



STATE OF  
COLORADO

Zuber - DNR, Rob <rob.zuber@state.co.us>

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## Notice of surety increase for permit M-2015-006

1 message

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**Zuber - DNR, Rob** <rob.zuber@state.co.us>

Tue, Mar 18, 2025 at 10:58 AM

To: spraguestone <spraguestone@gmail.com>

Cc: Jason Andrews <jandrews@enganalytics.com>, "Stevenson-Benn - DNR, Sara" <sara.stevenson-benn@state.co.us>

Hello,

Please see the attached letter.

Rob

Rob Zuber, P.E.  
Environmental Protection Specialist  
Active Mines Program



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

*Phone: 720.601.2276 | Fax: 303.832.8106*

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1313 Sherman Street, Room 215  
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[rob.zuber@state.co.us](mailto:rob.zuber@state.co.us) | <http://drms.colorado.gov>



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**M2015006\_Division letter\_Surety Increase No. 3\_with RCE.pdf**

273K



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

March 18, 2025

Matthew Sprague  
Sprague Stone LLC  
P.O. Box 294  
Masonville, CO 80541

**Re: Sprague Stone, File No. M-2015-006,  
Surety Increase (SI-3),  
Increase in Required Surety from TR-01 Reclamation Cost Estimate**

Dear Mr. Sprague:

On March 18, 2025, the Division of Reclamation, Mining and Safety increased the current Financial Warranty for this permit from \$56,400.00 to \$266,970.00, in accordance with Rule 4.2.1 of the Rules and Regulations. This surety increase is the result of a Division inspection in August 2023, a technical revision (TR-01), and an updated reclamation cost estimate. The cost estimate is enclosed. Also on March 18, 2025, the Division ordered amendment of the current financial warranty or submittal of a new financial warranty reflecting the increase, within 60 days.

Please make arrangements with Sara Stevenson-Benn at the Division's Denver office for submittal of the financial warranty. Any other questions regarding completion, execution and/or submittal of financial warranty forms should also be directed to Ms. Stevenson-Benn by telephone at (303) 866-3567, or by email at [Sara.stevenson-benn@state.co.us](mailto:Sara.stevenson-benn@state.co.us).

The Permittee for this site may be scheduled for a Formal Board Hearing for possible revocation of the permit if the amount of any increased Financial Warranty has not been provided by May 17, 2025.

If you have any questions, please contact me by telephone at (720) 601-2276, or by email at [Rob.zuber@state.co.us](mailto:Rob.zuber@state.co.us).

Sincerely,

Robert D. Zuber, P.E.  
Environmental Protection Specialist

Enclosure



## COST SUMMARY WORK

Task description: Cost Summary

Site: Sprague Stone

Permit Action: TR1

Permit/Job#: M2015006

### PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 3/10/2025

County: Larimer

Filename: M006-000

User: RDZ

Agency or organization name: DRMS

### TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Rip Storage Areas	RIPPER	2	11.50	\$11,181
002	Backfill 4" overburden over work decks, including waste rock	DOZER	2	61.59	\$58,674
004	Spread Topsoil over 62 acres	SCRAPER1	1	17.73	\$59,920
005	Revegetating Disturbed Areas	REVEGE	1	62.00	\$70,391
006	Equipment Mobilization/Demobilization	MOBILIZE	1	2.60	\$11,737
<b><u>SUBTOTALS:</u></b>				<b>155.42</b>	<b>\$211,903</b>

### INDIRECT COSTS

#### OVERHEAD AND PROFIT:

Liability insurance: 2.02  
Performance bond: 1.05  
Job superintendent: 54.37  
Profit: 10.00

Total = \$4,280

Total = \$2,225

Total = \$4,310

Total = \$21,190

TOTAL O & P = \$32,006

CONTRACT AMOUNT (direct + O & P) = \$243,909

#### LEGAL - ENGINEERING - PROJECT MANAGEMENT:

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

Total = \$500

Engineering work and/or contract/bid preparation: 4.25

Total = \$10,366

Reclamation management and/or administration: 5.00

\$12,195

CONTINGENCY: 0.00

Total = \$0

TOTAL INDIRECT COST = \$55,067

**TOTAL BOND AMOUNT (direct + indirect) = \$266,970**

## BULLDOZER RIPPING WORK

Task description: Rip Storage Areas

Site: Sprague Stone

Permit Action: TR1

Permit/Job#: M2015006

### PROJECT IDENTIFICATION

Task #: 001

State: Colorado

Abbreviation: None

Date: 2/27/2025

County: Larimer

Filename: M006-001

User: RDZ

Agency or organization name: DRMS

### HOURLY EQUIPMENT COST

Basic Machine: Cat D9T - 9SU  
Ripper Attachment: 3-Shank Ripper

Horsepower: 405

Shift Basis: 1 per day

Data Source: (CRG)

#### Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	\$253.16	NA
Operating Cost/Hour:	\$164.35	100
Ripper Ownership Cost/Hour:	\$18.79	NA
Ripper Operating Cost/Hour:	\$9.48	100
Operator Cost/Hour:	\$40.04	NA
Total Unit Cost/Hour:	\$485.82	
Total Fleet Cost/Hour:	<b>\$971.63</b>	

### MATERIAL QUANTITIES

Selected estimating method: Area

#### Alternate Methods:

Seismic: NA Bank Volume: NA BCY NA  
Area: 16.00 acres Rip Depth (ft): 1.00 Volume: 25,813 BCY or CCY

Source of estimated quantity: 2024 Annual Report Map

### 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: 200.00 feet/pass  
Average Dozer Speed: 88.00 feet/minute  
Average Maneuver Time: 0.25 minutes/pass  
Production per unit area: 0.838 acres/hour

#### Job Condition Correction Factors

Unadjusted Hourly Unit Production: 0.838 Acres/hr  
Site Altitude: 5,500 feet  
Altitude Adj: 1.00 (CAT HB)  
Job Efficiency: 0.83 (1 shift/day)  
Net Correction: 0.83 multiplier

Adjusted Hourly Unit Production: 0.70 Acres/hr  
Adjusted Hourly Fleet Production: **1.39** Acres/hr

### JOB TIME AND COST

Fleet size: 2 Grader(s) Total job time: **11.51** Hours

Unit cost: \$698.842 Per acre Total job cost: **\$11,181**

**BULLDOZER WORK**Task description: **Backfill 4" overburden over work decks, including waste rock**Site: **Sprague Stone**Permit Action: TR1Permit/Job#: M2015006**PROJECT IDENTIFICATION**Task #: 002State: ColoradoAbbreviation: NoneDate: 2/27/2025County: LarimerFilename: M006-002User: RDZAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D9T - 9SUHorsepower: 405Blade Type: Semi-UniversalAttachment: 3-shank ripperShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	<u>\$253.16</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$164.35</u>	<u>100</u>
Ripper own. Cost/Hour:	<u>\$18.79</u>	<u>NA</u>
Ripper op. Cost/Hour:	<u>\$0.00</u>	<u>0</u>
Operator Cost/Hour:	<u>\$40.04</u>	<u>NA</u>

Total unit Cost/Hour: \$476.34Total Fleet Cost/Hour: **\$952.67****MATERIAL QUANTITIES**Initial Volume: 9,141Swell factor: 1.000Loose volume: **9,141 LCY**Source of estimated volume: 31 acres, average 4 inches deepSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 150 feetUnadjusted hourly production: 910.5 LCY/hrMaterials consistency description: Compacted fill or embankment 0.9Average push gradient: 30 %Average site altitude: 5,500 feetMaterial weight: 3,300 lbs/LCYWeight description: Decomposed rock - 75% Rock, 25% Earth**Job Condition Correction Factor**

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

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.700	(FND-MF)
Push gradient:	0.298	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.697	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.0815

Adjusted unit production: 74.21 LCY/hr

Adjusted fleet production: **148.42** LCY/hr

### **JOB TIME AND COST**

Fleet size: 2 Dozer(s)

Unit cost: \$6.419/LCY

Total job time: **61.59** Hours

Total job cost: **\$58,674**

**SCRAPER TEAM WORK**Task description: **Spread Topsoil over 62 acres**Site: **Sprague Stone**Permit Action: TR1Permit/Job#: M2015006**PROJECT IDENTIFICATION**Task #: 004State: ColoradoAbbreviation: NoneDate: 2/27/2025County: LarimerFilename: M006-004User: RDZAgency or organization name: DRMS**HOURLY EQUIPMENT**COSTShift basis: 1 per day

	Equipment Description
-Scraper:	Cat 637G w/push-pull
-Dozer:	NA
Support Equipment -Load Area:	Cat D9T - 9SU
-Dump Area:	CAT 16M
Road Maintenance -Motor Grader:	NA
-Water Truck:	Water Tanker, 5,000 Gal.

**Cost Breakdown:**

	Scraper Work Team		Support Equipment		Maintenance Equipment	
	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	NA	50	60	NA	25
Ownership cost/hour:	\$281.32	NA	\$253.16	\$179.39	NA	\$51.70
Operating cost/hour:	\$319.35	NA	\$82.18	\$71.78	NA	\$12.56
%Utilization-ripper:	NA	NA	NA	NA	NA	NA
Ripper own. cost/hour:	NA	NA	\$0.00	\$0.00	NA	\$0.00
Ripper op. cost/hour:	NA	NA	\$0.00	\$0.00	NA	\$0.00
Operator cost/hour:	\$57.52	NA	\$40.04	\$56.70	NA	\$0.00
Unit Subtotals:	\$658.19	NA	\$375.37	\$307.87	NA	\$64.26
Number of Units:	4	0	1	1	0	1
Group Subtotals:	Work:	\$2,632.76	Support:	\$683.24	Maint:	\$64.26

Total work team cost/hour: **\$3,380.26****MATERIAL QUANTITIES**Initial volume: 33,342

CCY

Swell factor: 1.125Loose volume: **37,510**

LCY

Source of estimated volume: 62 acres, 4 inches deep; Exh LSource 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:	<b><u>29.00</u></b>	LCY

Cycle Time:Scraper Loading Time: 1.00 MinutesManeuver and Spread Time: 0.60 MinutesJob Condition Correction:

Site Altitude: 5500 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: Firm, smooth, rolling, dirt/lt. surfaced, watered, maintained 3.0Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1000.00	0.00	3.00	3.00	2800	0.64

Haul Time: 0.64 minutesReturn Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1000.00	0.00	3.00	3.00	2949	0.49

Return Time: 0.49 minutesTotal Scraper team cycle time: 2.73 minutesAdjusted for job conditions: 1,058.02 LCY/HourSelected Number of Scrapers: 4 Scraper(s)Adjusted single scraper team (unit) hourly production: 2,116.04 LCY/HourAdjusted multiple scraper team (fleet) hourly production: 2,116.04 LCY/HourUnadjusted unit production/hour: 1,274.73 LCY/Hour

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

**JOB TIME AND COST**Fleet size: 1 Team(s)Total job time: 17.73 HoursUnit cost: \$1.597 /LCYTotal job cost: \$59,920



**REVEGETATION WORK**Task description: Revegetating Disturbed AreasSite: Sprague StonePermit Action: TR1Permit/Job#: M2015006**PROJECT IDENTIFICATION**Task #: 005State: ColoradoAbbreviation: NoneDate: 3/10/2025County: LarimerFilename: M006-005User: RDZAgency or organization name: DRMS**FERTILIZING****Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
8-32-16, 16-20-0	200.00	pound	\$0.92	\$184.72
			<b>Total Fertilizer Materials Cost/Acre</b>	<b>\$184.72</b>

**Application**

Description	Cost /Acre
Truck whirlwind spreader (MEANS 32 01 90.13 0140)	\$17.86
<b>Total Fertilizer Application Cost/Acre</b>	<b>\$17.86</b>

**TILLING**

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

**SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indiangrass - Cheyenne	1.00	3.05	\$12.30
Switchgrass - Blackwell	1.00	8.93	\$13.22
Big Bluestem - Native	0.80	2.39	\$12.49
Priarie Dropseed	0.60	6.63	\$78.94
Blue Grama - Native	2.00	32.64	\$42.65
Indian Ricegrass - Native	1.60	5.18	\$27.67
Buffalograss - Native/Plains	2.00	1.93	\$57.01
Sand Dropseed	0.20	23.88	\$2.60
Little Bluestem - Native	2.00	11.94	\$30.78
Sideoats Grama - Vaughn	2.80	9.19	\$68.85

Slender Wheatgrass - San Luis	2.00	7.30	\$12.07
Western Wheatgrass - Native	3.00	7.58	\$27.02
Needlegrass, Green - Lodorm	1.00	4.16	\$8.65
<b>Totals Seed Mix</b>	<b>20.00</b>	<b>124.79</b>	<b>\$394.25</b>

**Application**

<b>Description</b>	<b>Cost /Acre</b>
Broadcast seeding [DMG]	\$272.56
<b>Total Seed Application Cost/Acre</b>	<b>\$272.56</b>

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

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
<b>Total Mulch Materials Cost/Acre</b>				<b>\$0.00</b>

**Application**

<b>Description</b>	<b>Cost /Acre</b>
	\$
<b>Total Mulch Application Cost/Acre</b>	<b>\$0.00</b>

**NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
Juniper, Rocky Mountain	6	Bare root seedling, 11-16 inch ht. (MEANS)	\$2.74	\$0.00	\$16.44
Pine, Ponderosa	6	Bare root seedling, 11-16 inch ht. (MEANS)	\$2.74	\$0.00	\$16.44
Oak, Gambel's	6	Bare root seedling, 11-16 inch ht. (MEANS)	\$2.62	\$0.00	\$15.72
<b>Totals Nursery Stock Cost / Acre</b>					<b>\$48.60</b>

**JOB TIME AND COST**

No. of Acres:	62	Cost /Acre:	\$917.99
Estimated Failure Rate:	25%	Cost /Acre*:	\$869.39
*Selected Replanting Work Items:	FERTILIZING,SEEDING		
Initial Job Cost:	\$56,915.38		
Reseeding Job Cost:	\$13,475.55		
Total Job Cost:	\$70,391		
Job Hours:	62.00		

**EQUIPMENT MOBILIZATION/DEMOBILIZATION**Task description: Equipment Mobilization/DemobilizationSite: Sprague StonePermit Action: TR1Permit/Job#: M2015006**PROJECT IDENTIFICATION**Task #: 006State: ColoradoAbbreviation: NoneDate: 2/27/2025County: LarimerFilename: M006-006User: RDZAgency 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:**

<b>Available Rig Capacities</b>	<b>0-25 Tons</b>	<b>26-50 Tons</b>	<b>51+ Tons</b>
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 D9T - 9SU	60.01	\$253.16	\$125.64	2	\$757.60	\$251.28	\$250.00
Cat 637G w/push-pull	59.59	\$281.32	\$125.64	4	\$1,627.84	\$502.56	\$1,000.00
CAT 16M	28.73	\$179.39	\$122.78	1	\$302.17	\$122.78	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$41.02	\$59.44	2	\$200.92	\$118.88	\$500.00
Water Tanker, 5,000 Gal.	15.00	\$51.70	\$59.44	1	\$111.14	\$59.44	\$250.00

Subtotals: **\$2,999.67** **\$1,054.94** **\$2,250.00****ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Power Mulcher (Bowie LD-90)	\$58.47	1	\$58.47	\$58.47
Light Duty Pickup, 4x4, 3/4 T.	\$13.77	1	\$13.77	\$13.77

Subtotals: **\$72.24** **\$72.24**

**EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region: LOVELAND  
 Total one-way travel distance: 6.00 miles  
 Average Travel Speed: 40.00 mph

Total Non-Roadable Mob/Demob Cost \* \$11,715.72  
 \*\* two round trips with haul rig:  
 Total Roadable Mob/Demob Cost \*\* \$21.67  
 \*\* one round trip, no haul rig:

**Transportation Cycle Time:**

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.15	0.15
Return Time (Hours):	0.15	0.15
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.30	0.30

**JOB TIME AND COST**

Total job time: 2.60 Hours

Total job cost: \$11,737