

October 18, 2023

Mr. H. Bruce Humphries Regulatory Permits Management Inc. 25049 E. Alder Dr. Aurora, CO 80016 (303) 854-7499 <u>hlhumphries2@comcast.net</u>

Re: Dill Pit, Permit No. M-2009-077, Technical Revision No. 1 (TR-01) Approval, Revise the Approved Seed Mixture

Dear Mr. Humphries:

On October 18, 2023, the Division of Reclamation, Mining and Safety concluded its review and approved the Technical Revision application submitted to the Division on October 10, 2023, addressing the following:

Revise the approved seed mixture.

On October 18, 2023, the Division of Reclamation, Mining and Safety (Division) increased the current Financial Warranty for the Dill Pit to \$48,322.00, in accordance with Rule 4.2.1 and C.R.S. 34-32.5-117. This is an increase of \$13,065.00 from the currently held Financial Warranty of \$35,257.00. The Division ordered amendment of the current Financial Warranty, or submittal of a new Financial Warranty reflecting the increase, within 60 days from the date of this letter, due by December 17, 2023. The revision will not be final until the bond is received and approved by the Division.

If you have any questions regarding submittal of the Financial Warranty, please contact our Financial Warranty Specialist, Sara Stevenson-Benn, by telephone at (303) 866-3567 ext. 8148 or by email at <u>sara.stevenson-benn@state.co.us</u>. All Financial Warranty forms are available on our website at: <u>https://drms.colorado.gov/forms/minerals-program-forms</u>.

If you require additional information, or have questions or concerns, please feel free to contact me by phone at (303) 866-3567, ext. 8147, or by email at joel.renfro@state.co.us.

Sincerely,

Jolkenso



Joel Renfro Environmental Protection Specialist

Enclosed: Divisions bond estimate

Cc: Tracy and Ed Grimes Amy Eschberger, DRMS

COST SUMMARY WORK

|] | Task description: | | Current | t disturb | ance estimat | ion | | | |
|----------|----------------------------------|--------------------------------------|---------|-------------------|--------------------|------------------|----------------------------|---------------------|--|
| Site: | Dill Pit | | | Per | rmit Action: | 2023 Calculation | Permit/Jol | o#: <u>M2009077</u> | |
| <u>P</u> | ROJECT Task #: Date: User: | IDENTIFIC 000 7/19/2023 JR2 | | State: County: | Colorado Elbert | | Abbreviation: Filename: | None M077-000 | |

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

| Task | Description | Form | Fleet | Task Hours | Cost |
|------|--|--------------|--------|---------------|----------|
| | Description | Used | Size | | |
| 001 | Grade pit slopes from 2.5H:1V to 3H:1V | DOZER | 1 | 2.14 | \$914 |
| 001b | Grade W pit slopes from 3H:1V to 4H:1V | DOZER | 1 | 6.42 | \$2,739 |
| 002 | Replace 4.5 in topsoil on 14.5 acres | DOZER | 1 | 12.75 | \$5,441 |
| 003 | Rip compacted areas - 8.5 acres | RIPPER | 1 | 13.24 | \$5,936 |
| 004 | Revegetate 14.5 acres | REVEGE | 1 | 7.25 | \$16,464 |
| 004b | Mulch 4.3 acres (excluding pit floor and W pit wall) | REVEGE | 1 | 2.00 | \$4,016 |
| 005 | Mobilization/Demobilization | MOBILIZE | 1 | 6.30 | \$3,750 |
| | | <u>SUBT(</u> | DTALS: | 50.1 | \$39,260 |

INDIRECT COSTS

OVERHEAD AND PROFIT:

| Liability insurance: | 2.02 | Total = | \$793 |
|----------------------|-------|------------------------------------|----------|
| Performance bond: | 1.05 | Total = | \$412 |
| Job superintendent: | 25.05 | Total = | \$1,630 |
| Profit: | 10.00 | Total = | \$3,926 |
| | | TOTAL O & P = | \$6,761 |
| | | CONTRACT AMOUNT (direct + O & P) = | \$46,021 |

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

| Financial warranty processing (legal/related costs): Engineering work and/or contract/bid preparation: Reclamation management and/or administration: | \$0 0.00 5.00 | | \$0 \$0 \$2,301 |
|--|---------------------|-----------------------------|-----------------------|
| CONTINGENCY: | 0.00 | Total = | \$0 |
| | | TOTAL INDIRECT COST = | \$9,062 |
| TOTAL BO | ND AI | MOUNT (direct + indirect) = | \$48,322 |

BULLDOZER WORK

| | · · · · · · · · · · · · · · · · · · · | | | |
|---|---|----------------------------------|---------------|------------|
| Dill Pit | Permit Action: | 2023 Calculation | Permit/Job#: | M2009077 |
| PROJECT IDENTIFICA | ATION | | | |
| Task #: 001 | State: Colorado | | Abbreviation: | None |
| Date: $7/19/2023$ | County: Elbert | | Filename: | M077-001 |
| User: $JR2$ | County | | T nename. | 101077-001 |
| Agency or organiza | tion name: DRMS | | | |
| HOURLY EQUIPMENT | <u>r cost</u> | | | |
| Basic Machine:Cat D8 | T - 8SU | | | |
| Horsepower: 310 | | | | |
| Blade Type: Semi-U | Jniversal | | | |
| Attachment: NA | | | | |
| Shift Basis: 1 per da | ay | | | |
| Data Source: (CRG) | | | | |
| Cost Breakdown: | | TT:11 0/ | | |
| Ownership Cost/Hours | ¢941 20 | <u>Utilization %</u> | | |
| Ownership Cost/Hour: | \$241.38 \$143.92 | NA 100 | | |
| Operating Cost/Hour: | <u>\$143.92</u> \$0.00 | | | |
| Ripper own. Cost/Hour: Ripper op. Cost/Hour: | \$0.00 | <u>NA</u> | | |
| Operator Cost/Hour: | \$0.00 | - | | |
| | \$41.30 | NA | | |
| Total Fleet Cost/Hour: | 426.60 426.60 | | | |
| Total Fleet Cost/Hour: \$ | 426.60 | | | |
| Total Fleet Cost/Hour: \$ MATERIAL QUANTIT Initial Volume: 1,390 | 426.60 | | | |
| Total Fleet Cost/Hour: \$ MATERIAL QUANTIT Initial Volume: 1,390 Swell factor: 1.250 | 426.60 IES | | | |
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| Total Fleet Cost/Hour: \$ MATERIAL QUANTITI Initial Volume: 1,390 Swell factor: 1.250 | 426.60 IES | ut and fill | | |
| Total Fleet Cost/Hour: \$ MATERIAL QUANTIT Initial Volume: 1,390 Swell factor: 1.250 Loose volume: 1,738 L0 | 426.60 IES <u>CY</u> 1500 ft L x 20 ft H, cu | ut and fill | | |
| Total Fleet Cost/Hour: \$ MATERIAL QUANTITI Initial Volume: 1,390 Swell factor: 1.250 Loose volume: 1,738 Lo Source of estimated volume: Source of estimated swell factor | 426.60 IES CY CY <u>1500 ft L x 20 ft H, cu</u> ctor: <u>Cat Handbook</u> | ut and fill | | |
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| Total Fleet Cost/Hour: \$ MATERIAL QUANTITI Initial Volume: 1,390 Swell factor: 1.250 Loose volume: 1,738 L0 Source of estimated volume: Source of estimated swell factor HOURLY PRODUCTIO Average push distance: Unadjusted hourly production Materials consistency description | 426.60 IES CY CY ctor: 1500 ft L x 20 ft H, ct Cat Handbook DN 60 feet n: 1,246.9 LCY/hr otion: Compacted fill or end | | | |
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| Total Fleet Cost/Hour: \$ MATERIAL QUANTITI Initial Volume: 1,390 Swell factor: 1.250 Loose volume: 1,738 L0 Source of estimated volume: Source of estimated volume: Source of estimated swell factor: 1,738 L0 MOURLY PRODUCTIO Average push distance: Unadjusted hourly production Materials consistency descrip Average push gradient: -5 Average site altitude: 5 Material weight: 2 Weight description: D Job Condition Correction Face | 426.60 IES CY CY Ctor: 1500 ft L x 20 ft H, cu Ctor: Colspan="2">Ctor: Ctor: Colspan="2">Ctor: Colspan="2">Ctor: Colspan="2">Ctor: Colspan="2">Ctor: Ctor: Ctor: Ctor: Ctor: Ctor: Compacted fill or en Compacted fill or en S % Ctor: Ctor: Ctor: Ctor: Ctor: Ctor: Ctor: Ctor: Ctor: | | | |
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| Job efficiency: | 0.830 | (1 SHIFT/DAY) |
|----------------------------|---------------|---------------|
| Spoil pile: | 1.000 | (DOZ-OC) |
| Push gradient: | 1.115 | (CAT HB) |
| Altitude: | 1.000 | (CAT HB) |
| Material Weight: | 0.868 | (CAT HB) |
| Blade type: | 1.000 | (PAT) |
| Net correction: | 0.6507 | |
| Adjusted unit production: | 311.36 LCY/hr | |
| Adjusted fleet production: | 811.36 LCY/hr | |
| | | |

| Fleet size: | 1 Dozer(s) |
|-------------|-------------|
| Unit cost: | \$0.526/LCY |
| | |

| Total job time: | 2.14 Hours |
|-----------------|-------------------|
| Total job cost: | \$914 |

BULLDOZER WORK

| Dill Pit | Permit Action: | 2023 Calculation | Permit/Job#: | M2009077 |
|--|--|----------------------------------|---------------|------------|
| PROJECT IDENTIFICA | ATION | | | |
| Task #: 001B | State: Colorado | | Abbreviation: | None |
| Date: $\frac{001D}{8/11/2023}$ | County: Elbert | | Filename: | M077-001b |
| User: AME | CountyElbert | | Thename. | WI077-0010 |
| Agency or organiza | tion name: DRMS | | | |
| HOURLY EQUIPMENT | Г COST | | | |
| | ST - 8SU | | | |
| Horsepower: 310 | | | | |
| Blade Type: Semi-U | Jniversal | | | |
| Attachment: NA | | | | |
| Shift Basis: 1 per d | ay | | | |
| Data Source: (CRG) | | | | |
| Cost Breakdown: | | | | |
| Ormersh's Cost /II | Φ 0 41.00 | <u>Utilization %</u> | | |
| Ownership Cost/Hour: | \$241.38 | NA | | |
| Operating Cost/Hour: | \$143.92 | 100 NA | | |
| Ripper own. Cost/Hour: | \$0.00 | NA | | |
| Ripper op. Cost/Hour: | \$0.00 | 0 | | |
| Operator Cost/Hour: | \$41.30 | NA | | |
| | 426.60 426.60 | | | |
| | 426.60 | | | |
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| Total Fleet Cost/Hour: \$ MATERIAL QUANTITY Initial Volume: 4,167 Swell factor: 1.250 1.250 Loose volume: 5,209 Loty Source of estimated volume: 1000000000000000000000000000000000000 | 426.60 IES <u>CY</u> 1500 ft L x 20 ft H, cu | ut and fill | | |
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| Total Fleet Cost/Hour: \$ MATERIAL QUANTITY Initial Volume: 4,167 Swell factor: 1.250 1.250 Loose volume: 5,209 Lot Source of estimated volume: Source of estimated swell factor HOURLY PRODUCTION 1000000000000000000000000000000000000 | 426.60 IES CY CY 1500 ft L x 20 ft H, ct Cat Handbook DN 60 feet | | | |
| Total Fleet Cost/Hour: \$ MATERIAL QUANTIT Initial Volume: 4,167 Swell factor: 1.250 Loose volume: 5,209 Lo Source of estimated volume: Source of estimated swell fac HOURLY PRODUCTIC Average push distance: | 426.60 IES <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u></u> | | | |
| Total Fleet Cost/Hour: \$ MATERIAL QUANTITY Initial Volume: 4,167 Swell factor: 1.250 1.250 Loose volume: 5,209 Lot Source of estimated volume: Source of estimated swell factor HOURLY PRODUCTIC Average push distance: Unadjusted hourly production Materials consistency description | 426.60 IES <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CY</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u>CX</u> <u></u> | | | |
| Total Fleet Cost/Hour: \$ MATERIAL QUANTITY Initial Volume: 4,167 Swell factor: 1.250 Loose volume: 5,209 Lot Source of estimated volume: Source of estimated swell factor HOURLY PRODUCTIC Average push distance: Unadjusted hourly production Materials consistency descript Average push gradient: | 426.60 IES CY CY ctor: 1500 ft L x 20 ft H, ct Cat Handbook DN 60 feet n: 1,246.9 LCY/hr ption: Compacted fill or e | | | |
| Total Fleet Cost/Hour: \$ MATERIAL QUANTITY Initial Volume: 4,167 Swell factor: 1.250 Loose volume: 5,209 Lot Source of estimated volume: 5,209 Lot Source of estimated swell factor HOURLY PRODUCTIC Average push distance: Unadjusted hourly production Materials consistency descript Average push gradient: | 426.60 IES CY CY Ctor: 1500 ft L x 20 ft H, ct Ctor: Cat Handbook DN 60 feet 1,246.9 LCY/hr ption: Compacted fill or e 5 % | | | |
| Total Fleet Cost/Hour: \$ MATERIAL QUANTITY Initial Volume: 4,167 Swell factor: 1.250 Loose volume: 5,209 Ld Source of estimated volume: Source of estimated swell factor HOURLY PRODUCTION Average push distance: Unadjusted hourly production Materials consistency description Average push gradient: Average site altitude: _5 Material weight: _2 | 426.60 IES CY CY ctor: 1500 ft L x 20 ft H, ct Cat Handbook DN 60 feet n: 1,246.9 LCY/hr otion: Compacted fill or e 5 % ,700 feet ,650 lbs/LCY | mbankment 0.9 | | |
| Total Fleet Cost/Hour: \$ MATERIAL QUANTITY Initial Volume: 4,167 Swell factor: 1.250 Loose volume: 5,209 Lot Source of estimated volume: Source of estimated volume: Source of estimated swell factor: 1.250 Loose volume: 5,209 Lot Source of estimated volume: Source Materials consistency description: Materials consistency description: Average push gradient: | 426.60 IES CY CY ctor: 1500 ft L x 20 ft H, ct Cat Handbook DN 60 feet n: 1,246.9 LCY/hr otion: Compacted fill or e 5 % ,700 feet ,650 lbs/LCY Decomposed rock - 25% Rock | mbankment 0.9 , 75% Earth | | |
| Total Fleet Cost/Hour: \$ MATERIAL QUANTITY Initial Volume: 4,167 Swell factor: 1.250 Loose volume: 5,209 L/ Source of estimated volume: Source of estimated volume: Source of estimated swell factor: 1.250 Loose volume: 5,209 L/ Source of estimated volume: Source Materials consistency description: C Average push distance: Unadjusted hourly production Materials consistency description: | 426.60 IES CY CY Ctor: 1500 ft L x 20 ft H, cu Ctor: Cat Handbook DN 60 feet n: | | | |
| Total Fleet Cost/Hour: \$ MATERIAL QUANTITY Initial Volume: 4,167 Swell factor: 1.250 Loose volume: 5,209 Ld Source of estimated volume: Source of estimated swell factor HOURLY PRODUCTIC Average push distance: Unadjusted hourly production Materials consistency descript Average push gradient: | 426.60 IES CY | | | |
| Total Fleet Cost/Hour: \$ MATERIAL QUANTITY Initial Volume: 4,167 Swell factor: 1.250 Loose volume: 5,209 L/ Source of estimated volume: Source of estimated volume: Source of estimated swell factor: 1.250 HOURLY PRODUCTIC Average push distance: Unadjusted hourly production Materials consistency descript Average push gradient: | 426.60 IES CY CY ctor: 1500 ft L x 20 ft H, cu Cat Handbook DN 60 feet n: 1,246.9 LCY/hr otion: Compacted fill or e 5 % ,700 feet ,650 lbs/LCY Decomposed rock - 25% Rock ctor I: 0.750 y: 0.900 | | | |

Task # 001B

| Job efficient | cy: 0.830 | (1 SHIFT/DAY) |
|----------------------------|---------------|---------------|
| Spoil pi | le: 1.000 | (DOZ-OC) |
| Push gradie | nt: 1.115 | (CAT HB) |
| Altitud | de: 1.000 | (CAT HB) |
| Material Weig | ht: 0.868 | (CAT HB) |
| Blade typ | pe: 1.000 | (PAT) |
| Net correction | on: 0.6507 | |
| Adjusted unit production: | 811.36 LCY/hr | |
| Adjusted fleet production: | 811.36 LCY/hr | |
| | | |

| Fleet size: | 1 Dozer(s) |
|-------------|-------------|
| Unit cost: | \$0.526/LCY |
| | |

| Total job time: | 6.42 Hours |
|-----------------|-------------------|
| Total job cost: | \$2,739 |

BULLDOZER WORK

| Task description: | Replace 4.5 in to | psoil on 14.5 | acres | | |
|--|---|---|---------------------------------|---------------|----------|
| Dill Pit | Per | mit Action: | 2023 Calculation | Permit/Job#: | M2009077 |
| PROJECT IDENTI | FICATION | | | | |
| Task #: 002 | State: | Colorado | | Abbreviation: | None |
| Date: $9/28/2023$ | | Elbert | | Filename: | M077-002 |
| User: JR2 | <u> </u> | | | | |
| Agency or org | anization name: DF | RMS | | | |
| HOURLY EQUIPM | ENT COST | | | | |
| | at D8T - 8SU | | | | |
| | 10 | | | | |
| • - | emi-Universal | | | | |
| | A | | | | |
| | per day | | | | |
| Data Source: (0 | CRG) | | | | |
| Cost Breakdown: | | | | | |
| | | | Utilization % | | |
| Ownership Cost/Hour | | \$241.38 | NA | | |
| Operating Cost/Hour | | \$143.92 | 100 | | |
| Ripper own. Cost/Hour | | \$0.00 | NA | | |
| Ripper op. Cost/Hour | | \$0.00 | 0 | | |
| | | \$41.30 | NA | | |
| Total Fleet Cost/Hour: | \$426.60 \$426.60 | ψ1.50 | | | |
| Total unit Cost/Hour: Total Fleet Cost/Hour: <u>MATERIAL QUAN</u> Initial Volume: <u>8,7</u> | \$426.60 \$426.60 TITIES 773 | ψ 1 1.50 | | | |
| Total unit Cost/Hour: Total Fleet Cost/Hour: <u>MATERIAL QUAN</u> Initial Volume: <u>8,7</u> Swell factor: <u>1.2</u> | \$426.60 \$426.60 TITIES 773 215 | ψ 1 1.30 | | | |
| Total unit Cost/Hour: Total Fleet Cost/Hour: <u>MATERIAL QUAN</u> Initial Volume: <u>8,7</u> Swell factor: <u>1.2</u> Loose volume: <u>10</u> | \$426.60 \$426.60 TITIES 73 215 659 LCY | | | | |
| Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: <u>8,7</u> Swell factor: <u>1.2</u> Loose volume: <u>10</u> Source of estimated vol | \$426.60 \$426.60 TITIES 73 215 .659 LCY ume:14.5 ac x | 4.5 in depth | | | |
| Total unit Cost/Hour: Total Fleet Cost/Hour: <u>MATERIAL QUAN</u> Initial Volume: <u>8,7</u> Swell factor: <u>1.2</u> Loose volume: <u>10</u> | \$426.60 \$426.60 TITIES 73 215 .659 LCY ume:14.5 ac x | 4.5 in depth | | | |
| Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: <u>8,7</u> Swell factor: <u>1.2</u> Loose volume: <u>10</u> Source of estimated vol | \$426.60 \$426.60 TITIES 73 215 659 LCY ume: 14.5 ac x Cat Hand | 4.5 in depth | | | |
| Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: <u>8,7</u> Swell factor: <u>1.2</u> Loose volume: <u>10</u> Source of estimated vol Source of estimated swe HOURLY PRODUC | \$426.60 \$426.60 TITIES 73 215 659 LCY ume: 14.5 ac x cat Hand CTION | 4.5 in depth | | | |
| Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 8,7 Swell factor: 1.2 Loose volume: 10 Source of estimated vol Source of estimated swe HOURLY PRODUC | \$426.60 \$426.60 TITIES 73 215 659 LCY ume: <u>14.5 ac x</u> Cat Hand CTION 150 feet | 4.5 in depth | | | |
| Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: <u>8,7</u> Swell factor: <u>1.2</u> Loose volume: <u>10</u> Source of estimated vol Source of estimated swe HOURLY PRODUC | \$426.60 \$426.60 TITIES 73 215 659 LCY ume: <u>14.5 ac x</u> Cat Hand CTION 150 feet | 4.5 in depth | | | |
| Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 8,7 Swell factor: 1.2 Loose volume: 10 Source of estimated vol Source of estimated swe HOURLY PRODUC | \$426.60 \$426.60 TITIES 73 215 .659 LCY ume: <u>14.5 ac x</u> Cat Hand CTION 150 feet uction: <u>634.3 LCY</u> | 4.5 in depth | | | |
| Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: <u>8,7</u> Swell factor: <u>1.2</u> Loose volume: <u>10</u> Source of estimated vol Source of estimated swo HOURLY PRODUC Average push distance: Unadjusted hourly prod | \$426.60 \$426.60 TITIES 73 215 .659 LCY ume: <u>14.5 ac x</u> Cat Hand CTION 150 feet uction: <u>634.3 LCY</u> | 4.5 in depth book | | | |
| Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: <u>8,7</u> Swell factor: <u>1.2</u> Loose volume: <u>10</u> Source of estimated vol Source of estimated vol Source of estimated swo HOURLY PRODUC Average push distance: Unadjusted hourly prod Materials consistency d | \$426.60 \$426.60 TITIES 73 215 659 LCY ume: 14.5 ac x cat Hand Cat Hand CTION uction: 150 feet 634.3 LCY/ escription: Consol | 4.5 in depth book | | | |
| Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: <u>8,7</u> Swell factor: <u>1.2</u> Loose volume: <u>10</u> Source of estimated vol Source of estimated vol Source of estimated swo HOURLY PRODUC Average push distance: Unadjusted hourly prod Materials consistency d Average push gradient: | \$426.60 \$426.60 TITIES 73 73 75 659 LCY ume: 14.5 ac x Cat Hand CTION uction: 150 feet 634.3 LCY escription: Consol 5 % | 4.5 in depth book | | | |
| Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 8,7 Swell factor: 1.2 Loose volume: 10 Source of estimated vol Source of estimated vol Source of estimated swe HOURLY PRODUC Average push distance: Unadjusted hourly prod Materials consistency d Average push gradient: Average site altitude: | \$426.60 \$426.60 TITIES 73 73 73 73 73 73 73 73 73 73 | 4.5 in depth book | | | |
| Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 8,7 Swell factor: 1.2 Loose volume: 10 Source of estimated vol Source of estimated vol Source of estimated swe HOURLY PRODUC Average push distance: Unadjusted hourly prod Materials consistency d Average push gradient: Average site altitude: Material weight: | \$426.60 \$426.60 TITIES 73 73 73 73 73 73 73 73 73 73 | 4.5 in depth book | | | |
| Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: <u>8,7</u> Swell factor: <u>1.2</u> Loose volume: <u>10</u> Source of estimated vol Source of estimated vol Source of estimated swe HOURLY PRODUC Average push distance: Unadjusted hourly prod Materials consistency d Average push gradient: Average site altitude: Material weight: Weight description: | $ \frac{$426.60}{$426.60} $ TITIES 73 73 73 75 75 75 75 75 75 75 75 75 75 75 75 75 | 4.5 in depth book | pile 1.0 | | |
| Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: <u>8,7</u> Swell factor: <u>1.2</u> Loose volume: <u>10</u> Source of estimated vol Source of estimated vol Source of estimated swe HOURLY PRODUC Average push distance: Unadjusted hourly prod Materials consistency d Average push gradient: Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operato | \$426.60 \$426.60 \$426.60 TITIES 73 215 659 LCY ume: 14.5 ac x cat Hand CTION uction: 150 feet 634.3 LCY/ escription: Consol -5% 5,700 feet 1,600 lbs/LCY Top Soil on Factor r Skill: 1. stency: 1. | 4.5 in depth lbook /hr idated stockp | pile 1.0 <u></u> | | |
| Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: <u>8,7</u> Swell factor: <u>1.2</u> Loose volume: <u>10</u> Source of estimated vol Source of estimated vol Source of estimated swo HOURLY PRODUC Average push distance: Unadjusted hourly prod Materials consistency d Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Material consist Doperato | \$426.60 \$426.60 TITIES 73 215 659 LCY ume: 14.5 ac x cat Hand CTION uction: 150 feet 634.3 LCY/ escription: Consol $-5 %$ 5,700 feet 1,600 lbs/LCY Top Soil on Factor r r Skill: 1. estency: 1. nethod: 1. | 4.5 in depth lbook /hr idated stockp | | | |

Task # 002

| Job efficience | cy: 0.830 | (1 SHIFT/DAY) |
|----------------------------|-------------------|---------------|
| Spoil pi | le: 0.900 | (SSD-FC) |
| Push gradie | nt: 1.115 | (CAT HB) |
| Altitud | le: 1.000 | (CAT HB) |
| Material Weig | ht: 1.438 | (CAT HB) |
| Blade typ | pe: 1.000 | (PAT) |
| Net correction | on: <u>1.3175</u> | |
| Adjusted unit production: | 835.69 LCY/hr | |
| Adjusted fleet production: | 835.69 LCY/hr | |
| | | |

| Fleet size: | 1 Dozer(s) |
|-------------|-------------|
| Unit cost: | \$0.510/LCY |
| | |

| Total job time: | 12.75 Hours |
|-----------------|--------------------|
| Total job cost: | \$5,441 |

BULLDOZER RIPPING WORK

| | : Dill Pit | | Permit Action: | 2023 Calculat | ion Per | mit/Job#: <u>M</u> | 2009077 |
|----------------|--|--|--|--|---|---|----------|
| | PROJECT ID | ENTIFICATI | | | | | |
| | Task #: 003 | | State: Colorado | | Abbra | viation: No | no |
| | | //2023 | County: Elbert | | | | 077-003 |
| | User: JR2 | | J | | | | |
| | Agency | or organization | name: DRMS | | | | |
| | HOURLY EQ | - | | | | | |
| | | | | | II | 210 | |
| | Ripper Att | | t D8T - 8SU Shank Ripper | | Horsepower: | 310 1 per da | |
| | Ripper Au | | | | Data Source: | (CRG) | |
| | Cost Breakdown: | | | | | () | <u> </u> |
| | COSt Dicardown | <u>-</u> | | | Utilization % | | |
| | | Ownership C | ost/Hour: | \$241.38 | NA | | |
| | | Operating C | | \$143.92 | 100 | | |
| | | er Ownership C | | | NA | | |
| | Ripp | per Operating C | | | 100 | | |
| | | Operator Co | | \$41.30 | NA | | |
| | | Total Unit Co | ost/Hour: | \$448.16 | | | |
| | | Total Fleet C | ost/Hour: \$448 | .16 | | | |
| | MATERIAL (| JUANTITIES | Sele | cted estimating | g method: Area | | |
| | Alternate Method | | | | , | | |
| • | | <u></u> | D. 1 V.1 | NT A | DCV | NT A | |
| smic: Area: | NA 8.50 | acres | Bank Volume: _ Rip Depth (ft): | NA 1.50 | BCY Volume: 20 | NA ,570 | BCY or |
| Alca. | 8.50 | | | | | ,570 | BC1 01 |
| | | Course of activ | mated quantity. Pit floo | | | | |
| | | Source of estin | mated quantity:Pit floo | r and internal h | aul roads | | |
| | HOURLY PR | | | r and internal h | aul roads | | |
| | | | | r and internal h | aul roads | | |
| | HOURLY PRO | ODUCTION | Seismic Velocity: | n and internal n | naul roads feet/secor | nd | |
| | <u>Seismic:</u> | ODUCTION | | | | nd | |
| | | ODUCTION | Seismic Velocity: | NA | feet/seco | nd | |
| | <u>Seismic:</u> | ODUCTION Averag | Seismic Velocity: | | feet/secor | nd | |
| | <u>Seismic:</u> | ODUCTION Averag Averag | Seismic Velocity: | NA 2.56 | feet/seco | nd | |
| | <u>Seismic:</u> | ODUCTION Averag Averag Average Average | Seismic Velocity: ge Ripping Depth: ge Ripping Width: e Ripping Length: age Dozer Speed: | NA 2.56 7.08 200.00 88.00 | feet/secon feet/pass feet/pass | | |
| | <u>Seismic:</u> | ODUCTION Averag Averag Average Aver Aver | Seismic Velocity: ge Ripping Depth: ge Ripping Width: e Ripping Length: gage Dozer Speed: b Maneuver Time: | NA 2.56 7.08 200.00 88.00 0.25 | feet/secon feet/pass feet/pass feet/pass feet/minu minutes/p | te ass | |
| | <u>Seismic:</u> | ODUCTION Averag Averag Average Aver Aver | Seismic Velocity: ge Ripping Depth: ge Ripping Width: e Ripping Length: age Dozer Speed: | NA 2.56 7.08 200.00 88.00 | feet/secon feet/pass feet/pass feet/pass feet/pass feet/minu | te ass | |
| | <u>Seismic:</u> | ODUCTION Averag Averag Average Aver Average Produc | Seismic Velocity: ge Ripping Depth: ge Ripping Width: e Ripping Length: age Dozer Speed: e Maneuver Time: tion per unit area: | NA 2.56 7.08 200.00 88.00 0.25 | feet/secon feet/pass feet/pass feet/pass feet/minu minutes/p | te ass | |
| | <u>Seismic:</u> <u>Area:</u> Job Condition Co | ODUCTION Average Average Average Average Produc Drrection Factors | Seismic Velocity: ge Ripping Depth: ge Ripping Width: e Ripping Length: age Dozer Speed: e Maneuver Time: tion per unit area: | NA 2.56 7.08 200.00 88.00 0.25 0.773 | feet/secon feet/pass feet/pass feet/pass feet/minu minutes/p | te ass | |
| | <u>Seismic:</u> <u>Area:</u> Job Condition Co | ODUCTION Average Average Average Average Produc Drrection Factors | Seismic Velocity: ge Ripping Depth: ge Ripping Width: e Ripping Length: age Dozer Speed: e Maneuver Time: tion per unit area: g | NA 2.56 7.08 200.00 88.00 0.25 0.773 0.773 | feet/secor feet/pass feet/pass feet/pass feet/minu minutes/p acres/hou Acres/hr | te ass | |
| | <u>Seismic:</u> <u>Area:</u> Job Condition Co | ODUCTION Average Average Average Average Produc Drrection Factors | Seismic Velocity: ge Ripping Depth: ge Ripping Width: e Ripping Length: age Dozer Speed: e Maneuver Time: tion per unit area: | NA 2.56 7.08 200.00 88.00 0.25 0.773 | feet/secon feet/pass feet/pass feet/pass feet/minu minutes/p acres/hou | te vass r | |
| | <u>Seismic:</u> <u>Area:</u> Job Condition Co | ODUCTION Average Average Average Average Produc Drrection Factors | Seismic Velocity: ge Ripping Depth: ge Ripping Width: e Ripping Length: age Dozer Speed: e Maneuver Time: tion per unit area: g v Unit Production: Site Altitude: | NA 2.56 7.08 200.00 88.00 0.25 0.773 0.773 5,700 1.00 0.83 | feet/secon feet/pass feet/pass feet/pass feet/minu minutes/p acres/hou Acres/hr feet | te ass r | |
| | <u>Seismic:</u> <u>Area:</u> Job Condition Co | ODUCTION Average Average Average Average Produc Drrection Factors | Seismic Velocity: ge Ripping Depth: ge Ripping Width: e Ripping Length: age Dozer Speed: e Maneuver Time: tion per unit area: a v Unit Production: Site Altitude: Altitude Adj: | NA 2.56 7.08 200.00 88.00 0.25 0.773 0.773 5,700 1.00 | feet/secon feet/pass feet/pass feet/pass feet/pass feet/minu minutes/p acres/hou Acres/hr feet (CAT HE | te ass r) ny) | |
| | <u>Seismic:</u> <u>Area:</u> Job Condition Co | ODUCTION Average Average Average Average Produc Orrection Factors hadjusted Hourly | Seismic Velocity: ge Ripping Depth: te Ripping Width: e Ripping Length: tage Dozer Speed: e Maneuver Time: tion per unit area: tion per unit area: v Unit Production: Site Altitude: Altitude Adj: Job Efficiency: Net Correction: | NA 2.56 7.08 200.00 88.00 0.25 0.773 0.773 5,700 1.00 0.83 0.83 | feet/secon feet/pass feet/pass feet/pass feet/pass feet/minu minutes/p acres/hou Acres/hr feet (CAT HE (1 shift/da multiplier | te ass r) ny) | |
| | <u>Seismic:</u> <u>Area:</u> Job Condition Co | ODUCTION Average Average Average Produc orrection Factors hadjusted Hourly | Seismic Velocity: ge Ripping Depth: ge Ripping Width: e Ripping Length: age Dozer Speed: e Maneuver Time: tion per unit area: tion per unit area: y Unit Production: Site Altitude: Altitude Adj: Job Efficiency: | NA 2.56 7.08 200.00 88.00 0.25 0.773 0.773 5,700 1.00 0.83 | feet/secon feet/pass feet/pass feet/pass feet/minu minutes/p acres/hou Acres/hr feet (CAT HE (1 shift/da | te ass r) ny) | |
| | <u>Seismic:</u> <u>Area:</u> <u>Job Condition Co</u> Un | ODUCTION Average Average Average Produc Orrection Factors hadjusted Hourly Adjusted | Seismic Velocity: ge Ripping Depth: ge Ripping Width: e Ripping Length: age Dozer Speed: b Maneuver Time: tion per unit area: tion per unit area: y Unit Production: Site Altitude: Altitude Adj: Job Efficiency: Net Correction: Hourly Unit Production: | NA 2.56 7.08 200.00 88.00 0.25 0.773 0.773 5,700 1.00 0.83 0.83 0.64 | feet/secon feet/pass feet/pass feet/pass feet/pass feet/minu minutes/p acres/hou Acres/hr feet (CAT HE (1 shift/da multiplier Acres/hr | te ass r) ny) | |
| | <u>Seismic:</u> <u>Area:</u> <u>Job Condition Co</u> Un <u>JOB TIME AN</u> | ODUCTION Average Average Average Produc Orrection Factors hadjusted Hourly Adjusted Adjusted | Seismic Velocity: ge Ripping Depth: te Ripping Width: e Ripping Length: age Dozer Speed: e Maneuver Time: tion per unit area: tion per unit area: v Unit Production: Site Altitude: Altitude Adj: Job Efficiency: Net Correction: Hourly Unit Production: Hourly Fleet Production: | NA 2.56 7.08 200.00 88.00 0.25 0.773 0.773 5,700 1.00 0.83 0.83 0.64 0.64 | feet/secon feet/pass feet/pass feet/pass feet/minu minutes/p acres/hou Acres/hr feet (CAT HE (1 shift/da multiplien Acres/hr Acres/hr | te pass r)))))) | Hours |
| | <u>Seismic:</u> <u>Area:</u> <u>Job Condition Co</u> Un | ODUCTION Average Average Average Produc Orrection Factors hadjusted Hourly Adjusted | Seismic Velocity: ge Ripping Depth: ge Ripping Width: e Ripping Length: age Dozer Speed: b Maneuver Time: tion per unit area: tion per unit area: y Unit Production: Site Altitude: Altitude Adj: Job Efficiency: Net Correction: Hourly Unit Production: | NA 2.56 7.08 200.00 88.00 0.25 0.773 0.773 5,700 1.00 0.83 0.83 0.64 0.64 | feet/secon feet/pass feet/pass feet/pass feet/pass feet/minu minutes/p acres/hou Acres/hr feet (CAT HE (1 shift/da multiplien Acres/hr Acres/hr acres/hr | te ass r) ny) | Hours |

REVEGETATION WORK

| r | Fask descrip | otion: | Revegetate 14.5 acres | | | _ |
|----------|--------------|-----------|-----------------------|---------------------|---------------|---------------------|
| Site: | Dill Pit | | Permit Action | n: 2023 Calculation | Permit/Jol | o#: <u>M2009077</u> |
| <u>P</u> | ROJECT | IDENTIFIC | ATION | | | |
| | Task #: | 004 | State: Colorado | 0 | Abbreviation: | None |
| | Date: | 7/19/2023 | County: Elbert | | Filename: | M077-004 |
| | User: | JR2 | | | | |

FERTILIZING

Materials

| Description | Units / Acre | Unit | Cost / Unit | Cost /Acre |
|---------------------------|-----------------|-------|-------------------------------|------------|
| 0-20-20, 4-8-12, 10-10-10 | 40.00 | pound | \$0.62 | \$24.80 |
| | | | Total Fertilizer Materials | |
| | | | Cost/Acre | \$24.80 |

Application

| Description | | Cost /Acre |
|---|--|------------|
| Tractor towed spreader (MEANS 32 01 90.13 0120) | | \$41.82 |
| | | |
| | Total Fertilizer Application Cost/Acre | \$41.82 |

TILLING

| Description | | Cost /Acre |
|--|--------------------------------|------------|
| Chisel plowing {DMG} | | \$100.40 |
| Weed control spraying (MEANS 31 31 16.13 3100) | | \$338.80 |
| | | |
| | Total Tilling Cost/Acre | \$439.20 |

SEEDING

| Seed Mix | Rate – PLS LBS / Acre | Seeds per SQ. FT | Cost /Acre |
|--------------------------------|--------------------------------|------------------------|------------|
| Blue Grama - Native | 2.00 | 32.64 | \$27.45 |
| Little Bluestem - Cimarron | 2.00 | 11.94 | \$24.97 |
| Prairie Clover, Purple - Kaneb | 0.25 | 1.71 | \$14.13 |
| Sideoats Grama - El Reno | 2.00 | 6.57 | \$16.75 |
| Sand Bluestem - Woodward | 1.00 | 2.59 | \$21.17 |
| Prairie Sandreed - Goshen | 2.00 | 12.53 | \$20.70 |
| Totals Seed Mix | 9.25 | 67.98 | \$125.16 |

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 |
|---------------------------------|-----------------|------|-------------|------------|
| | | | \$ | \$ |
| Total Mulch Materials Cost/Acre | | | | \$0.00 |

Application

| Description | | Cost /Acre |
|--|-----------------------------------|------------|
| Weed spray, hand, non-aquatic area, nox. [DMG] | | \$183.16 |
| | | |
| | Total Mulch Application Cost/Acre | \$183.16 |

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 |

| No. of Acres: | 14.5 | Cost /Acre: | \$1,046.14 |
|----------------------------------|---------|--------------|------------|
| Estimated Failure Rate: | 25% | Cost /Acre*: | \$357.16 |
| *Selected Replanting Work Items: | SEEDING | | |

| Initial Job Cost: | \$15,169.03 |
|---------------------|-------------|
| Reseeding Job Cost: | \$1,294.71 |
| Total Job Cost: | \$16,464 |
| Job Hours: | 7.25 |

REVEGETATION WORK

| | ask descript Dill Pit | | | | it floor and W pit wal 2023 Calculation | Permit/Jo | b#: <u>M2009077</u> |
|-----------|--------------------------|-----------|---------|----------|--|---------------|---------------------|
| <u>PR</u> | <u>OJECT I</u> | DENTIFIC | ATION | | | | |
| | Task #: | 004B | State: | Colorado | | Abbreviation: | None |
| | Date: | 8/11/2023 | County: | Elbert | | Filename: | M077-004b |
| | User: | AME | | | | | |

FERTILIZING

Materials

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

Application

| Description | Cost /Acre |
|--|------------|
| | \$ |
| Total Fertilizer Application Cost/Acre | \$0.00 |

TILLING

| Description | Cost /Acre |
|-------------------------|------------|
| | \$ |
| Total Tilling Cost/Acre | \$0.00 |

SEEDING

| Seed Mix | Rate – PLS LBS / Acre | Seeds per SQ. FT | Cost /Acre |
|-----------------|--------------------------------|------------------------|------------|
| | | | \$ |
| Totals Seed Mix | 0.00 | 0.00 | \$0.00 |

Application

| Description | Cost /Acre |
|-------------|------------|
| | \$ |

Total Seed Application Cost/Acre\$0.00

MULCHING and MISCELLANEOUS

Materials

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

Application

| Description | | Cost /Acre |
|--|--|------------|
| Crimping, with tractor {DMG survey data} | | \$74.46 |
| | | |
| | Total Mulch Application Cost/Acre | \$74.46 |

NURSERY STOCK PLANTING

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

| No. of Ac | res: 4.3 | Cost /Acre: \$934.03 |
|-------------------------------------|----------|----------------------|
| Estimated Failure R | ate: 0% | Cost /Acre*: \$0.00 |
| *Selected Replanting Work Ite | ms: NONE | |
| Initial Job Cost: \$4,016.33 | | _ |
| Reseeding Job Cost: \$0.00 | | |
| Total Job Cost: \$4,016 | | |
| Job Hours: 2.00 | | _ |
| | | |

EQUIPMENT MOBILIZATION/DEMOBILIZATION

| | 1110 | bilization/Demob | | | | | |
|---|---|---|--|---|--|---|-------------------------------------|
| Dill Pit | | Permit | Action: <u>2023</u> | Calculatio | <u>n</u> | Permit/Job#: <u>M</u> | 2009077 |
| PROJECT IDEN | NTIFICATI | <u>ON</u> | | | | | |
| Task #: 005 | | State: Co | olorado | | Abbre | eviation: None | |
| Date: 7/19 User: JR2 | 9/2023 | County: El | bert | | Fi | ilename: M077 | -005 |
| Agency of | or organization | n name: DRMS | | | | | |
| EQUIPMENT T | RANSPOR | <u>T RIG COST</u> | | | | | |
| | | | | (| Shift ba Cost Data Sour | i | |
| Truck | Tractor Desc | ription: GENE | RIC ON-HIGH | | JCK TRACTO (2ND HALF, | OR, 6X4, DIESEL 2006) | POWERED, |
| | | | | | | | |
| Trucl | k Trailer Desc | ription: G | | | | ROP DECK EQU | IPMENT |
| Truch Cost Breakdown: | k Trailer Desc | ription: G | | | SENECK, DF | ROP DECK EQU | IPMENT |
| Cost Breakdown: Available Rig Ca | apacities | 0-25 Tons | 26-50 Tons | TRAILER | DSENECK, DF (25T, 50T, AN ► Tons | ROP DECK EQU | IPMENT |
| Cost Breakdown: Available Rig Ca Ownership | apacities Cost/Hour: | 0-25 Tons \$20.26 | 26-50 Tons \$36.04 | <u>FRAILER</u> 51- \$4 | DSENECK, DF (25T, 50T, AN + Tons 47.05 | ROP DECK EQU | IPMENT |
| Cost Breakdown: Available Rig Ca Ownership Operating | apacities Cost/Hour: Cost/Hour: | 0-25 Tons \$20.26 \$39.51 | 26-50 Tons \$36.04 \$76.08 | <u>FRAILER</u> 51- \$2 \$8 | DSENECK, DF (25T, 50T, AN + Tons 47.05 32.85 | ROP DECK EQU | IPMENT |
| <u>Cost Breakdown:</u> Available Rig Ca Ownership Operating Operator | apacities Cost/Hour: Cost/Hour: Cost/Hour: | 0-25 Tons \$20.26 \$39.51 \$22.52 | 26-50 Tons \$36.04 \$76.08 \$22.52 | <u>FRAILER</u> 51- \$2 \$8 \$2 | DSENECK, DF (25T, 50T, AN + Tons 47.05 82.85 22.52 | ROP DECK EQU | IPMENT |
| <u>Cost Breakdown:</u> Available Rig Ca Ownership Operating Operator Helper | apacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: | 0-25 Tons \$20.26 \$39.51 \$22.52 \$0.00 | 26-50 Tons \$36.04 \$76.08 \$22.52 \$23.53 | State 51- \$4 \$4 \$2 \$2 \$2 \$2 \$2 | DSENECK, DF (25T, 50T, AN + Tons 47.05 32.85 22.52 23.53 | ROP DECK EQU | IPMENT |
| <u>Cost Breakdown:</u> Available Rig Ca Ownership Operating Operator Helper | apacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: | 0-25 Tons \$20.26 \$39.51 \$22.52 \$0.00 \$82.29 | 26-50 Tons \$36.04 \$76.08 \$22.52 | State 51- \$4 \$4 \$2 \$2 \$2 \$2 \$2 | DSENECK, DF (25T, 50T, AN + Tons 47.05 82.85 22.52 | ROP DECK EQU | IPMENT |
| Cost Breakdown: Available Rig Ca Ownership Operating Operator Helper Total Unit | apacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPN | 0-25 Tons \$20.26 \$39.51 \$22.52 \$0.00 \$82.29 MENT: | 26-50 Tons \$36.04 \$76.08 \$22.52 \$23.53 \$158.17 | S1- \$4 \$4 \$4 \$2 \$1- \$4 \$5 \$5 \$1- | DSENECK, DF (25T, 50T, AN + Tons 47.05 32.85 22.52 23.53 75.95 | ROP DECK EQU | DOT Permit |
| Cost Breakdown: Available Rig Ca Ownership Operating Operator Helper Total Unit | apacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: | 0-25 Tons \$20.26 \$39.51 \$22.52 \$0.00 \$82.29 | 26-50 Tons \$36.04 \$76.08 \$22.52 \$23.53 | State 51- \$4 \$4 \$2 \$2 \$2 \$2 \$2 | DSENECK, DF (25T, 50T, AN + Tons 47.05 32.85 22.52 23.53 | ROP DECK EQU | IPMENT DOT Permit Cost/ fleet |
| Cost Breakdown: Available Rig Ca Ownership Operating Operator Helper Total Unit NON ROADAB Machine | apacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPN Weight/ Unit | 0-25 Tons \$20.26 \$39.51 \$22.52 \$0.00 \$82.29 MENT: Owner ship | 26-50 Tons \$36.04 \$76.08 \$22.52 \$23.53 \$158.17 Haul Rig Cost/hr/uni | S1- \$2 \$2 \$2 \$2 \$1- \$2 \$2 \$1 \$1 \$1 \$2 \$1 \$1 | DSENECK, DF (25T, 50T, AN Tons 47.05 32.85 22.52 23.53 75.95 Haul Trip Cost/hr/ | ROP DECK EQU | DOT Permit |
| Cost Breakdown: Available Rig Ca Ownership Operating Operator Helper Total Unit NON ROADAB Machine Description Drill/Broadcast Seeder with | apacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPM Weight/ Unit (TONS) | 0-25 Tons \$20.26 \$39.51 \$22.52 \$0.00 \$82.29 MENT: Owner ship Cost/hr/ unit | 26-50 Tons \$36.04 \$76.08 \$22.52 \$23.53 \$158.17 Haul Rig Cost/hr/uni t | S1- \$2 \$2 \$2 \$1 \$2 \$1 \$2 \$1 \$1 \$2 \$1 \$1 \$1 \$2 | DSENECK, DF (25T, 50T, AN Tons 47.05 32.85 22.52 23.53 75.95 Haul Trip Cost/hr/ fleet | ROP DECK EQU ND 100T) Return Trip Cost/hr/ fleet | DOT Permit Cost/ fleet |

ROADABLE EQUIPMENT:

| Machine Description | Total Cost/hr/ unit | Fleet Size | Haul Trip Cost/hr/ fleet | Return Trip Cost/hr/ fleet |
|--------------------------------|------------------------|------------|-----------------------------|-------------------------------|
| Light Duty Pickup, 4x2, 1/2 T. | \$14.82 | 1 | \$14.82 | \$14.82 |
| | | Subtotals: | \$14.82 | \$14.82 |

EQUIPMENT HAUL DISTANCE and Time

| Nearest Major City or Town within project area region: | COLORADO SPRINGS | _ |
|--|------------------|-------|
| Total one-way travel distance: | 70.00 | miles |
| Average Travel Speed: | 65.00 | mph |
| | | |
| Total Non-Roadable Mob/Demob Cost * | \$3,718.12 | |
| '* two round trips with haul rig: | | _ |
| Total Roadable Mob/Demob Cost ** | \$31.92 | |
| ** one round trip, no haul rig: | \$51.92 | _ |

Transportation Cycle Time:

| | Non- Roadable Equipment | Roadable Equipment |
|-------------------------|-------------------------------|-----------------------|
| Haul Time (Hours): | 1.08 | 1.08 |
| Return Time (Hours): | 1.08 | 1.08 |
| Loading Time (Hours): | 0.50 | NA |
| Unloading Time (Hours): | 0.50 | NA |
| Subtotals: | 3.15 | 2.15 |

JOB TIME AND COST

Total job time: 6.31 Hours

Total job cost: \$3,750