



October 28, 2025

Greg Dangler
 RMR Aggregates, Inc.
 6200 S. Syracuse Way, Suite 450
 Greenwood Village, CO 801111

RE: Mid-Continent LST, Permit No. M-1982-121, Proposed SI-5 Reclamation Cost Estimate

Dear Mr. Dangler:

This reclamation cost update was in response to proposed changes made under Technical Revision (TR-9). It is Division policy to periodically update its costs to ensure that the Financial Warranty adequately, reflects the actual current cost of fulfilling the requirements of the approved reclamation plan.

Below is a table summarizing input values. Figures that have been changed from the previous calculation are in red. This table does not account for price changes resulting from inflation or other RS Means cost changes. Bond calculations are based on a combination of field observations and worst case scenario based on the approved reclamation permit.

*Additional BLM Specific Requirements

Task	Form Used	Description
*01a	Demo	Demo/ Removal of onsite facilities and structures Removed all silo associated demo *Per BLM on-site disposal of metal structures is not authorized on Federal Lands. Haul to South Canyon Garfield County Landfill, approx. 8 miles. Demo hrs. = 472
02a	Loader	Transport Fines over Processing benches 30'W x 1000' LF x 2 Benches = 60,000 Sq. Ft. = 1.38 ac @ 12" = 2,226 CCY Haul avg 700 LF @ 15% grade
02b	Dozer	Spread Transported Fines over Processing Benches 2,994 LCY, 50 ft push @ 0%



02c	Loader	Carry Topsoil to processing benches 1.38 ac @ 6" = 1,113 CCY Haul avg 1300 LF @ 15% grade
02d	Dozer	Spread Transported Topsoil over Processing benches Transported 1,252 LCY, with 50 Ft push
03b	Dozer	Finish grading of process bench material 2.75 ac @ 24" = 8,887 CCY Avg. push 150 LF, Ripper 30%
03c	Loader	Trasport topsoil to processing bench 2.75 ac @ 6" = 2,218 CCY Haul avg 1300 LF @ 15% grade
03d	Dozer	Distribute topsoil over processing bench Transported 2,695 LCY, with 50 Ft push
04b	Dozer	Grading of mill bench to 2H: 1V and general blending Est: 60'H x 700 LF of 0.5H: 1V to 2H: 1V = 11,667 CCY Cut/fill, Ripper 30% Prev Est: 10,000 CCY
04d	Dozer	Spread transported topsoil on Mill Bench 2ac @ 6" = 1,613 CCY, Avg Push distance 175'
05a	Ripper	Rip Upper and Lower access roads 2 ac (3100 LF x 28'W)
06a	Reveg	Reveg disturbed areas
07a	Mob	Initial Mobilization of Equipment to site No changes
07b	Mob	Secondary Mobilization of Equipment to site No changes
RB-1	User Provided	Rock Bolting Western Highwall Safeguarding TR-9 *CONDIDENTIAL* Quote #1: \$538,500.00, 15-20 days @ 10 hr days Quote #2: \$561,750.00, 28 days @ 10 hr days Average: \$ 550,125.00, 444 hrs

Indirect	*10% Contingency required per BLM, DRMS holds 3%, add 7% per BLM *10% Contractor Profit, DRMS requires 10% amount sufficient. 1.5% Contractor Liability Insurance, DRMS requires 2.02% amount sufficient. *Performance Bond 1.5% per BLM, DRMS Holds 1.05%, add 0.45% per BLM *10% Contract Administration (engineering bid-prep) per BLM, DRMS requires 5%, add 5 % per BLM 20.58% BLM Contract Administration, not required by DRMS, add 20.58% of reclamation management and/or administration cost for BLM Hourly Job Superintendent cost decreased to \$75.13 hr, total job hours increased to 1065.86
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The Division acknowledges that the need for rock bolting significantly increases the reclamation liabilities for this site. Furthermore, the cost associated with installing these features can vary greatly from one contractor to the next. The two quotes submitted under TR-9 provided adequate information. Based on the quoted data provided the Division took the average of the two costs.

Please review the Division's SI5 reclamation cost estimate and let me know if there are errors or concerns. Division calculations estimate the cost to reclaim the above referenced site to be \$1,315,949.00. This is an increase of \$826,192.00 over the \$489,758.00 currently held by the Division.

Please feel free to contact me with any further questions. Amy Yeldell at the Division of Reclamation, Mining and Safety, Rm 215, 1001 E 62nd Ave, Denver CO 80216. Direct contact can be made by phone at 970-210-1272 or via email at amy.yeldell@state.co.us

Sincerely,



Amy Yeldell
Environmental Protection Specialist

Enclosed: SI-5 Reclamation Cost Estimate

Ec:
Bobby Wagner, RMR
Russ Means, Program Manager
Travis Marshall, Senior EPS, Grand Junction DRMS
Brittany Cocina, BLM

COST SUMMARY WORK

Task description: Updated per TR-9

Site: Mid-Continent LST

Permit Action: SI5

Permit/Job#: M1982121

PROJECT IDENTIFICATION

Task #: ACY

State: Colorado

Abbreviation: None

Date: 10/23/2025

County: Garfield

Filename: M121-ACY

User: ACY

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Demo/removal of onsite facilities and structures	DEMOLISH	1	472.00	\$212,485
02a	Transport Fines over Processing benches	LOADER	2	16.23	\$6,053
02b	Spread Transported Fines over Processing benches	DOZER	2	2.02	\$1,327
02c	Transport Topsoil over Processing benches	LOADER	2	9.04	\$3,372
02d	Spread Transported Topsoil over Processing benches	DOZER	2	0.94	\$619
03b	Finish grading of process bench highwall	DOZER	2	23.75	\$16,440
03c	Transport topsoil to processing bench	LOADER	2	19.18	\$7,152
03d	Distribute topsoil over processing bench	DOZER	2	2.03	\$1,333
04b	Grade mill bench to 2H:1V Slope and general blending	DOZER	2	23.20	\$16,057
04d	Spread topsoil over mill pad area	DOZER	2	4.13	\$2,707
05a	Rip upper and lower access roads	RIPPER	2	1.55	\$1,099
06a	Reveg disturbed areas	REVEGE	1	40.00	\$62,352
07a	Initial Mobilization	MOBILIZE	1	5.86	\$13,664
07b	Secondary Mobilization	MOBILIZE	1	1.93	\$656
RB-1	Rock Bolting Western Highwall Safeguarding	NA	1	444.00	\$550,125
<u>SUBTOTALS (DC):</u>				1065.86	\$895,441

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance (DC):	<u>2.02%</u>	Total =	<u>\$18,088</u>
Performance bond (DC):	<u>1.05%</u>	Total =	<u>\$9,402</u>
*BLM Total 1.5%(DC):	<u>0.45%</u>	Total =	<u>\$4,029</u>
Job superintendent hrs:	<u>532.93</u>	Total =	<u>\$40,039</u>
Profit (DC):	<u>10.00%</u>	Total =	<u>\$89,544</u>
		TOTAL O & P =	<u>\$161,103</u>
		CONTRACT AMOUNT (direct + O & P) =	<u>\$1,056,544</u>

LEGAL - ENGINEERING - PROJECT MANAGEMENT: (Added to contract amount)

Financial warranty processing (legal/related costs):	<u>\$500</u>	Total =	<u>\$500</u>
Engineering work and/or contract/bid preparation:	<u>4.25%</u>	Total =	<u>\$44,903</u>
Reclamation management and/or administration:	<u>5.00%</u>	Total =	<u>\$52,827</u>
*BLM Total 10% (CA)	<u>5.00%</u>	Total =	<u>\$52,827</u>
*BLM Indirect Cost of Rec Mgmt (DC):	<u>2.1%</u>	Total =	<u>\$18,804</u>
21% of profit or 2.1% of DC			
CONTINGENCY (DC):	<u>3.00%</u>	Total =	<u>\$26,863</u>
*BLM Total 10% (DC)	<u>7.00%</u>	Total =	<u>\$62,681</u>
		TOTAL INDIRECT COST =	<u>\$420,508</u>

TOTAL BOND AMOUNT (direct + indirect) = \$1,315,949

DEMOLITION WORK

Task description: Demo/removal of onsite facilities and structures

Site: Mid-Continent LST

Permit Action: SI5

Permit/Job#: M1982121

PROJECT IDENTIFICATION

Task #: 01A

State: Colorado

Abbreviation: None

Date: 10/23/2025

County: Garfield

Filename: M121-01a

User: ACY

Agency or organization name: DRMS

UNIT COSTS

Location adjustment: 95.50 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Mill Building	30'H x 50'W x 125'L	Plant (3S) demo./off-site disposal in approved landfill - Max. 15 mile haul	187,500.00	CF	\$0.98	\$183,675.00
Mill slab	50' x 125' x 10"	Pavement, concrete, demolition only, 7 in. to 24 in. thick - Reinforced	192.00	CY	\$157.50	\$30,240.00
Mill Slab-Hauling	192 CY	Loading and 2 mile haul, no salvage - Machine loading	192.00	CY	\$21.70	\$4,166.40
Mill Slab-Hauling Additional Mileage	192 CY, 6 Mi	Hauling only, per mile, 12-18 CY truck - 30 mph average speed	64.00	MI	\$10.41	\$666.46
Mill Slab-Disposal Fee	192 CY	Dump fees - Building construction materials.	192.00	CY	\$11.10	\$2,131.20
Scale	30' L x 12' W	Loading and 2 mile haul, no salvage - Machine loading	27.00	CY	\$21.70	\$585.90
Scale-Hauling Additional Mileage	27 CY, 6 Mi	Hauling only, per mile, 12-18 CY truck - 30 mph average speed	12.00	MI	\$10.41	\$124.96
Scale-Disposal Fee	27 CY	Dump fees - Building construction materials.	27.00	CY	\$11.10	\$299.70
Conveyor	40' L x 24" W	Conveyor, demolition, off-site disposal in approved landfill, 15 mile haul	640.00	CF	\$0.95	\$607.81

Job Hours: 472.00

Subtotal (unadjusted): \$222,497.43

Total Cost (adjusted for location): \$212,485.05

Job Demo Hours

Task	Quant	Unit	Min Hrs	Max	Crew
Demo Mill Bldg	187,500	CF	122.47	135.92	B-8
Demo Mill Slab	192	CY	320.06	320.06	B-38
Haul Mill Slab	192	CY	12.67	12.67	B-17
Additional Milage Mill Slab	192	CY	6.34	6.34	B-34B
Disposal Fee			-	-	
Load/Haul Scale	27	CY	1.78	1.78	B-17
Additional Milage Scale	27	CY	0.89	0.89	B-34B
Disposal Fee			-	-	
Demo conveyor	640	CF	0.42	0.46	CIRCES 2
Total			464.63	478.12	

WHEEL LOADER – LOAD AND CARRY WORK

Task description: Transport Fines over Processing benches

Site: Mid-Continent LST Permit Action: SI5 Permit/Job#: M1982121

PROJECT IDENTIFICATION

Task #: 02A State: Colorado Abbreviation: None
 Date: 10/23/2025 County: Garfield Filename: M121-02a
 User: ACY

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Basic Machine: CAT 972H Horsepower: 287
 Attachment 1: ROPS Cab Shift Basis: 1 per day
 Data Source: (CRG)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	\$65.96	NA
Operating Cost/Hour:	\$60.89	100
Operator Cost/Hour:	\$59.52	NA
Total Unit Cost/Hour:	\$186.37	
Total Fleet Cost/Hour:	\$372.74	

MATERIAL QUANTITIES

Initial volume: 2,226 CCY Swell factor: 1.345
 Loose volume: 2,994 LCY

Source of estimated volume: 30"W x 1000' LF x 2 Benches 1.38 ac @ 12"
 Source of estimated swell factor: Cat Handbook

HOURLY PRODUCTION

Loader Cycle Time: Unadjusted Basic Cycle Time (load, dump, maneuver): 0.525 minutes

Cycle Time Factors		Factor (min.)	Source
Material:	Bank or broken material 0.04	0.040	(Cat HB)
Stockpile:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Truck Ownership:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Operation:	Constant operation -0.04	-0.040	(Cat HB)
Dump Target:	Small target 0.04	0.040	(Cat HB)
	Net Cycle Time Adjustment:	0.040	minutes
	Adjusted Basic Cycle Time:	0.565	minutes

Rolling Resistance – Road Conditions

Haul: Rutted dirt, little maintenance, no water, 2" tire penetration 5.0
 Return: Rutted dirt, little maintenance, no water, 2" tire penetration 5.0

Haul and Return Time

	Length (feet)	Grade Res. (%)	Rolling Res. (%)	Total Res. (%)	Travel Time (minutes)	Source
Haul Route:	700	9.90	5.00	14.90	1.3484	(Cat HB)
Return Route:	700	-9.90	5.00	-4.90	0.5824	(Cat HB)

Total Travel Time: 1.9308 minutes
 Total Cycle Time: 2.4958 minutes

Load Bucket Capacity

Rated Capacity: 5.60 LCY (heaped)
 Bucket Fill Factor: 0.825 Blasted rock - avg. blasted (75 - 90%) 0.825
 Adjusted Capacity: 4.62 LCY

Job Condition Correction Factors

Site Altitude: 6800 feet

Altitude Adj:	<u>1.00</u>	Source (CAT HB)
Job Efficiency:	<u>0.83</u>	(1 shift/day)
Net Correction:	<u>0.83</u>	multiplier

Unadjusted Hourly Unit Production: 111.07 LCY/Hour
 Adjusted Hourly Unit Production: 92.18 LCY/Hour
 Adjusted Hourly Fleet Production: 184.37 LCY/Hour

JOB TIME AND COST

Fleet size: 2 Loader(s) Total job time: 16.24 Hours
 Unit cost: \$2.022 /LCY Total job cost: \$6,053

BULLDOZER WORK

Task description: Spread Transported Fines over Processing benches

Site: Mid-Continent LST Permit Action: SI5 Permit/Job#: M1982121

PROJECT IDENTIFICATION

Task #: 02B State: Colorado Abbreviation: None
 Date: 10/23/2025 County: Garfield Filename: M121-02b
 User: ACY

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Basic Machine: Cat D8T - 8SU
 Horsepower: 310
 Blade Type: Semi-Universal
 Attachment: NA
 Shift Basis: 1 per day
 Data Source: (CRG)

Cost Breakdown:

		<u>Utilization %</u>
Ownership Cost/Hour:	\$179.60	NA
Operating Cost/Hour:	\$110.45	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: \$328.07
 Total Fleet Cost/Hour: \$656.13

MATERIAL QUANTITIES

Initial Volume: 2,994
 Swell factor: 1.000
 Loose volume: 2,994 LCY

Source of estimated volume: Transported Volume
 Source of estimated swell factor: Cat Handbook

HOURLY PRODUCTION

Average push distance: 50 feet
 Unadjusted hourly production: 1,400.0 LCY/hr

Materials consistency description: Loose stockpile 1.2

Average push gradient: 0 %
 Average site altitude: 6,800 feet

Material weight: 2,600 lbs/LCY

Weight description: Limestone - Broken

Job Condition Correction Factor

		<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	1.200	(CAT HB)
Dozing method:	1.000	(GEN.)
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:	0.885	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.5289

Adjusted unit production: 740.46 LCY/hr

Adjusted fleet production: **1480.92 LCY/hr**

JOB TIME AND COST

Fleet size: 2 Dozer(s)

Unit cost: \$0.443/LCY

Total job time: **2.02 Hours**

Total job cost: **\$1,327**

WHEEL LOADER – LOAD AND CARRY WORK

Task description: Transport Topsoil over Processing benches

Site: Mid-Continent LST Permit Action: SI5 Permit/Job#: M1982121

PROJECT IDENTIFICATION

Task #: 02C State: Colorado Abbreviation: None
 Date: 10/23/2025 County: Garfield Filename: M121-02c
 User: ACY

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Basic Machine: CAT 972H Horsepower: 287
 Attachment 1: ROPS Cab Shift Basis: 1 per day
 Data Source: (CRG)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	\$65.96	NA
Operating Cost/Hour:	\$60.89	100
Operator Cost/Hour:	\$59.52	NA
Total Unit Cost/Hour:	\$186.37	
Total Fleet Cost/Hour:	\$372.74	

MATERIAL QUANTITIES

Initial volume: 1,113 CCY Swell factor: 1.125
 Loose volume: 1,252 LCY

Source of estimated volume: 1.38 ac @ 6"
 Source of estimated swell factor: Cat Handbook

HOURLY PRODUCTION

Loader Cycle Time: Unadjusted Basic Cycle Time (load, dump, maneuver): 0.525 minutes

Cycle Time Factors		Factor (min.)	Source
Material:	Mixed material 0.02	0.020	(Cat HB)
Stockpile:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Truck Ownership:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Operation:	Constant operation -0.04	-0.040	(Cat HB)
Dump Target:	Small target 0.04	0.040	(Cat HB)
	Net Cycle Time Adjustment:	0.020	minutes
	Adjusted Basic Cycle Time:	0.545	minutes

Rolling Resistance – Road Conditions

Haul: Rutted dirt, little maintenance, no water, 2" tire penetration 5.0
 Return: Rutted dirt, little maintenance, no water, 2" tire penetration 5.0

Haul and Return Time

	Length (feet)	Grade Res. (%)	Rolling Res. (%)	Total Res. (%)	Travel Time (minutes)	Source
Haul Route:	1300	9.90	5.00	14.90	2.5042	(Cat HB)
Return Route:	1300	-9.90	5.00	-4.90	1.0816	(Cat HB)

Total Travel Time: 3.5858 minutes
 Total Cycle Time: 4.1308 minutes

Load Bucket Capacity

Rated Capacity: 5.60 LCY (heaped)
 Bucket Fill Factor: 1.025 Rock - Earth Mixture (100%-105%) 1.025
 Adjusted Capacity: 5.74 LCY

Job Condition Correction Factors

Site Altitude: 6800 feet

Altitude Adj:	<u>1.00</u>	Source (CAT HB)
Job Efficiency:	<u>0.83</u>	(1 shift/day)
Net Correction:	<u>0.83</u>	multiplier

Unadjusted Hourly Unit Production: 83.37 LCY/Hour
 Adjusted Hourly Unit Production: 69.20 LCY/Hour
 Adjusted Hourly Fleet Production: 138.40 LCY/Hour

JOB TIME AND COST

Fleet size: 2 Loader(s) Total job time: 9.05 Hours
 Unit cost: \$2.693 /LCY Total job cost: \$3,372

BULLDOZER WORK

Task description: Spread Transported Topsoil over Processing benches

Site: Mid-Continent LST Permit Action: SI5 Permit/Job#: M1982121

PROJECT IDENTIFICATION

Task #: 02D State: Colorado Abbreviation: None
 Date: 10/23/2025 County: Garfield Filename: M121-02d
 User: ACY

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Basic Machine: Cat D8T - 8SU
 Horsepower: 310
 Blade Type: Semi-Universal
 Attachment: NA
 Shift Basis: 1 per day
 Data Source: (CRG)

Cost Breakdown:

		<u>Utilization %</u>
Ownership Cost/Hour:	\$179.60	NA
Operating Cost/Hour:	\$110.45	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: \$328.07
 Total Fleet Cost/Hour: \$656.13

MATERIAL QUANTITIES

Initial Volume: 1,252
 Swell factor: 1.000
 Loose volume: 1,252 LCY

Source of estimated volume: Transported Volume
 Source of estimated swell factor: Cat Handbook

HOURLY PRODUCTION

Average push distance: 50 feet
 Unadjusted hourly production: 1,400.0 LCY/hr

Materials consistency description: Loose stockpile 1.2

Average push gradient: 0 %
 Average site altitude: 6,800 feet

Material weight: 2,900 lbs/LCY

Weight description: Decomposed rock - 50% Rock, 50% Earth

Job Condition Correction Factor

		<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	1.200	(CAT HB)
Dozing method:	1.000	(GEN.)
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:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4739

Adjusted unit production: 663.46 LCY/hr

Adjusted fleet production: 1326.92 LCY/hr

JOB TIME AND COST

Fleet size: 2 Dozer(s)

Unit cost: \$0.494/LCY

Total job time: 0.94 Hours

Total job cost: \$619

BULLDOZER WORK

Task description: Finish grading of process bench highwall

Site: Mid-Continent LST Permit Action: SI5 Permit/Job#: M1982121

PROJECT IDENTIFICATION

Task #: 03B State: Colorado Abbreviation: None
 Date: 10/23/2025 County: Garfield Filename: M121-03b
 User: ACY

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Basic Machine: Cat D8T - 8SU
 Horsepower: 310
 Blade Type: Semi-Universal
 Attachment: 3-shank ripper
 Shift Basis: 1 per day
 Data Source: (CRG)

Cost Breakdown:

		<u>Utilization %</u>
Ownership Cost/Hour:	<u>\$179.60</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$110.45</u>	<u>100</u>
Ripper own. Cost/Hour:	<u>\$15.28</u>	<u>NA</u>
Ripper op. Cost/Hour:	<u>\$2.74</u>	<u>30</u>
Operator Cost/Hour:	<u>\$38.02</u>	<u>NA</u>

Total unit Cost/Hour: \$346.09
 Total Fleet Cost/Hour: \$692.17

MATERIAL QUANTITIES

Initial Volume: 8,887
 Swell factor: 1.345
 Loose volume: 11,953 LCY

Source of estimated volume: 2.75 Ac @ 24"
 Source of estimated swell factor: Cat Handbook

HOURLY PRODUCTION

Average push distance: 150 feet
 Unadjusted hourly production: 634.3 LCY/hr

Materials consistency description: Compacted fill or embankment 0.9

Average push gradient: 0 %
 Average site altitude: 6,800 feet

Material weight: 2,600 lbs/LCY

Weight description: Limestone - Broken

<u>Job Condition Correction Factor</u>		<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:	<u>1.000</u>	<u>(AVG.)</u>

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:	0.885	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3967

Adjusted unit production: 251.63 LCY/hr

Adjusted fleet production: 503.26 LCY/hr

JOB TIME AND COST

Fleet size: 2 Dozer(s)

Unit cost: \$1.375/LCY

Total job time: 23.75 Hours

Total job cost: \$16,440

WHEEL LOADER – LOAD AND CARRY WORKTask description: Transport topsoil to processing benchSite: Mid-Continent LSTPermit Action: SI5Permit/Job#: M1982121PROJECT IDENTIFICATIONTask #: 03CState: ColoradoAbbreviation: NoneDate: 10/23/2025County: GarfieldFilename: M121-03cUser: ACYAgency or organization name: DRMSHOURLY EQUIPMENT COSTBasic Machine: CAT 972HHorsepower: 287Attachment 1: ROPS CabShift Basis: 1 per dayData Source: (CRG)Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	\$65.96	NA
Operating Cost/Hour:	\$60.89	100
Operator Cost/Hour:	\$59.52	NA
Total Unit Cost/Hour:	\$186.37	
Total Fleet Cost/Hour:	\$372.74	

MATERIAL QUANTITIESInitial volume: 2,218

CCY

Swell factor: 1.215Loose volume: 2,695

LCY

Source of estimated volume: (150' W x 800' L) 2.75 ac. @ 6" ThickSource of estimated swell factor: Cat HandbookHOURLY PRODUCTIONLoader Cycle Time: Unadjusted Basic Cycle Time (load, dump, maneuver): 0.525 minutes

Cycle Time Factors		Factor (min.)	Source
Material:	Mixed material 0.02	0.020	(Cat HB)
Stockpile:	Dumped by truck 0.02	0.020	(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:	-0.040	minutes
	Adjusted Basic Cycle Time:	0.485	minutes

Rolling Resistance – Road ConditionsHaul: Rutted dirt, little maintenance, no water, 2" tire penetration 5.0Return: Rutted dirt, little maintenance, no water, 2" tire penetration 5.0Haul and Return Time

	Length (feet)	Grade Res. (%)	Rolling Res. (%)	Total Res. (%)	Travel Time (minutes)	Source
Haul Route:	1300	9.90	5.00	14.90	2.5042	(Cat HB)
Return Route:	1300	-9.90	5.00	-4.90	1.0816	(Cat HB)

Total Travel Time: 3.5858 minutes
 Total Cycle Time: 4.0708 minutes

Load Bucket Capacity

Rated Capacity: 5.60 LCY (heaped)
 Bucket Fill Factor: 1.025 Rock - Earth Mixture (100%-105%) 1.025
 Adjusted Capacity: 5.74 LCY

Job Condition Correction Factors

Site Altitude: 6800 feet

		Source
Altitude Adj:	<u>1.00</u>	(CAT HB)
Job Efficiency:	<u>0.83</u>	(1 shift/day)
Net Correction:	<u>0.83</u>	multiplier

Unadjusted Hourly Unit Production: 84.60 LCY/Hour
 Adjusted Hourly Unit Production: 70.22 LCY/Hour
 Adjusted Hourly Fleet Production: 140.44 LCY/Hour

JOB TIME AND COST

Fleet size: 2 Loader(s) Total job time: 19.19 Hours
 Unit cost: \$2.654 /LCY Total job cost: \$7,152

BULLDOZER WORK

Task description: Distribute topsoil over processing bench

Site: Mid-Continent LST Permit Action: SI5 Permit/Job#: M1982121

PROJECT IDENTIFICATION

Task #: 03D State: Colorado Abbreviation: None
 Date: 10/23/2025 County: Garfield Filename: M121-03d
 User: ACY

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Basic Machine: Cat D8T - 8SU
 Horsepower: 310
 Blade Type: Semi-Universal
 Attachment: NA
 Shift Basis: 1 per day
 Data Source: (CRG)

Cost Breakdown:

		<u>Utilization %</u>
Ownership Cost/Hour:	\$179.60	NA
Operating Cost/Hour:	\$110.45	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: \$328.07
 Total Fleet Cost/Hour: \$656.13

MATERIAL QUANTITIES

Initial Volume: 2,695
 Swell factor: 1.000
 Loose volume: 2,695 LCY

Source of estimated volume: Transported volume
 Source of estimated swell factor: Cat Handbook

HOURLY PRODUCTION

Average push distance: 50 feet
 Unadjusted hourly production: 1,400.0 LCY/hr

Materials consistency description: Loose stockpile 1.2

Average push gradient: 0 %
 Average site altitude: 6,800 feet

Material weight: 2,900 lbs/LCY

Weight description: Decomposed rock - 50% Rock, 50% Earth

Job Condition Correction Factor

		<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	1.200	(CAT HB)
Dozing method:	1.000	(GEN.)
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:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4739

Adjusted unit production: 663.46 LCY/hr

Adjusted fleet production: 1326.92 LCY/hr

JOB TIME AND COST

Fleet size: 2 Dozer(s)

Unit cost: \$0.494/LCY

Total job time: 2.03 Hours

Total job cost: \$1,333

BULLDOZER WORK

Task description: Grade mill bench to 2H:1V Slope and general blending

Site: Mid-Continent LST Permit Action: SI5 Permit/Job#: M1982121

PROJECT IDENTIFICATION

Task #: 04B State: Colorado Abbreviation: None
 Date: 10/23/2025 County: Garfield Filename: M121-04b
 User: ACY

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Basic Machine: Cat D8T - 8SU
 Horsepower: 310
 Blade Type: Semi-Universal
 Attachment: 3-shank ripper
 Shift Basis: 1 per day
 Data Source: (CRG)

Cost Breakdown:

		<u>Utilization %</u>
Ownership Cost/Hour:	\$179.60	NA
Operating Cost/Hour:	\$110.45	100
Ripper own. Cost/Hour:	\$15.28	NA
Ripper op. Cost/Hour:	\$2.74	30
Operator Cost/Hour:	\$38.02	NA

Total unit Cost/Hour: \$346.09
 Total Fleet Cost/Hour: \$692.17

MATERIAL QUANTITIES

Initial Volume: 11,667
 Swell factor: 1.345
 Loose volume: 15,692 LCY

Source of estimated volume: 60'H x 700 LF of 0.5H: 1V to 2H: 1V Cut/fill
 Source of estimated swell factor: Cat Handbook

HOURLY PRODUCTION

Average push distance: 100 feet
 Unadjusted hourly production: 852.6 LCY/hr

Materials consistency description: Compacted fill or embankment 0.9

Average push gradient: 0 %
 Average site altitude: 6,800 feet

Material weight: 2,600 lbs/LCY

Weight description: Limestone - Broken

<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	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.885	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3967

Adjusted unit production: 338.23 LCY/hr

Adjusted fleet production: 676.46 LCY/hr

JOB TIME AND COST

Fleet size: 2 Dozer(s)

Unit cost: \$1.023/LCY

Total job time: 23.20 Hours

Total job cost: \$16,057

BULLDOZER WORK

Task description: Spread topsoil over mill pad area

Site: Mid-Continent LST Permit Action: SI5 Permit/Job#: M1982121

PROJECT IDENTIFICATION

Task #: 04D State: Colorado Abbreviation: None
 Date: 10/23/2025 County: Garfield Filename: M121-04d
 User: ACY

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Basic Machine: Cat D8T - 8SU
 Horsepower: 310
 Blade Type: Semi-Universal
 Attachment: NA
 Shift Basis: 1 per day
 Data Source: (CRG)

Cost Breakdown:

		<u>Utilization %</u>
Ownership Cost/Hour:	\$179.60	NA
Operating Cost/Hour:	\$110.45	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: \$328.07
 Total Fleet Cost/Hour: \$656.13

MATERIAL QUANTITIES

Initial Volume: 1,613
 Swell factor: 1.165
 Loose volume: 1,879 LCY

Source of estimated volume: 2ac @ 6"
 Source of estimated swell factor: Cat Handbook

HOURLY PRODUCTION

Average push distance: 170 feet
 Unadjusted hourly production: 576.6 LCY/hr

Materials consistency description: Consolidated stockpile 1.0

Average push gradient: 0 %
 Average site altitude: 6,800 feet

Material weight: 2,900 lbs/LCY

Weight description: Decomposed rock - 50% Rock, 50% Earth

Job Condition Correction Factor

		<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	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3949

Adjusted unit production: 227.70 LCY/hr

Adjusted fleet production: 455.4 LCY/hr

JOB TIME AND COST

Fleet size: 2 Dozer(s)

Unit cost: \$1.441/LCY

Total job time: 4.13 Hours

Total job cost: \$2,707

BULLDOZER RIPPING WORK

Task description: Rip upper and lower access roads

Site: Mid-Continent LST Permit Action: SI5 Permit/Job#: M1982121

PROJECT IDENTIFICATION

Task #: 05A State: Colorado Abbreviation: None
Date: 10/23/2025 County: Garfield Filename: M121-05a
User: ACY

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Basic Machine: Cat D8T - 8SU Horsepower: 310
Ripper Attachment: 3-Shank Ripper Shift Basis: 1 per day
Data Source: (CRG)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	<u>\$179.60</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$110.45</u>	<u>100</u>
Ripper Ownership Cost/Hour:	<u>\$15.28</u>	<u>NA</u>
Ripper Operating Cost/Hour:	<u>\$9.14</u>	<u>100</u>
Operator Cost/Hour:	<u>\$38.02</u>	<u>NA</u>
Total Unit Cost/Hour:	<u>\$352.49</u>	
Total Fleet Cost/Hour:	<u>\$704.97</u>	

MATERIAL QUANTITIES

Selected estimating method: Area

Alternate Methods:

Seismic: NA Bank Volume: NA BCY NA
Area: 2.00 acres Rip Depth (ft): 2.00 Volume: 6,453 BCY or CCY

Source of estimated quantity: 3100 LF x 28"W

HOURLY PRODUCTION

Seismic:

Seismic Velocity: NA feet/second

Area:

Average Ripping Depth:	<u>2.56</u>	<u>feet/pass</u>
Average Ripping Width:	<u>7.08</u>	<u>feet/pass</u>
Average Ripping Length:	<u>200.00</u>	<u>feet/pass</u>
Average Dozer Speed:	<u>88.00</u>	<u>feet/minute</u>
Average Maneuver Time:	<u>0.25</u>	<u>minutes/pass</u>
Production per unit area:	<u>0.773</u>	<u>acres/hour</u>

Job Condition Correction Factors

Unadjusted Hourly Unit Production:	<u>0.773</u>	<u>Acres/hr</u>
Site Altitude:	<u>6,800</u>	<u>feet</u>
Altitude Adj:	<u>1.00</u>	<u>(CAT HB)</u>
Job Efficiency:	<u>0.83</u>	<u>(1 shift/day)</u>
Net Correction:	<u>0.83</u>	<u>multiplier</u>

Adjusted Hourly Unit Production:	<u>0.64</u>	<u>Acres/hr</u>
Adjusted Hourly Fleet Production:	<u>1.28</u>	<u>Acres/hr</u>

JOB TIME AND COST

Fleet size: 2 Grader(s) Total job time: **1.56** Hours

Unit cost: \$549.304 Per acre Total job cost: **\$1,099**

REVEGETATION WORKTask description: Reveg disturbed areasSite: Mid-Continent LSTPermit Action: SI5Permit/Job#: M1982121PROJECT IDENTIFICATIONTask #: 06AState: ColoradoAbbreviation: NoneDate: 10/23/2025County: GarfieldFilename: M121-06aUser: 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
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$114.13
Total Tilling Cost/Acre	\$114.13

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Native	10.00	32.37	\$177.05
Mountain Brome - Bromar	10.00	16.07	\$61.61
Kentucky Bluegrass - Lato	10.00	493.57	\$37.78
Milk Vetch, Cicer - Lutana	10.00	33.29	\$100.22
Thurber's Fescue	10.00	103.31	\$803.64
Western Wheatgrass - Native	10.00	25.25	\$92.21
Totals Seed Mix	60.00	703.86	\$1,272.51

Application

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Initial Mobilization**Site: **Mid-Continent LST**Permit Action: **SI5**Permit/Job#: **M1982121****PROJECT IDENTIFICATION**Task #: **07A**State: **Colorado**Abbreviation: **None**Date: **10/23/2025**County: **Garfield**Filename: **M121-07a**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:	\$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/ 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 972H	28.00	\$65.96	\$143.20	2	\$418.32	\$286.40	\$500.00
Cat D8T - 8SU	53.08	\$194.88	\$159.59	2	\$708.94	\$319.18	\$500.00
Grove RT650E, 105', 45.4 MT	28.74	\$182.06	\$143.20	1	\$325.26	\$143.20	\$250.00
CAT 963D	22.29	\$90.84	\$75.46	1	\$166.30	\$75.46	\$250.00
CAT 450E	9.80	\$85.52	\$75.46	1	\$160.98	\$75.46	\$250.00

Subtotals: **\$1,779.80** **\$899.70** **\$1,750.00****ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Generic 12-18 cy, 6x4	\$111.97	2	\$223.94	\$223.94
Flatbed Truck, 6x4, 45K GVW	\$99.82	1	\$99.82	\$99.82
Light Duty Pickup, 4x4, 1 T. Crew	\$135.59	2	\$271.18	\$271.18
Hydroseeder with Tractor	\$67.95	1	\$67.95	\$67.95
Water Tanker, 3,500 Gal.	\$73.85	1	\$73.85	\$73.85

Subtotals: **\$736.74** **\$736.74**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region: GLENWOOD SPRINGS
 Total one-way travel distance: 29.00 miles
 Average Travel Speed: 30.00 mph

Total Non-Roadable Mob/Demob Cost * \$12,239.97
 * * two round trips with haul rig:
 Total Roadable Mob/Demob Cost ** \$1,424.36
 ** one round trip, no haul rig:

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.97	0.97
Return Time (Hours):	0.97	0.97
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	2.93	1.93

JOB TIME AND COST

Total job time: 5.87 Hours

Total job cost: \$13,664

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: Secondary MobilizationSite: Mid-Continent LSTPermit Action: SI5Permit/Job#: M1982121**PROJECT IDENTIFICATION**Task #: 07BState: ColoradoAbbreviation: NoneDate: 10/23/2025County: GarfieldFilename: M121-07bUser: ACYAgency or organization name: DRMS**EQUIPMENT TRANSPORT RIG COST**Shift basis: 1 per dayCost 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:**

Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons
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/ 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, 1 T. Crew	\$135.59	2	\$271.18	\$271.18
Hydroseeder with Tractor	\$67.95	1	\$67.95	\$67.95
Subtotals:				
			\$339.13	\$339.13

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region: GLENWOOD SPRINGS
 Total one-way travel distance: 29.00 miles
 Average Travel Speed: 30.00 mph

Total Non-Roadable Mob/Demob Cost * \$0.00
 * * two round trips with haul rig:
 Total Roadable Mob/Demob Cost ** \$655.65
 ** one round trip, no haul rig:

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.97	0.97
Return Time (Hours):	0.97	0.97
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	2.93	1.93

JOB TIME AND COST

Total job time: 1.93 Hours

Total job cost: \$656