

## COST SUMMARY WORK

Task description: \_\_\_\_\_

Site: Limon Pit

Permit Action: 2025 SO Bond  
Calculation

Permit/Job#: M2013080

### PROJECT IDENTIFICATION

Task #: 010  
Date: 8/22/2025  
User: BEH

State: Colorado  
County: Lincoln

Abbreviation: None  
Filename: M080-010

Agency or organization name: DRMS

### TASK LIST (DIRECT COSTS)

| Task                     | Description                           | Form Used | Fleet Size | Task Hours   | Cost             |
|--------------------------|---------------------------------------|-----------|------------|--------------|------------------|
| 012                      | Final rough grading                   | DOZER     | 1          | 30.97        | \$15,525         |
| 013                      | Remove berm along Big Sandy Creek     | DOZER     | 1          | 4.21         | \$2,110          |
| 014                      | Replacing Overburden/Topsoil          | SCRAPER1  | 3          | 20.86        | \$199,915        |
| 015                      | Revegetating Disturbed Area           | REVEGE    | 1          | 100.00       | \$174,636        |
| 016                      | Equipment Mobilization/Demobilization | MOBILIZE  | 1          | 4.16         | \$33,725         |
| <b><u>SUBTOTALS:</u></b> |                                       |           |            | <b>160.2</b> | <b>\$425,911</b> |

### INDIRECT COSTS

#### OVERHEAD AND PROFIT:

|                      |       |                                    |           |
|----------------------|-------|------------------------------------|-----------|
| Liability insurance: | 2.02  | Total =                            | \$8,603   |
| Performance bond:    | 1.05  | Total =                            | \$4,472   |
| Job superintendent:  | 80.10 | Total =                            | \$6,018   |
| Profit:              | 10.00 | Total =                            | \$42,591  |
|                      |       | TOTAL O & P =                      | \$61,684  |
|                      |       | CONTRACT AMOUNT (direct + O & P) = | \$487,595 |

#### LEGAL - ENGINEERING - PROJECT MANAGEMENT:

|  |       |         |          |
|--|-------|---------|----------|
| Financial warranty processing (legal/related costs): | \$500 | Total = | \$500    |
| Engineering work and/or contract/bid preparation:    | 6.59  | Total = | \$32,133 |
| Reclamation management and/or administration:        | 5.00  |         | \$24,380 |
| CONTINGENCY:   | 0.00  | Total = | \$0      |

TOTAL INDIRECT COST = \$118,697

**TOTAL BOND AMOUNT (direct + indirect) = \$544,608**

**BULLDOZER WORK**Task description: **Final rough grading**

Site: **Limon Pit** Permit Action: **2025 SO Bond Calculation** Permit/Job#: **M2013080**

**PROJECT IDENTIFICATION**

Task #: **012** State: **Colorado** Abbreviation: **None**  
 Date: **8/22/2025** County: **Lincoln** Filename: **M080-012**  
 User: **BEH**

Agency or organization name: **DRMS****HOURLY EQUIPMENT COST**

Basic Machine: **Cat D10T - 10SU**  
 Horsepower: **574**  
 Blade Type: **Semi-Universal**  
 Attachment: **NA**  
 Shift Basis: **1 per day**  
 Data Source: **(CRG)**

**Cost Breakdown:**

|                        |          | <u>Utilization %</u> |
|------------------------|----------|----------------------|
| Ownership Cost/Hour:   | \$266.69 | NA                   |
| Operating Cost/Hour:   | \$196.65 | 100                  |
| Ripper own. Cost/Hour: | \$0.00   | NA                   |
| Ripper op. Cost/Hour:  | \$0.00   | 0                    |
| Operator Cost/Hour:    | \$38.02  | NA                   |

Total unit Cost/Hour: **\$501.36**  
 Total Fleet Cost/Hour: **\$501.36**

**MATERIAL QUANTITIES**

Initial Volume: **33,000**  
 Swell factor: **1.000**  
 Loose volume: **33,000 LCY**

Source of estimated volume: **Division of Reclamation, Mining & Safety**  
 Source of estimated swell factor: **Cat Handbook**

**HOURLY PRODUCTION**

Average push distance: **50 feet**  
 Unadjusted hourly production: **2,748.7 LCY/hr**

Materials consistency description: **Compacted fill or embankment 0.9**

Average push gradient: **5 %**  
 Average site altitude: **5,310 feet**

Material weight: **2,400 lbs/LCY**Weight description: **Sand - Dry, loose**

| <u>Job Condition Correction Factor</u> | <u>Source</u>    |
|--|------------------|
| Operator Skill: <b>0.750</b>           | <b>(AVG.)</b>    |
| Material consistency: <b>0.900</b>     | <b>(CAT HB))</b> |
| Dozing method: <b>1.000</b>            | <b>(GEN.)</b>    |

|                  |       |               |
|------------------|-------|---------------|
| Visibility:      | 1.000 | (AVG.)        |
| Job efficiency:  | 0.830 | (1 SHIFT/DAY) |
| Spoil pile:      | 0.800 | (FND-RF)      |
| Push gradient:   | 0.903 | (CAT HB)      |
| Altitude:        | 1.000 | (CAT HB)      |
| Material Weight: | 0.958 | (CAT HB)      |
| Blade type:      | 1.000 | (PAT)         |

Net correction: 0.3877

Adjusted unit production: 1,065.67 LCY/hr

Adjusted fleet production: **1065.67** LCY/hr

### **JOB TIME AND COST**

Fleet size: 1 Dozer(s)

Unit cost: \$0.470/LCY

Total job time: **30.97** Hours

Total job cost: **\$15,525**

**BULLDOZER WORK**Task description: **Remove berm along Big Sandy Creek**

Site: Limon Pit Permit Action: 2025 SO Bond Calculation Permit/Job#: M2013080

**PROJECT IDENTIFICATION**

Task #: 013 State: Colorado Abbreviation: None  
 Date: 8/22/2025 County: Lincoln Filename: M080-013  
 User: BEH

Agency or organization name: DRMS**HOURLY EQUIPMENT COST**

Basic Machine: Cat D10T - 10SU  
 Horsepower: 574  
 Blade Type: Semi-Universal  
 Attachment: NA  
 Shift Basis: 1 per day  
 Data Source: (CRG)

**Cost Breakdown:**

|                        |                 | <u>Utilization %</u> |
|------------------------|-----------------|----------------------|
| Ownership Cost/Hour:   | <u>\$266.69</u> | <u>NA</u>            |
| Operating Cost/Hour:   | <u>\$196.65</u> | <u>100</u>           |
| Ripper own. Cost/Hour: | <u>\$0.00</u>   | <u>NA</u>            |
| Ripper op. Cost/Hour:  | <u>\$0.00</u>   | <u>0</u>             |
| Operator Cost/Hour:    | <u>\$38.02</u>  | <u>NA</u>            |

Total unit Cost/Hour: \$501.36  
 Total Fleet Cost/Hour: **\$501.36**

**MATERIAL QUANTITIES**

Initial Volume: 4,000  
 Swell factor: 1.125  
 Loose volume: **4,500 LCY**

Source of estimated volume: Division of Reclamation, Mining & Safety  
 Source of estimated swell factor: Cat Handbook

**HOURLY PRODUCTION**

Average push distance: 50 feet  
 Unadjusted hourly production: 2,748.7 LCY/hr

Materials consistency description: Compacted fill or embankment 0.9

Average push gradient: 0 %  
 Average site altitude: 5,310 feet

Material weight: 2,650 lbs/LCYWeight description: Decomposed rock - 25% Rock, 75% Earth**Job Condition Correction Factor**

|                       |              | <u>Source</u>    |
|-----------------------|--------------|------------------|
| Operator Skill:       | <u>0.750</u> | <u>(AVG.)</u>    |
| Material consistency: | <u>0.900</u> | <u>(CAT HB))</u> |
| Dozing method:        | <u>1.000</u> | <u>(GEN.)</u>    |

|                  |       |               |
|------------------|-------|---------------|
| Visibility:      | 1.000 | (AVG.)        |
| Job efficiency:  | 0.830 | (1 SHIFT/DAY) |
| Spoil pile:      | 0.800 | (FND-RF)      |
| Push gradient:   | 1.000 | (CAT HB)      |
| Altitude:        | 1.000 | (CAT HB)      |
| Material Weight: | 0.868 | (CAT HB)      |
| Blade type:      | 1.000 | (PAT)         |

Net correction: 0.3890

Adjusted unit production: 1,069.24 LCY/hr

Adjusted fleet production: **1069.24** LCY/hr

### **JOB TIME AND COST**

Fleet size: 1 Dozer(s)

Unit cost: \$0.469/LCY

Total job time: **4.21** Hours

Total job cost: **\$2,110**

**SCRAPER TEAM WORK**Task description: **Replacing Overburden/Topsoil**Site: **Limon Pit**Permit Action: 2025 SO Bond  
CalculationPermit/Job#: M2013080**PROJECT IDENTIFICATION**Task #: 014State: ColoradoAbbreviation: NoneDate: 8/22/2025County: LincolnFilename: M080-014User: BEHAgency or organization name: DRMS**HOURLY EQUIPMENT**COSTShift basis: 1 per day

| Equipment Description           |                          |
|---------------------------------|--------------------------|
| -Scraper:                       | Cat 637G                 |
| -Dozer:                         | Cat D10T - 10SU          |
| Support Equipment -Load Area:   | NA                       |
| -Dump Area:                     | NA                       |
| Road Maintenance -Motor Grader: | CAT 140M                 |
| -Water Truck:                   | Water Tanker, 3,500 Gal. |

**Cost Breakdown:****Scraper Work Team****Support Equipment****Maintenance Equipment**

|                        | Scraper          | Dozer    | Load Area | Dump Area | Motor Grader | Water Truck |
|------------------------|------------------|----------|-----------|-----------|--------------|-------------|
| %Utilization-machine:  | 100              | 100      | NA        | NA        | 100          | 25          |
| Ownership cost/hour:   | \$336.56         | \$266.69 | NA        | NA        | \$51.45      | \$17.97     |
| Operating cost/hour:   | \$343.56         | \$196.65 | NA        | NA        | \$42.62      | \$8.77      |
| %Utilization-ripper:   | NA               | NA       | NA        | NA        | NA           | NA          |
| Ripper own. cost/hour: | NA               | \$0.00   | NA        | NA        | \$0.00       | \$0.00      |
| Ripper op. cost/hour:  | NA               | \$0.00   | NA        | NA        | \$0.00       | \$0.00      |
| Operator cost/hour:    | \$59.78          | \$38.02  | NA        | NA        | \$60.00      | \$20.81     |
| Unit Subtotals:        | \$739.90         | \$501.36 | NA        | NA        | \$154.07     | \$47.54     |
| Number of Units:       | 12               | 1        | 0         | 0         | 1            | 1           |
| Group Subtotals:       | Work: \$9,380.16 |          | Support:  | \$0.00    | Maint:       | \$201.61    |

Total work team cost/hour: **\$9,581.77****MATERIAL QUANTITIES**Initial volume: 172,800

CCY

Swell factor: 1.125Loose volume: **194,400**

LCY

Source of estimated volume: Division of Reclamation, Mining & SafetySource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION****Scraper Bowl (volume) Basis:**

Material weight: 2,650 lbs/LCY  
 Material description: Decomposed rock - 25% Rock,  
75% Earth  
 Rated Payload: 81,600 pounds

Struck Volume: 24.00 LCY  
 Heaped Volume: 34.00 LCY  
 Average Volume: 29.00 LCY

Payload Capacity: 30.79 LCYAdjusted Capacity: 29.00 LCYCycle Time:Scraper Loading Time: 0.50 MinutesManeuver and Spread Time: 0.60 MinutesJob Condition Correction:

Site Altitude: 5310 feet

|                 | Scraper | Push Dozer | Source   |
|-----------------|---------|------------|----------|
| Altitude Adj:   | 1.000   | 1.000      | (CAT HB) |
| Job Efficiency: | 0.830   | 0.830      | (CAT HB) |
| Net Correction: | 0.830   | 0.830      |          |

Travel Time:Road Condition: Firm, smooth, rolling, dirt/lt. surfaced, watered, maintained 3.0Haul Route:

| Seg # | Haul Distance (Ft) | Grade (%) | Roll. Res (%) | Total Res (%) | Velocity (fpm) | Travel Time (min) |
|-------|--------------------|-----------|---------------|---------------|----------------|-------------------|
| 1     | 500.00             | 0.00      | 3.00          | 3.00          | 2800           | 0.45              |

Haul Time: 0.45 minutesReturn Route:

| Seg # | Haul Distance (Ft) | Grade (%) | Roll. Res (%) | Total Res (%) | Velocity (fpm) | Travel Time (min) |
|-------|--------------------|-----------|---------------|---------------|----------------|-------------------|
| 1     | 500.00             | 0.00      | 3.00          | 3.00          | 2949           | 0.31              |

Return Time: 0.31 minutesTotal Scraper team cycle time: 1.86 minutesAdjusted for job conditions: 776.45 LCY/HourSelected Number of Scrapers: 4 Scraper(s)Adjusted single scraper team (unit) hourly production: 3,105.81 LCY/HourAdjusted multiple scraper team (fleet) hourly production: 9,317.42 LCY/HourUnadjusted unit production/hour: 935.48 LCY/Hour

Optimal Number of Scrapers per push dozer: \_\_\_\_\_

**JOB TIME AND COST**Fleet size: 3 Team(s)Total job time: 20.86 HoursUnit cost: \$1.028 /LCYTotal job cost: \$199,915

**REVEGETATION WORK**Task description: Revegetating Disturbed AreaSite: Limon Pit Permit Action: 2025 SO Bond CalculationPermit/Job#: M2013080**PROJECT IDENTIFICATION**

Task #: 015 State: Colorado Abbreviation: None  
 Date: 8/22/2025 County: Lincoln Filename: M080-015  
 User: BEH

Agency or organization name: DRMS**FERTILIZING****Materials**

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

**Application**

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

**TILLING**

| Description                    | Cost / Acre   |
|--------------------------------|---------------|
|                                | \$            |
| <b>Total Tilling Cost/Acre</b> | <b>\$0.00</b> |

**SEEDING**

| Seed Mix                   | Rate – PLS LBS / Acre | Seeds per SQ. FT | Cost / Acre     |
|----------------------------|-----------------------|------------------|-----------------|
| Indiangrass - Holt         | 2.00                  | 6.10             | \$25.94         |
| Switchgrass - Nebraska 28  | 0.80                  | 7.14             | \$9.12          |
| Sand Bluestem - Garden Co. | 3.20                  | 8.30             | \$79.38         |
| Sideoats Grama - Vaughn    | 1.40                  | 4.60             | \$35.25         |
| Rye, Winter - VNS          | 0.40                  | 0.17             | \$0.26          |
| Prairie Sandreed - Goshen  | 1.30                  | 8.15             | \$22.66         |
| <b>Totals Seed Mix</b>     | <b>9.10</b>           | <b>34.45</b>     | <b>\$172.61</b> |



**Application**

| Description                             | Cost /Acre      |
|---|-----------------|
| Drill Seeding (DRMS Survey Cost)        | \$242.30        |
| <b>Total Seed Application Cost/Acre</b> | <b>\$242.30</b> |

**MULCHING and MISCELLANEOUS****Materials**

| Description                            | Units /<br>Acre | Unit | Cost / Unit | Cost /Acre        |
|--|-----------------|------|-------------|-------------------|
| Straw, delivered                       | 2.00            | TON  | \$504.56    | \$1,009.12        |
| <b>Total Mulch Materials Cost/Acre</b> |                 |      |             | <b>\$1,009.12</b> |

**Application**

| Description                              | Cost /Acre      |
|--|-----------------|
| Crimping, with tractor {DMG survey data} | \$239.35        |
| <b>Total Mulch Application Cost/Acre</b> | <b>\$239.35</b> |

**NURSERY STOCK PLANTING**

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

**JOB TIME AND COST**

No. of Acres: 100  
 Estimated Failure Rate: 20%  
 \*Selected Replanting Work Items: SEEDING

Cost /Acre: \$1,663.38  
 Cost /Acre\*: \$414.91

Initial Job Cost: **\$166,338.00**  
 Reseeding Job Cost: **\$8,298.20**  
 Total Job Cost: **\$174,636**  
 Job Hours: **100.00**

**EQUIPMENT MOBILIZATION/DEMOBILIZATION**Task description: **Equipment Mobilization/Demobilization**Site: **Limon Pit** Permit Action: 2025 SO Bond  
CalculationPermit/Job#: M2013080**PROJECT IDENTIFICATION**Task #: 016 State: Colorado Abbreviation: None  
Date: 8/22/2025 County: Lincoln Filename: M080-016  
User: BEHAgency or organization name: DRMS**EQUIPMENT TRANSPORT RIG COST**Shift basis: 1 per day  
Cost Data Source: CRG DataTruck Tractor Description: GENERIC ON-HIGHWAY TRUCK TRACTOR, 6X4, DIESEL POWERED,  
400 HP (2ND HALF, 2006)Truck Trailer Description: GENERIC FOLDING GOOSENECK, DROP DECK EQUIPMENT  
TRAILER (25T, 50T, AND 100T)**Cost Breakdown:**

| <b>Available Rig Capacities</b> | <b>0-25 Tons</b> | <b>26-50 Tons</b> | <b>51+ Tons</b> |
|---------------------------------|------------------|-------------------|-----------------|
| Ownership Cost/Hour:            | \$21.47          | \$38.32           | \$48.96         |
| Operating Cost/Hour:            | \$31.47          | \$60.11           | \$65.86         |
| Operator Cost/Hour:             | \$22.52          | \$22.52           | \$22.52         |
| Helper Cost/Hour:               | \$0.00           | \$22.25           | \$22.25         |
| Total Unit Cost/Hour:           | \$75.46          | \$143.20          | \$159.59        |

**NON ROADABLE EQUIPMENT:**

| Machine Description | Weight/<br>Unit<br>(TONS) | Owner ship<br>Cost/hr/ unit | Haul Rig<br>Cost/hr/unit | Fleet<br>Size | Haul Trip<br>Cost/hr/<br>fleet | Return Trip<br>Cost/hr/ fleet | DOT Permit<br>Cost/ fleet |
|---------------------|---------------------------|-----------------------------|--------------------------|---------------|--------------------------------|-------------------------------|---------------------------|
| Cat D10T - 10SU     | 84.53                     | \$266.69                    | \$159.59                 | 1             | \$426.28                       | \$159.59                      | \$250.00                  |
| Cat 637G            | 57.28                     | \$336.56                    | \$159.59                 | 12            | \$5,953.80                     | \$1,915.08                    | \$3,000.00                |
| CAT 140M            | 16.68                     | \$51.45                     | \$75.46                  | 1             | \$126.91                       | \$75.46                       | \$250.00                  |

Subtotals: **\$6,506.99** **\$2,150.13** **\$3,500.00****ROADABLE EQUIPMENT:**

| Machine Description      | Total Cost/hr/<br>unit | Fleet Size | Haul Trip<br>Cost/hr/ fleet | Return Trip<br>Cost/hr/ fleet |
|--------------------------|------------------------|------------|-----------------------------|-------------------------------|
| Water Tanker, 3,500 Gal. | \$53.04                | 1          | \$53.04                     | \$53.04                       |

Subtotals: **\$53.04** **\$53.04**

**EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region: LIMON  
 Total one-way travel distance: 2.00 miles  
 Average Travel Speed: 50.00 mph

Total Non-Roadable Mob/Demob Cost \* \$33,720.53  
 \*\* two round trips with haul rig:  
 Total Roadable Mob/Demob Cost \*\* \$4.24  
 \*\* one round trip, no haul rig:

**Transportation Cycle Time:**

|                         | Non-Roadable Equipment | Roadable Equipment |
|-------------------------|------------------------|--------------------|
| Haul Time (Hours):      | 0.04                   | 0.04               |
| Return Time (Hours):    | 0.04                   | 0.04               |
| Loading Time (Hours):   | 1.00                   | NA                 |
| Unloading Time (Hours): | 1.00                   | NA                 |
| Subtotals:              | 2.08                   | 0.08               |

**JOB TIME AND COST**

Total job time: 4.16 Hours

Total job cost: \$33,725