

COST SUMMARY WORK

Task description: TR-1 Updates

Site: Apex Lode

Permit Action: TR-1

Permit/Job#: M2014011

PROJECT IDENTIFICATION

Task #: ACY

State: Colorado

Abbreviation: None

Date: 6/25/2020

County: Garfield

Filename: M011-ACY

User: ACY

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

| Task | Description | Form Used | Fleet Size | Task Hours | Cost |
|--------------------------|----------------------------------|-----------|------------|---------------|-----------------|
| Phase 1 | | | | | |
| A1 | Portal Closure | MINESEAL | 1 | 24.00 | \$2,194 |
| A2 | Remove of Site Debris- Phase 1 | DEMOLISH | 1 | 40.00 | \$550 |
| A3 | Soil Scarification | REVEGE | 1 | 4.00 | \$29 |
| A4 | Reveg of storage area to portals | REVEGE | 1 | 4.00 | \$50 |
| Phase 2 | | | | | |
| B1 | Remove of Site Debris- Phase 2 | DEMOLISH | 1 | 64.00 | \$1,813 |
| B2 | Soil Scarification | REVEGE | 1 | 4.00 | \$29 |
| B3 | Reveg of cabin area | REVEGE | 1 | 4.00 | \$50 |
| Phase 3 | | | | | |
| C1 | Water bar installation | EXCAVATE | 1 | 7.48 | \$436 |
| C2 | Remove of Site Debris- Phase 2 | DEMOLISH | 1 | 4.00 | \$284 |
| C3 | Place Road Closure | EXCAVATE | 1 | 4.64 | \$270 |
| C4 | Soil Scarification | REVEGE | 1 | 16.00 | \$730 |
| C5 | Reveg of mine road | REVEGE | 1 | 16.00 | \$1,250 |
| Mob1 | Phase 1 Mobilization | MOBILIZE | 1 | 5.40 | \$1,501 |
| Mob2 | Phase 2 Mobilization | MOBILIZE | 1 | 5.40 | \$663 |
| Mob3 | Phase 3 Mobilization | MOBILIZE | 1 | 12.80 | \$2,111 |
| <u>SUBTOTALS:</u> | | | | 215.72 | \$11,960 |

INDIRECT COSTS**OVERHEAD AND PROFIT:**

| | | | |
|----------------------|--------|------------------------------------|----------|
| Liability insurance: | 2.02 | Total = | \$242 |
| Performance bond: | 1.05 | Total = | \$126 |
| Job superintendent: | 107.86 | Total = | \$7,502 |
| Profit: | 10.00 | Total = | \$1,196 |
| | | TOTAL O & P = | \$9,065 |
| | | CONTRACT AMOUNT (direct + O & P) = | \$21,025 |

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

| | | | |
|--|-------|---------|---------|
| Financial warranty processing (legal/related costs): | \$500 | Total = | \$500 |
| Engineering work and/or contract/bid preparation: | 4.25 | Total = | \$894 |
| Reclamation management and/or administration: | 5.00 | | \$1,051 |
| CONTINGENCY: 3.00 | | Total = | \$359 |

TOTAL INDIRECT COST = \$11,868

TOTAL BOND AMOUNT (direct + indirect) = \$23,828

SAFEGUARDING UNDERGROUND OPENINGS

Task description: Portal Closure

Site: Apex Lode

Permit Action: TR-1

Permit/Job#: M2014011

PROJECT IDENTIFICATION

Task #: A1

State: Colorado

Abbreviation: None

Date: 6/25/2020

County: Garfield

Filename: M011-A1

User: ACY

Agency or organization name: DRMS

UNIT COSTS

| Opening Description | Dimensions | Closure Method | Quantity | Unit | Unit Cost | Total Cost |
|--------------------------------------|------------|--|----------|------|-----------|------------|
| Upper Portal PUF Plug | 8'W x 5'H | Shaft closure - polyurethane foam plug (per cu. yd.) | 6.00 | CY | \$210.00 | \$1,260.00 |
| Upper Portal Rock & Mortar Over Foam | 1 | Adit closure - backfilling (per cu. yd.) | 1.50 | CY | \$20.00 | \$30.00 |
| Lower Portal PUF Plug | 5'W x 6"H | Shaft closure - polyurethane foam plug (per cu. yd.) | 4.20 | CY | \$210.00 | \$882.00 |
| Lower Portal Rock & Mortar Over Foam | 1 | Adit closure - backfilling (per cu. yd.) | 1.10 | CY | \$20.00 | \$22.00 |

Job Hours: 24.00

Total Cost: \$2,194.00

DEMOLITION WORK

Task description: Remove of Site Debris- Phase 1

Site: Apex Lode

Permit Action: TR-1

Permit/Job#: M2014011

PROJECT IDENTIFICATION

Task #: A2

State: Colorado

Abbreviation: None

Date: 6/25/2020

County: Garfield

Filename: M011-A2

User: ACY

Agency or organization name: DRMS

UNIT COSTS

Location adjustment: 86.60 %

| Structure or Item Description | Dimensions | Demolition Menu Selection | Quantity | Unit | Unit Cost | Total Cost |
|------------------------------------|-------------------|---|----------|------|-----------|------------|
| Railroad tracks to Upper Portal | 30 LF of 2" track | Railroad track - Ties and track | 30.00 | LF | \$9.56 | \$286.80 |
| Lower Portal Structure-Demo & Haul | 1000 Bd Ft | Bldg. (SN) demo./off-site disposal in approved landfill - Max. 30 mile haul | 83.30 | CF | \$0.39 | \$32.07 |
| Lower Portal Structure-Hand Load | 3 CY | Loading and 2 mile haul, no salvage - Hand loading | 3.00 | CY | \$41.45 | \$124.35 |
| Boardwalk Removal-Demo | 800 Bd Ft | Fencing, wood, all types - 4 ft. to 6 ft. high | 30.00 | LF | \$1.56 | \$46.80 |
| Boardwalk Removal-Hand Load | 800 Bd Ft | Loading and 2 mile haul, no salvage - Hand loading | 2.50 | CY | \$41.45 | \$103.63 |
| Boardwalk Removal-Haul | 2.5 CY | Light Duty Pickup, 4x4, 3/4 T. | 1.00 | EA | \$40.91 | \$40.91 |

Job Hours: 40.00

Subtotal
(unadjusted): \$634.56

Total Cost
(adjusted for location): \$549.53

REVEGETATION WORKTask description: Soil ScarificationSite: Apex LodePermit Action: TR-1Permit/Job#: M2014011**PROJECT IDENTIFICATION**Task #: A3State: ColoradoAbbreviation: NoneDate: 6/25/2020County: GarfieldFilename: M011-A3User: ACYAgency or organization name: DRMS**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 |
|--------------------------------------|-------------------|
| Hand raking (MEANS 32 91 13.23 0250) | \$1,459.26 |
| Total Tilling Cost/Acre | \$1,459.26 |

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

Application

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

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: 0.02
 Estimated Failure Rate: 30%
 *Selected Replanting Work Items: NONE

Cost /Acre: \$1,459.26
 Cost /Acre*: \$0.00

Initial Job Cost: **\$29.19**
 Reseeding Job Cost: **\$0.00**
 Total Job Cost: **\$29**
 Job Hours: **4.00**

REVEGETATION WORKTask description: Reveg of stroage area to portalsSite: Apex LodePermit Action: TR-1Permit/Job#: M2014011**PROJECT IDENTIFICATION**Task #: A4State: ColoradoAbbreviation: NoneDate: 6/25/2020County: GarfieldFilename: M011-A4User: ACYAgency or organization name: DRMS**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 |
|--------------------------------------|-------------------|
| Hand raking (MEANS 32 91 13.23 0250) | \$1,459.26 |
| Total Tilling Cost/Acre | \$1,459.26 |

SEEDING

| Seed Mix | Rate – PLS LBS / Acre | Seeds per SQ. FT | Cost /Acre |
|------------------------------------|--------------------------------|------------------------|-----------------|
| Fringed Brome grass - Native | 2.59 | 4.75 | \$43.96 |
| Blue Wildrye - Arlington or Elkton | 2.71 | 9.35 | \$18.08 |
| Mountain Brome - Bromar | 6.43 | 10.32 | \$24.42 |
| Slender Wheatgrass - San Luis | 6.62 | 24.15 | \$28.11 |
| Thickspike Wheatgrass - Critana | 6.70 | 23.67 | \$46.04 |
| Prairie Junegrass | 1.40 | 74.15 | \$36.27 |
| Totals Seed Mix | 26.43 | 146.39 | \$196.87 |

Application

| Description | Cost /Acre |
|---|-----------------|
| Broadcast seeding [DMG] | \$267.22 |
| Total Seed Application Cost/Acre | \$267.22 |

MULCHING and MISCELLANEOUS**Materials**

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

Application

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

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: | 0.02 | Cost /Acre: | \$1,923.35 |
| Estimated Failure Rate: | 30% | Cost /Acre*: | \$1,923.35 |
| *Selected Replanting Work Items: | TILLING,SEEDING | | |
| Initial Job Cost: | \$38.47 | | |
| Reseeding Job Cost: | \$11.54 | | |
| Total Job Cost: | \$50 | | |
| Job Hours: | 4.00 | | |

DEMOLITION WORK

Task description: Remove of Site Debris- Phase 2

Site: Apex Lode

Permit Action: TR-1

Permit/Job#: M2014011

PROJECT IDENTIFICATION

Task #: B1

State: Colorado

Abbreviation: None

Date: 6/25/2020

County: Garfield

Filename: M011-B1

User: ACY

Agency or organization name: DRMS

UNIT COSTS

Location adjustment: 86.60 %

| Structure or Item Description | Dimensions | Demolition Menu Selection | Quantity | Unit | Unit Cost | Total Cost |
|-------------------------------|-----------------|---|----------|------|-----------|------------|
| Cabin Demo & out house | 25' x 20 | Bldg. (SN) demo./off-site disposal in approved landfill - Max. 30 mile haul | 4,000.00 | CF | \$0.39 | \$1,540.00 |
| Metal Roof-Hand Load | 600 sq ft | Loading and 2 mile haul, no salvage - Hand loading | 1.00 | CY | \$41.45 | \$41.45 |
| Non-native Lumber-Hand Load | 1400 Bd Ft | Loading and 2 mile haul, no salvage - Hand loading | 4.30 | CY | \$41.45 | \$178.24 |
| Misc Materials-Hand Load | 2 pick-up loads | Loading and 2 mile haul, no salvage - Hand loading | 5.30 | CY | \$41.45 | \$219.69 |
| Dump fees | Above | Dump fees - Building construction materials. | 10.30 | CY | \$11.10 | \$114.33 |

Job Hours: 64.00

Subtotal
(unadjusted): \$2,093.71

Total Cost
(adjusted for location): \$1,813.15

REVEGETATION WORKTask description: Soil ScarificationSite: Apex LodePermit Action: TR-1Permit/Job#: M2014011**PROJECT IDENTIFICATION**Task #: B2State: ColoradoAbbreviation: NoneDate: 6/25/2020County: GarfieldFilename: M011-B2User: ACYAgency or organization name: DRMS**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 |
|--------------------------------------|-------------------|
| Hand raking (MEANS 32 91 13.23 0250) | \$1,459.26 |
| Total Tilling Cost/Acre | \$1,459.26 |

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

Application

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

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: 0.02
 Estimated Failure Rate: 30%
 *Selected Replanting Work Items: NONE

Cost /Acre: \$1,459.26
 Cost /Acre*: \$0.00

Initial Job Cost: **\$29.19**
 Reseeding Job Cost: **\$0.00**
 Total Job Cost: **\$29**
 Job Hours: **4.00**

REVEGETATION WORKTask description: Reveg of cabin areaSite: Apex LodePermit Action: TR-1Permit/Job#: M2014011PROJECT IDENTIFICATIONTask #: B3State: ColoradoAbbreviation: NoneDate: 7/8/2020County: GarfieldFilename: M011-B3User: ACYAgency or organization name: DRMSFERTILIZING**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 |
|--------------------------------------|-------------------|
| Hand raking (MEANS 32 91 13.23 0250) | \$1,459.26 |
| Total Tilling Cost/Acre | \$1,459.26 |

SEEDING

| Seed Mix | Rate – PLS LBS / Acre | Seeds per SQ. FT | Cost /Acre |
|------------------------------------|--------------------------------|------------------------|-----------------|
| Fringed Brome grass - Native | 2.59 | 4.75 | \$43.96 |
| Blue Wildrye - Arlington or Elkton | 2.71 | 9.35 | \$18.08 |
| Mountain Brome - Bromar | 6.43 | 10.32 | \$24.42 |
| Slender Wheatgrass - San Luis | 6.62 | 24.15 | \$28.11 |
| Thickspike Wheatgrass - Critana | 6.70 | 23.67 | \$46.04 |
| Prairie Junegrass | 1.40 | 74.15 | \$36.27 |
| Totals Seed Mix | 26.43 | 146.39 | \$196.87 |

Application

| Description | Cost /Acre |
|---|-----------------|
| Broadcast seeding [DMG] | \$267.22 |
| Total Seed Application Cost/Acre | \$267.22 |

MULCHING and MISCELLANEOUS**Materials**

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

Application

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

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: | 0.02 | Cost /Acre: | \$1,923.35 |
| Estimated Failure Rate: | 30% | Cost /Acre*: | \$1,923.35 |
| *Selected Replanting Work Items: | TILLING,SEEDING | | |
| Initial Job Cost: | \$38.47 | | |
| Reseeding Job Cost: | \$11.54 | | |
| Total Job Cost: | \$50 | | |
| Job Hours: | 4.00 | | |

HYDRAULIC EXCAVATOR WORK

Task description: Water bar instalation

Site: Apex Lode Permit Action: TR-1 Permit/Job#: M2014011

PROJECT IDENTIFICATION

Task #: C1 State: Colorado Abbreviation: None
Date: 6/25/2020 County: Garfield Filename: M011-C1
User: ACY

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Basic Machine: Cat 307D 7'-3" Stick Horsepower: 56
Attachment 1: ROPS Cab Weight (MT): 7.23
Shift Basis: 1 per day
Data Source: (CRG)

Cost Breakdown:

| | | Utilization % |
|------------------------|----------------|---------------|
| Ownership Cost/Hour: | <u>\$19.99</u> | <u>NA</u> |
| Operating Cost/Hour: | <u>\$0.93</u> | <u>5</u> |
| Operator Cost/Hour: | <u>\$37.32</u> | <u>NA</u> |
| Total Unit Cost/Hour: | <u>\$58.24</u> | |
| Total Fleet Cost/Hour: | <u>\$58.24</u> | |

MATERIAL QUANTITIES

Initial volume: 6 CCY Swell factor: 1.429
Loose volume: 9 LCY

Source of estimated volume: TR-1 Adequacy- 2x 3 yds each
Source of estimated swell factor: Cat Handbook

HOURLY PRODUCTION

Excavator Cycle Time (load bucket, swing loaded, dump bucket, swing empty):

Basic Job Condition Description: SEVERE
Secondary Job Condition within Basic Description: SEVERE
Cycle Time Value: 0.325 minutes

Load Bucket Capacity

Rated Capacity: 0.20 LCY (heaped) Bucket Size Class: Small
Bucket Fill Factor: 0.900 Other - soil, boulders, roots (80 -100%) 0.900
Adjusted Capacity: 0.18 LCY

Job Condition Correction Factors

Site Altitude: 10100 feet

| | | Source |
|-----------------|-------------|----------------------|
| Altitude Adj: | <u>0.83</u> | <u>(CAT HB)</u> |
| Job Efficiency: | <u>0.83</u> | <u>(1 shift/day)</u> |
| Net Correction: | <u>0.69</u> | <u>multiplier</u> |

Unadjusted Hourly Unit Production: 33.23 LCY/Hour
Adjusted Hourly Unit Production: 22.89 LCY/Hour
Adjusted Hourly Fleet Production: 22.89 LCY/Hour

JOB TIME AND COST

Fleet size: 1 Excavator Total job time: 7.49 Hours
Unit cost: \$2.544 /LCY Total job cost: \$436

DEMOLITION WORK

Task description: Remove of Site Debris- Phase 2

Site: Apex Lode

Permit Action: TR-1

Permit/Job#: M2014011

PROJECT IDENTIFICATION

Task #: C2

State: Colorado

Abbreviation: None

Date: 6/25/2020

County: Garfield

Filename: M011-C2

User: ACY

Agency or organization name: DRMS

UNIT COSTS

Location adjustment: 86.60 %

| Structure or Item Description | Dimensions | Demolition Menu Selection | Quantity | Unit | Unit Cost | Total Cost |
|-------------------------------|------------|---|----------|------|-----------|------------|
| Gate Removal-Load | 1 panel | Loading and 2 mile haul, no salvage - Hand loading | 2.00 | CY | \$41.45 | \$82.90 |
| Gate Removal-Haul | 2 CY | Hauling only, per mile, 12-18 CY truck - 30 mph average speed | 30.00 | MI | \$7.42 | \$222.60 |
| gate Removal-Dump Fee | 2 CY | Dump fees - Building construction materials. | 2.00 | CY | \$11.10 | \$22.20 |

Job Hours: 4.00

Subtotal
(unadjusted): \$327.70

Total Cost
(adjusted for location): \$283.79

HYDRAULIC EXCAVATOR WORK

Task description: Place Road Closure

Site: Apex Lode Permit Action: TR-1 Permit/Job#: M2014011

PROJECT IDENTIFICATION

Task #: C3 State: Colorado Abbreviation: None
Date: 6/25/2020 County: Garfield Filename: M011-C3
User: ACY

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Basic Machine: Cat 307D 7'-3" Stick Horsepower: 56
Attachment 1: ROPS Cab Weight (MT): 7.23
Shift Basis: 1 per day
Data Source: (CRG)

Cost Breakdown:

| | | Utilization % |
|------------------------|----------------|---------------|
| Ownership Cost/Hour: | <u>\$19.99</u> | <u>NA</u> |
| Operating Cost/Hour: | <u>\$0.93</u> | <u>5</u> |
| Operator Cost/Hour: | <u>\$37.32</u> | <u>NA</u> |
| Total Unit Cost/Hour: | <u>\$58.24</u> | |
| Total Fleet Cost/Hour: | <u>\$58.24</u> | |

MATERIAL QUANTITIES

Initial volume: 5 CCY Swell factor: 1.125
Loose volume: 6 LCY

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

HOURLY PRODUCTION

Excavator Cycle Time (load bucket, swing loaded, dump bucket, swing empty):

Basic Job Condition Description: SEVERE
Secondary Job Condition within Basic Description: AVERAGE
Cycle Time Value: 0.307 minutes

Load Bucket Capacity

Rated Capacity: 0.20 LCY (heaped) Bucket Size Class: Small
Bucket Fill Factor: 0.900 Other - soil, boulders, roots (80 -100%) 0.900
Adjusted Capacity: 0.18 LCY

Job Condition Correction Factors

Site Altitude: 10100 feet

| | | Source |
|-----------------|-------------|----------------------|
| Altitude Adj: | <u>0.83</u> | <u>(CAT HB)</u> |
| Job Efficiency: | <u>0.83</u> | <u>(1 shift/day)</u> |
| Net Correction: | <u>0.69</u> | <u>multiplier</u> |

Unadjusted Hourly Unit Production: 35.18 LCY/Hour
Adjusted Hourly Unit Production: 24.23 LCY/Hour
Adjusted Hourly Fleet Production: 24.23 LCY/Hour

JOB TIME AND COST

Fleet size: 1 Excavator Total job time: 4.64 Hours
Unit cost: \$2.403 /LCY Total job cost: \$270

REVEGETATION WORKTask description: Soil ScarificationSite: Apex LodePermit Action: TR-1Permit/Job#: M2014011**PROJECT IDENTIFICATION**Task #: C4State: ColoradoAbbreviation: NoneDate: 6/25/2020County: GarfieldFilename: M011-C4User: ACYAgency or organization name: DRMS**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 |
|--------------------------------------|-------------------|
| Hand raking (MEANS 32 91 13.23 0250) | \$1,459.26 |
| Total Tilling Cost/Acre | \$1,459.26 |

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

Application

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

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: 0.5
 Estimated Failure Rate: 30%
 *Selected Replanting Work Items: NONE

Cost /Acre: \$1,459.26
 Cost /Acre*: \$0.00

Initial Job Cost: **\$729.63**
 Reseeding Job Cost: **\$0.00**
 Total Job Cost: **\$730**
 Job Hours: **16.00**

REVEGETATION WORKTask description: Reveg of mine roadSite: Apex LodePermit Action: TR-1Permit/Job#: M2014011**PROJECT IDENTIFICATION**Task #: C5State: ColoradoAbbreviation: NoneDate: 7/8/2020County: GarfieldFilename: M011-C5User: ACYAgency or organization name: DRMS**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 |
|--------------------------------------|-------------------|
| Hand raking (MEANS 32 91 13.23 0250) | \$1,459.26 |
| Total Tilling Cost/Acre | \$1,459.26 |

SEEDING

| Seed Mix | Rate – PLS LBS / Acre | Seeds per SQ. FT | Cost /Acre |
|------------------------------------|--------------------------------|------------------------|-----------------|
| Fringed Brome grass - Native | 2.59 | 4.75 | \$43.96 |
| Blue Wildrye - Arlington or Elkton | 2.71 | 9.35 | \$18.08 |
| Mountain Brome - Bromar | 6.43 | 10.32 | \$24.42 |
| Slender Wheatgrass - San Luis | 6.62 | 24.15 | \$28.11 |
| Thickspike Wheatgrass - Critana | 6.70 | 23.67 | \$46.04 |
| Prairie Junegrass | 1.40 | 74.15 | \$36.27 |
| Totals Seed Mix | 26.43 | 146.39 | \$196.87 |

Application

| Description | Cost /Acre |
|---|-----------------|
| Broadcast seeding [DMG] | \$267.22 |
| Total Seed Application Cost/Acre | \$267.22 |

MULCHING and MISCELLANEOUS**Materials**

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

Application

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

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: | 0.5 | Cost /Acre: | \$1,923.35 |
| Estimated Failure Rate: | 30% | Cost /Acre*: | \$1,923.35 |
| *Selected Replanting Work Items: | TILLING,SEEDING | | |
| Initial Job Cost: | \$961.68 | | |
| Reseeding Job Cost: | \$288.50 | | |
| Total Job Cost: | \$1,250 | | |
| Job Hours: | 16.00 | | |

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Phase 1 Mobilization**Site: **Apex Lode**Permit Action: **TR-1**Permit/Job#: **M2014011****PROJECT IDENTIFICATION**Task #: **MOB1**State: **Colorado**Abbreviation: **None**Date: **6/25/2020**County: **Garfield**Filename: **M011-Mob1**User: **ACY**Agency or organization name: **DRMS****EQUIPMENT TRANSPORT RIG COST**Shift basis: **1 per day**Cost Data Source: **CRG Data**Truck Tractor Description: **GENERIC ON-HIGHWAY TRUCK TRACTOR, 6X4, DIESEL POWERED,
400 HP (2ND HALF, 2006)**Truck Trailer Description: **GENERIC FOLDING GOOSENECK, DROP DECK EQUIPMENT
TRAILER (25T, 50T, AND 100T)****Cost Breakdown:**

| Available Rig Capacities | 0-25 Tons | 26-50 Tons | 51+ Tons |
|---------------------------------|------------------|-------------------|-----------------|
| Ownership Cost/Hour: | \$17.20 | \$29.63 | \$38.69 |
| Operating Cost/Hour: | \$26.56 | \$47.02 | \$55.69 |
| Operator Cost/Hour: | \$23.63 | \$23.63 | \$23.63 |
| Helper Cost/Hour: | \$0.00 | \$23.53 | \$23.53 |
| Total Unit Cost/Hour: | \$67.39 | \$123.81 | \$141.54 |

NON ROADABLE EQUIPMENT:

| Machine Description | Weight/ Unit (TONS) | Owner ship Cost/hr/ unit | Haul Rig Cost/hr/unit | Fleet Size | Haul Trip Cost/hr/ fleet | Return Trip Cost/hr/ fleet | DOT Permit Cost/ fleet |
|---------------------|---------------------------|-----------------------------|--------------------------|---------------|--------------------------------|-------------------------------|---------------------------|
| Subtotals: | | | | | \$0.00 | \$0.00 | \$0.00 |

ROADABLE EQUIPMENT:

| Machine Description | Total Cost/hr/ unit | Fleet Size | Haul Trip Cost/hr/ fleet | Return Trip Cost/hr/ fleet |
|--------------------------------|------------------------|------------|-----------------------------|-------------------------------|
| Light Duty Pickup, 4x4, 3/4 T. | \$55.60 | 5 | \$278.00 | \$278.00 |
| Subtotals: | | | \$278.00 | \$278.00 |

EQUIPMENT HAUL DISTANCE and Time

| | | |
|--|-------------------------|-------|
| Nearest Major City or Town within project area region: | <u>GLENWOOD SPRINGS</u> | |
| Total one-way travel distance: | <u>27.00</u> | miles |
| Average Travel Speed: | <u>10.00</u> | mph |

| | |
|-------------------------------------|-------------------|
| Total Non-Roadable Mob/Demob Cost * | <u>\$0.00</u> |
| '* two round trips with haul rig: | |
| Total Roadable Mob/Demob Cost ** | <u>\$1,501.20</u> |
| ** one round trip, no haul rig: | |

Transportation Cycle Time:

| | Non-Roadable Equipment | Roadable Equipment |
|-------------------------|------------------------|--------------------|
| Haul Time (Hours): | <u>2.70</u> | <u>2.70</u> |
| Return Time (Hours): | <u>2.70</u> | <u>2.70</u> |
| Loading Time (Hours): | <u>0.50</u> | <u>NA</u> |
| Unloading Time (Hours): | <u>0.50</u> | <u>NA</u> |
| Subtotals: | <u>6.40</u> | <u>5.40</u> |

JOB TIME AND COST

Total job time: 5.40 Hours

Total job cost: \$1,501

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Phase 2 Mobilization**Site: **Apex Lode**Permit Action: **TR-1**Permit/Job#: **M2014011****PROJECT IDENTIFICATION**Task #: **MOB2**State: **Colorado**Abbreviation: **None**Date: **6/25/2020**County: **Garfield**Filename: **M011-Mob2**User: **ACY**Agency or organization name: **DRMS****EQUIPMENT TRANSPORT RIG COST**Shift basis: **1 per day**Cost Data Source: **CRG Data**Truck Tractor Description: **GENERIC ON-HIGHWAY TRUCK TRACTOR, 6X4, DIESEL POWERED,
400 HP (2ND HALF, 2006)**Truck Trailer Description: **GENERIC FOLDING GOOSENECK, DROP DECK EQUIPMENT
TRAILER (25T, 50T, AND 100T)****Cost Breakdown:**

| Available Rig Capacities | 0-25 Tons | 26-50 Tons | 51+ Tons |
|---------------------------------|------------------|-------------------|-----------------|
| Ownership Cost/Hour: | \$17.20 | \$29.63 | \$38.69 |
| Operating Cost/Hour: | \$26.56 | \$47.02 | \$55.69 |
| Operator Cost/Hour: | \$23.63 | \$23.63 | \$23.63 |
| Helper Cost/Hour: | \$0.00 | \$23.53 | \$23.53 |
| Total Unit Cost/Hour: | \$67.39 | \$123.81 | \$141.54 |

NON ROADABLE EQUIPMENT:

| Machine Description | Weight/ Unit (TONS) | Owner ship Cost/hr/ unit | Haul Rig Cost/hr/unit | Fleet Size | Haul Trip Cost/hr/ fleet | Return Trip Cost/hr/ fleet | DOT Permit Cost/ fleet |
|---------------------|---------------------------|-----------------------------|--------------------------|---------------|--------------------------------|-------------------------------|---------------------------|
| Subtotals: | | | | | \$0.00 | \$0.00 | \$0.00 |

ROADABLE EQUIPMENT:

| Machine Description | Total Cost/hr/ unit | Fleet Size | Haul Trip Cost/hr/ fleet | Return Trip Cost/hr/ fleet |
|--------------------------------|------------------------|------------|-----------------------------|-------------------------------|
| Light Duty Pickup, 4x4, 3/4 T. | \$40.91 | 3 | \$122.73 | \$122.73 |
| Subtotals: | | | \$122.73 | \$122.73 |

EQUIPMENT HAUL DISTANCE and Time

| | | |
|--|-------------------------|-------|
| Nearest Major City or Town within project area region: | <u>GLENWOOD SPRINGS</u> | |
| Total one-way travel distance: | <u>27.00</u> | miles |
| Average Travel Speed: | <u>10.00</u> | mph |

| | |
|-------------------------------------|-----------------|
| Total Non-Roadable Mob/Demob Cost * | <u>\$0.00</u> |
| ** two round trips with haul rig: | |
| Total Roadable Mob/Demob Cost ** | <u>\$662.74</u> |
| ** one round trip, no haul rig: | |

Transportation Cycle Time:

| | Non-Roadable Equipment | Roadable Equipment |
|-------------------------|------------------------|--------------------|
| Haul Time (Hours): | <u>2.70</u> | <u>2.70</u> |
| Return Time (Hours): | <u>2.70</u> | <u>2.70</u> |
| Loading Time (Hours): | <u>0.50</u> | <u>NA</u> |
| Unloading Time (Hours): | <u>0.50</u> | <u>NA</u> |
| Subtotals: | <u>6.40</u> | <u>5.40</u> |

JOB TIME AND COST

Total job time: 5.40 Hours

Total job cost: \$663

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Phase 3 Mobilization**Site: **Apex Lode**Permit Action: **TR-1**Permit/Job#: **M2014011****PROJECT IDENTIFICATION**Task #: **MOB3**State: **Colorado**Abbreviation: **None**Date: **7/8/2020**County: **Garfield**Filename: **M011-Mob3**User: **ACY**Agency or organization name: **DRMS****EQUIPMENT TRANSPORT RIG COST**Shift basis: **1 per day**Cost Data Source: **CRG Data**Truck Tractor Description: **GENERIC ON-HIGHWAY TRUCK TRACTOR, 6X4, DIESEL POWERED,
400 HP (2ND HALF, 2006)**Truck Trailer Description: **GENERIC FOLDING GOOSENECK, DROP DECK EQUIPMENT
TRAILER (25T, 50T, AND 100T)****Cost Breakdown:**

| Available Rig Capacities | 0-25 Tons | 26-50 Tons | 51+ Tons |
|---------------------------------|------------------|-------------------|-----------------|
| Ownership Cost/Hour: | \$17.20 | \$29.63 | \$38.69 |
| Operating Cost/Hour: | \$26.56 | \$47.02 | \$55.69 |
| Operator Cost/Hour: | \$23.63 | \$23.63 | \$23.63 |
| Helper Cost/Hour: | \$0.00 | \$23.53 | \$23.53 |
| Total Unit Cost/Hour: | \$67.39 | \$123.81 | \$141.54 |

NON ROADABLE EQUIPMENT:

| Machine Description | Weight/ Unit (TONS) | Owner ship Cost/hr/ unit | Haul Rig Cost/hr/unit | Fleet Size | Haul Trip Cost/hr/ fleet | Return Trip Cost/hr/ fleet | DOT Permit Cost/ fleet |
|-------------------------|---------------------------|-----------------------------|--------------------------|---------------|--------------------------------|-------------------------------|---------------------------|
| Cat 307D 7'-3" Stick | 7.95 | \$19.99 | \$67.39 | 1 | \$87.38 | \$67.39 | \$250.00 |

Subtotals: **\$87.38** **\$67.39** **\$250.00****ROADABLE EQUIPMENT:**

| Machine Description | Total Cost/hr/ unit | Fleet Size | Haul Trip Cost/hr/ fleet | Return Trip Cost/hr/ fleet |
|--------------------------------|------------------------|------------|-----------------------------|-------------------------------|
| Light Duty Pickup, 4x4, 3/4 T. | \$55.60 | 2 | \$111.20 | \$111.20 |

Subtotals: **\$111.20** **\$111.20**

EQUIPMENT HAUL DISTANCE and Time

| | | |
|--|-------------------------|-------|
| Nearest Major City or Town within project area region: | <u>GLENWOOD SPRINGS</u> | |
| Total one-way travel distance: | <u>27.00</u> | miles |
| Average Travel Speed: | <u>10.00</u> | mph |

| | |
|-------------------------------------|-------------------|
| Total Non-Roadable Mob/Demob Cost * | <u>\$1,510.52</u> |
| '* two round trips with haul rig: | |
| Total Roadable Mob/Demob Cost ** | <u>\$600.48</u> |
| ** one round trip, no haul rig: | |

Transportation Cycle Time:

| | Non-Roadable Equipment | Roadable Equipment |
|-------------------------|------------------------|--------------------|
| Haul Time (Hours): | <u>2.70</u> | <u>2.70</u> |
| Return Time (Hours): | <u>2.70</u> | <u>2.70</u> |
| Loading Time (Hours): | <u>0.50</u> | <u>NA</u> |
| Unloading Time (Hours): | <u>0.50</u> | <u>NA</u> |
| Subtotals: | <u>6.40</u> | <u>5.40</u> |

JOB TIME AND COST

| | | |
|-----------------|--------------|-------|
| Total job time: | <u>12.80</u> | Hours |
|-----------------|--------------|-------|

| | |
|-----------------|----------------|
| Total job cost: | <u>\$2,111</u> |
|-----------------|----------------|