

October 31, 2023

Rod Havens McAtee Construction Company 6215 Clear Creek Parkway Cheyenne, WY 82007

RE: Division's Financial Warranty Cost Estimate for Timnath Pit (M1989-056)

Dear Mr. Havens,

On August 24, 2023 the Division performed an inspection as part of the Succession of Operators Application (SO-1) at the Timnath Pit. As part of the inspection the financial warranty for the mine was calculated. The Division used observations made during the inspection, and permit file information during the cost estimate calculations.

A copy of the mine's reclamation cost estimate is attached for your review. The Division will allow 14 days or until **November 14, 2023** to review and comment on the reclamation cost estimate prior to issuing a surety increase notice for the Timnath Pit. Once the surety increase is issued by the Division, the Operator will have 60 days to provide the additional financial warranty.

If you need additional information or have any questions, please contact me by telephone at **303-866-3567 x8114**, or by email at patrick.lennberg@state.co.us.

Sincerely,

Patrick Lennberg

Environmental Protection Specialist

Attachment: Reclamation Cost Estimate

cc: Jared Ebert, DRMS

ec: Rodney Havens, McAtee Const. Co., rhavens@simonteam.com

Joshua Kruchten, McAtee Const. Co., jkruchten@simonteam.com





COST SUMMARY WORK

| - | Task description: | Cost Summary | | | | | |
|-----------|--|------------------------------|--------------|-------------|-------------|---------------------------|--------------------|
| Site: | Timnath Pit | Permit Act | ion: SO-1 | | | Permit/Job | #: <u>M1989056</u> |
| <u>P</u> | ROJECT IDENTIFICA | <u>ATION</u> | | | | | |
| | Task #: 000 Date: 10/30/2023 User: JPL | State: Colora County: Larim | | | A | bbreviation: Filename: | None 000 |
| | Agency or organiz | ation name: DRMS | | | | | |
| <u>T</u> | ASK LIST (DIRECT (| COSTS) | | | | | |
| ask | Description | | Form Used | | leet ize | Task Hours | Cost |
| 01 | Demolition of Facilitie | es s | | DLISH 1 | | 860.50 | \$75,142 |
| 02 | Rip facilities area and | | RIPPE | | F | 11.31 | \$10,113 |
| 03 | | ghwalls in Phase II and III | | | | 7.38 | \$6,511 |
| 04 | Pump water from de-weembankment | vatering pit to remove | PUMF | PING 1 | | 38.31 | \$2,683 |
| 05 | Remove dewatering po | ond embankment | DOZE | ER 2 | | 38.60 | \$33,984 |
| 06 | Spread Topsoil Over A | Affected Area | SCRA | PER1 2 | | 27.65 | \$105,469 |
| 07 | Revegetation of Drylan | nd Area | REVE | GE 1 | | 15.00 | \$35,914 |
| 80 | Revegetation of Wet N | | REVE | GE 1 | | 40.00 | \$98,823 |
| 09 | Mobilization of Equip | ment | MOBI | LIZE 1 | | 4.72 | \$21,815 |
| | | | | SUBTOTA | LS: | 1043.47 | \$390,454 |
| <u>II</u> | NDIRECT COSTS | | | | | | |
| <u>O</u> | VERHEAD AND PROFIT | <u>.</u> | | | | | |
| | Liability insurance | ee: 2.02 | | | | Total = \$7 | 7,887 |
| | Performance bon | | | | | | k,100 |
| | Job superintender | | | | | | 32,540 |
| | Prof | | | | | Total = | 39,045 |
| | | | | | | | 33,572 |
| | | CO | NTRACT A | MOUNT (dir | ect + C | $(0.8 P) = _{84}$ | 174,026 |
| L | EGAL - ENGINEERING - | PROJECT MANAGEME | ENT: | | | | |
| | Financial warranty pro | cessing (legal/related costs | s): \$500 | | | Total = \$5 | 500 |
| | | or contract/bid preparatio | | | | | 31,238 |
| | | ement and/or administration | | | | | 23,180 |
| | 3 | CONTINGENC | | | | Total =\$0 | |
| | | | Т | OTAL INDII | RECT | COST = \$1 | 38,490 |
| | | TOTAL | BOND AM | OUNT (direc | t + ind | lirect) = \$5 | 528,944 |

DEMOLITION WORK

| Ta | ask description: | Demolition | of Facilities | | | | |
|---------------|-------------------|----------------|----------------|------|------------------------------|------|--|
| Site: | Site: Timnath Pit | | Permit Action: | SO-1 | Permit/Job#: <u>M1989056</u> | | |
| PROJEC | T IDENTIFICATI | ON | | | | | |
| Task #: | 001 | State: | Colorado | | Abbreviation: | None | |
| Date: | 10/30/2023 | County: | Larimer | | Filename: | 001 | |
| User: | JPL | <u> </u> | | | | | |
| | Agency or organ | nization name: | DRMS | | | | |

UNIT COSTS

Location adjustment: 94.70 %

| Structure or Item Description | Dimensions | Demolition Menu Selection | Quantity | Unit | Unit Cost | Total Cost |
|---------------------------------|------------------------------|---|------------|------|--------------|-------------|
| Mine Office - Structure | 42,960 CF | Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul | 42,960.00 | CF | \$0.24 | \$10,203.00 |
| Mine Office - Floor | 3,580 SF | Floor, concrete, demolition only, average reinforcing - 4 in. thick | 3,580.00 | SF | \$0.80 | \$2,859.70 |
| Maintenance Shop - Structure | 108000 CF | Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul | 108,000.00 | CF | \$0.24 | \$25,650.00 |
| Maintenance Shop - Floor | 7200 SF | Floor, concrete, demolition only, average reinforcing - 4 in. thick | 7,200.00 | SF | \$0.80 | \$5,751.36 |
| Covered Storage | 54075 CF | Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 200 ft. push | 54,075.00 | CF | \$0.22 | \$11,701.83 |
| Concrete Batch Plant | 46080 | Bldg. (MC) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul | 46,080.00 | CF | \$0.42 | \$19,501.06 |
| Aspahlt Batch Plant | 2 Silos | Haul tank to certified salvage dump - 3,000 to 5,000 gal. tank | 2.00 | EA | \$760.00 | \$1,520.00 |
| Various Conveyors | 1000 LF ' Long X 3' W X 2 | Conveyor, demolition, on-site disposal, existing pit, 50 ft. push | 6,000.00 | CF | \$0.36 | \$2,160.00 |

| | | | | Total Cost | |
|------------|--------|---------------|-------------|-------------------|-------------|
| | | Subtotal | | (adjusted for | |
| Job Hours: | 860.50 | (unadjusted): | \$79,346.95 | location): | \$75,141.56 |

BULLDOZER RIPPING WORK

| Task description: | Rip facilities area and pr | imary haul road | 1 | | |
|-----------------------------|---|--------------------|---------------------|--------------|-------------|
| Site: Timnath Pit | Permit Action | on: SO-1 | P | ermit/Job#: | M1989056 |
| PROJECT IDENTIF | <u>FICATION</u> | | | | |
| Task #: _ 002 | State: Colorad | lo | Abbrev | viation: Nor | ne |
| Date: 10/30/20 User: JPL | County: Larimen | r | File | ename: 002 | |
| | anization name: DRMS | | | | |
| HOURLY EQUIPM | ENT COST | | | | |
| Basic Machin | ne: Cat D8T - 8SU | | Horsepower: | 310 | |
| Ripper Attachme | nt: 3-Shank Ripper | | Shift Basis: | 1 per day | |
| | | | Data Source: | (CRG) | |
| Cost Breakdown: | | | Utilization % | | |
| | ership Cost/Hour: | | NA NA | | |
| | erating Cost/Hour: | \$143.92 | 100 | | |
| | ership Cost/Hour: | \$14.11 \$7.45 | NA 100 | | |
| | erating Cost/Hour: perator Cost/Hour: | 0.40.04 | 100 NA | | |
| - | al Unit Cost/Hour: | \$446.90 | 1171 | | |
| Tota | l Fleet Cost/Hour: | 893.79 | | | |
| | | | | | |
| MATERIAL QUAN | FITIES Se | elected estimating | g method: Area | | |
| Alternate Methods: | 50 | rected estimating | g method. Area | | |
| Seismic: NA | Bank Volum | ie: NA | BCY | N | ٨ |
| | acres Rip Depth (f | | | 24,910 | BCY or CC |
| | ce of estimated quantity: DR | | | | |
| | | VIS | | | <u> </u> |
| HOURLY PRODUC | TION | | | | |
| Seismic: | | | | | |
| | Seismic Velocity: | NA | feet/secon | ıd | |
| Area: | | | | | |
| | Average Ripping Depth: | 2.56 | feet/pass | | |
| | Average Ripping Width: Average Ripping Length: | 7.08 500.00 | feet/pass feet/pass | | |
| | Average Ripping Length: Average Dozer Speed: | 88.00 | feet/minu | te | |
| | Average Maneuver Time: | 0.25 | minutes/p | | |
| | Production per unit area: | 0.822 | acres/hou | | |
| Job Condition Correction | n Factors | | | | |
| Unadjuste | d Hourly Unit Production: | 0.822 | Acres/hr | | |
| | Site Altitude: | 4,800 | feet | | |
| | Altitude Adj: | 1.00 | (CAT HB | | |
| | Job Efficiency: | 0.83 | (1 shift/da | • / | |
| | Net Correction: | 0.83 | multiplier | • | |
| | Adjusted Hourly Unit Productio Adjusted Hourly Fleet Productio | | Acres/hr Acres/hr | | |
| JOB TIME AND CO | <u>ST</u> | | | | |
| Fleet size: | 2 Grader(s) | Total job tin | ne:11. | 32 | Hours |
| Unit cost: \$65 | 5.018 Per acre | Total job co | ost: \$10 , | ,113 | _ |

BULLDOZER WORK

| <u> </u> | ckfill and Grade Highwa | | | |
|--|--|----------------------|---------------|--------------------|
| Timnath Pit Permit Action: | | SO-1 | Permit/Job | #: <u>M1989056</u> |
| ROJECT IDENTIFICAT | <u>ION</u> | | | |
| Task #: 003 | State: Colorado | | Abbreviation: | None |
| Date: 10/30/2023 | County: Larimer | | Filename: | 003 |
| User: JPL | | | <u>-</u> | |
| Agency or organizatio | n name: DRMS | | | |
| rigency of organizatio | ir name. <u>Didvis</u> | | | |
| <u>HOURLY EQUIPMENT C</u> | <u>OST</u> | | | |
| Basic Machine: Cat D8T | - 8SU | | | |
| Horsepower: 310 | | | | |
| Blade Type: Semi-Un | iversal | | | |
| Attachment: 3-shank i | ripper | | | |
| Shift Basis: 1 per day | , | | | |
| Data Source: (CRG) | | <u>—</u> | | |
| Cost Breakdown: | | | | |
| | | <u>Utilization %</u> | | |
| Ownership Cost/Hour: | \$241.38 | NA | | |
| Operating Cost/Hour: | \$143.92 | 100 | | |
| Ripper own. Cost/Hour: | \$14.11 | NA | | |
| Ripper op. Cost/Hour: | \$1.86 | 25 | | |
| Operator Cost/Hour: | \$40.04 | NA | | |
| MATERIAL QUANTITIES Initial Volume: 13,611 | <u>S</u> | | | |
| Swell factor: 1.115 Loose volume: 15,011 15,011 11,015 | Y | | | |
| Source of estimated volume: | Division of Reclamat | ion, Mining & Safety | | |
| Source of estimated swell factor: | Cat Handbook | | | |
| | | | | |
| HOURLY PRODUCTION | | | | |
| Average push distance: | 60 feet | | | |
| Unadjusted hourly production: | 1,246.9 LCY/hr | | | |
| Materials consistency descript | ion: Compacted fill or e | embankment 0.9 | | |
| Average push -30 gradient: | % | | | |
| | 00 feet | | | |
| Material weight: 2,10 | 00 lbs/LCY | | | |
| Weight description: Ear | th - Loam | | | |
| Job Condition Correction Factor | <u>. </u> | Source (AVG) | | |

| Material consistency: | 0.900 | (CAT HB)) |
|-----------------------|-------|---------------|
| Dozing method: | 1.200 | (SLOT) |
| Visibility: | 1.000 | (AVG.) |
| Job efficiency: | 0.830 | (1 SHIFT/DAY) |
| Spoil pile: | 0.700 | (FND-MF) |
| Push gradient: | 1.601 | (CAT HB) |
| Altitude: | 1.000 | (CAT HB) |
| Material Weight: | 1.095 | (CAT HB) |
| Blade type: | 1.000 | (PAT) |
| | | |

Net correction: 0.8250

Adjusted unit production: 1,028.69 LCY/hr

Adjusted fleet production: 2057.38 LCY/hr

JOB TIME AND COST

Fleet size: 2 Dozer(s)

Unit cost: \$0.429/LCY

Total job time: 7.38 Hours
Total job cost: \$6,511

PUMPING WORK

| Task description: | Pum | p water from de-wa | tering pit to remove | embankment | |
|-------------------------------------|-------------------|---------------------------------|------------------------|----------------------|-------------|
| te: Timnath Pit | | Permit Acti | on: SO-1 | Permit/Job# | #: M1989056 |
| PROJECT IDENTI | FICATIO | <u> N</u> | | | |
| Task #: 004 Date: 10/30/2 User: JPL | 023 | State: Colora County: Larime | | | None 004 |
| Agency or or | ganization 1 | name: DRMS | | | |
| HOURLY EQUIPM | MENT CO | ST | | | |
| | Descri | <u></u> | | Quantity | |
| Make and Model: | | fugal pump - 200M, | 10 in. | 1 | |
| Attachment | | n hose - 6 in. diam., | | 2 | |
| Attachment | | arge hose - 6 in. D., 2 | 25 ft. | 2 | |
| Labor Unit | 1: Pump | operator | | 1 | |
| Horsepower: | 70 | | | | |
| Shift Basis: | 1 per day | | | | |
| Weight: | 1.95 (US Tons) | | | | |
| Cost Breakdown: | (35 10115) | | | | |
| COSt DIEGRUUWII. | | | Utilization % | | |
| Ownership Co | st/Hour: | \$19.91 | NA | | |
| Operating Co | | \$21.88 | 100 | | |
| Operator Co | | \$28.23 | NA | | |
| Total Unit Co | st/Hour: _ | \$70.02 | <u> </u> | | |
| Total Fleet Co | ost/Hour: | \$70.02 | | | |
| PUMPING QUANT | TITIES | | | | |
| Initial Pond V | | 25.00 | | Conversion factor: | 325850.5800 |
| Final Pond V | | 8,146,264.50 | gallons | Conversion factor. | 323830.3800 |
| Total Pond Inflow | | 0,110,201.50 | Surroins | Unit inflow rate in | |
| | Area: | 72,310 | Sq. ft. | gph/sq. ft.: | 0.1758 |
| Total Pond Inflow | | | | | |
| pe | er Hour: | 12,712.10 | gallons | | |
| Sourc | e of estimat | ted volume: Pond | 1.66 Acres in size and | l about 15 feet deep | |
| PUMPING TIME | | | | | |
| V | laximum Pu | ımp Capacity: | 200,000 | gph/pump | |
| | | Suction Head: | 10 | feet | |
| Es | stimated Dis | scharge Head: | 0 | feet | |
| | | Total Head: | 10 | feet | |
| | CPB Pu | imp Capacity: | 201,000 | gph/pump | |
| | | Site Altitude: | 4,800 | feet | |
| A .1: | insted Dues. | sing Consoits: | 201.000 | anh | |
| | | oing Capacity: umping Time: | 201,000 40.53 | gph hours | |
| | | itial Pumping: | 515,205 | gallons | |
| | | umping Time: | 43.09 | Hours | |
| | | stment Factor: | 0.9700 | (3% rule) | |
| | | ciency Factor: | 0.9167 | (55 min./hr.) | |
| Total | Adjusted Pi | umping Time: | 38.32 | hours | |
| JOB TIME AND C | <u>OST</u> | | | | |
| | | | Total job | time: 38.32 | Hours |
| Unit cost: \$0 | 0.000310 | /Gallon | Total job | cost: \$2,683 | |

BULLDOZER WORK

| Task description: | Rem | ove dewaterin | g pond en | nbankment | | | |
|-----------------------------------|--------------------|---------------------|---------------------|---------------------|-------------------------|-------------|--|
| Site: Timnath Pit | | Permit Action: SO-1 | | | Permit/Job#: M1989056 | | |
| PROJECT IDEN | <u> </u> | <u>ON</u> | | | | | |
| Task #: 005 Date: 10/30 User: JPL | 0/2023 | | Colorado Larimer | | Abbreviation: Filename: | None 005 | |
| | organization | name: DRM | IS | | | | |
| HOURLY EQUIP | MENT CO | <u>OST</u> | | | | | |
| Basic Machine: | Cat D8T - | 8SU | | _ | | | |
| Horsepower: | 310 | | | <u> </u> | | | |
| Blade Type: | Semi-Univ | | | <u> </u> | | | |
| Attachment: | 3-shank rip | per | | <u> </u> | | | |
| Shift Basis: | 1 per day | | | <u> </u> | | | |
| Data Source: | (CRG) | | | _ | | | |
| Cost Breakdown: | | | | | | | |
| Cost Dicardown. | | | | Utilization % | | | |
| Ownership Cost/H | our. | 9 | \$241.38 | NA | | | |
| Operating Cost/H | | | \$143.92 | 100 | | | |
| Ripper o | | | | | | | |
| Cost/H | | | \$14.11 | NA | | | |
| Ripper op. Cost/H | | | \$0.75 | 10 | | | |
| Operator Cost/H | | | \$40.04 | NA | | | |
| Total unit Cost/Hor | | | | | | | |
| Total Fleet Cost/Ho | our: \$880. | .38 | | | | | |
| MATERIAL QUA | ANTITIES | | | | | | |
| Initial Volume: | 36,296 | | | | | | |
| _ | | | | | | | |
| Swell factor: | 1.000 | 7 | | | | | |
| Loose volume: | 36,296 LCY | · | | | | | |
| Source of estimated | d volume: | Division of | Reclamati | on, Mining & Safety | | | |
| Source of estimated | | Cat Handbo | | , 8 | | | |
| factor: | | | | | | | |
| 1401011 | | - | | | | | |
| HOURLY PROD | UCTION | | | | | | |
| HOUKLY PROD | <u>UCTION</u> | | | | | | |
| Average push dista | nce: | 150 feet | | | | | |
| Unadjusted hourly | _ | 634.3 LCY/hr | • | | | | |
| production: | | | | | | | |
| r | = | | | | | | |
| Materials consisten | cv descriptio | n: Partly coi | solidated | stockpile 1.1 | | | |
| | J 1 | | | <u> </u> | | | |
| Average push | 0 % | | | | | | |
| gradient: | | | | | | | |
| Average site altitud | le: 4,800 | feet | = | | | | |
| | | | _ | | | | |
| Material weight: | 2.550 | lbs/LCY | | | | | |
| | | | | | | | |
| Weight description | : Earth | - Dry packed | | | | | |
| - | | 7 F 211.24 | | | | | |
| Job Condition Correct | | | _ | Source | | | |
| Oper | rator Skill: _ | 0.75 | 0 | (AVG.) | | | |

| Material consistency: | 1.100 | (CAT HB) |
|-----------------------|-------|---------------|
| Dozing method: | 1.200 | (SLOT) |
| Visibility: | 1.000 | (AVG.) |
| Job efficiency: | 0.830 | (1 SHIFT/DAY) |
| Spoil pile: | 1.000 | (DOZ-OC) |
| Push gradient: | 1.000 | (CAT HB) |
| Altitude: | 1.000 | (CAT HB) |
| Material Weight: | 0.902 | (CAT HB) |
| Blade type: | 1.000 | (PAT) |

Net correction: 0.7412

Adjusted unit production:

Adjusted fleet production:

470.14 LCY/hr

940.28 LCY/hr

JOB TIME AND COST

Fleet size: 2 Dozer(s)
Unit cost: \$0.936/LCY

Total job time: 38.60 Hours
Total job cost: \$33,984

SCRAPER TEAM WORK

| Task description: | Spread Top | osoil Over Affec | ted Area | | | |
|------------------------------------|--|-------------------------------|------------------------|--------------------------------|--------------------------|-------------|
| Site: Timnath Pit Permi | | | : <u>SO-1</u> | P | ermit/Job#: M1 | 989056 |
| PROJECT IDENT | <u>TIFICATION</u> | | | | | |
| Task #: 006 Date: 10/30/ User: JPL | | ate: Colorado nty: Larimer | | | viation: None ename: 006 | |
| Agency or o | organization name: | DRMS | | | | |
| HOURLY EQUIP | MENT_ | | COSTS | Shift basis: 1 per | day | |
| | | Equipmo | ent Description | | | |
| | | raper: Cat 65' Dozer: NA | 7G w/push-pull | | | |
| Suppor | rt Equipment -Load | | | | | |
| | -Dump | Area: Cat D8 | T - 8SU | | | |
| Road Mai | ntenance –Motor G -Water | | 4M Tanker, 5,000 Ga | 1 | | |
| | , atter | Truck. Water | 1411101, 2,000 30 | | | |
| Cost Breakdown: | Scraper Work | | Support Equ | | | e Equipment |
| | Scraper | Dozer | Load Area | Dump Area | Motor Grader | Water Truck |
| %Utilization-machine: | 100 | NA | NA | 25 | 50 | 25 |
| Ownership cost/hour: | \$379.25 | NA | NA | \$241.38 | \$149.33 | \$57.13 |
| Operating cost/hour: | \$358.77 | NA | NA | \$35.98 | \$46.40 | \$16.62 |
| %Utilization-ripper: | NA | NA | NA | NA | NA | NA |
| Ripper own. cost/hour: | NA | NA | NA | \$0.00 | \$0.00 | \$0.00 |
| Ripper op. cost/hour: | NA | NA | NA | \$0.00 | \$0.00 | \$0.00 |
| Operator cost/hour: | \$47.28 | NA | NA | \$40.04 | \$46.87 | \$38.91 |
| Unit Subtotals: | \$785.30 | NA | NA | \$317.40 | \$242.60 | \$112.66 |
| Number of Units: | 4 | 0 | 0 | 1 | 1 | 1 |
| Group Subtotals: | Work: | \$3,141.20 | Support: | \$317.40 | Maint: | \$355.26 |
| Total work team cost/ | hour: \$3,813.86 | | | | | |
| MATERIAL QUA | NTITIES | | | | | |
| Initial volume: Loose volume: | 69,777 69,777 | CCY LCY | Swell fac | tor: 1.000 | | |
| | rce of estimated volutions of estimated swell fa | | | Mining & Safety | , | |
| HOURLY PRODU | JCTION | | | | | |
| | <u></u> | | Scraper E | Bowl (volume) Ba | sis: | |
| Material weight: | 1,600 lbs/LCY | | | Volume: 32.00 | | CY |
| Material description: | Top Soil | | | Volume: 32.00 Volume: 44.00 | | CY |
| Rated Payload: | 104,000 pounds | | Average | Volume: 38.00 | L | CY |
| Payload Capacity: | 65.00 LCY | | Adjusted (| Capacity: 38.00 | L | CY |

Site Altitude: 4800 feet

| C_{3} | vcle | Tin | ne |
|---------|-------|------|-----|
| _ | , 010 | 1 11 | 110 |

Scraper Loading Time: $\frac{1.10}{0.60}$ Minutes Maneuver and Spread Time: $\frac{0.60}{0.60}$ Minutes

Job Condition Correction:

| Scraper | Push Dozer | Source |
|---------|------------|----------------------|
| 1.000 | NA | (CAT HB) |
| 0.830 | NA | (CAT HB) |
| 0.020 | NIA | |
| | 1.000 | 1.000 NA 0.830 NA |

Travel Time:

Road Condition: Firm, smooth, rolling, dirt/lt. surfaced, watered, maintained 3.0

Haul Route:

| Seg # | Haul Distance (Ft) | Grade (%) | Roll. Res (%) | Total Res (%) | Velocity (fpm) | Travel Time (min) |
|-------|--------------------|--------------|------------------|------------------|-------------------|-------------------|
| 1 | 1284.00 | 0.00 | 3.00 | 3.00 | 2883 | 0.70 |

Haul Time: **0.70** minutes

Return Route:

| Seg # | Haul Distance (Ft) | Grade (%) | Roll. Res (%) | Total Res (%) | Velocity (fpm) | Travel Time (min) |
|-------|--------------------|--------------|------------------|------------------|-------------------|-------------------|
| 1 | 1284.00 | 0.00 | 3.00 | 3.00 | 2958 | 0.60 |

Return Time: **0.60** minutes

Total Scraper team cycle time:3.00minutesAdjusted for job conditions:1,261.60LCY/HourSelected Number of Scrapers:2Scraper(s)

Adjusted single scraper team (unit) hourly production: 1,261.60 LCY/Hour Adjusted multiple scraper team (fleet) hourly production: 2,523.20 LCY/Hour

Unadjusted unit production/hour: 1,520.00 LCY/Hour Optimal Number of Scrapers per push dozer:

JOB TIME AND COST

Fleet size: 2 Team(s) Total job time: 27.65 Hours

Unit cost: \$1.512 /LCY Total job cost: **\$105,469**

REVEGETATION WORK

| Timnath Pit | Permit | Action: SO-1 | _ | | Permit/Job | #: <u>M1989056</u> |
|--|-------------------|-----------------|----------|--------------------------------|-----------------------------|-----------------------------|
| ROJECT IDENTIFICA | TION | | | | | |
| Task #: 007 | | olorado | | Ab | breviation: | None |
| Date: 10/30/2023 User: JPL | County: L | arimer | | | Filename: | 007 |
| Agency or organiza | tion name: DDMS | | | | | |
| Agency or organiza | tion name: DRMS | <u> </u> | | | | |
| <u>CRTILIZING</u> | | | | | | |
| aterials | | | | | | |
| Description | | Units / Acre | Unit | Cos | st / Unit | Cost /Acre |
| | | | | \$ | | \$ |
| | | | | То | tal Fertilizer Materials | |
| | | | | | Cost/Acre | \$0.00 |
| Description Disc harrowing, 6" deep (| MEANS 32 91 13.23 | 3 6100) | | | | Cost /Acre \$112.82 |
| | | | | Total Tillii | ng Cost/Acre | \$112.82 |
| EEDING | | | | | | |
| Seed Mix | | | | Rate – PLS LBS / Acre | Seeds per SQ. FT | Cost /Acre |
| | | | - | 1.50 | 58.54 | \$42.71 |
| Alkali Sacaton | | | | 1.60 | 26.12 | \$25.56 |
| Blue Grama - Lovington | | | | 15.00 | 14.46 | \$181.00 |
| Blue Grama - Lovington Buffalograss - Native/Plai | ns | | | 4 0 - | | 004555 |
| Blue Grama - Lovington | ns | | | 1.00 | 3.44 | \$215.00 |
| Blue Grama - Lovington Buffalograss - Native/Plai | ns | Totals 5 | Seed Mix | 1.00 | 3.44 | \$215.00 \$464.27 |

| 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 |
|---|-----------------|------|-------------|------------|
| Straw, delivered {MEANS 31 25 14.16 1200} | 2.00 | TON | \$429.79 | \$859.57 |
| Total Mulch Materials Cost/Acre | | | | \$859.57 |

Application

| Description | | Cost /Acre |
|--|--|------------|
| Crimping, with tractor {DMG survey data} | | \$74.46 |
| Power mulcher (MEANS 32 91 13.16 0350) | | \$147.67 |
| (************************************** | | 4-17107 |
| | Total Mulch Application Cost/Acre | \$222.13 |

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:
 18
 Cost /Acre:
 \$1,890.79

 Estimated Failure Rate:
 15%
 Cost /Acre*:
 \$696.27

*Selected Replanting Work Items: SEEDING

Initial Job Cost: \$34,034.22

Reseeding Job Cost: \$1,879.93

Total Job Cost: \$35,914

15.00

REVEGETATION WORK

| OJECT IDENTIFICATION | | | | | |
|--|-----------------|--------------|--------------------------------|-----------------------------|----------------------------------|
| | olorado | | Ab | _ | None |
| Date: 10/30/2023 County: La User: JPL | arimer | | | Filename: _ | 008 |
| Agency or organization name: <u>DRMS</u> | S | | | | |
| RTILIZING | | | | | |
| terials | | | | | |
| Description | Units / Acre | Unit | Co | st / Unit | Cost /Acre |
| | | | \$ | | \$ |
| | | | То | tal Fertilizer Materials | |
| | | | | Cost/Acre | \$0.00 |
| Description Disc harrowing, 6" deep (MEANS 32 91 13.23 | | - Tertinizer | трупсан | on Cost/Acre | \$0.00 Cost /Acre \$112.82 |
| | | F | Fotal Tilli | ng Cost/Acre | \$112.82 |
| EDING | | | | | |
| Seed Mix | | | Rate – PLS LBS / Acre | Seeds per SQ. FT | Cost /Acre |
| Alkali Sacaton | | | 1.20 | 46.83 | \$34.17 |
| Foxtail Barley | | | 1.50 | 5.17 | \$322.50 |
| Streambank Wheatgrass - Sodar | | | 4.00 | 13.04 | \$22.80 |
| Saltgrass, Inland | | | 1.60 | 22.18 | \$68.48 |
| | Totals : | Seed Mix | 8.30 | 87.22 | \$447.95 |
| | | | | | · · |

| 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 |
|---|-----------------|------|-------------|------------|
| Straw, delivered {MEANS 31 25 14.16 1200} | 2.00 | TON | \$429.79 | \$859.57 |
| Total Mulch Materials Cost/Acre | | | | \$859.57 |

Application

| Description | | Cost /Acre |
|--|--|------------|
| Crimping, with tractor {DMG survey data} | | \$74.46 |
| Power mulcher (MEANS 32 91 13.16 0350) | | \$147.67 |
| | | |
| | Total Mulch Application Cost/Acre | \$222.13 |

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:
 50
 Cost /Acre:
 \$1,874.47

 Estimated Failure Rate:
 15%
 Cost /Acre*:
 \$679.95

*Selected Replanting Work Items: SEEDING

Initial Job Cost: \$93,723.50

Reseeding Job Cost: \$5,099.63

Total Job Cost: \$98,823

Job Hours: 40.00

EQUIPMENT MOBILIZATION/DEMOBILIZATION

| Task description: Mo | bilization of Equ | uipment | | |
|-------------------------------|-------------------|----------------|---|----------------------|
| te: Timnath Pit | Permi | t Action: SO-1 | Permit/Jo | bb#: <u>M1989056</u> |
| PROJECT IDENTIFICATI | <u>ON</u> | | | |
| Task #: 009 | State: C | Colorado | Abbreviation: | None |
| Date: 10/30/2023 User: JPL | County: L | arimer | Filename: | 009 |
| Agency or organization | n name: DRM | S | | |
| EQUIPMENT TRANSPOR | T RIG COST | | | |
| | _ | | Shift basis: | 1 per day |
| | | | Cost Data Source: | CRG Data |
| Truck Tractor Desc | ription: GEN | | AY TRUCK TRACTOR, 6X4, 400 HP (2ND HALF, 2006) | DIESEL POWERED, |
| Truck Trailer Desc | ription: | GENERIC FOLDIN | IG GOOSENECK, DROP DEC | CK EQUIPMENT |
| | | TR | AILER (25T, 50T, AND 100T |) |
| Cost Breakdown: | | | | |
| Available Rig Capacities | 0-25 Tons | 26-50 Tons | 51+ Tons | |
| Ownership Cost/Hour: | \$20.26 | \$36.04 | \$47.05 | |
| Operating Cost/Hour: | \$39.51 | \$76.08 | \$82.85 | |
| Operator Cost/Hour: | \$22.52 | \$22.52 | \$22.52 | |
| Helper Cost/Hour | \$0.00 | \$23.53 | \$23.53 | |

NON ROADABLE EQUIPMENT:

Total Unit Cost/Hour:

\$82.29

| 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 | | |
| Cat D8T - 8SU | 53.08 | \$255.49 | \$175.95 | 2 | \$862.88 | \$351.90 | \$500.00 |
| Centrifugal pump - | 1.95 | \$18.25 | \$82.29 | 1 | \$100.54 | \$82.29 | \$250.00 |
| 200M, 10 in. | | | | | | | |
| Cat 657G w/push- | 80.25 | \$379.25 | \$175.95 | 4 | \$2,220.80 | \$703.80 | \$1,000.00 |
| pull | | | | | | | |
| CAT 14M | 23.57 | \$149.33 | \$82.29 | 1 | \$231.62 | \$82.29 | \$250.00 |
| Drill/Broadcast | 25.00 | \$6.73 | \$82.29 | 2 | \$178.04 | \$164.58 | \$250.00 |
| Seeder with | | | | | | | |
| Tractor | | | | | | | |
| Power Mulcher | 6.00 | \$25.94 | \$82.29 | 1 | \$108.23 | \$82.29 | \$250.00 |
| (Bowie LD-90) | | | | | | | |

\$158.17

\$175.95

Subtotals: \$3,702.11 \$1,467.15 \$2,500.00

ROADABLE EQUIPMENT:

| Machine Description | Total Cost/hr/ unit | Fleet Size | Haul Trip Cost/hr/ fleet | Return Trip Cost/hr/ fleet |
|--------------------------|------------------------|------------|-----------------------------|-------------------------------|
| Water Tanker, 5,000 Gal. | \$162.53 | 1 | \$162.53 | \$162.53 |
| Fuel Tanker, 6x4, 210 HP | \$93.16 | 2 | \$186.32 | \$186.32 |

| Subtotals | \$348.85 | \$348.85 | |
|-----------|----------|----------|--|
| | | | |

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:
Total one-way travel distance:
Average Travel Speed:

FORT COLLINS
miles
55.00
mph

<u>Transportation Cycle Time:</u>

| | Non- | |
|-------------------------|-----------|-----------|
| | Roadable | Roadable |
| | Equipment | Equipment |
| Haul Time (Hours): | 0.18 | 0.18 |
| Return Time (Hours): | 0.18 | 0.18 |
| Loading Time (Hours): | 1.00 | NA |
| Unloading Time (Hours): | 1.00 | NA |
| Subtotals: | 2.36 | 0.36 |
| | | |

JOB TIME AND COST

Total job cost: 4.73 Hours

Total job cost: \$21,815