cost/Hour: | \$143.92 | 100 |
| Ripper Ownership Cost/Hour: | \$14.11 | NA |
| Ripper Operating Cost/Hour: | \$7.45 | 100 |
| Operator Cost/Hour: | \$40.04 | NA |
| Total Unit Cost/Hour: | \$446.90 | |
| Total Fleet Cost/Hour: | \$893.79 | |

MATERIAL QUANTITIES

Selected estimating method: Area

Alternate Methods:

Seismic: NA Bank Volume: NA BCY NA
Area: 13.00 acres Rip Depth (ft): 2.00 Volume: 41,947 BCY or CCY

Source of estimated quantity: Staff estimates 20 ac w 7 ac pond

HOURLY PRODUCTION

Seismic:

Seismic Velocity: NA feet/second

Area:

Average Ripping Depth: 2.56 feet/pass
Average Ripping Width: 7.08 feet/pass
Average Ripping Length: 150.00 feet/pass
Average Dozer Speed: 88.00 feet/minute
Average Maneuver Time: 0.25 minutes/pass
Production per unit area: 0.748 acres/hour

Job Condition Correction Factors

Unadjusted Hourly Unit Production: 0.748 Acres/hr
Site Altitude: 4,500 feet
Altitude Adj: 1.00 (CAT HB)
Job Efficiency: 0.83 (1 shift/day)
Net Correction: 0.83 multiplier

Adjusted Hourly Unit Production: 0.62 Acres/hr
Adjusted Hourly Fleet Production: **1.24** Acres/hr

JOB TIME AND COST

Fleet size: 2 Grader(s) Total job time: **10.46** Hours

Unit cost: \$719.433 Per acre Total job cost: **\$9,353**

BULLDOZER WORKTask description: Spread transported topsoilSite: 20 Road Gravel PitPermit Action: 2-2024Permit/Job#: M2005061**PROJECT IDENTIFICATION**Task #: 05BState: ColoradoAbbreviation: NoneDate: 2/26/2024County: MesaFilename: M061-05bUser: ACYAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D8T - 8SUHorsepower: 310Blade Type: Semi-UniversalAttachment: NAShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

| | | <u>Utilization %</u> |
|------------------------|----------|----------------------|
| Ownership Cost/Hour: | \$241.38 | NA |
| Operating Cost/Hour: | \$143.92 | 100 |
| Ripper own. Cost/Hour: | \$0.00 | NA |
| Ripper op. Cost/Hour: | \$0.00 | 0 |
| Operator Cost/Hour: | \$40.04 | NA |

Total unit Cost/Hour: \$425.34Total Fleet Cost/Hour: \$850.67**MATERIAL QUANTITIES**Initial Volume: 12,742Swell factor: 1.000Loose volume: 12,742 LCYSource of estimated volume: Division of Reclamation, Mining & SafetySource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 75 feetUnadjusted hourly production: 1,017.1 LCY/hrMaterials consistency description: Loose stockpile 1.2Average push gradient: -5 %Average site altitude: 4,500 feetMaterial weight: 1,600 lbs/LCYWeight description: Top Soil**Job 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: | 1.115 | (CAT HB) |
| Altitude: | 1.000 | (CAT HB) |
| Material Weight: | 1.438 | (CAT HB) |
| Blade type: | 1.000 | (PAT) |

Net correction: 0.9582

Adjusted unit production: 974.59 LCY/hr

Adjusted fleet production: **1949.18** LCY/hr

JOB TIME AND COST

Fleet size: 2 Dozer(s)

Unit cost: \$0.436/LCY

Total job time: **6.54** Hours

Total job cost: **\$5,561**

REVEGETATION WORKTask description: Reveg Seed Mix A @ 7.7 acSite: 20 Road Gravel PitPermit Action: 2-2024Permit/Job#: M2005061**PROJECT IDENTIFICATION**Task #: 06AState: ColoradoAbbreviation: NoneDate: 2/26/2024County: MesaFilename: M061-06aUser: ACYAgency or organization name: DRMS**FERTILIZING****Materials**

| Description | Units / Acre | Unit | Cost / Unit | Cost /Acre |
|------------------------------|-----------------|-------|---|-----------------|
| Composted manure DRMS Survey | 1,000.00 | pound | \$0.43 | \$425.00 |
| | | | Total Fertilizer Materials Cost/Acre | \$425.00 |

Application

| Description | Cost /Acre |
|---|----------------|
| Manure, tractor spreader (MEANS 32 91 13.23 4450) | \$74.49 |
| Total Fertilizer Application Cost/Acre | \$74.49 |

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 - Paloma | 3.00 | 9.71 | \$33.38 |
| Galleta | 2.00 | 7.30 | \$44.70 |
| Saltbush, Gardner | 2.00 | 5.10 | \$22.75 |
| Globemallow, Scarlet (or copper) | 0.50 | 5.66 | \$67.75 |
| Timothy - Climax | 2.00 | 57.39 | \$3.20 |
| Totals Seed Mix | 9.50 | 85.16 | \$171.78 |

Application

| Description | Cost /Acre |
|-------------|------------|
|-------------|------------|

| | |
|---|-----------------|
| 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 |
|---|-----------------|------|-------------|-----------------|
| Herbicide - 2,4D @ 1.0 pt/ac | 1.00 | ACRE | \$4.01 | \$4.01 |
| Straw, delivered {MEANS 31 25 14.16 1200} | 1.00 | TON | \$429.79 | \$429.79 |
| Total Mulch Materials Cost/Acre | | | | \$433.79 |

Application

| Description | Cost /Acre |
|---|-----------------|
| Crimping, with tractor {DMG survey data} | \$74.46 |
| Power mulcher (MEANS 32 91 13.16 0350) | \$147.67 |
| Weed spray, truck, non-aquatic area, nox. [DMG] | \$62.72 |
| Total Mulch Application Cost/Acre | \$284.85 |

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: 7.7 Cost /Acre: \$1,734.73
 Estimated Failure Rate: 60% Cost /Acre*: \$1,235.24
 *Selected Replanting Work Items: TILLING,SEEDING,MULCHING

Initial Job Cost: **\$13,357.42**
 Reseeding Job Cost: **\$5,706.81**
 Total Job Cost: **\$19,064**
 Job Hours: **12.50**

REVEGETATION WORKTask description: Reveg Seed Mix B @ 5.3 acSite: 20 Road Gravel PitPermit Action: 2-2024Permit/Job#: M2005061**PROJECT IDENTIFICATION**Task #: 06BState: ColoradoAbbreviation: NoneDate: 2/26/2024County: MesaFilename: M061-06bUser: ACYAgency or organization name: DRMS**FERTILIZING****Materials**

| Description | Units / Acre | Unit | Cost / Unit | Cost /Acre |
|------------------------------|-----------------|-------|---|-----------------|
| Composted manure DRMS Survey | 1,000.00 | pound | \$0.43 | \$425.00 |
| | | | Total Fertilizer Materials Cost/Acre | \$425.00 |

Application

| Description | Cost /Acre |
|---|----------------|
| Manure, tractor spreader (MEANS 32 91 13.23 4450) | \$74.49 |
| Total Fertilizer Application Cost/Acre | \$74.49 |

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 |
|----------------------------------|--------------------------------|------------------------|------------|
| Arrowleaf Balsamroot | 0.25 | 0.31 | \$17.55 |
| Indian Ricegrass - Paloma | 1.00 | 3.24 | \$11.13 |
| Galleta | 2.00 | 7.30 | \$44.70 |
| Rabbitbrush, Rubber | 0.12 | 1.79 | \$7.72 |
| Sage, Fringed | 0.06 | 5.01 | \$2.46 |
| Sagebrush, Mountain or Big | 0.12 | 6.34 | \$2.37 |
| Saltbush, Gardner | 2.00 | 5.10 | \$22.75 |
| Globemallow, Scarlet (or copper) | 0.50 | 5.66 | \$67.75 |
| Timothy - Climax | 2.00 | 57.39 | \$3.20 |
| Yarrow, Western | 0.12 | 7.30 | \$5.02 |
| | | | |

| | | | |
|------------------------|------|-------|-----------------|
| Totals Seed Mix | 8.17 | 99.43 | \$184.64 |
|------------------------|------|-------|-----------------|

Application

| Description | Cost /Acre |
|---|-------------------|
| 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 |
|---|-------------------------|-------------|--------------------|-------------------|
| Herbicide - 2,4D @ 1.0 pt/ac | 1.00 | ACRE | \$4.01 | \$4.01 |
| Herbicide - Curtail @ 4.0 pt/ac | 1.00 | ACRE | \$35.09 | \$35.09 |
| Straw, delivered {MEANS 31 25 14.16 1200} | 1.00 | TON | \$429.79 | \$429.79 |
| Total Mulch Materials Cost/Acre | | | | \$468.88 |

Application

| Description | Cost /Acre |
|---|-------------------|
| Crimping, with tractor {DMG survey data} | \$74.46 |
| Power mulcher (MEANS 32 91 13.16 0350) | \$147.67 |
| Weed spray, truck, aquatic area, nox. [DMG] | \$62.72 |
| Weed spray, truck, non-aquatic area, nox. [DMG] | \$62.72 |
| Total Mulch Application Cost/Acre | \$347.57 |

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: | 5.3 | Cost /Acre: | \$1,845.40 |
| Estimated Failure Rate: | 60% | Cost /Acre*: | \$1,345.91 |
| *Selected Replanting Work Items: | TILLING,SEEDING,MULCHING | | |
| Initial Job Cost: | \$9,780.62 | | |
| Reseeding Job Cost: | \$4,279.99 | | |
| Total Job Cost: | \$14,061 | | |
| Job Hours: | 8.50 | | |

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Initial Mobilization**Site: **20 Road Gravel Pit**Permit Action: **2-2024**Permit/Job#: **M2005061****PROJECT IDENTIFICATION**

Task #: **10A** State: **Colorado** Abbreviation: **None**
 Date: **2/27/2024** County: **Mesa** Filename: **M061-10a**
 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: | \$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 972H | 28.00 | \$57.78 | \$158.17 | 1 | \$215.95 | \$158.17 | \$250.00 |
| Cat 312D L 9'-2" Stick | 14.83 | \$61.84 | \$82.29 | 1 | \$144.13 | \$82.29 | \$250.00 |
| Cat D8T - 8SU | 53.08 | \$255.49 | \$175.95 | 2 | \$862.88 | \$351.90 | \$500.00 |
| 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 |
| Submersible pump - 460v, 8 in. | 0.70 | \$15.28 | \$82.29 | 1 | \$97.57 | \$82.29 | \$250.00 |

Subtotals: **\$1,517.78** **\$839.23** **\$1,750.00****ROADABLE EQUIPMENT:**

| Machine Description | Total Cost/hr/ unit | Fleet Size | Haul Trip Cost/hr/ fleet | Return Trip Cost/hr/ fleet |
|-----------------------------------|------------------------|------------|-----------------------------|-------------------------------|
| Generic 12-18 cy, 6x4 | \$115.97 | 2 | \$231.94 | \$231.94 |
| Light Duty Pickup, 4x4, 1 T. Crew | \$100.24 | 1 | \$100.24 | \$100.24 |
| Light Duty Pickup, 4x4, 3/4 T. | \$72.29 | 1 | \$72.29 | \$72.29 |

| | | | | |
|-----------------------------|---------|---|-----------------|-----------------|
| Flatbed Truck, 4x2, 30K GVW | \$64.45 | 1 | \$64.45 | \$64.45 |
| Subtotals: | | | \$468.92 | \$468.92 |

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region: GRAND JUNCTION

Total one-way travel distance: 10.00 miles

Average Travel Speed: 30.00 mph

Total Non-Roadable Mob/Demob Cost * \$8,106.90

 '* two round trips with haul rig:

Total Roadable Mob/Demob Cost ** \$312.61

 ** one round trip, no haul rig:

Transportation Cycle Time:

| | Non-Roadable Equipment | Roadable Equipment |
|-------------------------|------------------------|--------------------|
| Haul Time (Hours): | <u>0.33</u> | <u>0.33</u> |
| Return Time (Hours): | <u>0.33</u> | <u>0.33</u> |
| Loading Time (Hours): | <u>0.50</u> | <u>NA</u> |
| Unloading Time (Hours): | <u>0.50</u> | <u>NA</u> |
| Subtotals: | <u>1.67</u> | <u>0.67</u> |

JOB TIME AND COST

Total job time: 3.33 Hours

Total job cost: \$8,420

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Secondary Mobilization**Site: **20 Road Gravel Pit**Permit Action: **2-2024**Permit/Job#: **M2005061****PROJECT IDENTIFICATION**Task #: **10B**State: **Colorado**Abbreviation: **None**Date: **2/27/2024**County: **Mesa**Filename: **M061-10b**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: | \$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 |
|--------------------------------------|------------------------|------------|-----------------------------|-------------------------------|
| Light Duty Pickup, 4x4, 1 T. Crew | \$100.24 | 1 | \$100.24 | \$100.24 |
| Light Duty Pickup, 4x4, 3/4 T. | \$72.29 | 1 | \$72.29 | \$72.29 |
| Subtotals: | | | \$172.53 | \$172.53 |

EQUIPMENT HAUL DISTANCE and Time

| | | |
|--|-----------------------|-------|
| Nearest Major City or Town within project area region: | <u>GRAND JUNCTION</u> | |
| Total one-way travel distance: | <u>10.00</u> | miles |
| Average Travel Speed: | <u>30.00</u> | mph |

| | |
|-------------------------------------|-------------------|
| Total Non-Roadable Mob/Demob Cost * | <u>\$1,635.72</u> |
| ** two round trips with haul rig: | |
| Total Roadable Mob/Demob Cost ** | <u>\$115.02</u> |
| ** one round trip, no haul rig: | |

Transportation Cycle Time:

| | Non-Roadable Equipment | Roadable Equipment |
|-------------------------|------------------------|--------------------|
| Haul Time (Hours): | <u>0.33</u> | <u>0.33</u> |
| Return Time (Hours): | <u>0.33</u> | <u>0.33</u> |
| Loading Time (Hours): | <u>0.50</u> | <u>NA</u> |
| Unloading Time (Hours): | <u>0.50</u> | <u>NA</u> |
| Subtotals: | <u>1.67</u> | <u>0.67</u> |

JOB TIME AND COST

| | | |
|-----------------|-------------|-------|
| Total job time: | <u>3.33</u> | Hours |
|-----------------|-------------|-------|

| | |
|-----------------|----------------|
| Total job cost: | <u>\$1,751</u> |
|-----------------|----------------|