

COST SUMMARY WORK

Task description: 2024 Cost Estimate

Site: CLG Farms, LLC

Permit Action: 2024 Bond Update

Permit/Job#: M2008060

PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 1/3/2025

County: Washington

Filename: M060-000

User: BEH

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Replacing Overburden	SCRAPER1	1	14.61	\$24,084
002	Replacing topsoil	SCRAPER1	1	10.19	\$14,792
003	Ripping Access Road	RIPPER	1	1.21	\$250
004	Revegetation	REVEGE	1	12.00	\$6,253
005	Equipment Mob/Demob	MOBILIZE	1	5.20	\$6,625
<u>SUBTOTALS:</u>				43.21	\$52,004

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02

Total = \$1,050

Performance bond: 1.05

Total = \$546

Job superintendent: 0.00

Total = \$0

Profit: 10.00

Total = \$5,200

TOTAL O & P = \$6,797

CONTRACT AMOUNT (direct + O & P) = \$58,801

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): \$0

Total = \$0

Engineering work and/or contract/bid preparation: 0.00

Total = \$0

Reclamation management and/or administration: 5.00

\$2,940

CONTINGENCY: 0.00

Total = \$0

TOTAL INDIRECT COST = \$9,737

TOTAL BOND AMOUNT (direct + indirect) = \$61,741

SCRAPER TEAM WORKTask description: **Replacing Overburden**Site: **CLG Farms, LLC**Permit Action: 2024 Bond UpdatePermit/Job#: M2008060**PROJECT IDENTIFICATION**Task #: 001State: ColoradoAbbreviation: NoneDate: 1/3/2025County: WashingtonFilename: M060-001User: BEHAgency or organization name: DRMS**HOURLY EQUIPMENT**COSTShift basis: 1 per day

Equipment Description	
-Scraper:	Cat 631G
-Dozer:	NA
Support Equipment -Load Area:	NA
-Dump Area:	Cat D6T XL
Road Maintenance -Motor Grader:	NA
-Water Truck:	NA

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

	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	NA	NA	100	NA	NA
Ownership cost/hour:	\$442.19	NA	NA	\$90.43	NA	NA
Operating cost/hour:	\$252.89	NA	NA	\$67.29	NA	NA
%Utilization-ripper:	NA	NA	NA	NA	NA	NA
Ripper own. cost/hour:	NA	NA	NA	\$0.00	NA	NA
Ripper op. cost/hour:	NA	NA	NA	\$0.00	NA	NA
Operator cost/hour:	\$30.90	NA	NA	\$38.59	NA	NA
Unit Subtotals:	\$725.98	NA	NA	\$196.31	NA	NA
Number of Units:	2	0	0	1	0	0
Group Subtotals:	Work: \$1,451.96		Support: \$196.31		Maint:	\$0.00

Total work team cost/hour: **\$1,648.27****MATERIAL QUANTITIES**Initial volume: 19,360

CCY

Swell factor: 1.000Loose volume: **19,360**

LCY

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

Material weight:	<u>2,650 lbs/LCY</u>	Struck Volume:	<u>24.00</u>	LCY
Material description:	<u>Decomposed rock - 25% Rock, 75% Earth</u>	Heaped Volume:	<u>34.00</u>	LCY
Rated Payload:	<u>81,600 pounds</u>	Average Volume:	<u>29.00</u>	LCY
Payload Capacity:	<u>30.79 LCY</u>	Adjusted Capacity:	<u>29.00</u>	LCY

Cycle Time:Scraper Loading Time: 0.80 MinutesManeuver and Spread Time: 0.70 MinutesJob Condition Correction:

Site Altitude: 4540 feet

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

Travel Time:Road Condition: Rutted dirt, little maintenance, no water, 1" tire penetration 4.0Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	275.00	0.00	4.00	4.00	1667	0.33

Haul Time: 0.33 minutesReturn Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	275.00	0.00	4.00	4.00	2744	0.35

Return Time: 0.35 minutesTotal Scraper team cycle time: 2.18 minutesAdjusted for job conditions: 662.48 LCY/HourSelected Number of Scrapers: 2 Scraper(s)Adjusted single scraper team (unit) hourly production: 1,324.95 LCY/HourAdjusted multiple scraper team (fleet) hourly production: 1,324.95 LCY/HourUnadjusted unit production/hour: 798.17 LCY/Hour

Optimal Number of Scrapers per push dozer: _____

JOB TIME AND COSTFleet size: 1 Team(s)Total job time: 14.61 HoursUnit cost: \$1.244 /LCYTotal job cost: \$24,084

SCRAPER TEAM WORKTask description: **Replacing topsoil**Site: **CLG Farms, LLC**Permit Action: 2024 Bond UpdatePermit/Job#: M2008060**PROJECT IDENTIFICATION**Task #: 002State: ColoradoAbbreviation: NoneDate: 1/3/2025County: WashingtonFilename: M060-002User: BEHAgency or organization name: DRMS**HOURLY EQUIPMENT**COSTShift basis: 1 per day

Equipment Description	
-Scraper:	Cat 631G
-Dozer:	NA
Support Equipment -Load Area:	NA
-Dump Area:	NA
Road Maintenance -Motor Grader:	NA
-Water Truck:	NA

Cost Breakdown:

Scraper Work Team

Support Equipment

Maintenance Equipment

	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	NA	NA	NA	NA	NA
Ownership cost/hour:	\$442.19	NA	NA	NA	NA	NA
Operating cost/hour:	\$252.89	NA	NA	NA	NA	NA
%Utilization-ripper:	NA	NA	NA	NA	NA	NA
Ripper own. cost/hour:	NA	NA	NA	NA	NA	NA
Ripper op. cost/hour:	NA	NA	NA	NA	NA	NA
Operator cost/hour:	\$30.90	NA	NA	NA	NA	NA
Unit Subtotals:	\$725.98	NA	NA	NA	NA	NA
Number of Units:	2	0	0	0	0	0
Group Subtotals:	Work: \$1,451.96		Support:	\$0.00	Maint:	\$0.00

Total work team cost/hour: **\$1,451.96****MATERIAL QUANTITIES**Initial volume: 12,906

CCY

Swell factor: 1.000Loose volume: **12,906**

LCY

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

Material weight:	<u>1,600 lbs/LCY</u>	Struck Volume:	<u>24.00</u>	LCY
Material description:	<u>Top Soil</u>	Heaped Volume:	<u>34.00</u>	LCY
Rated Payload:	<u>81,600 pounds</u>	Average Volume:	<u>29.00</u>	LCY
Payload Capacity:	<u>51.00 LCY</u>	Adjusted Capacity:	<u>29.00</u>	LCY

Cycle Time:Scraper Loading Time: 0.80 MinutesManeuver and Spread Time: 0.70 MinutesJob Condition Correction:

Site Altitude: 4540 feet

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

Travel Time:Road Condition: Rutted dirt, little maintenance, no water, 1" tire penetration 4.0Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	275.00	10.00	4.00	14.00	431	0.64

Haul Time: 0.64 minutesReturn Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	275.00	-10.00	4.00	-6.00	2920	0.14

Return Time: 0.14 minutesTotal Scraper team cycle time: 2.28 minutesAdjusted for job conditions: 633.42 LCY/HourSelected Number of Scrapers: 2 Scraper(s)Adjusted single scraper team (unit) hourly production: 1,266.84 LCY/HourAdjusted multiple scraper team (fleet) hourly production: 1,266.84 LCY/HourUnadjusted unit production/hour: 763.16 LCY/Hour

Optimal Number of Scrapers per push dozer: _____

JOB TIME AND COSTFleet size: 1 Team(s)Total job time: 10.19 HoursUnit cost: \$1.146 /LCYTotal job cost: \$14,792

BULLDOZER RIPPING WORK

Task description: Ripping Access Road

Site: CLG Farms, LLC Permit Action: 2024 Bond Update Permit/Job#: M2008060

PROJECT IDENTIFICATION

Task #: 003 State: Colorado Abbreviation: None
Date: 1/3/2025 County: Washington Filename: M060-003
User: BEH

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Basic Machine: Cat D6T XL Horsepower: 185
Ripper Attachment: 3-Shank Ripper Shift Basis: 1 per day
Data Source: (CRG)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	<u>\$90.43</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$67.29</u>	<u>100</u>
Ripper Ownership Cost/Hour:	<u>\$5.76</u>	<u>NA</u>
Ripper Operating Cost/Hour:	<u>\$3.57</u>	<u>100</u>
Operator Cost/Hour:	<u>\$38.59</u>	<u>NA</u>
Total Unit Cost/Hour:	<u>\$205.64</u>	
Total Fleet Cost/Hour:	<u>\$205.64</u>	

MATERIAL QUANTITIES

Selected estimating method: Area

Alternate Methods:

Seismic: NA Bank Volume: NA BCY NA
Area: 0.66 acres Rip Depth (ft): 1.00 Volume: 1,065 BCY or CCY

Source of estimated quantity: DRMS Estimate

HOURLY PRODUCTION

Seismic:

Seismic Velocity: NA feet/second

Area:

Average Ripping Depth: 1.64 feet/pass
Average Ripping Width: 6.58 feet/pass
Average Ripping Length: 100.00 feet/pass
Average Dozer Speed: 88.00 feet/minute
Average Maneuver Time: 0.25 minutes/pass
Production per unit area: 0.654 acres/hour

Job Condition Correction Factors

Unadjusted Hourly Unit Production: 0.654 Acres/hr
Site Altitude: 4,540 feet
Altitude Adj: 1.00 (CAT HB)
Job Efficiency: 0.83 (1 shift/day)
Net Correction: 0.83 multiplier

Adjusted Hourly Unit Production: 0.54 Acres/hr
Adjusted Hourly Fleet Production: 0.54 Acres/hr

JOB TIME AND COST

Fleet size: 1 Grader(s) Total job time: 1.22 Hours

Unit cost: \$378.981 Per acre Total job cost: \$250

REVEGETATION WORKTask description: **Revegetation**Site: **CLG Farms, LLC**Permit Action: **2024 Bond Update**Permit/Job#: **M2008060****PROJECT IDENTIFICATION**Task #: **004**State: **Colorado**Abbreviation: **None**Date: **1/3/2025**County: **Washington**Filename: **M060-004**User: **BEH**Agency 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
Chisel plowing {DMG}	\$102.41
Total Tilling Cost/Acre	\$102.41

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Big Bluestem - Native	2.75	8.21	\$42.92
Buffalograss - Texoka	4.00	3.86	\$115.59
Blue Grama - Native	0.75	12.24	\$15.99
Little Bluestem - Native	1.75	10.45	\$26.94
Western Wheatgrass - Native	4.00	10.10	\$36.02
Needlegrass, Green - Lodorm	2.50	10.39	\$21.61
Totals Seed Mix	15.75	55.24	\$259.07

Application

Description	Cost /Acre
Drill Seeding (DRMS Survey Cost)	\$236.64
Total Seed Application Cost/Acre	\$236.64

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:	8.66	Cost /Acre:	\$598.12
Estimated Failure Rate:	25%	Cost /Acre*:	\$495.71
*Selected Replanting Work Items:	SEEDING		

Initial Job Cost:	\$5,179.72
Reseeding Job Cost:	\$1,073.21
Total Job Cost:	\$6,253
Job Hours:	12.00

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Equipment Mob/Demob**Site: **CLG Farms, LLC**Permit Action: **2024 Bond Update**Permit/Job#: **M2008060****PROJECT IDENTIFICATION**Task #: **005**State: **Colorado**Abbreviation: **None**Date: **1/3/2025**County: **Washington**Filename: **M060-005**User: **BEH**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:	\$10.44	\$22.18	\$23.94
Operating Cost/Hour:	\$26.48	\$54.55	\$55.65
Operator Cost/Hour:	\$22.52	\$22.52	\$22.52
Helper Cost/Hour:	\$0.00	\$23.53	\$23.53
Total Unit Cost/Hour:	\$59.44	\$122.78	\$125.64

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 631G	52.50	\$442.19	\$125.64	2	\$1,135.66	\$251.28	\$500.00
Cat D6T XL	23.25	\$90.43	\$59.44	1	\$149.87	\$59.44	\$250.00
Subtotals:					\$1,285.53	\$310.72	\$750.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Subtotals:			\$0.00	\$0.00

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	<u>FORT MORGAN</u>	
Total one-way travel distance:	<u>40.00</u>	miles
Average Travel Speed:	<u>50.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$6,625.06</u>
** two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	<u>\$0.00</u>
** one round trip, no haul rig:	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>0.80</u>	<u>0.80</u>
Return Time (Hours):	<u>0.80</u>	<u>0.80</u>
Loading Time (Hours):	<u>0.50</u>	<u>NA</u>
Unloading Time (Hours):	<u>0.50</u>	<u>NA</u>
Subtotals:	<u>2.60</u>	<u>1.60</u>

JOB TIME AND COST

Total job time:	<u>5.20</u>	Hours
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Total job cost:	<u>\$6,625</u>
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