

January 25, 2024

Jim Doody
Elam Construction, Inc.
556 Struthers Ave
Grand Junction, CO 81501



COLORADO
Division of Reclamation,
Mining and Safety
Department of Natural Resources

1313 Sherman Street, Room 215
Denver, CO 80203

RE: AGRI-DLD Gravel Pit, Permit # M-2000-030, Reclamation Costs Update

Dear Operator:

In an effort to ensure the Financial Warranty for the above referenced site adequately reflects the actual current costs of fulfilling the requirements of the approved reclamation plan, the Colorado Division of Reclamation, Mining and Safety (Division) has updated the reclamation cost estimate (copy enclosed) for this site. Division calculations estimate the cost to reclaim the site to be \$230,203.00. This is an increase of \$88,140.81 over the \$142,062.19 currently held by the Division.

Within 15 days, please review the attached estimate and notify me if any calculation errors are noted.

If you require additional information, or have questions or concerns, please contact me.

Sincerely,

A handwritten signature in blue ink, appearing to read "Dustin Czapla".

Dustin Czapla
Environmental Protection Specialist
Division of Reclamation, Mining and Safety
Phone: (303) 866-3567, ext. 8188



COST SUMMARY WORK

Task description: 2024-01-23 Update

Site: AGRI-DLD Gravel Pit

Permit Action: 2024-01-23 Update

Permit/Job#: M2000030

PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 1/23/2024

County: La Plata

Filename: M2000030000

User: DMC

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Reduce Highwalls to 2:1	DOZER	1	43.80	\$20,572
02a	Push Overburden Downslope, Create 3:1	DOZER	1	35.36	\$16,287
03a	Grade Pit Floor	DOZER	1	43.03	\$19,824
04a	Rip Compaction on Pit Floor	RIPPER	1	54.68	\$25,684
05a	Spread Topsoil on Slopes	DOZER	1	2.75	\$1,266
06a	Load and Carry Topsoil from Stockpile to Pit Floor	TRUCK1	1	58.88	\$14,870
07a	Spread Topsoil on Pit Floor	DOZER	1	34.38	\$15,838
08a	Revegetate	REVEGE	1	40.00	\$66,252
09a	Mobilize/Demobilize	MOBILIZE	1	5.20	\$3,730
<u>SUBTOTALS:</u>				318.08	\$184,323

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02

Total = \$3,723

Performance bond: 1.05

Total = \$1,935

Job superintendent: 159.04

Total = \$10,350

Profit: 10.00

Total = \$18,432

TOTAL O & P = \$34,441

CONTRACT AMOUNT (direct + O & P) = \$218,764

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): \$500

Total = \$500

Engineering work and/or contract/bid preparation: 0.00

Total = \$0

Reclamation management and/or administration: 5.00

\$10,938

CONTINGENCY: 0.00

Total = \$0

TOTAL INDIRECT COST = \$45,880

TOTAL BOND AMOUNT (direct + indirect) = \$230,203

BULLDOZER WORKTask description: **Reduce Highwalls to 2:1**Site: **AGRI-DLD Gravel Pit** Permit Action: **2024-01-23 Update** Permit/Job#: **M2000030****PROJECT IDENTIFICATION**

Task #:	01A	State:	Colorado	Abbreviation:	None
Date:	1/23/2024	County:	La Plata	Filename:	M030-01a
User:	DMC				

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

Basic Machine:	Cat D9T - 9SU
Horsepower:	405
Blade Type:	Semi-Universal
Attachment:	3-shank ripper
Shift Basis:	1 per day
Data Source:	(CRG)

Cost Breakdown:

		<u>Utilization %</u>
Ownership Cost/Hour:	\$238.76	NA
Operating Cost/Hour:	\$162.29	100
Ripper own. Cost/Hour:	\$18.32	NA
Ripper op. Cost/Hour:	\$8.98	100
Operator Cost/Hour:	\$41.30	NA

Total unit Cost/Hour:	\$469.65
Total Fleet Cost/Hour:	\$469.65

MATERIAL QUANTITIES

Initial Volume:	28,800
Swell factor:	1.430
Loose volume:	41,184 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:	2,110.5 LCY/hr

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

Average push gradient:	-20 %
Average site altitude:	6,600 feet

Material weight: **3,300 lbs/LCY**Weight description: **Decomposed rock - 75% Rock, 25% Earth**

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

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(SSD-AC)
Push gradient:	1.426	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.697	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4455

Adjusted unit production: 940.23 LCY/hr

Adjusted fleet production: **940.23** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.500/LCY

Total job time: **43.80** Hours

Total job cost: **\$20,572**

BULLDOZER WORKTask description: **Push Overburden Downslope, Create 3:1**Site: **AGRI-DLD Gravel Pit** Permit Action: **2024-01-23 Update** Permit/Job#: **M2000030****PROJECT IDENTIFICATION**

Task #: **02A** State: **Colorado** Abbreviation: **None**
 Date: **1/23/2024** County: **La Plata** Filename: **M030-02a**
 User: **DMC**

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

Basic Machine: **Cat D9T - 9SU**
 Horsepower: **405**
 Blade Type: **Semi-Universal**
 Attachment: **3-shank ripper**
 Shift Basis: **1 per day**
 Data Source: **(CRG)**

Cost Breakdown:

		<u>Utilization %</u>
Ownership Cost/Hour:	\$238.76	NA
Operating Cost/Hour:	\$162.29	100
Ripper own. Cost/Hour:	\$18.32	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$41.30	NA

Total unit Cost/Hour: **\$460.67**
 Total Fleet Cost/Hour: **\$460.67**

MATERIAL QUANTITIES

Initial Volume: **30,400**
 Swell factor: **1.215**
 Loose volume: **36,936 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: **2,110.5 LCY/hr**

Materials consistency description: **Consolidated stockpile 1.0**

Average push gradient: **-20 %**
 Average site altitude: **6,600 feet**

Material weight: **3,300 lbs/LCY**Weight description: **Decomposed rock - 75% Rock, 25% Earth**

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

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(SSD-AC)
Push gradient:	1.426	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.697	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4950

Adjusted unit production: 1,044.70 LCY/hr

Adjusted fleet production: **1044.7** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.441/LCY

Total job time: **35.36** Hours

Total job cost: **\$16,287**

BULLDOZER WORKTask description: **Grade Pit Floor**Site: **AGRI-DLD Gravel Pit** Permit Action: **2024-01-23 Update** Permit/Job#: **M2000030****PROJECT IDENTIFICATION**

Task #:	03A	State:	Colorado	Abbreviation:	None
Date:	1/23/2024	County:	La Plata	Filename:	M030-03a
User:	DMC				

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

Basic Machine:	Cat D9T - 9SU
Horsepower:	405
Blade Type:	Semi-Universal
Attachment:	3-shank ripper
Shift Basis:	1 per day
Data Source:	(CRG)

Cost Breakdown:

		<u>Utilization %</u>
Ownership Cost/Hour:	\$238.76	NA
Operating Cost/Hour:	\$162.29	100
Ripper own. Cost/Hour:	\$18.32	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$41.30	NA

Total unit Cost/Hour:	\$460.67
Total Fleet Cost/Hour:	\$460.67

MATERIAL QUANTITIES

Initial Volume:	17,600
Swell factor:	1.000
Loose volume:	17,600 LCY

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

HOURLY PRODUCTION

Average push distance:	150 feet
Unadjusted hourly production:	910.5 LCY/hr

Materials consistency description: **Consolidated stockpile 1.0**

Average push gradient:	0 %
Average site altitude:	6,600 feet

Material weight: **2,550 lbs/LCY**Weight description: **Earth - Dry packed**

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

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(SSD-AC)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4492

Adjusted unit production: 409.00 LCY/hr

Adjusted fleet production: **409** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$1.126/LCY

Total job time: **43.03** Hours

Total job cost: **\$19,824**

BULLDOZER RIPPING WORK

Task description: Rip Compaction on Pit Floor

Site: AGRI-DLD Gravel Pit Permit Action: 2024-01-23 Update Permit/Job#: M2000030

PROJECT IDENTIFICATION

Task #: 04A State: Colorado Abbreviation: None
Date: 1/23/2024 County: La Plata Filename: M030-04a
User: DMC

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Basic Machine: Cat D9T - 9SU Horsepower: 405
Ripper Attachment: 3-Shank Ripper Shift Basis: 1 per day
Data Source: (CRG)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	<u>\$238.76</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$162.29</u>	<u>100</u>
Ripper Ownership Cost/Hour:	<u>\$18.32</u>	<u>NA</u>
Ripper Operating Cost/Hour:	<u>\$8.98</u>	<u>100</u>
Operator Cost/Hour:	<u>\$41.30</u>	<u>NA</u>
Total Unit Cost/Hour:	<u>\$469.65</u>	
Total Fleet Cost/Hour:	<u>\$469.65</u>	

MATERIAL QUANTITIES

Selected estimating method: Area

Alternate Methods:

Seismic: NA Bank Volume: NA BCY NA
Area: 40.00 acres Rip Depth (ft): 1.50 Volume: 96,800 BCY or CCY

Source of estimated quantity: Reclamation Plan

HOURLY PRODUCTION

Seismic:

Seismic Velocity: NA feet/second

Area:

Average Ripping Depth: 2.63 feet/pass
Average Ripping Width: 7.67 feet/pass
Average Ripping Length: 400.00 feet/pass
Average Dozer Speed: 88.00 feet/minute
Average Maneuver Time: 0.25 minutes/pass
Production per unit area: 0.881 acres/hour

Job Condition Correction Factors

Unadjusted Hourly Unit Production: 0.881 Acres/hr
Site Altitude: 6,600 feet
Altitude Adj: 1.00 (CAT HB)
Job Efficiency: 0.83 (1 shift/day)
Net Correction: 0.83 multiplier
Adjusted Hourly Unit Production: 0.73 Acres/hr
Adjusted Hourly Fleet Production: 0.73 Acres/hr

JOB TIME AND COST

Fleet size: 1 Grader(s) Total job time: 54.69 Hours

Unit cost: \$642.107 Per acre Total job cost: \$25,684

BULLDOZER WORKTask description: **Spread Topsoil on Slopes**Site: **AGRI-DLD Gravel Pit** Permit Action: 2024-01-23 Update Permit/Job#: M2000030**PROJECT IDENTIFICATION**

Task #:	<u>05A</u>	State:	<u>Colorado</u>	Abbreviation:	<u>None</u>
Date:	<u>1/23/2024</u>	County:	<u>La Plata</u>	Filename:	<u>M030-05a</u>
User:	<u>DMC</u>				

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

Basic Machine:	<u>Cat D9T - 9SU</u>
Horsepower:	<u>405</u>
Blade Type:	<u>Semi-Universal</u>
Attachment:	<u>3-shank ripper</u>
Shift Basis:	<u>1 per day</u>
Data Source:	<u>(CRG)</u>

Cost Breakdown:

		<u>Utilization %</u>
Ownership Cost/Hour:	<u>\$238.76</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$162.29</u>	<u>100</u>
Ripper own. Cost/Hour:	<u>\$18.32</u>	<u>NA</u>
Ripper op. Cost/Hour:	<u>\$0.00</u>	<u>0</u>
Operator Cost/Hour:	<u>\$41.30</u>	<u>NA</u>

Total unit Cost/Hour:	<u>\$460.67</u>
Total Fleet Cost/Hour:	<u>\$460.67</u>

MATERIAL QUANTITIES

Initial Volume:	<u>1,440</u>
Swell factor:	<u>1.250</u>
Loose volume:	<u>1,800 LCY</u>

Source of estimated volume:	<u>Division of Reclamation, Mining & Safety</u>
Source of estimated swell factor:	<u>Cat Handbook</u>

HOURLY PRODUCTION

Average push distance:	<u>150 feet</u>
Unadjusted hourly production:	<u>910.5 LCY/hr</u>

Materials consistency description: Consolidated stockpile 1.0

Average push gradient:	<u>-30 %</u>
Average site altitude:	<u>6,600 feet</u>

Material weight: 2,550 lbs/LCYWeight description: Earth - Dry packed

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

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(SSD-AC)
Push gradient:	1.601	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.7192

Adjusted unit production: 654.83 LCY/hr

Adjusted fleet production: **654.83** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.703/LCY

Total job time: **2.75** Hours

Total job cost: **\$1,266**

TRUCK/LOADER TEAM WORKTask description: Load and Carry Topsoil from Stockpile to Pit FloorSite: AGRI-DLD Gravel PitPermit Action: 2024-01-23 UpdatePermit/Job#: M2000030PROJECT IDENTIFICATIONTask #: 06AState: ColoradoAbbreviation: NoneDate: 1/23/2024County: La PlataFilename: M030-06aUser: DMCAgency or organization name: DRMSHOURLY EQUIPMENT COSTShift basis: 1 per day

Equipment Description	
Truck Loader Team -Truck:	Generic 8-10 cy, 6x4
-Loader:	CAT 938H
Support Equipment -Load Area:	NA
-Dump Area:	NA
Road Maintenance -Motor Grader:	NA
-Water Truck:	NA

Cost Breakdown:

Truck/Loader Team

Support Equipment

Maintenance Equipment

	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	100	NA	NA	NA	NA
Ownership cost/hour:	\$16.85	\$43.90	NA	NA	NA	NA
Operating cost/hour:	\$49.69	\$34.86	NA	NA	NA	NA
%Utilization-riper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	NA	NA	NA	NA
Ripper op. cost/hour:	NA	\$0.00	NA	NA	NA	NA
Operator cost/hour:	\$0.00	\$40.71	NA	NA	NA	NA
Unit Subtotals:	\$66.54	\$119.47	NA	NA	NA	NA
Number of Units:	2	1	0	0	0	0
Group Subtotals:	Work:	\$252.55	Support:	\$0.00	Maint:	\$0.00

Total work team cost/hour: \$252.55MATERIAL QUANTITIESInitial volume: 17,600

CCY

Swell factor: 1.125Loose volume: 19,800

LCY

Source of estimated volume: Division of Reclamation, Mining & SafetySource of estimated swell factor: Cat HandbookMaterial Purchase Cost: \$0.00Total Cost: \$0.00HOURLY PRODUCTIONTruck Capacity:

Truck Payload (weight) Basis:

Material weight: 2,550

Pounds/LCY

Description: Earth - Dry packedRated Payload: 27,280

Pounds

Payload Capacity: 10.70

LCY

Truck Bed (volume) Basis:

Struck Volume:	8.00	LCY
Heaped Volume:	10.00	LCY
Average Volume:	9.00	LCY
Adjusted Volume:	10.00	LCY

Final Truck Volume Based on Number of Loader Passes: 7.61 LCY

Loading Tool Capacity

Bucket Size Class: NA

Rated Capacity:	3.900	LCY (heaped)
Bucket Fill Factor:	0.975	Loose material - mixed moist aggregates (95-100%) 0.975
Adjusted Capacity:	3.803	LCY

Job Condition Corrections:

Site Altitude (ft.): 6600 feet

	Truck	Loader	Source
Altitude Adj:	1.000	1.000	(CAT HB)
Job Efficiency:	0.830	0.830	(CAT HB)
Net Correction:	0.830	0.830	

Loading Tool Cycle Time:

Number of Loading Tool Passes Required to Fill Truck: 2 passes

Excavators and Front Shovels:

Machine Cycle Time vs. Job Condition Rating: NA
 Selected Value within this Basic Rating: NA

Track Loaders – Material Description: _____

Cycle Time Elements (min.):

Load: NA Maneuver: NA Dump: 0.100

Wheel and Track Loaders - Unadjusted Basic Loader Cycle Time (load, dump, maneuver): 0.483 minutes

Cycle Time Factors		Factor (min.)	Source
Material:	Mixed material 0.02	0.020	(Cat HB)
Stockpile:	Conveyor or dozer piled 10 ft. high and up 0.00	0.000	(Cat HB)
Truck Ownership:	Common ownership of trucks and loaders -0.04	-0.040	(Cat HB)
Operation:	Constant operation -0.04	-0.040	(Cat HB)
Dump Target:	Nominal target 0.00	0.000	(Cat HB)
Net Cycle Time Adjustment:		-0.060	minutes
Adjusted Loader Cycle Time:		0.423	minutes
Net Load Time per Truck:		0.523	minutes

Truck Cycle Time:

Truck Exchange Time:	0.50	Minutes	Adjusted for site altitude:	0.500	Minutes
Truck Load Time:	0.523	Minutes	Adjusted for site altitude:	0.523	Minutes
Truck Maneuver and Dump Time:	0.80	Minutes	Adjusted for site altitude:	0.800	Minutes

Truck Travel (Haul & Return) Time:
penetration 5.0

Road Condition: Rutted dirt, little maintenance, no water, 2" tire

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	300.00	0.00	5.00	5.00	2218	0.205
2	300.00	10.00	5.00	15.00	734	-0.390
3	300.00	0.00	5.00	5.00	2218	0.186

Haul Time: **0.001** minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	300.00	0.00	5.00	5.00	2814	0.135
2	300.00	-10.00	5.00	-5.00	2938	0.147
3	300.00	0.00	5.00	5.00	2814	0.107

Return Time: **0.389** minutesTotal Truck Cycle Time: **2.213** minutes

Loading Tool unit

Production 446.26 LCY/Hour Adjusted for job efficiency: 370.40 LCY/Hour

Truck Unit Production 206.24 LCY/Hour Adjusted for job efficiency: 171.18 LCY/Hour

Optimal No. of Trucks: 2 Truck(s) Selected Number of Trucks: 2 Truck(s)

Adjusted hourly truck team production: 342.35 LCY/Hour

Adjusted single truck/loader team production: 342.35 LCY/Hour

Adjusted multiple truck/loader team production: **342.35** LCY/Hour

JOB TIME AND COST

Fleet size: 1 Team(s) Total job time: **57.83** Hours

Unit cost: \$0.738 /LCY Total job cost: **\$14,606**

BULLDOZER WORKTask description: **Spread Topsoil on Pit Floor**Site: **AGRI-DLD Gravel Pit** Permit Action: 2024-01-23 Update Permit/Job#: M2000030**PROJECT IDENTIFICATION**

Task #:	<u>07A</u>	State:	<u>Colorado</u>	Abbreviation:	<u>None</u>
Date:	<u>1/23/2024</u>	County:	<u>La Plata</u>	Filename:	<u>M030-07a</u>
User:	<u>DMC</u>				

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

Basic Machine:	<u>Cat D9T - 9SU</u>
Horsepower:	<u>405</u>
Blade Type:	<u>Semi-Universal</u>
Attachment:	<u>3-shank ripper</u>
Shift Basis:	<u>1 per day</u>
Data Source:	<u>(CRG)</u>

Cost Breakdown:

		<u>Utilization %</u>
Ownership Cost/Hour:	<u>\$238.76</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$162.29</u>	<u>100</u>
Ripper own. Cost/Hour:	<u>\$18.32</u>	<u>NA</u>
Ripper op. Cost/Hour:	<u>\$0.00</u>	<u>0</u>
Operator Cost/Hour:	<u>\$41.30</u>	<u>NA</u>

Total unit Cost/Hour:	<u>\$460.67</u>
Total Fleet Cost/Hour:	<u>\$460.67</u>

MATERIAL QUANTITIES

Initial Volume:	<u>19,200</u>
Swell factor:	<u>1.000</u>
Loose volume:	<u>19,200 LCY</u>

Source of estimated volume:	<u>Division of Reclamation, Mining & Safety</u>
Source of estimated swell factor:	<u>Cat Handbook</u>

HOURLY PRODUCTION

Average push distance:	<u>100 feet</u>
Unadjusted hourly production:	<u>1,243.2 LCY/hr</u>

Materials consistency description: Consolidated stockpile 1.0

Average push gradient:	<u>0 %</u>
Average site altitude:	<u>6,600 feet</u>

Material weight: 2,550 lbs/LCYWeight description: Earth - Dry packed

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

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(SSD-AC)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4492

Adjusted unit production: 558.45 LCY/hr

Adjusted fleet production: **558.45** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.825/LCY

Total job time: **34.38** Hours

Total job cost: **\$15,838**

REVEGETATION WORKTask description: RevegetateSite: AGRI-DLD Gravel PitPermit Action: 2024-01-23 UpdatePermit/Job#: M2000030**PROJECT IDENTIFICATION**Task #: 08AState: ColoradoAbbreviation: NoneDate: 1/23/2024County: La PlataFilename: M030-08aUser: DMCAgency or organization name: DRMS**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
Truck whirlwind spreader (MEANS 32 01 90.13 0140)	\$17.42
Total Fertilizer Application Cost/Acre	\$17.42

TILLING

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$112.82
Total Tilling Cost/Acre	\$112.82

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Native	2.50	8.09	\$16.25
Crested Wheatgrass - Fairway	1.20	5.51	\$4.83
Smooth Brome - Manchar	2.50	8.32	\$8.31
Intermediate Wheatgrass - Tegmar	3.00	6.40	\$9.00
Western Wheatgrass - Arriba	3.20	8.08	\$20.80
Totals Seed Mix	12.40	36.41	\$59.19

Application

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

MULCHING and MISCELLANEOUS**Materials**

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

Application

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$74.46
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

JOB TIME AND COST

No. of Acres:	40	Cost /Acre:	\$1,380.26
Estimated Failure Rate:	20%	Cost /Acre*:	\$1,380.26
*Selected Replanting Work Items:	FERTILIZING, TILLING, SEEDING, MULCHING		
Initial Job Cost:	\$55,210.40		
Reseeding Job Cost:	\$11,042.08		
Total Job Cost:	\$66,252		
Job Hours:	40.00		

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Mobilize/Demobilize**Site: **AGRI-DLD Gravel Pit**Permit Action: **2024-01-23 Update**Permit/Job#: **M2000030****PROJECT IDENTIFICATION**Task #: **09A**State: **Colorado**Abbreviation: **None**Date: **1/23/2024**County: **La Plata**Filename: **M030-09a**User: **DMC**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:	\$20.26	\$36.04	\$47.05
Operating Cost/Hour:	\$39.51	\$76.08	\$82.85
Operator Cost/Hour:	\$22.52	\$22.52	\$22.52
Helper Cost/Hour:	\$0.00	\$23.53	\$23.53
Total Unit Cost/Hour:	\$82.29	\$158.17	\$175.95

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 D9T - 9SU	60.01	\$238.76	\$175.95	1	\$414.71	\$175.95	\$250.00
CAT 938H	16.34	\$43.90	\$82.29	1	\$126.19	\$82.29	\$0.00
Drill/Broadcast Seeder with Tractor	25.00	\$6.73	\$82.29	1	\$89.02	\$82.29	\$0.00

Subtotals: **\$629.92** **\$340.53** **\$250.00****ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Generic 8-10 cy, 6x4	\$98.45	2	\$196.90	\$196.90
Light Duty Pickup, 4x4, 3/4 T.	\$15.83	1	\$15.83	\$15.83

Subtotals: **\$212.73** **\$212.73**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	<u>DURANGO</u>	
Total one-way travel distance:	<u>15.00</u>	miles
Average Travel Speed:	<u>50.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$3,601.95</u>
** two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	<u>\$127.64</u>
** one round trip, no haul rig:	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>0.30</u>	<u>0.30</u>
Return Time (Hours):	<u>0.30</u>	<u>0.30</u>
Loading Time (Hours):	<u>1.00</u>	<u>NA</u>
Unloading Time (Hours):	<u>1.00</u>	<u>NA</u>
Subtotals:	<u>2.60</u>	<u>0.60</u>

JOB TIME AND COST

Total job time:	<u>5.20</u>	Hours
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Total job cost:	<u>\$3,730</u>
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