

May 26, 2022

Russell A. Larsen Grand Junction Pipe & Supply Co. 556 Struthers Ave. Grand Junction, CO 81501-3826

Re: 23 Road Pit - File No. M-1979-089 Grand Junction Pipe & Supply Co. Technical Revision Application (TR-8) Update Reclamation Plan

Dear Russell A. Larsen:

On May 26, 2022 the Division of Reclamation, Mining and Safety concluded its review of the Technical Revision application submitted to the Division on May 11, 2022, addressing the following:

Update reclamation plan to reconfigure lakes and clarify remaining tasks related to bonding

The decision reached by the Division is: approve. Reclamation plan revised to align with current site conditions. Bond increased based on revised figures. Operator provided an estimate for review prior to issuance, no objections/adjustments made.

The terms of Technical Revision No. 8 approved by the Division are hereby incorporated into Permit No. M-1979-089. All other conditions and requirements of Permit No. M-1979-089 remain in full force and effect.

The revised liability amount exceeds the financial warranty currently held (see below), please submit additional bond or a rider to your existing bond that equals or exceeds the Revised Liability. The revision will not be final until the bond is approved by the Division.

| Bond Held: | \$242,500.00 |
|---------------------------|--------------|
| Prior Liability: | \$242,500.00 |
| Change in Liability: | \$38,373.00 |
| Revised Liability: | \$280,873.00 |
| Prior Permit Acreage: | 82.00 |
| Change in Permit Acreage: | 0.00 |
| Revised Permit Acreage: | 82.00 |



| Prior Affected Acreage: | 89.00 |
|-----------------------------|-------|
| Change in Affected Acreage: | 0.00 |
| Revised Affected Acreage: | 89.00 |

If you have any questions, please contact me by telephone at $(303)\ 866-3567\ x\ 8183$, or by email at Amy.yeldell@state.co.us.

Sincerely,

Amy C. Yeldell

Environmental Protection Specialist

cc: Jon Mueller

Amy Geldell

COST SUMMARY WORK

| Task description: | | Updated per TR | - Figures pr | ovided | | | |
|-------------------|----------------|-----------------|-----------------------------|----------|--|---------------|---------------------|
| Site: | e: 23 Road Pit | | oad Pit Permit Action: TR-8 | | | | b#: <u>M1979089</u> |
| <u>P</u> : | ROJECT | <u>IDENTIFI</u> | <u>CATION</u> | | | | |
| | Task #: | ACY | State: | Colorado | | Abbreviation: | None |
| | Date: | 5/16/2022 | County: | Mesa | | Filename: | M089-ACY |
| | User: | ACY | | | | | |
| | Age | ency or organ | ization name: DF | RMS | | | |

TASK LIST (DIRECT COSTS)

| Task | Description | Form Used | Fleet Size | Task Hours | Cost |
|------|--|--------------|---------------|---------------|-----------|
| 01a | Remove Structures and Debris from site | DEMOLISH | 1 | 8.00 | \$1,246 |
| 02a | Pond 2 - Dewater prior to slope grading | PUMPING | 1 | 35.61 | \$5,469 |
| 02b | Pond 2 - Grade slopes to 3H:1V | DOZER | 2 | 4.40 | \$2,071 |
| 02c | Pond 2 - Transport topsoil | LOADER | 1 | 14.69 | \$2,308 |
| 02d | Pond 2 - Grade half of transported topsoil | DOZER | 2 | 0.39 | \$186 |
| 02e | Pond 2 - Reveg | REVEGE | 1 | 2.00 | \$4,904 |
| 03a | Pond 3 - Dewater prior to slope grading | PUMPING | 1 | 38.86 | \$5,967 |
| 03b | Pond 3 - Grade slopes to 3H:1V | DOZER | 2 | 2.35 | \$1,106 |
| 03c | Pond 3 - Transport topsoil | LOADER | 1 | 13.68 | \$2,150 |
| 03d | Pond 3 - Grade half of transported topsoil | DOZER | 2 | 0.37 | \$173 |
| 03e | Pond 3 - Reveg | REVEGE | 1 | 2.00 | \$4,616 |
| 04a | Pond 4 - Dewater prior to slope grading | PUMPING | 1 | 80.68 | \$12,388 |
| 04b | Pond 4 - Grade slopes to 3H:1V | DOZER | 2 | 53.04 | \$24,943 |
| 04c | Pond 4 - Transport topsoil | LOADER | 1 | 59.40 | \$9,331 |
| 04d | Pond 4 - Grade half of transported topsoil | DOZER | 2 | 1.59 | \$749 |
| 04e | Pond 4 - Reveg | REVEGE | 1 | 2.00 | \$20,194 |
| 05a | Decompact stockpile area | RIPPER | 2 | 20.12 | \$10,474 |
| 05b | Transport topsoil of stockpile area | LOADER | 1 | 195.68 | \$30,737 |
| 05c | Grade half of transported topsoil for stockpile area | DOZER | 2 | 5.72 | \$2,689 |
| 05d | Reveg stockpile area | REVEGE | 1 | 40.00 | \$59,157 |
| 06a | Plant trees | REVEGE | 1 | 30.00 | \$2,318 |
| 10a | Initial Mobilization | MOBILIZE | 1 | 2.50 | \$11,431 |
| 10b | Secondary Mobilization | MOBILIZE | 1 | 2.50 | \$1,438 |
| | | <u>SUBTO</u> | TALS: | 615.58 | \$216,045 |

INDIRECT COSTS

OVERHEAD AND PROFIT:

 Liability insurance:
 2.02 34,364

 Performance bond:
 1.05 30.00

 Job superintendent:
 30.00 30.00

 Profit:
 30.00 30.00

 Total =
 30.00

 Profit:
 30.00

 Total =
 30.00

 Total =
 30.00

 Total =
 30.00

 Total =
 30.00

TOTAL O & $P = \frac{$44,804}{}$

CONTRACT AMOUNT (direct + O & P) = $\frac{}{$260,849}$

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 | | \$13,042 |
| | | - | |
| CONTINGENCY: | 3.00 | Total = | \$6,481 |
| | | | |
| | TOTAL IN | IDIRECT COST = | \$64,828 |
| | | | |
| TOTAL BO | \$280,873 | | |

DEMOLITION WORK

Remove Structures and Debris from site

Task description:

| Site: 23 Ro | ad Pit | Permit Action: | ΓR-8 | Permit/Job#: M1979089 | | |
|---------------------------------|-------------|---|-------------------|-----------------------|-------------------------------------|-------------------|
| PROJECT ID | ENTIFICATIO | <u>ON</u> | | | | |
| User: AC | 5/2022 | State: Colorado County: Mesa attion name: DRMS | | Abbreviat Filena | | -01a |
| UNIT COSTS | | | | Location | adjustment: | 90.70 % |
| Structure or I Description | D: | Demolition Menu Selection | Quantity | Unit | Unit Cost | Total Cost |
| Remove Scale | 70' x 12 | Loading and 2 mile had no salvage - Machine loading | | CY | \$18.25 | \$565.75 |
| Demo Office | 9' x 18' | | t or | CF | \$0.20 | \$260.50 |
| Remove Misc. Equipment/Scrap | 30 CY | Loading and 2 mile han no salvage - Machine loading | aul, 30.00 | CY | \$18.25 | \$547.50 |
| Job Hours: | 8.00 | Subtotal (unadjusted): | \$1,373.75 | (adj | otal Cost usted for ocation): | \$1,245.99 |

PUMPING WORK

| Task description: | Pond 2 | - Dewater prior to | slope grading | | |
|-----------------------------|-----------------------------|-----------------------|------------------|------------------------|-------------|
| 23 Road Pit | | Permit Action | : TR-8 | Permit/Job#: | M1979089 |
| PROJECT IDENTIF | <u>ICATION</u> | <u>I</u> | | | |
| Task #: 02A | | State: Colorad | 0 | Abbreviation: | None |
| Date: $\frac{5/16/2022}{5}$ | | County: Mesa | <u>-</u> | | M089-02a |
| User: ACY | | <u> </u> | | | |
| Agency or orga | ınization nar | ne: DRMS | | | |
| HOURLY EQUIPMI | ENT COS | <u>r</u> | | | |
| | Descripti | on | | Quantity | |
| Make and Model: | Submersi | ible pump - 460v, 8 | in. | 3 | |
| Attachment 1: | Suction h | ose - 6 in. diam., 25 | 5 ft. | 3 | |
| Attachment 2: | Discharge | e hose - 6 in. D., 25 | ft. | 12 | |
| Labor Unit 1: | | erator (same as 1st) | | 3 | <u> </u> |
| Horsepower: | 95 | _ | | | |
| Shift Basis: 1 | per day | _ | | | |
| Weight: | 0.70 | _ | | | |
| , | S Tons) | | | | |
| Cost Breakdown: | | | Utilization % | | |
| Ownership Cost/ | Hour | \$54.30 | NA | | |
| Operating Cost/ | | \$14.55 | 100 | | |
| Operator Cost/ | | \$84.69 | NA | | |
| Total Unit Cost/ | | \$153.54 | IVA | | |
| Total Fleet Cost | | | _ | | |
| | | \$153.54 | | | |
| PUMPING QUANTI | | 4= -0 | | ~ | |
| Initial Pond Vol | | 47.60 | | Conversion factor: | 325850.5800 |
| Final Pond Vol | | 15,510,487.61 | gallons | | |
| Total Pond Inflow Su | | | | Unit inflow rate in | |
| | Area: | 690,960 | Sq. ft. | gph/sq. ft.: _ | 0.1758 |
| Total Pond Inflow Vo | | 121 470 77 | 11 | | |
| _ | Hour: | 121,470.77 | gallons | | |
| Source | of estimated | l volume: TR-8 | | | |
| PUMPING TIME | | | | | |
| | ximum Pum | | 170,000 | gph/pump | |
| | Estimated Su | | 15 | feet | |
| Esti | imated Disch | | 15 | feet | |
| | | Total Head: | 30 | feet | |
| | | p Capacity: | 165,600 | gph/pump | |
| | Si | ite Altitude: | 4,532 | feet | |
| A .1* | atad Durani | a Canacitus | 106 900 | anh | |
| | sted Pumpin | | 496,800 31.22 | gph | |
| | djusted Pun | | | hours | |
| | during Initia | | 3,792,413 | gallons | |
| | djusted Pun | | 38.85 | Hours | |
| | ude Adjustn | | 1.0000 | (3% rule) | |
| | Pump Efficie djusted Pum | | 0.9167 35.62 | (55 min./hr.) hours | |
| | | | 33.02 | nours | |
| JOB TIME AND CO | <u>81</u> | | Total job | time: 35.62 | Hours |
| TI-14 | 00202 | (C - 11 | • | | |
| Unit cost: \$0.00 | 00283 / | Gallon | Total job | cost: \$5,469 | |

BULLDOZER WORK

| Task description: | | Pond 2 - Grade | slopes to 3H | :1V | | |
|--|----------------|-----------------------------|------------------|----------------------|-------------------------|------------------|
| 23 Road Pit | | Per | mit Action: | TR-8 | Permit/Job#: | M1979089 |
| PROJECT IDE | NTIFI | CATION | | | | |
| Task #: 02B Date: 5/16 | 5/2022 | State: | Colorado Mesa | | Abbreviation: Filename: | None M089-02b |
| User: AC | Y | | | | - | |
| Agency | or organ | nization name: Di | RMS | | | |
| HOURLY EQU | IIPME | NT COST | | | | |
| Basic Machine | | D8T - 8SU | | <u> </u> | | |
| Horsepower | | | | <u> </u> | | |
| Blade Type | | ni-Universal | | | | |
| Attachment | | an dari | | <u> </u> | | |
| Shift Basis | | er day | | _ | | |
| Data Source | (CR | .U) | | <u></u> | | |
| Cost Breakdown: | | | | | | |
| | | | | <u>Utilization %</u> | | |
| Ownership Cost/ | | | \$97.46 | NA | | |
| Operating Cost/ | | | \$97.63 | 100 | | |
| Ripper own. Cost/ | Hour: | | \$0.00 | NA | | |
| Ripper op. Cost/ | Hour: | | \$0.00 | 0 | | |
| Operator Cost/ | Hour: | | \$40.04 | NA | | |
| Total unit Cost/Ho | \11## | ¢225 12 | | | | |
| Total Fleet Cost/H | | \$235.13 \$470.25 | | | | |
| MATERIAL Q Initial Volume: Swell factor: | 2,425 1.110 | 5 | _ | | | |
| Loose volume: | 2,692 | 2 LCY | | | | |
| Source of estimate Source of estimate | | | lbook | | | |
| HOURLY PRO | DUCT | CION | | | | |
| Average push dist Unadjusted hourly | | 60 feet 1,246.9 LC | Y/hr | | | |
| Materials consiste | ncy des | cription: Compa | acted fill or e | mbankment 0.9 | | |
| Average push grad Average site altitu | | 15 % 4,532 feet | | | | |
| Material weight: | | 2,800 lbs/LCY | | | _ | |
| Weight description | n: | Clay - Natural bed | 1 | | | |
| Job Condition Con | | | 750 | Source (AVG) | | |
| | erator S | | .750 | (AVG.) | | |
| Material | | | .900 | (CEN.) | | |
| D02 | zing met | | .000 | (GEN.) | | |
| | Visib | 111ty: <u>l</u> | .000 | (AVG.) | | |

| 0.830 | (1 SHIFT/DAY) |
|-------|----------------------------------|
| 0.800 | (FND-RF) |
| 0.666 | (CAT HB) |
| 1.000 | (CAT HB) |
| 0.821 | (CAT HB) |
| 1.000 | (PAT) |
| | 0.800 0.666 1.000 0.821 |

Net correction: 0.2451

Adjusted unit production: 305.62 LCY/hr
Adjusted fleet production: 611.24 LCY/hr

JOB TIME AND COST

Fleet size: 2 Dozer(s)
Unit cost: \$0.769/LCY

Total job time: 4.40 Hours
Total job cost: \$2,071

WHEEL LOADER – LOAD AND CARRY WORK

| 44 D 1 D1: | | Transport topso |)11 | | | |
|--|--|--|---|--|--|---|
| e: 23 Road Pit | | Permit Action | on: TR-8 | | Permit/Job# | : <u>M1979089</u> |
| PROJECT IDENT | FIFICATION | | | | | |
| Task #: 02C | | State: Colora | do | | Abbreviation: | None |
| Date: $\frac{626}{5/16/20}$ |)22. | County: Mesa | | | Filename: | M089-02c |
| User: ACY | <u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u> | | | | i nename. | 141005 020 |
| | organization nam | ne: DRMS | | | | |
| HOURLY EQUIP | PMENT COST | 1 | | | | |
| | | <u>-</u> | | Шомоом | 0.777.049. | 207 |
| Basic Machine | | | = | Horsep Shift | | 287 |
| Attachment | 1: KOPS Cab | | - | Data So | | per day CRG) |
| | | | | Data St | ource: (| CRG) |
| Cost Breakdown: | | | | | | |
| | | | Utilizatio | on % | | |
| Ownership C | | \$60.09 | NA | | | |
| Operating C | | \$61.01 | 100 | | | |
| Operator C | | \$35.97 | NA | | | |
| Total Unit C | ost/Hour: | \$157.07 | | | | |
| Total Fleet C | Cost/Hour: | \$157.07 | | | | |
| MATERIAL QUA | NTITIES | | | | | |
| | | 001 | C | 11.6 1 | 015 | |
| Initial volume: | 1,390 | CCY | Swe | ell factor: 1. | 215 | |
| Loose volume: | 1,689 | LCY | | | | |
| | | | | | | |
| Sou | rce of estimated | volume: TR-8 | | | | |
| | rce of estimated of estimated swel | | Iandbook | | | |
| | | | | | | |
| | of estimated swel | | | | | |
| Source of | of estimated swell | | Iandbook | p, maneuver): | 0.525 | minutes |
| Source of HOURLY PRODUCTION Loader Cycle Time: | of estimated swell UCTION Unadjuste | Il factor: Cat H | Iandbook | p, maneuver): | 0.525 Factor (min.) | minutes Source |
| HOURLY PRODU Loader Cycle Time: Cycle Time F | of estimated swell UCTION Unadjuster Factors | Il factor: Cat H | Iandbook | p, maneuver): | | 1 |
| HOURLY PRODU Loader Cycle Time: Cycle Time F | of estimated swell UCTION Unadjuster Factors Mixed | ed Basic Cycle Ti | Iandbook me (load, dum | | Factor (min.) | Source (Cat HB) |
| HOURLY PRODU Loader Cycle Time: Cycle Time F | UCTION Unadjuste Factors aterial: Mixed ckpile: Conve | Il factor: Cat H | me (load, dum | less 0.01 | Factor (min.) 0.020 | Source |
| HOURLY PRODUCTION OF THE PRODUCTION OF T | UCTION Unadjuste Factors aterial: Mixed ckpile: Conve | ed Basic Cycle Ti | me (load, dum 1 10 ft. high or trucks and load | less 0.01 | Factor (min.) 0.020 0.010 | Source (Cat HB) (Cat HB) |
| HOURLY PRODUCTION OF THE PRODUCTION OF T | UCTION Unadjuste Sectors hterial: Mixed ckpile: Conve ership: Comm ration: Consta | ed Basic Cycle Ti material 0.02 yor or dozer piled | me (load, dum 1 10 ft. high or trucks and load | less 0.01 | Factor (min.) 0.020 0.010 -0.040 | Source (Cat HB) (Cat HB) (Cat HB) |
| HOURLY PRODICE Loader Cycle Time: Cycle Time F Ma Stoo Truck Owner Open | UCTION Unadjuste Sectors hterial: Mixed ckpile: Conve ership: Comm ration: Consta | ed Basic Cycle Ti material 0.02 yor or dozer piled on ownership of out operation -0.04 all target 0.00 | me (load, dum 1 10 ft. high or trucks and load | less 0.01 lers -0.04 | Factor (min.) 0.020 0.010 -0.040 -0.040 0.000 -0.050 | Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) |
| HOURLY PRODICE Loader Cycle Time: Cycle Time F Ma Stoo Truck Owner Open | UCTION Unadjuste Sectors hterial: Mixed ckpile: Conve ership: Comm ration: Consta | ed Basic Cycle Ti material 0.02 yor or dozer piled ion ownership of int operation -0.04 hal target 0.00 | me (load, dum 1 10 ft. high or trucks and load | less 0.01 lers -0.04 djustment: | Factor (min.) 0.020 0.010 -0.040 -0.040 0.000 | Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) |
| HOURLY PRODICE Loader Cycle Time: Cycle Time F Ma Stoo Truck Owner Open | UCTION Unadjuste Factors hterial: Mixed ckpile: Conve ership: Comm ration: Consta | ed Basic Cycle Ti material 0.02 yor or dozer pilection ownership of out operation -0.04 had target 0.00 Net Ad | me (load, dum 1 10 ft. high or trucks and load | less 0.01 lers -0.04 djustment: | Factor (min.) 0.020 0.010 -0.040 -0.040 0.000 -0.050 | Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes |
| HOURLY PRODICE Loader Cycle Time: Cycle Time F Ma Stoc Truck Owner Oper Dump T | UCTION Unadjuste Factors aterial: Mixed expile: Conve ership: Comm ration: Consta Farget: Nomin | ed Basic Cycle Ti material 0.02 yor or dozer pileo on ownership of ant operation -0.04 hal target 0.00 Net Ad | me (load, dum 1 10 ft. high or trucks and load 4 Cycle Time A justed Basic C | less 0.01 lers -0.04 djustment: ycle Time: | Factor (min.) 0.020 0.010 -0.040 -0.040 0.000 -0.050 0.475 | Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes |
| HOURLY PRODICE Loader Cycle Time: Cycle Time F Ma Stoc Truck Owner Oper Dump T Rolling Resistance — | UCTION Unadjuste Factors aterial: Mixed Expile: Conve ership: Comm ration: Consta Farget: Nomin | ed Basic Cycle Ti material 0.02 yor or dozer pilection ownership of ant operation -0.04 hal target 0.00 Net Add Seed dirt, no maintee | me (load, dum 1 10 ft. high or trucks and load 4 Cycle Time A justed Basic C | less 0.01 lers -0.04 djustment: ycle Time: | Factor (min.) 0.020 0.010 -0.040 -0.040 0.000 -0.050 0.475 | Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes |
| HOURLY PRODICE Loader Cycle Time: Cycle Time F Ma Stoc Truck Owner Oper Dump T Rolling Resistance — | UCTION Unadjuste Factors Interial: Mixed Expile: Convectors Expile: Commercation: Consta Exarget: Nomin | ed Basic Cycle Ti material 0.02 yor or dozer pileo on ownership of ant operation -0.04 hal target 0.00 Net Ad | me (load, dum 1 10 ft. high or trucks and load 4 Cycle Time A justed Basic C | less 0.01 lers -0.04 djustment: ycle Time: | Factor (min.) 0.020 0.010 -0.040 -0.040 0.000 -0.050 0.475 | Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes |
| HOURLY PRODICE Loader Cycle Time: Cycle Time F Ma Stoc Truck Owner Oper Dump T Rolling Resistance — | UCTION Unadjuste Factors Interial: Mixed Expile: Convectors Expile: Commercation: Consta Exarget: Nomin | ed Basic Cycle Ti material 0.02 yor or dozer pilection ownership of ant operation -0.04 hal target 0.00 Net Add Seed dirt, no maintee | me (load, dum 1 10 ft. high or trucks and load 4 Cycle Time A justed Basic C | less 0.01 lers -0.04 djustment: ycle Time: | Factor (min.) 0.020 0.010 -0.040 -0.040 0.000 -0.050 0.475 | Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes |
| HOURLY PRODICE Loader Cycle Time: Cycle Time F Ma Stoc Truck Owner Oper Dump T Rolling Resistance — | UCTION Unadjuste Factors Interial: Mixed Expile: Conve Exship: Comm Fration: Consta Farget: Nomin Road Conditions Iaul: Soft, rutt Unadjuste Unadjuste Soft, rutt Soft, rutt Unadjuste Unadjuste | ed Basic Cycle Ti material 0.02 yor or dozer piled on ownership of ant operation -0.04 hal target 0.00 Net Ad ed dirt, no mainted ed dirt, no mainted | me (load, dum 110 ft. high or trucks and load 4 Cycle Time A justed Basic C | less 0.01 lers -0.04 djustment: ycle Time: r, 4" tire penetr | Factor (min.) 0.020 0.010 -0.040 -0.040 0.000 -0.050 0.475 ration 8.0 | Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes |
| HOURLY PRODICE Loader Cycle Time: Cycle Time F Ma Stoc Truck Owner Oper Dump T Rolling Resistance — | UCTION Unadjuste Factors Interial: Mixed Expile: Conve Ership: Comm Fration: Consta Farget: Nomin Road Conditions Gaul: Soft, rutt Uurn: Soft, rutt Length | ed Basic Cycle Ti material 0.02 yor or dozer pilection ownership of ant operation -0.04 hal target 0.00 Net Add s ed dirt, no mainted ed dirt, no mainted Grade Res. | me (load, dum l 10 ft. high or trucks and load Cycle Time A justed Basic Cycle Time A justed Basic Cycle Time A Rolling | less 0.01 lers -0.04 djustment: ycle Time: r, 4" tire penetr, 4" tire penetr | Factor (min.) 0.020 0.010 -0.040 -0.040 0.000 -0.050 0.475 ration 8.0 Travel Time | Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes |
| HOURLY PRODICE Loader Cycle Time: Cycle Time F Ma Stoc Truck Owner Oper Dump T Rolling Resistance — | UCTION Unadjuste Factors Interial: Mixed Expile: Conve Exship: Comm Fration: Consta Farget: Nomin Road Conditions Iaul: Soft, rutt Unadjuste Unadjuste Soft, rutt Soft, rutt Unadjuste Unadjuste | ed Basic Cycle Ti material 0.02 yor or dozer piled on ownership of ant operation -0.04 hal target 0.00 Net Ad ed dirt, no mainted ed dirt, no mainted | me (load, dum 110 ft. high or trucks and load 4 Cycle Time A justed Basic C | less 0.01 lers -0.04 djustment: ycle Time: r, 4" tire penetr | Factor (min.) 0.020 0.010 -0.040 -0.040 0.000 -0.050 0.475 ration 8.0 | Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes |

Total Travel Time: 2.1940 minutes
Total Cycle Time: 2.6690 minutes

Load Bucket Capacity

Rated Capacity: _____ 5.60 LCY (heaped)

Bucket Fill Factor: 1.100 Other - rock/dirt mixtures (100-120%) 1.100

Adjusted Capacity: 6.16 LCY

Job Condition Correction Factors

Site Altitude: 4532 feet

| | | Source |
|-----------------|------|---------------|
| Altitude Adj: | 1.00 | (CAT HB) |
| Job Efficiency: | 0.83 | (1 shift/day) |
| Net Correction: | 0.83 | multiplier |

Unadjusted Hourly Unit Production: 138.48 LCY/Hour Adjusted Hourly Unit Production: 114.94 LCY/Hour Adjusted Hourly Fleet Production: 114.94 LCY/Hour

JOB TIME AND COST

| Fleet size: | 1 | Loader(s) | Total job time: | 14.69 | Hours |
|-------------|---------|-----------|-----------------|---------|-------|
| Unit cost: | \$1.367 | /LCY | Total job cost: | \$2,308 | |

BULLDOZER WORK

| Task description: | Pond 2 - Gr | ade half of trans | ported topsoil | | |
|--|----------------------|--------------------|----------------------|---------------|----------|
| 23 Road Pit | | Permit Action: | TR-8 | Permit/Job#: | M1979089 |
| PROJECT IDENI | <u> TIFICATION</u> | | | | |
| Task #: 02D | St | ate: Colorado | , | Abbreviation: | None |
| Date: 5/16/20 | Cou | nty: Mesa | | Filename: | M089-02d |
| User: ACY | | | | | |
| Agency or o | rganization name: | DRMS | | | |
| HOURLY EQUIP | MENT COST | | | | |
| _ | Cat D8T - 8SU | | | | |
| Horsepower: | 310 | | <u> </u> | | |
| • • • — | Semi-Universal NA | | <u> </u> | | |
| Shift Basis: | 1 per day | | <u> </u> | | |
| | (CRG) | | | | |
| Cost Breakdown: | | | | | |
| | | *** | <u>Utilization %</u> | | |
| Ownership Cost/Hor | | \$97.46 | NA 100 | | |
| Operating Cost/Hor Ripper own. Cost/Hor | | \$97.63 \$0.00 | 100 NA | | |
| Ripper op. Cost/Hot | | \$0.00 | 0 | | |
| Operator Cost/Hor | | \$40.04 | NA | | |
| Swell factor: 1 | 346 1.000 | | | | |
| Loose volume: 8 | 346 LCY | | | | |
| Source of estimated v Source of estimated s | | 8 Handbook | | | |
| HOURLY PRODU | <u>JCTION</u> | | | | |
| Average push distance Unadjusted hourly pro | | t 9 LCY/hr | <u></u> | | |
| Materials consistency | description: Lo | oose stockpile 1.2 | | | |
| Average push gradien Average site altitude: | | | | | |
| Material weight: | _1,600 lbs/LC | Y | | _ | |
| Weight description: | Top Soil | | | | |
| Job Condition Correct | | 0.750 | Source (AVG.) | | |
| | tor Skill | | (AVII) | | |
| | tor Skill: | 0.750 | | | |
| Material con | | 1.200 1.000 | (CAT HB) (GEN.) | | |

| Job efficiency: | 0.830 | (1 SHIFT/DAY) |
|------------------|-------|---------------|
| Spoil pile: | 0.800 | (FND-RF) |
| Push gradient: | 1.000 | (CAT HB) |
| Altitude: | 1.000 | (CAT HB) |
| Material Weight: | 1.438 | (CAT HB) |
| Blade type: | 1.000 | (PAT) |

Net correction: 0.8593

Adjusted unit production: 1,071.46 LCY/hr
Adjusted fleet production: 2142.92 LCY/hr

JOB TIME AND COST

Fleet size: 2 Dozer(s)
Unit cost: \$0.219/LCY

Total job time: 0.39 Hours
Total job cost: \$186

REVEGETATION WORK

| '] | l'ask descrip | otion: | Pond 2 - Reveg | | | | | |
|------------|---------------|-----------|----------------|--------------|------|---------------|--------------------|--|
| Site: | 23 Road | Pit | Pe | rmit Action: | TR-8 | Permit/Job | #: <u>M1979089</u> | |
| <u>P</u>] | ROJECT | IDENTIFIC | CATION | | | | | |
| | Task #: | 02E | State: | Colorado | | Abbreviation: | None | |
| | Date: | 5/16/2022 | County: | Mesa | | Filename: | M089-02e | |
| | User: | ACY | | | | | | |

FERTILIZING

Agency or organization name: DRMS

Materials

| Description | Units / Acre | Unit | Cost / Unit | Cost /Acre |
|----------------------------|-----------------|-------|-------------------------------|------------|
| Potassium nitrate, 13-46-0 | 250.00 | pound | \$1.33 | \$332.50 |
| | | | Total Fertilizer Materials | |
| | | | Cost/Acre | \$332.50 |

Application

| Description | | Cost /Acre |
|---|---|------------|
| Tractor towed spreader (MEANS 32 01 90.13 0120) | | \$38.77 |
| | | |
| | Total Fertilizer Application Cost/Acre | \$38.77 |

TILLING

| Description | Cost /Acre |
|--|------------|
| Disc harrowing, 6" deep (MEANS 32 91 13.23 6100) | \$114.56 |
| | |
| Total Tilling Cost/Acre | \$114.56 |

SEEDING

| Seed Mix | Rate – PLS LBS / Acre | Seeds per SQ. FT | Cost /Acre |
|-------------------------------------|--------------------------------|------------------------|------------|
| Alkali Sacaton | 1.00 | 39.03 | \$28.48 |
| Nebraska Sedge | 1.00 | 20.94 | \$166.50 |
| Slender Wheatgrass - San Luis | 3.00 | 10.95 | \$12.75 |
| Red Top | 1.00 | 114.55 | \$7.88 |
| Reedgrass, Canadian (or Blue Joint) | 0.50 | 51.42 | \$101.63 |
| Reedgrass, Northern - Native | 0.50 | 51.42 | \$68.33 |
| Saltgrass, Inland | 1.00 | 13.86 | \$42.80 |
| Timothy - Climax | 1.00 | 28.70 | \$1.60 |
| Basin Wildrye - Trailhead | 1.50 | 6.10 | \$23.12 |
| Totals Seed Mix | 10.50 | 336.97 | \$453.07 |

| | | , | | | | | |
|---|---|---|----|----|----|---|---|
| А | n | n | ١ì | ดล | ti | n | n |

| 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 |
|---|-----------------|------|-------------|------------|
| Hay, delivered {MEANS 31 25 14.16 1200} | 2.00 | TON | \$307.02 | \$614.04 |
| Herbicide - 2,4D @ 1.0 pt/ac | 2.00 | ACRE | \$2.98 | \$5.96 |
| Herbicide - Curtail @ 4.0 pt/ac | 2.00 | ACRE | \$7.78 | \$15.56 |
| Total Mulch Materials Cost/Acre | | | | \$635.56 |

Application

| Description | | Cost /Acre |
|---|--|------------|
| Crimping, with tractor {DMG survey data} | | \$71.57 |
| Power mulcher (MEANS 32 91 13.16 0350) | | \$106.29 |
| Weed spray, truck, aquatic area, nox. [DMG] | | \$62.72 |
| | | |
| | Total Mulch Application Cost/Acre | \$240.58 |

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:
 1.7
 Cost /Acre:
 \$2,047.04

 Estimated Failure Rate:
 50%
 Cost /Acre*:
 \$1,675.77

*Selected Replanting Work Items: TILLING,SEEDING,MULCHING

Initial Job Cost: \$3,479.97

Reseeding Job Cost: \$1,424.40

Total Job Cost: \$4,904

2.00

PUMPING WORK

| Task description: | Pond 3 - Dewater pri | or to slope grading | | |
|---------------------------------------|---|---------------------|-------------------------|------------------|
| Site: 23 Road Pit | Permit A | Action: TR-8 | Permit/Job#: | M1979089 |
| PROJECT IDENTIF | <u>ICATION</u> | | | |
| Task #: 03A Date: 5/16/2022 User: ACY | | olorado esa | Abbreviation: Filename: | None M089-03a |
| Agency or orga | nization name: DRMS | | | |
| HOURLY EQUIPME | ENT COST | | | |
| HOURDI EQUITA | Description | | Quantity | |
| Make and Model: | Submersible pump - 46 | 0v. 8 in. | 3 | |
| Attachment 1: | Suction hose - 6 in. dian | | 3 | |
| Attachment 2: | Discharge hose - 6 in. I | | 12 | |
| Labor Unit 1: | Pump operator (same a | | 3 | |
| Horsepower: | 95 | , | <u> </u> | |
| | per day | | | |
| | 0.70 | | | |
| <u> </u> | S Tons) | | | |
| Cost Breakdown: | 5 1 5115) | | | |
| Cost Breakdown. | | Utilization % | | |
| Ownership Cost/l | Hour: \$54.30 | NA | | |
| Operating Cost/I | | 100 | _ | |
| Operator Cost/ | | NA | _ | |
| Total Unit Cost/ | | 1111 | = | |
| | · · · · · · · · · · · · · · · · · · · | | | |
| Total Fleet Cost | Hour: \$153.54 | | | |
| PUMPING QUANTI | <u>TIES</u> | | | |
| Initial Pond Vol | ume: 56.00 | | Conversion factor: | 325850.5800 |
| Final Pond Vol | | 48 gallons | Conversion factor. | 323030.3000 |
| Total Pond Inflow Su | | Sunons | Unit inflow rate in | |
| | Area: 435,600 | Sq. ft. | gph/sq. ft.: | 0.1758 |
| Total Pond Inflow Vo | lume | | | |
| per I | Hour: 76,578.48 | gallons | | |
| Source of | of estimated volume: T | R-8 | | |
| PUMPING TIME | | | | |
| | | | | |
| | kimum Pump Capacity: | 170,000 | gph/pump | |
| | stimated Suction Head: | 15 | feet | |
| Esti | mated Discharge Head: | 15 | feet | |
| | Total Head: _ CPB Pump Capacity: | 30 165,600 | feet | |
| | · · · - | 4,532 | gph/pump | |
| | Site Altitude: | 4,332 | feet | |
| | | | | |
| | ted Pumping Capacity: | 496,800 | gph | |
| | djusted Pumping Time: | 36.73 | hours | |
| | during Initial Pumping: | 2,812,754 | gallons | |
| | djusted Pumping Time: | 42.39 | Hours | |
| | ude Adjustment Factor: | 1.0000 | (3% rule) | |
| | ump Efficiency Factor: _djusted Pumping Time: | 0.9167 38.86 | (55 min./hr.) hours | |
| | | 30.00 | 110410 | |
| JOB TIME AND CO | <u>ST</u> | Total jol | b time: 38.86 | Hours |
| Unit cost: \$0.00 | 00283 /Gallon | Total jo | b cost: \$5,967 | |

WHEEL LOADER – LOAD AND CARRY WORK

| 44 D 151 | | - Transport topsoi | | | | |
|---|---|---|--|--|---|---|
| e: 23 Road Pit | | Permit Action | n: <u>TR-8</u> | | Permit/Job#: | M1979089 |
| PROJECT IDE | ENTIFICATION | <u>[</u> | | | | |
| Task #: 03C | 1 | State: Colorac | do | | Abbreviation: | None |
| | | County: Mesa | | | Filename: | M089-03c |
| User: AC | | county | | | i nename. | 111007 030 |
| | or organization nar | me: DRMS | | | | |
| HOURLY EOU | JIPMENT COST | Γ | | | | |
| | | | | Понаот | | 207 |
| Basic Mac | | | | Horsepo Shift I | | 287 |
| Attachme | nt 1: KOPS Cat |) | | Data Sc | | per day CRG) |
| | | | | Data Sc | ource: (| CRG) |
| Cost Breakdown: | | | | | | |
| | | | Utilizatio | on % | | |
| | p Cost/Hour: | \$60.09 | NA | | | |
| | g Cost/Hour: | \$61.01 | 100 | | | |
| • | r Cost/Hour: | \$35.97 | NA | | | |
| Total Uni | t Cost/Hour: | \$157.07 | _ | | | |
| Total Fle | et Cost/Hour: | \$157.07 | <u> </u> | | | |
| MATERIAL Q | HANTITIES | | | | | |
| | <u> </u> | | _ | | | |
| Initial volum | | CCY | Swe | ell factor: 1. | 215 | |
| Loose volum | ne: 1,57 3 | 3 LCY | | | | |
| \$ | Source of estimated | l volume: TR-8 | | | | |
| Sour | ce of estimated swe | ell factor: Cat H | andbook | | | |
| | | | | | | |
| | | | | | | |
| HOURLY PRO | DUCTION | | | | | |
| HOURLY PRO | | ted Basic Cycle Tir | ne (load, dum | p, maneuver): | 0.525 | minutes |
| Loader Cycle Tim | ne: Unadjust | ted Basic Cycle Tii | ne (load, dum | p, maneuver): | · | |
| | ne: Unadjust ne Factors | | me (load, dum | p, maneuver): | Factor (min.) | Source |
| Loader Cycle Tim | ue: Unadjust ne Factors Material: Mixed | d material 0.02 | | | Factor (min.) | Source (Cat HB) |
| Loader Cycle Tim Cycle Tim | ue: Unadjust ne Factors Material: Mixed Stockpile: Conve | | 10 ft. high or | less 0.01 | Factor (min.) | Source (Cat HB) (Cat HB) |
| Loader Cycle Tim Cycle Tim | me: Unadjust me Factors Material: Mixed Stockpile: Conve | d material 0.02 eyor or dozer piled non ownership of t | 10 ft. high or rucks and load | less 0.01 | Factor (min.) 0.020 0.010 | Source (Cat HB) (Cat HB) (Cat HB) |
| Loader Cycle Tim Cycle Tim S Truck O | me: Unadjust me Factors Material: Mixed Stockpile: Convey wnership: Comm Operation: Const | d material 0.02 eyor or dozer piled non ownership of t ant operation -0.04 | 10 ft. high or rucks and load | less 0.01 | Factor (min.) 0.020 0.010 -0.040 -0.040 | Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) |
| Loader Cycle Tim Cycle Tim S Truck O | me: Unadjust me Factors Material: Mixed Stockpile: Convey wnership: Comm Operation: Const | d material 0.02 eyor or dozer piled non ownership of to ant operation -0.04 nal target 0.00 | 10 ft. high or rucks and load | less 0.01 lers -0.04 | Factor (min.) 0.020 0.010 -0.040 | Source (Cat HB) (Cat HB) (Cat HB) |
| Loader Cycle Tim Cycle Tim S Truck O | me: Unadjust me Factors Material: Mixed Stockpile: Convey wnership: Comm Operation: Const | d material 0.02 eyor or dozer piled non ownership of to ant operation -0.04 nal target 0.00 | 10 ft. high or rucks and load | less 0.01 lers -0.04 djustment: | Factor (min.) 0.020 0.010 -0.040 -0.040 0.000 | Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) |
| Loader Cycle Tim Cycle Tim S Truck Or C Dum | me: Unadjust me Factors Material: Mixed Stockpile: Convey wnership: Comm Operation: Const | d material 0.02 eyor or dozer piled non ownership of to ant operation -0.04 nal target 0.00 Net (Adj | 10 ft. high or rucks and load | less 0.01 lers -0.04 djustment: | Factor (min.) 0.020 0.010 -0.040 -0.040 0.000 -0.050 | Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes |
| Loader Cycle Tim Cycle Tim S Truck Or C Dum | me: Unadjust me Factors Material: Mixed Stockpile: Conve wnership: Comm Operation: Const mp Target: Nomi me - Road Condition | d material 0.02 eyor or dozer piled non ownership of to ant operation -0.04 nal target 0.00 Net of Adj | 10 ft. high or rucks and load Cycle Time Acusted Basic Cy | less 0.01 lers -0.04 djustment: ycle Time: | Factor (min.) 0.020 0.010 -0.040 -0.040 0.000 -0.050 0.475 | Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes |
| Loader Cycle Tim Cycle Tim S Truck Or Dum Rolling Resistance | me: Unadjust me Factors Material: Mixed Stockpile: Convey wnership: Comm Operation: Const mp Target: Nomi me - Road Condition Haul: Soft, rut | d material 0.02 eyor or dozer piled non ownership of to ant operation -0.04 nal target 0.00 Net of Adj ass ted dirt, no mainter | 10 ft. high or rucks and load Cycle Time Acusted Basic Cy | less 0.01 lers -0.04 light djustment: ycle Time: | Factor (min.) 0.020 0.010 -0.040 -0.040 0.000 -0.050 0.475 | Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes |
| Loader Cycle Tim Cycle Tim S Truck Or Dum Rolling Resistance | me: Unadjust me Factors Material: Mixed Stockpile: Convey wnership: Comm Operation: Const mp Target: Nomi me - Road Condition Haul: Soft, rut | d material 0.02 eyor or dozer piled non ownership of to ant operation -0.04 nal target 0.00 Net of Adj | 10 ft. high or rucks and load Cycle Time Acusted Basic Cy | less 0.01 lers -0.04 light djustment: ycle Time: | Factor (min.) 0.020 0.010 -0.040 -0.040 0.000 -0.050 0.475 | Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes |
| Loader Cycle Tim Cycle Tim S Truck Or Dum Rolling Resistance | me: Unadjust me Factors Material: Mixed Stockpile: Conve wnership: Comm Operation: Const mp Target: Nomi me - Road Condition Haul: Soft, rut Return: Soft, rut | d material 0.02 eyor or dozer piled non ownership of to ant operation -0.04 nal target 0.00 Net of Adj ass ted dirt, no mainter | 10 ft. high or rucks and load Cycle Time Acusted Basic Cy | less 0.01 lers -0.04 light djustment: ycle Time: | Factor (min.) 0.020 0.010 -0.040 -0.040 0.000 -0.050 0.475 | Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes |
| Loader Cycle Tim Cycle Tim S Truck O O Dum Rolling Resistance | me: Unadjust me Factors Material: Mixed Stockpile: Convolute wnership: Comm Operation: Const mp Target: Nomi me - Road Condition Haul: Soft, rut Return: Soft, rut | d material 0.02 eyor or dozer piled non ownership of tr ant operation -0.04 nal target 0.00 Net of Adj as sted dirt, no maintented dirt, no maintented | 10 ft. high or rucks and load Cycle Time Acusted Basic Cynance or water | djustment: ycle Time: y, 4" tire penetr | Factor (min.) 0.020 0.010 -0.040 -0.040 0.000 -0.050 0.475 ation 8.0 ation 8.0 | Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes |
| Loader Cycle Tim Cycle Tim S Truck O O Dum Rolling Resistance | me: Unadjust me Factors Material: Mixed Stockpile: Convolution: Const mp Target: Nomi me - Road Condition Haul: Soft, rut Return: Soft, rut Time Length | d material 0.02 eyor or dozer piled non ownership of trant operation -0.04 nal target 0.00 Net of Adjust and dirt, no maintered dirt. | 10 ft. high or rucks and load Cycle Time Acusted Basic Cynance or water | less 0.01 lers -0.04 lers -0.04 light djustment: ycle Time: y, 4" tire penetry, 4" tire penetry Total Res. | Factor (min.) 0.020 0.010 -0.040 -0.040 0.000 -0.050 0.475 ation 8.0 ation 8.0 | Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes |
| Loader Cycle Tim Cycle Tim S Truck O O Dum Rolling Resistance | me: Unadjust me Factors Material: Mixed Stockpile: Convolution: Const mp Target: Nomi me - Road Condition Haul: Soft, rut Return: Soft, rut Time Length (feet) | d material 0.02 eyor or dozer piled non ownership of tr ant operation -0.04 nal target 0.00 Net of Adj as sted dirt, no maintented dirt, no maintented | 10 ft. high or rucks and load Cycle Time Acusted Basic Cynance or water | djustment: ycle Time: y, 4" tire penetr | Factor (min.) 0.020 0.010 -0.040 -0.040 0.000 -0.050 0.475 ation 8.0 ation 8.0 | Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes |

Total Travel Time: 2.1940 minutes Total Cycle Time: 2.6690 minutes **Load Bucket Capacity** Rated Capacity: LCY (heaped) 5.60 Bucket Fill Factor: Other - rock/dirt mixtures (100-120%) 1.100 1.100 LCY Adjusted Capacity: 6.16 Job Condition Correction Factors Site Altitude: 4532 feet Source Altitude Adj: (CAT HB) Job Efficiency: 0.83 (1 shift/day) Net Correction: 0.83 multiplier Unadjusted Hourly Unit Production: 138.48 LCY/Hour Adjusted Hourly Unit Production: 114.94 LCY/Hour Adjusted Hourly Fleet Production: 114.94 LCY/Hour JOB TIME AND COST Fleet size: 1 Loader(s) Total job time: 13.69 Hours

Total job cost: **\$2,150**

Unit cost: \$1.367 /LCY

BULLDOZER WORK

| 23 Road Pit | Permit Action: | ΓR-8 | Permit/Job#: | M1979089 |
|-------------------------------------|---------------------|----------------------|---------------|----------|
| PROJECT IDENTIF | <u>ICATION</u> | | | |
| Task #: 03D | State: Colorado | | Abbreviation: | None |
| Date: $\frac{5/16/2022}{5/16/2022}$ | County: Mesa | | Filename: | M089-03d |
| User: ACY | | | - | |
| Agency or organ | nization name: DRMS | | | |
| HOURLY EQUIPME | ENT COST | | | |
| | D8T - 8SU | | | |
| Horsepower: 310 | | - | | |
| <u></u> | ni-Universal | - | | |
| Attachment: NA | | _ | | |
| | er day | _ | | |
| Data Source: (CF | RG) | _ | | |
| Cost Breakdown: | | | | |
| | | <u>Utilization %</u> | | |
| Ownership Cost/Hour: | \$97.46 | NA | | |
| Operating Cost/Hour: | \$97.63 | 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: | \$235.13 | | | |
| Total Fleet Cost/Hour: | \$470.25 | | | |
| | | | | |
| MATERIAL QUANT | TTIES | | | |
| | | | | |
| Initial Volume: 787 | | | | |
| Swell factor: 1.00 | | | | |
| Loose volume: 787 | LCY | | | |
| Source of estimated volur | me: TR-8 | | | |
| Source of estimated swell | | | | |
| | | - | | |
| HOURLY PRODUCT | <u>rion</u> | | | |
| Average push distance: | 60 feet | | | |
| Unadjusted hourly produc | | <u></u> | | |
| Materials consistency des | | | | |
| iviaterials collsistelley des | Loose stockpile 1.2 | | | |
| Average push gradient: | 0 % | | | |
| Average site altitude: | 4,532 feet | | | |
| | | | | |
| Material weight: | 1,600 lbs/LCY | | | |
| Weight description: | Top Soil | | | |
| Job Condition Correction | | Source | | |
| Operator S | | (AVG.) | | |
| Material consiste | | (CAT HB) | | |
| Dozing me | | (GEN.) | | |
| Visib | ility: 1 000 | (AVG) | | |

| Job efficiency: | 0.830 | (1 SHIFT/DAY) |
|------------------|-------|---------------|
| Spoil pile: | 0.800 | (FND-RF) |
| Push gradient: | 1.000 | (CAT HB) |
| Altitude: | 1.000 | (CAT HB) |
| Material Weight: | 1.438 | (CAT HB) |
| Blade type: | 1.000 | (PAT) |

Net correction: 0.8593

Adjusted unit production: 1,071.46 LCY/hr
Adjusted fleet production: 2142.92 LCY/hr

JOB TIME AND COST

Fleet size: 2 Dozer(s)
Unit cost: \$0.219/LCY

Total job time:
Total job cost:

0.37 Hours
\$173

REVEGETATION WORK

| Task descrip | otion: | Pond 3 - Reveg | | | |
|---------------|-----------------|----------------|--------------|---------------|-------------|
| Site: 23 Road | Pit | Permit A | Action: TR-8 | Permit/Job# | #: M1979089 |
| PROJECT | <u>IDENTIFI</u> | <u>ICATION</u> | | | |
| Task #: | 03E | State: Co | lorado | Abbreviation: | None |
| Date: | 5/25/2022 | County: Me | esa | Filename: | M089-03e |
| I I a a mu | ACV | | | | |

User: ACY

Agency or organization name: DRMS

FERTILIZING

Materials

| Description | Units / Acre | Unit | Cost / Unit | Cost /Acre |
|----------------------------|-----------------|-------|-------------------------------|------------|
| Potassium nitrate, 13-46-0 | 250.00 | pound | \$1.33 | \$332.50 |
| | | | Total Fertilizer Materials | |
| | | | Cost/Acre | \$332.50 |

Application

| Description | | Cost /Acre |
|---|---|------------|
| Tractor towed spreader (MEANS 32 01 90.13 0120) | | \$38.77 |
| | | |
| | Total Fertilizer Application Cost/Acre | \$38.77 |

TILLING

| Description | Cost /Acre |
|--|------------|
| Disc harrowing, 6" deep (MEANS 32 91 13.23 6100) | \$114.56 |
| | |
| Total Tilling Cost/Acre | \$114.56 |

SEEDING

| Seed Mix | Rate – PLS LBS / Acre | Seeds per SQ. FT | Cost /Acre |
|-------------------------------------|--------------------------------|------------------------|------------|
| Alkali Sacaton | 1.00 | 39.03 | \$28.48 |
| Nebraska Sedge | 1.00 | 20.94 | \$166.50 |
| Slender Wheatgrass - San Luis | 3.00 | 10.95 | \$12.75 |
| Red Top | 1.00 | 114.55 | \$7.88 |
| Reedgrass, Canadian (or Blue Joint) | 0.50 | 51.42 | \$101.63 |
| Reedgrass, Northern - Native | 0.50 | 51.42 | \$68.33 |
| Saltgrass, Inland | 1.00 | 13.86 | \$42.80 |
| Timothy - Climax | 1.00 | 28.70 | \$1.60 |
| Basin Wildrye - Trailhead | 1.50 | 6.10 | \$23.12 |
| Totals Seed Mix | 10.50 | 336.97 | \$453.07 |

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 |
|---|-----------------|------|-------------|------------|
| Hay, delivered {MEANS 31 25 14.16 1200} | 2.00 | TON | \$307.02 | \$614.04 |
| Herbicide - 2,4D @ 1.0 pt/ac | 2.00 | ACRE | \$2.98 | \$5.96 |
| Herbicide - Curtail @ 4.0 pt/ac | 2.00 | ACRE | \$7.78 | \$15.56 |
| Total Mulch Materials Cost/Acre | | | | \$635.56 |

Application

| Description | | Cost /Acre |
|---|--|------------|
| Crimping, with tractor {DMG survey data} | | \$71.57 |
| Power mulcher (MEANS 32 91 13.16 0350) | | \$106.29 |
| Weed spray, truck, aquatic area, nox. [DMG] | | \$62.72 |
| | | |
| | Total Mulch Application Cost/Acre | \$240.58 |

NURSERY STOCK PLANTING

| Common Name | No / Acre | Type and Size | Planting Cost | Fertilizer Pellet Cost | Cost /Acre |
|-------------|--------------|---------------|------------------|---------------------------|------------|
| | | | | | \$ |
| | | | | | |
| | | Totals | Nursery Stoc | k Cost / Acre | \$0.00 |

JOB TIME AND COST

 No. of Acres:
 1.6
 Cost /Acre:
 \$2,047.04

 Estimated Failure Rate:
 50%
 Cost /Acre*:
 \$1,675.77

*Selected Replanting Work Items: TILLING,SEEDING,MULCHING

Initial Job Cost: \$3,275.26

Reseeding Job Cost: \$1,340.62

Total Job Cost: \$4,616

2.00

PUMPING WORK

| Task description: | Pond 4 | - Dewater prior to | slope grading | | |
|----------------------|----------------|------------------------------|-----------------|------------------------|-------------|
| 23 Road Pit | | Permit Action | n: <u>TR-8</u> | Permit/Job#: | M1979089 |
| PROJECT IDENTIF | <u> ICATIO</u> | <u>N</u> | | | |
| Task #: 04A | | State: Colorad | lo | Abbreviation: | None |
| Date: 5/16/2022 | | County: Mesa | | | M089-04a |
| User: ACY | | | | | |
| Agency or orga | anization na | nme: DRMS | | | |
| HOURLY EQUIPM | ENT COS | <u>ST</u> | | | |
| | Descript | tion | | Quantity | |
| Make and Model: | Submer | sible pump - 460v, 8 | in. | 3 | |
| Attachment 1: | Suction | hose - 6 in. diam., 25 | 5 ft. | 3 | |
| Attachment 2: | Dischar | ge hose - 6 in. D., 25 | ft. | 12 | |
| Labor Unit 1: | Pump or | perator (same as 1st) |) | 3 | <u> </u> |
| Horsepower: | 95 | | | | |
| Shift Basis: 1 | per day | | | | |
| Weight: | 0.70 | _ | | | |
| Cost Breakdown: | JS Tons) | | | | |
| Cost breakdown: | | | Utilization % | | |
| Ownership Cost | /Hour: | \$54.30 | NA | | |
| Operating Cost | | \$14.55 | 100 | | |
| Operator Cost | | \$84.69 | NA | | |
| Total Unit Cost | | \$153.54 | 1121 | | |
| Total Fleet Cost | t/Hour | \$153.54 | _ | | |
| PUMPING QUANTI | | Ψ133.3 1 | | | |
| Initial Pond Vo | | 126.40 | | Conversion factor: | 325850.5800 |
| Final Pond Vo | | 41,187,513.31 | gallons | Conversion factor. | 323030.3000 |
| Total Pond Inflow Su | | 41,107,515.51 | ganons | Unit inflow rate in | |
| | | 174 240 | Sa ft | | 0.1758 |
| | Area: | 174,240 | Sq. ft. | gph/sq. ft.: | 0.1736 |
| Total Pond Inflow Vo | Hour: | 30,631.39 | gallons | | |
| _ | of estimate | | 8 | | |
| PUMPING TIME | or estimate | d volume. TK-0 | | | |
| | vimum Dur | nn Canacity | 170 000 | anh/numn | |
| | | np Capacity: uction Head: | 170,000 15 | gph/pump feet | |
| | | charge Head: | | | |
| ESU | illiated Disc | | 15 30 | feet | |
| | CDD D | Total Head: | | feet | |
| | | np Capacity: | 165,600 | gph/pump | |
| | 2 | Site Altitude: | 4,532 | feet | |
| Δdin | sted Pumni | ng Capacity: | 496,800 | gph | |
| | | mping Time: | 82.91 | hours | |
| | | ial Pumping: | 2,539,515 | gallons | |
| | | mping Time: | 88.02 | Hours | |
| | | | | | |
| | | ment Factor: | 1.0000 | (3% rule) | |
| | | ency Factor: mping Time: | 0.9167 80.69 | (55 min./hr.) hours | |
| | | 1 6 | - 4-44 | | |
| JOB TIME AND CO | <u>'01</u> | | Total job | time: 80.69 | Hours |
| Unit cost: \$0.0 | 00283 | /Gallon | Total job | o cost: \$12,388 | |
| Ψ0.0 | | | 1 out joe | Ψ12,000 | |

BULLDOZER WORK

| PROJECT IDENTIFICATION | Task description: | | Pond 4 - Grade s | slopes to 3H | :1V | | |
|---|---------------------|----------|--------------------|-----------------|---------------------------------------|--------------|----------|
| Task #: 04B | 23 Road Pit | | Per | mit Action: | TR-8 | Permit/Job#: | M1979089 |
| Date: S/16/2022 County: Mesa Filename: M089-04b | PROJECT IDE | NTIFI | <u>CATION</u> | | | | |
| User: ACY | | 2022 | | | | - | |
| Basic Machine: | | | | | | - | |
| Basic Machine: | Agency o | r organ | ization name:DI | RMS | | | |
| Horsepower Semi-Universal Attachment: NA | HOURLY EQU | IPME | NT COST | | | | |
| Blade Type: NA | | | D8T - 8SU | | <u> </u> | | |
| Attachment: | | | · TT · 1 | | <u>—</u> | | |
| Shift Basis: | | | 1-Universal | | <u> </u> | | |
| Data Source: CRG | | | r day | | <u> </u> | | |
| Ownership Cost/Hour: \$97.46 NA | | | | | | | |
| Ownership Cost/Hour: \$97.46 NA Operating Cost/Hour: \$97.63 100 Ripper own. Cost/Hour: \$0.00 0 Operator Cost/Hour: \$0.00 0 Operator Cost/Hour: \$40.04 NA Total unit Cost/Hour: \$235.13 Total Fleet Cost/Hour: \$470.25 MATERIAL QUANTITIES Initial Volume: \$9,900 Swell factor: 1.220 Loose volume: 48,678 LCY Source of estimated volume: TR-8 Cat Handbook HOURLY PRODUCTION Average push distance: Unadjusted hourly production: Compacted fill or embankment 0.9 Average push gradient: Average push gradient: 0 % Average site altitude: 4,532 feet Material weight: 2,800 lbs/LCY Weight description: Clay - Natural bed Job Condition Correction Factor Operator Skill: 0,750 (AVG.) Material consistency: <t< td=""><td>Cost Breakdown:</td><td></td><td></td><td></td><td></td><td></td><td></td></t<> | Cost Breakdown: | | | | | | |
| Sp7.63 100 NA | | _ | | | · · · · · · · · · · · · · · · · · · · | | |
| Ripper own. Cost/Hour: | | | | | | | |
| Ripper op. Cost/Hour: Operator Cost/Hour: S235.13 Total unit Cost/Hour: \$470.25 MATERIAL QUANTITIES Initial Volume: Swell factor: Loose volume: 48,678 LCY Source of estimated volume: Source of estimated swell factor: HOURLY PRODUCTION Average push distance: Unadjusted hourly production: Materials consistency description: Materials volume: 4,578 LCY Cat Handbook Cat Handbook Cat Handbook Cat Handbook Compacted fill or embankment 0.9 Average push gradient: Average site altitude: 4,532 feet Material weight: 2,800 lbs/LCY Weight description: Clay - Natural bed Job Condition Correction Factor Operator Skill: Material consistency: Operator Skill: O,750 Average MAYG. Material consistency: Operator Skill: O,750 Operator Skill: O,75 | | | | | | | |
| Operator Cost/Hour: \$40.04 NA Total unit Cost/Hour: \$235.13 Total Fleet Cost/Hour: \$470.25 MATERIAL QUANTITIES Initial Volume: 39,900 Swell factor: 1.220 Loose volume: 48,678 LCY Source of estimated volume: Cat Handbook HOURLY PRODUCTION Average push distance: 60 feet Unadjusted hourly production: 4,532 feet Materials consistency description: Compacted fill or embankment 0.9 Average push gradient: 0 % Average site altitude: 4,532 feet Material weight: 2,800 lbs/LCY Weight description: Clay - Natural bed Job Condition Correction Factor Operator Skill: 0.750 (AVG.) Material consistency: 0.900 (CAT HB)) Dozing method: 1.000 (GEN.) | 1.1 | _ | | · · | | | |
| Total unit Cost/Hour: \$235.13 Total Fleet Cost/Hour: \$470.25 MATERIAL QUANTITIES Initial Volume: 39.900 Swell factor: 1.220 Loose volume: 48,678 LCY Source of estimated volume: Cat Handbook HOURLY PRODUCTION Average push distance: 60 feet Unadjusted hourly production: 1,246.9 LCY/hr Materials consistency description: Compacted fill or embankment 0.9 Average push gradient: 0 % Average site altitude: 4,532 feet Material weight: 2,800 lbs/LCY Weight description: Clay - Natural bed Job Condition Correction Factor Operator Skill: 0.750 (AVG.) Material consistency: 0.900 (CAT HB)) Dozing method: 1.000 (GEN.) | | - | | | | | |
| Total Fleet Cost/Hour: \$470.25 MATERIAL QUANTITIES Initial Volume: 39,900 Swell factor: 1.220 Loose volume: 48,678 LCY Source of estimated volume: Cat Handbook HOURLY PRODUCTION Average push distance: 60 feet Unadjusted hourly production: 1,246.9 LCY/hr Materials consistency description: Compacted fill or embankment 0.9 Average push gradient: 0 % Average site altitude: 4,532 feet Material weight: 2,800 lbs/LCY Weight description: Clay - Natural bed Job Condition Correction Factor Operator Skill: 0.750 (AVG.) Material consistency: 0.990 (CAT HB)) Dozing method: 1.000 (GEN.) | Operator Cost/I | Hour: | | \$40.04 | NA | | |
| Total Fleet Cost/Hour: \$470.25 MATERIAL QUANTITIES Initial Volume: 39,900 Swell factor: 1.220 Loose volume: 48,678 LCY Source of estimated volume: Cat Handbook HOURLY PRODUCTION Average push distance: 60 feet Unadjusted hourly production: 1,246.9 LCY/hr Materials consistency description: Compacted fill or embankment 0.9 Average push gradient: 0 % Average site altitude: 4,532 feet Material weight: 2,800 lbs/LCY Weight description: Clay - Natural bed Job Condition Correction Factor Operator Skill: 0.750 (AVG.) Material consistency: 0.900 (CAT HB)) Dozing method: 1.000 (GEN.) | Total unit Cost/Ho | ur: | \$235.13 | | | | |
| MATERIAL QUANTITIES Initial Volume: 39,900 Swell factor: 1.220 Loose volume: 48,678 LCY Source of estimated volume: TR-8 Source of estimated swell factor: Cat Handbook HOURLY PRODUCTION Average push distance: 60 feet Unadjusted hourly production: 1,246.9 LCY/hr Materials consistency description: Compacted fill or embankment 0.9 Average push gradient: 0 % Average site altitude: 4,532 feet Material weight: 2,800 lbs/LCY Weight description: Clay - Natural bed Job Condition Correction Factor Operator Skill: 0.750 (AVG.) Material consistency: 0.900 (CAT HB)) Dozing method: 1.000 (GEN.) | | _ | | | | | |
| Source of estimated volume: Source of estimated swell factor: TR-8 Cat Handbook HOURLY PRODUCTION Average push distance: Unadjusted hourly production: Materials consistency description: Compacted fill or embankment 0.9 Average push gradient: 4,532 feet Material weight: 2,800 lbs/LCY Weight description: Clay - Natural bed Job Condition Correction Factor Operator Skill: | Initial Volume: | 39,90 | 00 | | | | |
| Source of estimated swell factor: Cat Handbook HOURLY PRODUCTION Average push distance: 60 feet Unadjusted hourly production: 1,246.9 LCY/hr Materials consistency description: Compacted fill or embankment 0.9 Average push gradient: 0 % Average site altitude: 4,532 feet Material weight: 2,800 lbs/LCY Weight description: Clay - Natural bed Job Condition Correction Factor Operator Skill: 0.750 (AVG.) Material consistency: 0.900 (CAT HB)) Dozing method: 1.000 (GEN.) | Loose volume: | 48,67 | 8 LCY | | | | |
| Average push distance: 60 feet Unadjusted hourly production: 1,246.9 LCY/hr Materials consistency description: Compacted fill or embankment 0.9 Average push gradient: 0 % Average site altitude: 4,532 feet Material weight: 2,800 lbs/LCY Weight description: Clay - Natural bed Job Condition Correction Factor Operator Skill: 0.750 (AVG.) Material consistency: 0.900 (CAT HB)) Dozing method: 1.000 (GEN.) | | | | lbook | | | |
| Unadjusted hourly production: 1,246.9 LCY/hr Materials consistency description: Compacted fill or embankment 0.9 Average push gradient: 0 % | HOURLY PRO | DUCT | <u>ION</u> | | | | |
| Average push gradient: 0 % Average site altitude: 4,532 feet Material weight: 2,800 lbs/LCY Weight description: Clay - Natural bed Job Condition Correction Factor Source Operator Skill: 0.750 (AVG.) Material consistency: 0.900 (CAT HB)) Dozing method: 1.000 (GEN.) | 0 1 | | | Y/hr | | | |
| Average site altitude: 4,532 feet Material weight: 2,800 lbs/LCY Weight description: Clay - Natural bed Job Condition Correction Factor Source Operator Skill: 0.750 (AVG.) Material consistency: 0.900 (CAT HB)) Dozing method: 1.000 (GEN.) | Materials consister | icy desc | cription: Compa | acted fill or e | mbankment 0.9 | | |
| Weight description: Clay - Natural bed Job Condition Correction Factor Operator Skill: Oncolumn 1 0.750 Operator Skill: Oncolumn 2 | | | | | | | |
| Job Condition Correction FactorSourceOperator Skill:0.750(AVG.)Material consistency:0.900(CAT HB))Dozing method:1.000(GEN.) | Material weight: | = | 2,800 lbs/LCY | | | <u> </u> | |
| Operator Skill: 0.750 (AVG.) Material consistency: 0.900 (CAT HB)) Dozing method: 1.000 (GEN.) | Weight description | : _ | Clay - Natural bed | l | | | |
| Material consistency: 0.900 (CAT HB)) Dozing method: 1.000 (GEN.) | | | | 750 | | | |
| Dozing method: 1.000 (GEN.) | | | | | | | |
| | | | | | | | |
| Visibility: 1.000 (AVG.) | D0Z | | | | (AVG.) | | |

| 0.830 | (1 SHIFT/DAY) |
|-------|----------------------------------|
| 0.800 | (FND-RF) |
| 1.000 | (CAT HB) |
| 1.000 | (CAT HB) |
| 0.821 | (CAT HB) |
| 1.000 | (PAT) |
| | 0.800 1.000 1.000 0.821 |

Net correction: 0.3680

Adjusted unit production: 458.86 LCY/hr
Adjusted fleet production: 917.72 LCY/hr

JOB TIME AND COST

Fleet size: 2 Dozer(s)
Unit cost: \$0.512/LCY

Total job time: 53.04 Hours
Total job cost: \$24,943

WHEEL LOADER – LOAD AND CARRY WORK

| Task description: | Pond 4 - | Transport topso | oil | | | |
|---------------------------|-------------------|---------------------|------------------|------------------|---------------|----------|
| e: 23 Road Pit | | Permit Action | on: TR-8 | | Permit/Job#: | M1979089 |
| PROJECT IDEN | FIFICATION | | | | | |
| Task #: 04C | | State: Colora | ıdo | | Abbreviation: | None |
| Date: $\frac{-5/16/2}{}$ | 022 | County: Mesa | | | Filename: | M089-04c |
| User: ACY | - | | | | | |
| Agency or | organization nam | ne: DRMS | | | | |
| HOURLY EQUI | MENT COST | 1 | | | | |
| Basic Machin | e: CAT 972H | _ | | Horsepo | ower: | 287 |
| Attachment | | | - | Shift H | | per day |
| Attachment | 1. KOI 5 Cab | | = | Data So | | CRG) |
| | | | | Data So | direc. (C | eko) |
| Cost Breakdown: | | | TT.::: .: | 0/ | | |
| 0 | /T.T | ¢<0.00 | Utilizatio | on % | | |
| Ownership C | | \$60.09 | NA 100 | | | |
| Operating C Operator C | | \$61.01 \$35.97 | NA | | | |
| Total Unit C | | \$157.07 | INA | | | |
| Total Ollit C | | \$137.07 | | | | |
| Total Fleet 0 | Cost/Hour: | \$157.07 | | | | |
| MATERIAL QUA | ANTITIES | | | | | |
| Initial volume: | 5,620 | CCY | Swe | ell factor: 1. | 215 | |
| Loose volume: | 6,828 | | Sw | in factor | | |
| | | | | | | |
| | rce of estimated | | | ation, Mining & | z Safety | |
| Source | of estimated swe | Il factor: Cat H | Iandbook | | | |
| HOURLY PROD | <u>UCTION</u> | | | | | |
| Loader Cycle Time: | Unadjust | ed Basic Cycle Ti | me (load, dum | p, maneuver): | 0.525 | minutes |
| Cycle Time I | Factors | | | | Factor (min.) | Source |
| Ţ | | material 0.02 | | | 0.020 | (Cat HB) |
| | | yor or dozer piled | 1 10 ft. high or | less 0.01 | 0.010 | (Cat HB) |
| Truck Own | | on ownership of | | | -0.040 | (Cat HB) |
| | 1 | ant operation -0.04 | | | -0.040 | (Cat HB) |
| Dump ' | | nal target 0.00 | | | 0.000 | (Cat HB) |
| 1 | - · · | | Cycle Time A | djustment: | -0.050 | minutes |
| | | Ad | justed Basic C | ycle Time: | 0.475 | minutes |
| Rolling Resistance – | Road Condition | <u>s</u> | | | | |
| F | Iaul: Soft, rutt | ed dirt, no mainte | enance or water | , 4" tire penetr | ation 8.0 | |
| | | ed dirt, no mainte | | | | |
| | | , | | · F · 5 · · | | |
| Haul and Return Tin | <u>ne</u> | | | | | |
| | Length | Grade Res. | Rolling | Total Res. | Travel Time | g. |
| | (feet) | (%) | Res. (%) | (%) | (minutes) | Source |
| Haul Route: | 1000 | 0.00 | 8.00 | 8.00 | 1.1616 | (Cat HB) |
| Return Route: | 1000 | 0.00 | 8.00 | 8.00 | 1.0324 | (Cat HB) |

Total Travel Time: 2.1940 minutes Total Cycle Time: 2.6690 minutes **Load Bucket Capacity** Rated Capacity: LCY (heaped) 5.60 Bucket Fill Factor: Other - rock/dirt mixtures (100-120%) 1.100 1.100 LCY Adjusted Capacity: 6.16 Job Condition Correction Factors Site Altitude: 4532 feet Source Altitude Adj: (CAT HB) Job Efficiency: 0.83 (1 shift/day) Net Correction: 0.83 multiplier Unadjusted Hourly Unit Production: 138.48 LCY/Hour Adjusted Hourly Unit Production: 114.94 LCY/Hour Adjusted Hourly Fleet Production: 114.94 LCY/Hour JOB TIME AND COST

Total job time: **59.41** Hours

Total job cost: \$9,331

Fleet size: 1 Loader(s)

Unit cost: \$1.367 /LCY

BULLDOZER WORK

| Task description: | Pond 4 - | Grade half of trans | ported topsoil | | |
|--|-----------------------|---------------------|----------------------|---------------|----------|
| : 23 Road Pit | | Permit Action: | TR-8 | Permit/Job#: | M1979089 |
| PROJECT IDEN | TIFICATION | | | | |
| Task #: 04D | | State: Colorado | | Abbreviation: | None |
| Date: 5/16/2 | 2022 C | County: Mesa | | Filename: | M089-04d |
| User: ACY | | • - | | - | |
| Agency or | organization name | e: DRMS | | | |
| HOURLY EQUI | PMENT COST | | | | |
| Basic Machine: | Cat D8T - 8SU | | | | |
| Horsepower: | 310 Semi-Universal | | <u> </u> | | |
| Blade Type: Attachment: | NA | | <u> </u> | | |
| Shift Basis: | 1 per day | | | | |
| Data Source: | (CRG) | | | | |
| | | | <u>—</u> | | |
| Cost Breakdown: | | I | <u>Utilization %</u> | | |
| Ownership Cost/H | lour: | \$97.46 | NA | | |
| Operating Cost/H | | \$97.63 | 100 | | |
| Ripper own. Cost/H | | \$0.00 | NA | | |
| Ripper op. Cost/H | | \$0.00 | 0 | | |
| Operator Cost/H | | \$40.04 | NA | | |
| m . 1 . 1 . G | Φ227.42 | | | | |
| Total unit Cost/Hou | | | | | |
| Total Fleet Cost/Ho | our: \$470.25 | | | | |
| MATERIAL QU | ANTITIES | | | | |
| • | | | | | |
| Initial Volume: | 3,414 | | | | |
| Swell factor: | 1.000 | | | | |
| Loose volume: | 3,414 LCY | | | | |
| Source of estimated | volume: T | `R-8 | | | |
| Source of estimated | swell factor: | Cat Handbook | | | |
| HOURLY PROD | <u>DUCTION</u> | | | | |
| Average push distar | nce: 60 f | feet | | | |
| Unadjusted hourly p | | 46.9 LCY/hr | | | |
| Materials consistence | cy description: | Loose stockpile 1.2 | | | |
| Average push gradio Average site altitude | | | | | |
| Material weight: | 1,600 lbs/l | LCY | | | |
| Weight description: | Top Soil | | | | |
| Job Condition Corre | ection Factor | | Source | | |
| | rator Skill: | 0.750 | (AVG.) | | |
| Material co | | 1.200 | (CAT HB) | | |
| Dozin | ng method: | 1.000 | (GEN.) | | |
| | Visibility: | 1.000 | (AVG.) | | |

| Job efficiency: | 0.830 | (1 SHIFT/DAY) |
|------------------|-------|---------------|
| Spoil pile: | 0.800 | (FND-RF) |
| Push gradient: | 1.000 | (CAT HB) |
| Altitude: | 1.000 | (CAT HB) |
| Material Weight: | 1.438 | (CAT HB) |
| Blade type: | 1.000 | (PAT) |

Net correction: 0.8593

Adjusted unit production: 1,071.46 LCY/hr
Adjusted fleet production: 2142.92 LCY/hr

JOB TIME AND COST

Fleet size: 2 Dozer(s)
Unit cost: \$0.219/LCY

Total job time: 1.59 Hours 70tal job cost: 749

REVEGETATION WORK

| Task descrip | otion: | Pond 4 - Reveg | | | | | |
|---------------|-----------|----------------|-------------|------|---------------|---------------------|--|
| Site: 23 Road | Pit | Per | mit Action: | TR-8 | Permit/Jol | o#: <u>M1979089</u> | |
| PROJECT | IDENTIFIC | <u>CATION</u> | | | | | |
| Task #: | 04E | State: | Colorado | | Abbreviation: | None | |
| Date: | 5/25/2022 | County: | Mesa | | Filename: | M089-04e | |
| User: | ACY | | | | | | |

Agency or organization name: <u>DRMS</u>

FERTILIZING

Materials

| Description | Units / Acre | Unit | Cost / Unit | Cost /Acre |
|----------------------------|-----------------|-------|-------------------------------|------------|
| Potassium nitrate, 13-46-0 | 250.00 | pound | \$1.33 | \$332.50 |
| | | | Total Fertilizer Materials | |
| | | | Cost/Acre | \$332.50 |

Application

| Description | | Cost /Acre |
|---|---|------------|
| Tractor towed spreader (MEANS 32 01 90.13 0120) | | \$38.77 |
| | | |
| | Total Fertilizer Application Cost/Acre | \$38.77 |

TILLING

| Description | Cost /Acre |
|--|------------|
| Disc harrowing, 6" deep (MEANS 32 91 13.23 6100) | \$114.56 |
| | |
| Total Tilling Cost/Acre | \$114.56 |

SEEDING

| Seed Mix | Rate – PLS LBS / Acre | Seeds per SQ. FT | Cost /Acre |
|-------------------------------------|--------------------------------|------------------------|------------|
| Alkali Sacaton | 1.00 | 39.03 | \$28.48 |
| Nebraska Sedge | 1.00 | 20.94 | \$166.50 |
| Slender Wheatgrass - San Luis | 3.00 | 10.95 | \$12.75 |
| Red Top | 1.00 | 114.55 | \$7.88 |
| Reedgrass, Canadian (or Blue Joint) | 0.50 | 51.42 | \$101.63 |
| Reedgrass, Northern - Native | 0.50 | 51.42 | \$68.33 |
| Saltgrass, Inland | 1.00 | 13.86 | \$42.80 |
| Timothy - Climax | 1.00 | 28.70 | \$1.60 |
| Basin Wildrye - Trailhead | 1.50 | 6.10 | \$23.12 |
| Totals Seed Mix | 10.50 | 336.97 | \$453.07 |

Application

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

MULCHING and MISCELLANEOUS

Materials

| D 1.1 | Units / | T T 1. | Cont / Hart | C 4 / A |
|---|---------|---------------|-------------|------------|
| Description | Acre | Unit | Cost / Unit | Cost /Acre |
| Hay, delivered {MEANS 31 25 14.16 1200} | 2.00 | TON | \$307.02 | \$614.04 |
| Herbicide - 2,4D @ 1.0 pt/ac | 2.00 | ACRE | \$2.98 | \$5.96 |
| Herbicide - Curtail @ 4.0 pt/ac | 2.00 | ACRE | \$7.78 | \$15.56 |
| | | | | |
| Total Mulch Materials Cost/Acre | | | | \$635.56 |

Application

| Description | | Cost /Acre |
|---|--|------------|
| Crimping, with tractor {DMG survey data} | | \$71.57 |
| Power mulcher (MEANS 32 91 13.16 0350) | | \$106.29 |
| Weed spray, truck, aquatic area, nox. [DMG] | | \$62.72 |
| | | |
| | Total Mulch Application Cost/Acre | \$240.58 |

NURSERY STOCK PLANTING

| Common Name | No / Acre | Type and Size | Planting Cost | Fertilizer Pellet Cost | Cost /Acre |
|-------------|--------------|---------------|------------------|---------------------------|------------|
| | | | | | \$ |
| | | | | | |
| | | Totals | Nursery Stoc | k Cost / Acre | \$0.00 |

JOB TIME AND COST

| No. of Acres: | 7 | Cost /Acre: | \$2,047.04 | |
|---------------------------------|----------------|--------------|------------|--|
| Estimated Failure Rate: | 50% | Cost /Acre*: | \$1,675.77 | |
| Selected Replanting Work Items: | TILLING SEEDIN | IG MULCHING | | |

| Initial Job Cost: | \$14,329.28 |
|---------------------|-------------|
| Reseeding Job Cost: | \$5,865.20 |
| Total Job Cost: | \$20,194 |
| Job Hours: | 2.00 |

BULLDOZER RIPPING WORK

| | Task description: | Deco | mpact stockpile area | | | | | |
|----------|-------------------|-------------------------------------|---------------------------------------|--------------------|--------------------------|--------|----------|-------------|
| Site | : 23 Road Pit | | Permit Action: | TR-8 | Permit | /Job#: | M1979089 |) |
| | PROJECT ID | ENTIFICATIO | <u>ON</u> | | | | | |
| | Task #: 054 | A | State: Colorado | | Abbrevia | tion: | None | |
| | | 6/2022 | County: Mesa | | Filen | | M089-05a | |
| | User: AC | CY | | | | | | |
| | Agency | or organization | name: DRMS | | | | | _ |
| | HOURLY EQ | UIPMENT CO | <u>OST</u> | | | | | |
| | Basic | Machine: Cat | D8T - 8SU | | Horsepower: | 3 | 10 | |
| | Ripper Att | achment: 3-Sl | nank Ripper | ; | Shift Basis: | | er day | _ |
| | | | | | Data Source: | (Cl | RG) | _ |
| | Cost Breakdown: | <u>.</u> | | | | | | |
| | | | | | Utilization % | | | |
| | | Ownership Co | | \$97.46 | NA NA | | | |
| | Dinn | Operating Co er Ownership Co | | \$97.63 \$15.19 | 100 NA | | | |
| | | er Ownership Co per Operating Co | | \$9.94 | NA 100 | | | |
| | Kipj | Operator Co | | \$40.04 | NA | | | |
| | | Total Unit Co | · · · · · · · · · · · · · · · · · · · | \$260.26 | 1111 | | | |
| | | Total Fleet Co | st/Hour: \$520 |).51 | | | | |
| | MATERIAL (| | | | | | | |
| | | | Sele | ected estimating | g method: Area | | | |
| | Alternate Method | <u>ls:</u> | | | | | | |
| Seismic: | NA 25.00 | | Bank Volume: | NA 2.00 | BCY Volume: 80,66 | | NA D | CY or CCY |
| Area: | 23.00 | acres | Rip Depth (ft): | 2.00 | volume: |) / | В | C I of CC |
| | | | nated quantity: TR-8 | | | | | _ |
| | HOURLY PRO | <u>ODUCTION</u> | | | | | | |
| | Seismic: | | | NIA | C . / 1 | | | |
| | | S | eismic Velocity: | NA | feet/second | | | |
| | Area: | | | | | | | |
| | | | e Ripping Depth: | 2.56 | feet/pass | | | |
| | | _ | e Ripping Width: | 7.08 | feet/pass | | | |
| | | _ | Ripping Length: ge Dozer Speed: | 150.00 88.00 | feet/pass feet/minute | | | |
| | | | Maneuver Time: | 0.25 | minutes/pass | 3 | | |
| | | | ion per unit area: | 0.748 | acres/hour | , | | |
| | Job Condition Co | orrection Factors | | | | | | |
| | Un | adiusted Hourly | Unit Production: | 0.748 | Acres/hr | | | |
| | | 3 | Site Altitude: | 4,532 | 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 | | | |
| | | | Hourly Fleet Production: | 1.24 | Acres/hr | | | |
| | JOB TIME AN | · | - | | | | | |
| | Fleet size: | 2 | Grader(s) | Total job tim | ne: 20.1 2 | | Hours | ç |
| | _ | | Grader(s) | Č | | | 110013 | , |
| | Unit cost: | \$418.974 | Per acre | Total job cos | st: \$10,47 | 4 | | |

WHEEL LOADER – LOAD AND CARRY WORK

| | scription: | Transpo | rt topsoil of sto | скрие агеа | | | | |
|-----------|---|--|---|--|--|---|---|---|
| te: 23 Ro | ad Pit | | Permit Acti | ion: TR-8 | | P | ermit/Job#: | M1979089 |
| PROJE | CT IDENT | <u>IFICATION</u> | | | | | | |
| Task | #: 05B | | State: Color | ado | | Abb | reviation: | None |
| Dat | - | 22 (| County: Mesa | | | | Filename: | M089-05b |
| Use | | | | | | | | |
| | Agency or or | ganization nam | ne: DRMS | | | | | |
| HOUR | LY EOUIPN | MENT COST | 1 | | | | | |
| | asic Machine: | | • | | Hors | epower: | | 287 |
| | Attachment 1: | | | _ | | ft Basis: | | er day |
| | rttacimient 1. | KOI B Cab | | _ | | Source: | | CRG) |
| Cost Bro | akdown: | | | | | | | |
| Cost Dic | akuowii. | | | Utilizatio | on % | | | |
| (| Ownership Cos | st/Hour: | \$60.09 | NA | | | | |
| | Operating Cos | | \$61.01 | 100 | | | | |
| | Operator Cos | | \$35.97 | NA | | | | |
| | Total Unit Cos | st/Hour: | \$157.07 | | | | | |
| | Total Fleet Co | ost/Hour: | \$157.07 | | | | | |
| MATE | RIAL QUAN | VTITIES | | | | | | |
| | | | 000 | , | 11.6 | 1 015 | | |
| | tial volume: | 20,170 24,50 ° | CC` 7 LCY | | ell factor: | 1.215 | | |
| LOC | ose volume: _ | 24,50 | <u></u> | L | | | | |
| | | e of estimated | | _ | | | | |
| | Source of | estimated swe | ll factor: Cat | Handbook | | | | |
| HOUD | | | | | | | | |
| HOUN | LY PRODU | CTION | | | | | | |
| • | LY PRODU | | ed Basic Cycle T | Time (load, dum | p, maneuver | ·): | 0.525 | minutes |
| Loader (| Cycle Time: | Unadjusto | ed Basic Cycle T | ime (load, dum | p, maneuver | | | |
| Loader (| Cycle Time: Cycle Time Fa | Unadjuste | · | Time (load, dum | p, maneuver | Facto | r (min.) | Source |
| Loader (| Cycle Time: Cycle Time Fa Mate | Unadjusto | material 0.02 | | | Facto 0. | r (min.) 020 | Source (Cat HB) |
| Loader (| Cycle Time: Cycle Time Far Mate Stock | Unadjustoctors erial: Mixed Conve | material 0.02 yor or dozer pile | ed 10 ft. high or | less 0.01 | Facto 0. 0. | r (min.) 020 010 | Source (Cat HB) (Cat HB) |
| Loader (| Cycle Time: Cycle Time Far Mate Stock Truck Owner | Unadjusto ctors erial: Mixed cpile: Conve | material 0.02 yor or dozer pile on ownership of | ed 10 ft. high or f trucks and load | less 0.01 | Facto 0. 00 | r (min.) 020 010 .040 | Source (Cat HB) (Cat HB) (Cat HB) |
| Loader (| Cycle Time: Cycle Time Far Mate Stock | Unadjusto ctors erial: Mixed epile: Conve ship: Comm tion: Consta | material 0.02 yor or dozer pile | ed 10 ft. high or f trucks and load | less 0.01 | Facto 0. 00 | r (min.) 020 010 | Source (Cat HB) (Cat HB) |
| Loader (| Cycle Time: Cycle Time Fac Mate Stock Truck Owner: Opera | Unadjusto ctors erial: Mixed epile: Conve ship: Comm tion: Consta | material 0.02 yor or dozer pile on ownership of ant operation -0.0 al target 0.00 | ed 10 ft. high or f trucks and load | less 0.01 lers -0.04 | Facto 0. 00 -0 0. | r (min.) 020 010 .040 | Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) |
| Loader (| Cycle Time: Cycle Time Fac Mate Stock Truck Owner: Opera | Unadjusto ctors erial: Mixed epile: Conve ship: Comm tion: Consta | material 0.02 yor or dozer pile on ownership of ant operation -0.0 al target 0.00 | ed 10 ft. high or f trucks and load 04 | less 0.01 lers -0.04 djustment: | Facto 0. 00 -0 0. | r (min.) 020 010 .040 .040 | Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) |
| Loader (| Cycle Time: Cycle Time Fac Mate Stock Truck Owner Opera Dump Ta | Unadjusto ctors erial: Mixed epile: Conve ship: Comm tion: Consta | material 0.02 yor or dozer pile on ownership of ant operation -0.0 lal target 0.00 Ne | ed 10 ft. high or f trucks and load 04 et Cycle Time A | less 0.01 lers -0.04 djustment: | Facto 0. 00 -0 0. | r (min.) 020 010 040 .040 .040 000 | Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) |
| Loader (| Cycle Time: Cycle Time Fac Mate Stock Truck Owner Opera Dump Ta | Unadjuste ctors erial: Mixed epile: Conve ship: Comm tion: Consta rget: Nomin | material 0.02 yor or dozer pile on ownership of ant operation -0.0 lal target 0.00 Ne | ed 10 ft. high or f trucks and load 04 et Cycle Time A djusted Basic C | less 0.01 lers -0.04 djustment: ycle Time: | Facto 0. 00 -0 00 0. | r (min.) 020 010 .040 .040 .040 000 .050 | Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) |
| Loader (| Cycle Time: Cycle Time Far Mate Stock Truck Owners Opera Dump Ta | Unadjuste ctors erial: Mixed pile: Conve ship: Comm tion: Consta rget: Nomir | material 0.02 yor or dozer pile on ownership of int operation -0.0 lal target 0.00 Ne | ed 10 ft. high or f trucks and load 04 et Cycle Time A djusted Basic C | less 0.01 lers -0.04 djustment: ycle Time: | Facto 0. 00 -0 00 00 0. etration 8 | r (min.) 020 010 .040 .040 .050 475 | Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) |
| Loader (| Cycle Time: Cycle Time Fare Mate Stock Truck Owner: Opera Dump Ta Resistance – R Har | Unadjuste ctors erial: Mixed pile: Conve ship: Comm tion: Consta rget: Nomir | material 0.02 yor or dozer pile on ownership of int operation -0.0 lal target 0.00 Ne A | ed 10 ft. high or f trucks and load 04 et Cycle Time A djusted Basic C | less 0.01 lers -0.04 djustment: ycle Time: | Facto 0. 00 -0 00 00 0. etration 8 | r (min.) 020 010 .040 .040 .050 475 | Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) |
| Loader (| Cycle Time: Cycle Time Factoria Material Stock Truck Owner Opera Dump Ta | Unadjuste ctors erial: Mixed cpile: Conve ship: Comm tion: Consta rget: Nomin coad Conditions ul: Soft, rutt Soft, rutt | material 0.02 yor or dozer pile on ownership of int operation -0.0 al target 0.00 Ne A | ed 10 ft. high or f trucks and load 04 et Cycle Time A djusted Basic C tenance or water | less 0.01 lers -0.04 djustment: ycle Time: r, 4" tire pen | Facto 0. 00 -0 00 0. etration 8 | r (min.) 020 010 .040 .040 .050 475 | Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) |
| Loader (| Cycle Time: Cycle Time Fare Mate Stock Truck Owner: Opera Dump Ta Resistance – R Har | Unadjusted ctors erial: Mixed cpile: Conveship: Commution: Constarget: Nomin | material 0.02 yor or dozer pile on ownership of int operation -0.0 lal target 0.00 Ne All E ed dirt, no main ed dirt, no main Grade Res. | ed 10 ft. high or f trucks and load 04 et Cycle Time A djusted Basic Contenance or water tenance or water Rolling | less 0.01 lers -0.04 djustment: ycle Time: r, 4" tire pen r, 4" tire pen | Facto 0. 00 -0 00 00 0. etration 8 | r (min.) 020 010 .040 .040 .050 475 .0 | Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) |
| Rolling I | Cycle Time: Cycle Time Fare Mate Stock Truck Owner: Opera Dump Ta Resistance – R Har | Unadjuste ctors erial: Mixed cpile: Conve ship: Comm tion: Consta rget: Nomin coad Conditions ul: Soft, rutt Soft, rutt | material 0.02 yor or dozer pile on ownership of int operation -0.0 al target 0.00 Ne A | ed 10 ft. high or f trucks and load 04 et Cycle Time A djusted Basic C tenance or water | less 0.01 lers -0.04 djustment: ycle Time: r, 4" tire pen | Facto 0. 0. -0 0. -0 0. etration 8 etration 8 Tra | r (min.) 020 010 .040 .040 .050 475 | Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes |

Total Travel Time: 1.9746 minutes Total Cycle Time: 2.4496 minutes **Load Bucket Capacity** Rated Capacity: LCY (heaped) 5.60 Bucket Fill Factor: Other - rock/dirt mixtures (100-120%) 1.100 1.100 LCY Adjusted Capacity: 6.16 Job Condition Correction Factors Site Altitude: 4532 feet Source Altitude Adj: (CAT HB) Job Efficiency: 0.83 (1 shift/day) Net Correction: 0.83 multiplier Unadjusted Hourly Unit Production: 150.88 LCY/Hour Adjusted Hourly Unit Production: 125.23 LCY/Hour Adjusted Hourly Fleet Production: 125.23 LCY/Hour JOB TIME AND COST

Total job time: 195.69 Hours

\$30,737

Total job cost:

Fleet size: 1 Loader(s)

Unit cost: \$1.254 /LCY

BULLDOZER WORK

| | | | psoil for stockpile area | | |
|--|---|----------------------------|--------------------------|---------------|----------|
| 23 Road Pit | Per | mit Action: | TR-8 | Permit/Job#: | M1979089 |
| PROJECT IDENT | IFICATION | | | | |
| Task #: 05C | State: | Colorado | | Abbreviation: | None |
| Date: 5/16/202 | | Mesa | | Filename: | M089-05c |
| User: ACY | | | | - | |
| A gency or or | ganization name: DI | RMS | | | |
| | <u> </u> | ATVIS | | | |
| HOURLY EQUIPN | MENT COST | | | | |
| | Cat D8T - 8SU | | | | |
| <u> </u> | 310 | | | | |
| | Semi-Universal | | | | |
| | NA | | <u> </u> | | |
| | per day | | <u>—</u> | | |
| Data Source:(| CRG) | | | | |
| Cost Breakdown: | | | | | |
| | | | <u>Utilization %</u> | | |
| Ownership Cost/Hour | | \$97.46 | NA | | |
| Operating Cost/Hour | | \$97.63 | 100 | | |
| Ripper own. Cost/Hour | | \$0.00 | NA | | |
| Ripper op. Cost/Hou | | \$0.00 | 0 | | |
| | | ¢ 10 01 | 3.7.4 | | |
| Operator Cost/Hour | r: | \$40.04 | NA | | |
| • | | \$40.04 | NA | <u> </u> | |
| Total unit Cost/Hour: | \$235.13 | \$40.04 | NA NA | | |
| • | \$235.13 | \$40.04 | NA NA | | |
| Total unit Cost/Hour: Total Fleet Cost/Hour: | \$235.13 \$470.25 | \$40.04 | NA | | |
| Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN | \$235.13 \$470.25 NTITIES | \$40.04 | NA | | |
| Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume:12 | \$235.13 \$470.25 NTITIES 2,254 | \$40.04 | NA NA | | |
| Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 12 Swell factor: 1. | \$235.13 \$470.25 NTITIES 2,254 000 | \$40.04 | NA NA | | |
| Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 12 Swell factor: 1. | \$235.13 \$470.25 NTITIES 2,254 | \$40.04 | NA NA | | |
| Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 12 Swell factor: 1. Loose volume: 12 | \$235.13 \$470.25 NTITIES 2,254 000 2,254 LCY | \$40.04 | NA NA | | |
| Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 12 Swell factor: 1. | \$235.13 \$470.25 NTITIES 2,254 000 2,254 LCY Jume: TR-8 | | | | |
| Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 12 Swell factor: 1. Loose volume: 12 Source of estimated vo | \$235.13 \$470.25 NTITIES 2,254 000 2,254 LCY Jume: TR-8 | | NA NA | | |
| Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 12 Swell factor: 1. Loose volume: 12 Source of estimated vo | \$235.13 \$470.25 NTITIES 2,254 000 2,254 LCY Jume: TR-8 Cat Hand | | NA NA | | |
| Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 12 Swell factor: 1. Loose volume: 12 Source of estimated vo Source of estimated sw HOURLY PRODU | \$235.13 \$470.25 NTITIES 2,254 000 2,254 LCY slume: TR-8 Cat Hand | | NA NA | | |
| Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 12 Swell factor: 1. Loose volume: 12 Source of estimated vo Source of estimated sw HOURLY PRODUCTION Average push distance | \$235.13 \$470.25 NTITIES 2,254 000 2,254 LCY Jume: TR-8 Cat Hand CTION : 60 feet | lbook | NA NA | | |
| Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 12 Swell factor: 1. Loose volume: 12 Source of estimated vo Source of estimated sw HOURLY PRODU | \$235.13 \$470.25 NTITIES 2,254 000 2,254 LCY Jume: TR-8 Cat Hand CTION : 60 feet | lbook | NA NA | | |
| Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 12 Swell factor: 1. Loose volume: 12 Source of estimated vo Source of estimated sw HOURLY PRODUCTION Average push distance | \$235.13 \$470.25 NTITIES 2,254 000 2,254 LCY Jume: TR-8 Cat Hand CTION : 60 feet duction: 1,246.9 LC | lbook | | | |
| Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 12 Swell factor: 1. Loose volume: 12 Source of estimated vo Source of estimated sw HOURLY PRODUCT Average push distance Unadjusted hourly production Materials consistency of the stance of | \$235.13 \$470.25 NTITIES 2,254 000 2,254 LCY Plume: TR-8 Cat Hand CTION : 60 feet duction: 1,246.9 LC description: Loose : 0 % | lbook Y/hr | | | |
| Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 12 Swell factor: 1. Loose volume: 12 Source of estimated vo Source of estimated sw HOURLY PRODUCT Average push distance Unadjusted hourly production | \$235.13 \$470.25 NTITIES 2,254 000 2,254 LCY Plume: TR-8 Cat Hand CTION : 60 feet duction: 1,246.9 LC description: Loose | lbook Y/hr | | | |
| Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 12 Swell factor: 1. Loose volume: 12 Source of estimated vo Source of estimated sw HOURLY PRODUCT Average push distance Unadjusted hourly production Materials consistency of the stance of | \$235.13 \$470.25 NTITIES 2,254 000 2,254 LCY Plume: TR-8 Cat Hand CTION : 60 feet duction: 1,246.9 LC description: Loose : 0 % | lbook Y/hr | | | |
| Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 12 Swell factor: 1. Loose volume: 12 Source of estimated vo Source of estimated sw HOURLY PRODUCT Average push distance Unadjusted hourly proc Materials consistency of Average push gradient Average site altitude: | \$235.13 \$470.25 NTITIES 2,254 000 2,254 LCY Solume: TR-8 Cat Hand CTION : 60 feet duction: 1,246.9 LC description: Loose : 0 % 4,532 feet | lbook Y/hr | | | |
| Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 12 Swell factor: 1. Loose volume: 12 Source of estimated vo Source of estimated sw HOURLY PRODUCT Average push distance Unadjusted hourly proceed to the process of the | \$235.13 \$470.25 NTITIES 2,254 000 2,254 LCY Solume: TR-8 Cat Hand CTION : 60 feet duction: 1,246.9 LC description: Loose : 0 % 4,532 feet 1,600 lbs/LCY Top Soil | lbook Y/hr | | | |
| Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 12 Swell factor: 1. Loose volume: 12 Source of estimated vo Source of estimated sw HOURLY PRODUCT Average push distance Unadjusted hourly proceed Average push gradient Average site altitude: Material weight: Weight description: Job Condition Correction | \$235.13 \$470.25 NTITIES 2,254 000 2,254 LCY Jume: TR-8 Cat Hand CTION : 60 feet duction: 1,246.9 LC description: Loose : 0 % 4,532 feet 1,600 lbs/LCY Top Soil on Factor | lbook Y/hr | Source | | |
| Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 12 Swell factor: 1. Loose volume: 12 Source of estimated vo Source of estimated sw HOURLY PRODUCT Average push distance Unadjusted hourly proceed Average push gradient Average site altitude: Material weight: Weight description: Job Condition Correction | \$235.13 \$470.25 NTITIES 2,254 000 2,254 LCY Jume: TR-8 Cat Hand CTION : 60 feet duction: 1,246.9 LC description: Loose : 0 % 4,532 feet 1,600 lbs/LCY Top Soil on Factor or Skill: 0 | Ibook Y/hr stockpile 1.2 | | | |
| Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 12 Swell factor: 1. Loose volume: 12 Source of estimated vo Source of estimated sw HOURLY PRODUCT Average push distance Unadjusted hourly product of the company of the | \$235.13 \$470.25 NTITIES 2,254 000 2,254 LCY Jume: TR-8 Cat Hand CTION : 60 feet duction: 1,246.9 LC description: Loose : 0 % 4,532 feet 1,600 lbs/LCY Top Soil on Factor or Skill: 0 istency: 1 | Y/hr stockpile 1.2 | Source (AVG.) | | |

| Job efficiency: | 0.830 | (1 SHIFT/DAY) |
|------------------|-------|---------------|
| Spoil pile: | 0.800 | (FND-RF) |
| Push gradient: | 1.000 | (CAT HB) |
| Altitude: | 1.000 | (CAT HB) |
| Material Weight: | 1.438 | (CAT HB) |
| Blade type: | 1.000 | (PAT) |

Net correction: 0.8593

Adjusted unit production: 1,071.46 LCY/hr
Adjusted fleet production: 2142.92 LCY/hr

JOB TIME AND COST

Fleet size: 2 Dozer(s)
Unit cost: \$0.219/LCY

Total job time: 5.72 Hours
Total job cost: \$2,689

REVEGETATION WORK

| <u> </u> | Reveg stockpile an | | | | |
|--|-----------------------|------------------|--------------|--|---------------------|
| 23 Road Pit | Perm | nit Action: TR-8 | 3 | Permit/Jol | b#: <u>M1979089</u> |
| ROJECT IDENTIFICA | ATION | | | | |
| | | C-11- | | Allanyintion | NT |
| Task #: 05D Date: 5/16/2022 | | Colorado Mesa | | Abbreviation: Filename: | None M089-05d |
| User: ACY | County: | Mesa | | rnename. | M1089-03u |
| | | | | | |
| Agency or organiza | tion name: <u>DRN</u> | <u>4S</u> | | | |
| ERTILIZING | | | | | |
| laterials | | | | | |
| | | Units / | | | |
| Description | | Acre | Unit | Cost / Unit | Cost /Acre |
| Potassium nitrate, 13-46-0 |) | 250.00 | pound | \$1.33 | \$332.50 |
| | | | | Total Fertilizer Materials Cost/Acro | s |
| Tractor towed spreader (N | AEANS 32 01 70.1 | 3 0120) | | | \$38.77 |
| | | Total | Fertilizer A | pplication Cost/Acro | \$38.77 |
| ILLING | | | | | |
| Description | | | | | Cost /Acre |
| Disc harrowing, 6" deep (| MEANS 32 91 13. | 23 6100) | | | \$114.56 |
| | | | То | tal Tilling Cost/Acre | ° \$114.56 |
| EEDING | | | | | |
| | | | | Rate – PLS Seeds | Cost /Acre |
| Seed Mix | | | I | LBS / per SQ. | |
| | 1 | | | LBS / Acre per SQ. FT | \$34.71 |
| Seed Mix Indian Ricegrass - Paloma Bluebunch Wheatgrass - S | | | 1 1 3 | LBS / per SQ. FT | \$34.71 \$32.63 |
| Indian Ricegrass - Paloma Bluebunch Wheatgrass - S | Secar | | | LBS / per SQ. FT 3.12 10.10 3.00 9.64 | \$32.63 |
| Indian Ricegrass - Paloma | Secar | | 3 3 | LBS / per SQ. FT 3.12 10.10 | |

Totals Seed Mix

0.50

8.07

1.32

33.71

Needle and Thread

\$20.93

\$107.30

| 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 |
|---|-----------------|------|-------------|------------|
| Hay, delivered {MEANS 31 25 14.16 1200} | 2.00 | TON | \$307.02 | \$614.04 |
| Herbicide - 2,4D @ 1.0 pt/ac | 2.00 | ACRE | \$2.98 | \$5.96 |
| Herbicide - Curtail @ 4.0 pt/ac | 2.00 | ACRE | \$7.78 | \$15.56 |
| | | | | |
| Total Mulch Materials Cost/Acre | | | | \$635.56 |

Application

| Description | | Cost /Acre |
|---|--|------------|
| Crimping, with tractor {DMG survey data} | | \$71.57 |
| Power mulcher (MEANS 32 91 13.16 0350) | | \$106.29 |
| Weed spray, truck, non-aquatic area, nox. [DMG] | | \$62.72 |
| | | |
| | Total Mulch Application Cost/Acre | \$240.58 |

NURSERY STOCK PLANTING

| Common Name | No / Acre | Type and Size | Planting Cost | Fertilizer Pellet Cost | Cost /Acre | | |
|-------------|--------------|---------------|------------------|---------------------------|------------|--|--|
| | | | | | \$ | | |
| | | | | | | | |
| | \$0.00 | | | | | | |

JOB TIME AND COST

 No. of Acres:
 25
 Cost /Acre:
 \$1,701.27

 Estimated Failure Rate:
 50%
 Cost /Acre*:
 \$1,330.00

*Selected Replanting Work Items: TILLING, SEEDING, MULCHING

Initial Job Cost: \$42,531.75

Reseeding Job Cost: \$16,625.00

Total Job Cost: \$59,157

40.00

REVEGETATION WORK

| User: ACY Agency or organization name: DRMS ERTILIZING aterials Description Units / Acre Unit Cost / Unit Cost S S Total Fertilizer Materials Cost/Acre S0.00 ELLING Description Cost S Total Fertilizer Application Cost/Acre S0.00 ELLING Description Cost S Total Tilling Cost/Acre S0.00 EEDING Fatal Tilling Cost/Acre S0.00 EEDING Fatal Tilling Cost/Acre S0.00 EDING Fatal Tilling Cost/Acre S0.00 EDING Fatal Tilling Cost/Acre S0.00 Seed Mix Seed Mix Seed Mix O.00 O.00 S0.00 EDICATION OR SO.00 EDICATION OR | 23 Road Pit | Permit A | Action: TR-8 | | | Permit/Job# | t: <u>M1979089</u> |
|--|-----------------------------|-------------------------------|--------------|------------|--------------|--------------|--------------------|
| Task #: 06A | <u>ROJECT IDENTIFIC</u> ATI | <u>ON</u> | | | | | |
| Date: S/16/2022 County: Mesa Filename: M089-4 | | State: Colorado Abbreviation: | | | | | None |
| DRMS DRMS | Date: 5/16/2022 | nte: 5/16/2022 County: Mesa F | | | | | M089-06a |
| Description Units / Acre | User: ACY | | | | | | |
| Description Units / Acre | Agency or organization | n name: DRMS | | | | | |
| Description Units / Acre | <u>ERTILIZING</u> | | | | | | |
| Description Acre Unit Cost / Unit Cost \$ \$ \$ \$ Total Fertilizer Materials Cost/Acre \$0.06 Description Cost Total Fertilizer Application Cost/Acre \$0.06 LLING Description Cost S Total Tilling Cost/Acre \$0.06 EEDING Seed Mix Rate - PLS per SQ. FT LBS / Acre FT S Totals Seed Mix 0.00 0.00 \$0.06 Publication | Iaterials | | | 1 | | | |
| Total Fertilizer Materials Cost/Acre \$0.00 pplication Description Cost \$ Total Fertilizer Application Cost/Acre \$0.00 ILLING Description Cost \$ Total Tilling Cost/Acre \$0.00 EEDING Seed Mix Rate - PLS Seeds PLS LBS / FT Cost LBS / FT Seeds PT Cost S Total Seed Mix 0.00 0.00 \$0.00 Sepplication | Description | | | Unit | Cos | st / Unit | Cost /Acre |
| Materials Cost/Acre \$0.00 pplication Description Cost Total Fertilizer Application Cost/Acre \$0.00 ILLING Description Cost S Total Tilling Cost/Acre \$0.00 EEDING Seed Mix Rate – PLS | | | | | \$ | | \$ |
| Total Fertilizer Application Cost/Acre Cost S | | | | | Tot | | |
| Description Total Fertilizer Application Cost/Acre \$0.00 ILLING Description Cost \$ Total Tilling Cost/Acre \$0.00 EEDING Seed Mix Rate - PLS PLS Seeds per SQ. Acre FT Seed Mix Seed Mix 0.00 0.00 \$0.00 pplication | | | | | | | \$0.00 |
| Seed Mix Rate - PLS LBS / Acre Seeds per SQ. FT Totals Seed Mix 0.00 0.00 \$0.00 pplication | TLLING Description | | Total | Fertilizer | Applicatio | on Cost/Acre | \$0.00 Cost /Acre |
| Seed Mix Rate - PLS Seeds per SQ. FT Seed Mix 5 Seeds per SQ. FT 5 Seeds per SQ | | | | ŗ | Total Tillin | ng Cost/Acre | \$ \$0.00 |
| Seed Mix PLS LBS / Seeds per SQ. FT \$ Totals Seed Mix 0.00 0.00 \$0.00 | SEEDING | | | | | | |
| Totals Seed Mix 0.00 0.00 \$0.00 | Seed Mix | | | | PLS LBS / | per SQ. | Cost /Acre |
| pplication \$0.00 | | | | | | | \$ |
| pplication | | | Totals S | eed Mix | 0.00 | 0.00 | \$0.00 |
| | Application | | | | • | • | • |
| Description | | | | | | | Cost /Acre |
| \$ | Description | | | | | | |

| Total Seed Application Cost/Acre | \$0.00 |
|----------------------------------|--------|

MULCHING and MISCELLANEOUS

Materials

| Description | Units / Acre | Unit | Cost / Unit | Cost /Acre |
|---------------------------------|-----------------|------|-------------|------------|
| | | | \$ | \$ |
| Total Mulch Materials Cost/Acre | | | | \$0.00 |

Application

| Description | | Cost /Acre |
|-------------|-----------------------------------|------------|
| | | \$ |
| | Track Mark Application Continue | |
| | Total Mulch Application Cost/Acre | \$0.00 |

NURSERY STOCK PLANTING

| Common Name | No / Acre | Type and Size | Planting Cost | Fertilizer Pellet Cost | Cost /Acre |
|--------------------|--------------|-----------------------------|------------------|---------------------------|------------|
| Cottonwood, Plains | 30 | Container, 5 gallon (MEANS) | \$51.52 | \$2.40 | \$1,545.60 |
| | \$1,545.60 | | | | |

JOB TIME AND COST

| No. of Acres: | 1 | Cost /Acre: | \$1,545.60 |
|----------------------------------|---------|--------------|------------|
| Estimated Failure Rate: | 50% | Cost /Acre*: | \$1,545.60 |
| *Selected Replanting Work Items: | NURSERY | | |

Initial Job Cost: \$1,545.60

Reseeding Job Cost: \$772.80

Total Job Cost: \$2,318

Job Hours: 30.00

EQUIPMENT MOBILIZATION/DEMOBILIZATION

| Task description: Init | tial Mobilization | <u> </u> | | |
|---------------------------|-------------------|----------------|-----------------------|---------------------------|
| e: 23 Road Pit | Permi | t Action: TR-8 | Perr | mit/Job#: <u>M1979089</u> |
| PROJECT IDENTIFICATI | <u>ON</u> | | | |
| Task #: 10A | State: C | colorado | Abbrevia | tion: None |
| Date: 5/16/2022 | County: N | Iesa | Filen | ame: M089-10a |
| User: ACY | | | | |
| Agency or organization | n name: DRM | S | | |
| | | | | |
| EQUIPMENT TRANSPOR | T RIG COST | | | |
| | | | Shift basis: | 1 per day |
| | | | Cost Data Source: | |
| | | | | |
| Truck Tractor Desc | ription: GENI | ERIC ON-HIGHV | , | 6X4, DIESEL POWERED |
| T 1 T 1 D | | SEMEDIC FOLD | 400 HP (2ND HALF, 200 | , |
| Truck Trailer Desc | ription: | | ING GOOSENECK, DROP | ~ |
| | | 1 | RAILER (25T, 50T, AND | 1001) |
| Cost Breakdown: | | | | |
| Available Rig Capacities | 0-25 Tons | 26-50 Tons | 51+ Tons | |
| Ownership Cost/Hour: | \$21.28 | \$37.94 | \$47.67 | |
| Operating Cost/Hour: | \$26.55 | \$50.48 | \$56.21 | |
| Operator Cost/Hour: | \$20.54 | \$20.54 | \$20.54 | |

\$23.53

\$132.49

\$23.53

\$147.95

NON ROADABLE EQUIPMENT:

Total Unit Cost/Hour:

Helper Cost/Hour:

\$0.00

\$68.37

| Machine | Weight/ | Owner ship | Haul Rig | Fleet | Haul Trip | Return Trip | DOT Permit |
|------------------|---------|---------------|-------------|-------|------------|----------------|-------------|
| Description | Unit | Cost/hr/ unit | Cost/hr/uni | Size | Cost/hr/ | Cost/hr/ fleet | Cost/ fleet |
| | (TONS) | | t | | fleet | | |
| Submersible pump | 0.70 | \$14.98 | \$68.37 | 3 | \$250.05 | \$205.11 | \$250.00 |
| - 460v, 8 in. | | | | | | | |
| Cat 627G w/push- | 43.48 | \$188.81 | \$132.49 | 4 | \$1,285.20 | \$529.96 | \$1,000.00 |
| pull | | | | | | | |
| Cat D8T - 8SU | 47.71 | \$97.46 | \$132.49 | 2 | \$459.90 | \$264.98 | \$500.00 |
| CAT PS-150C | 5.39 | \$45.37 | \$68.37 | 1 | \$113.74 | \$68.37 | \$250.00 |
| (2004) | | | | | | | |
| CAT 972H | 28.00 | \$60.09 | \$132.49 | 1 | \$192.58 | \$132.49 | \$250.00 |
| Drill/Broadcast | 25.00 | \$7.98 | \$68.37 | 1 | \$76.35 | \$68.37 | \$250.00 |
| Seeder with | | | | | | | |
| Tractor | | | | | | | |
| Power Mulcher | 6.00 | \$14.98 | \$68.37 | 1 | \$83.35 | \$68.37 | \$250.00 |
| (Bowie LD-90) | | | | | | | |

Subtotals: \$2,461.17 \$1,337.65 \$2,750.00

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. | \$57.93 | 1 | \$57.93 | \$57.93 |
| Flatbed Truck, 4x2, 30K GVW | \$58.13 | 1 | \$58.13 | \$58.13 |

| Light Duty Pickup, 4x4, 1 T. | \$121.54 | 1 | \$121.54 | \$121.54 |
|------------------------------|----------|---|----------|----------|
| Crew | | | | |

Subtotals: \$237.60 \$237.60

EQUIPMENT HAUL DISTANCE and Time

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

Total one-way travel distance: Average Travel Speed: 5.00 miles 40.00 mph

Total Non-Roadable Mob/Demob Cost *

** two round trips with haul rig: Total Roadable Mob/Demob Cost **

** one round trip, no haul rig:

\$59.40

\$11,372.05

Transportation Cycle Time:

Unloading Time (Hours): 0.50 NA
Subtotals: 1.25 0.25

JOB TIME AND COST

Total job time: 2.50 Hours

Total job cost: \$11,431

EQUIPMENT MOBILIZATION/DEMOBILIZATION

| Task description: Se | condary Mobiliz | ation | | |
|---------------------------------|--------------------------|---------------------|----------------------------|---------------------|
| te: 23 Road Pit | | Permit Action: TR-8 | | b#: <u>M1979089</u> |
| PROJECT IDENTIFICAT | <u>ION</u> | | | |
| Task #: 10B | State: 0 | Colorado | Abbreviation: | None |
| Date: 5/16/2022 | County: N | Mesa | Filename: | M089-10b |
| User: ACY | - | | | |
| Agency or organization | n name: DRM | S | | |
| rigoney of organization | ii iidiiic. <u>Bravi</u> | 5 | | |
| EQUIPMENT TRANSPOR | T RIG COST | | | |
| EQUI MENT TRANSFOR | T RIG COST | | | |
| | | | | 1 per day |
| | | | Cost Data Source: | CRG Data |
| Truck Tractor Des | cription: GEN | ERIC ON-HIGHW | AY TRUCK TRACTOR, 6X4, | DIESEL POWERED, |
| | 1 | | 400 HP (2ND HALF, 2006) | , |
| Truck Trailer Des | cription: | GENERIC FOLDIN | IG GOOSENECK, DROP DEC | K EQUIPMENT |
| | - | TR | AILER (25T, 50T, AND 100T) | |
| C . D . 1.1 | | | | |
| Cost Breakdown: | | | | |
| Available Rig Capacities | 0-25 Tons | 26-50 Tons | 51+ Tons | |
| Ownership Cost/Hour: | \$21.28 | \$37.94 | \$47.67 | |
| Operating Cost/Hour: | \$26.55 | \$50.48 | \$56.21 | |
| Operator Cost/Hour: | \$20.54 | \$20.54 | \$20.54 | |
| Helper Cost/Hour: | \$0.00 | \$23.53 | \$23.53 | |

NON ROADABLE EQUIPMENT:

Total Unit Cost/Hour:

| Machine | Weight/ | Owner ship | Haul Rig | Fleet | Haul Trip | Return Trip | DOT Permit |
|-----------------|---------|---------------|-------------|-------|-----------|----------------|-------------|
| Description | Unit | Cost/hr/ unit | Cost/hr/uni | Size | Cost/hr/ | Cost/hr/ fleet | Cost/ fleet |
| | (TONS) | | t | | fleet | | |
| Drill/Broadcast | 25.00 | \$7.98 | \$68.37 | 1 | \$76.35 | \$68.37 | \$250.00 |
| Seeder with | | | | | | | |
| Tractor | | | | | | | |
| Power Mulcher | 6.00 | \$14.98 | \$68.37 | 1 | \$83.35 | \$68.37 | \$250.00 |
| (Bowie LD-90) | | | | | | | |

\$132.49

\$68.37

\$147.95

Subtotals: \$159.70 \$136.74 \$500.00

ROADABLE EQUIPMENT:

| Machine Description | Total Cost/hr/ unit | Fleet Size | Haul Trip Cost/hr/ fleet | Return Trip Cost/hr/ fleet |
|--------------------------------------|------------------------|------------|-----------------------------|-------------------------------|
| Flatbed Truck, 4x2, 30K GVW | \$58.13 | 1 | \$58.13 | \$58.13 |
| Light Duty Pickup, 4x4, 1 T. Crew | \$121.54 | 1 | \$121.54 | \$121.54 |

| Subtotals: \$179.67 \$179.6' | 7 |
|------------------------------|---|
|------------------------------|---|

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:

Total one-way travel distance:

Average Travel Speed:

GRAND JUNCTION
miles
40.00
mph

Total Non-Roadable Mob/Demob Cost *
 '* two round trips with haul rig:
 Total Roadable Mob/Demob Cost **
 ** one round trip, no haul rig:

\$1,393.51

\$44.92

Transportation Cycle Time:

| | Non- | |
|-------------------------|-----------|-----------|
| | Roadable | Roadable |
| | Equipment | Equipment |
| Haul Time (Hours): | 0.13 | 0.13 |
| Return Time (Hours): | 0.13 | 0.13 |
| Loading Time (Hours): | 0.50 | NA |
| Unloading Time (Hours): | 0.50 | NA |
| Subtotals: | 1.25 | 0.25 |

JOB TIME AND COST

Total job cost: 2.50 Hours

Total job cost: \$1,438



Department of Natural Resources

Bonding inputs for TR-8 w/ adequacy 1 responses

| Task | Form Used | Description |
|------|-----------|--|
| 01a | Demo | Remove Scale 70'x12' haul off site-no disposal trade for scrap |
| | | Demo Scale house 9'x18'x8' and push into Pond 1 |
| | | Remove misc. equipment (not mining related) from areas to be regraded or reveg. Est 20-30 cy haul off site-no disposal trade for scrap |
| 02a | Pump | Dewater Pond 2 – 4.6 ac approx. dewatered 6 ft. (47.6 ac.ft) |
| | | Pump into Pond 3, 100 ft. away, use 3 pumps |
| | | Recharge from bottom (690,960 sq.ft.) Med porosity |
| 02b | Dozer | Grade approx. 355 LF of 1:1 slopes to 3H:1V at 14' H |
| | | backfill slopes = 2,425 CCY |
| 02c | Loader | Transport topsoil for Pond 2 veg buffer use 972H |
| | | 1.7 ac @ 6" deep is 1,390 CCY of topsoil |
| 02d | Dozer | Grade half of transported topsoil around Pond 2 = 846 LCY |
| 02e | Reveg | Reveg topsoiled areas around pond 2 = 1.7 ac |
| | | Riparian mix |
| 03a | Pump | Dewater Pond 3 – 5.6 ac approx. dewatered 10 ft. (56 ac.ft) |
| | | Pump into Pond 4 or 2, 100 ft. away, use 3 pumps |
| | | Recharge from bottom (435,600 sq.ft.) Med porosity |
| 03b | Dozer | Grade approx. 485 LF of 2:1 to 3H: 1V at 12' H |
| | | Backfilled slopes = 1,295 CCY |
| 03c | Loader | Transport topsoil for Pond 3 veg buffer use 972H |
| | | 1.6 ac @ 6" deep is 1,295 CCY of topsoil |
| 03d | Dozer | Grade half of transported topsoil around Pond 3 = 787 LCY |
| 03e | Reveg | Reveg topsoiled areas around pond 3 = 1.6 ac |
| | | Riparian mix |



| 04a | Pump | Dewater Pond 4 – 15.8 ac approx. dewatered 8 ft. (126.4 ac.ft) Pump into Pond 3, 100 ft. away, use 3 pumps Recharge from bottom (174,420 sq.ft.) Med porosity |
|----------|-------------|---|
| 04b | Dozer | Grade approx. 3,830 LF of 2:1 slopes to 3H:1V at 24' H cut/fill slopes = 39,900 BCY |
| 04c | Loader | Transport topsoil for Pond 4 veg buffer 7 ac @ 6" deep is 5,620 CCY of topsoil |
| 04d | Dozer | Grade half of transported topsoil around Pond 4 = 3,141 LCY |
| 04e | Reveg | Reveg topsoiled areas around pond 4 = 7 ac Riparian mix |
| 05a | Ripper | Decompact stockpile areas 25 acres |
| 05b | Loader | Transport topsoil to stockpile areas 25 ac @ 6" deep is 20,170 CCY |
| 05c | Dozer | Grade half of transported topsoil around stockpile area = 12,254 LCY |
| 05d | Reveg | Reveg stockpile area 25 ac with dryland mix |
| 06a | Reveg | Plant container stock of Cottonwoods 30 from TR-7 @ 30 min each |
| 07b | Misc. Truck | Water trees weekly, 2 hr per week for 1 yr per AM-3 Adequacy response |
| 10a | Mob | Initial Mobilization |
| 10b | Mob | Secondary Mobilization |
| Indirect | | Add contingency and Job superintendent costs Total indirect cost is approx. 30% of direct cost |
| muncet | | |

Please feel free to contact me with any further questions. Amy Yeldell at the Division of Reclamation, Mining and Safety, Rm 215, 1001 E 62nd Ave, Denver CO 80216. Direct contact can be made by phone at 303-866-3567 Ext 8183 or via email at amy.yeldell@state.co.us

Sincerely,

Amy Geldell

Amy Yeldell

Environmental Protection Specialist

Ec:

Travis Marshall, Senior EPS, Grand Junction DRMS