



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

December 27, 2023

Russell A. Larsen
Kilgore Companies LLC dba Elam Construction
556 Struthers Ave
Grand Junction, CO 81501

**Re: East Douglas Pit - File No. M-1987-103
Kilgore Companies LLC dba Elam Construction
Surety Increase (SI-2)
Post inspection bond increase**

Dear Russell A. Larsen:

On December 27, 2023 the Division of Reclamation, Mining and Safety increased the current Financial Warranty for this permit to \$48,540.00, in accordance with Rule 4.2.1 of the Rules and Regulations. This is an increase of \$10,312.33.

Please see the October 24, 2023 inspection report for details regarding why this surety increase is required.

The Division ordered amendment of the current Financial Warranty, or submittal of a new Financial Warranty reflecting the increase, within 60 days from the date of this letter (December 27, 2023).

Please make arrangements with Sara M. 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 Sara M. Stevenson-Benn by telephone at (303) 866-3567 (8148), or by email at 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 after February 25, 2024, if the amount of any increased Financial Warranty has not been provided.

Bond Held:	\$38,227.67
Prior Liability:	\$38,227.67
Change in Liability:	\$10,312.33
Revised Liability:	\$48,540.00
Prior Permit Acreage:	9.90



Change in Permit Acreage:	0.00
Revised Permit Acreage:	9.90
Prior Affected Acreage:	7.40
Change in Affected Acreage:	0.00
Revised Affected Acreage:	7.40

If you have any questions, please contact me by telephone at (303) 866-3567 x 8183, or by email at Amy.yeldell@state.co.us.

Sincerely,



Amy C. Yeldell
Environmental Protection Specialist

cc: Jon Mueller

M-GR-04

COST SUMMARY WORK

Task description: Post inspection Update

Site: East Douglas Pit

Permit Action: 2023

Permit/Job#: M1987103

PROJECT IDENTIFICATION

Task #: ACY

State: Colorado

Abbreviation: None

Date: 11/13/2023

County: Rio Blanco

Filename: M103-ACY

User: ACY

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Regrade Pit Highwalls - Contouring	DOZER	1	8.28	\$2,053
02a	Decompact Pit Floor	RIPPER	1	7.46	\$1,956
03a	Carry topsoil to benches	LOADER	1	21.82	\$3,371
03b	Grade topsoil over re-graded areas	DOZER	1	16.79	\$4,164
04a	Revegetation of 7 acres disturbance	REVEGE	1	16.00	\$18,080
05a	Initial Mobilization	MOBILIZE	1	4.66	\$5,033
05b	Secondary Mobilization	MOBILIZE	1	4.66	\$2,187
<u>SUBTOTALS:</u>				79.67	\$36,844

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02

Total = \$744

Performance bond: 1.05

Total = \$387

Job superintendent: 20.00

Total = \$1,302

Profit: 10.00

Total = \$3,684

TOTAL O & P = \$6,117

CONTRACT AMOUNT (direct + O & P) = \$42,961

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

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

Total = \$500

Engineering work and/or contract/bid preparation: 4.25

Total = \$1,826

Reclamation management and/or administration: 5.00

\$2,148

CONTINGENCY: 3.00

Total = \$1,105

TOTAL INDIRECT COST = \$11,696

TOTAL BOND AMOUNT (direct + indirect) = \$48,540

BULLDOZER WORKTask description: **Regrade Pit Highwalls - Contouring**Site: **East Douglas Pit**Permit Action: 2023Permit/Job#: M1987103**PROJECT IDENTIFICATION**Task #: 01AState: ColoradoAbbreviation: NoneDate: 11/13/2023County: Rio BlancoFilename: M103-01aUser: ACYAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D7R DS XR Series IIHorsepower: 240Blade Type: Semi-UniversalAttachment: NAShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$114.76	NA
Operating Cost/Hour:	\$91.98	100
Ripper own. Cost/Hour:	\$0.00	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$41.30	NA

Total unit Cost/Hour: \$248.04Total Fleet Cost/Hour: **\$248.04****MATERIAL QUANTITIES**Initial Volume: 1,804Swell factor: 1.165Loose volume: **2,102 LCY**Source of estimated volume: Division of Reclamation, Mining & SafetySource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 100 feetUnadjusted hourly production: 714.3 LCY/hrMaterials consistency description: Compacted fill or embankment 0.9Average push gradient: 0 %Average site altitude: 6,000 feetMaterial weight: 2,900 lbs/LCYWeight description: Decomposed rock - 50% Rock, 50% Earth**Job Condition Correction Factor**

		<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:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3554

Adjusted unit production: 253.86 LCY/hr

Adjusted fleet production: **253.86** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.977/LCY

Total job time: **8.28** Hours

Total job cost: **\$2,053**

BULLDOZER RIPPING WORK

Task description: Decompact Pit Floor

Site: East Douglas Pit Permit Action: 2023 Permit/Job#: M1987103

PROJECT IDENTIFICATION

Task #: 02A State: Colorado Abbreviation: None
Date: 11/13/2023 County: Rio Blanco Filename: M103-02a
User: ACY

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Basic Machine: Cat D7R DS XR Series II Horsepower: 240
Ripper Attachment: 3-Shank Ripper Shift Basis: 1 per day
Data Source: (CRG)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	<u>\$114.76</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$91.98</u>	<u>100</u>
Ripper Ownership Cost/Hour:	<u>\$9.06</u>	<u>NA</u>
Ripper Operating Cost/Hour:	<u>\$5.02</u>	<u>100</u>
Operator Cost/Hour:	<u>\$41.30</u>	<u>NA</u>
Total Unit Cost/Hour:	<u>\$262.12</u>	
Total Fleet Cost/Hour:	<u>\$262.12</u>	

MATERIAL QUANTITIES

Selected estimating method: Area

Alternate Methods:

Seismic: NA Bank Volume: NA BCY NA
Area: 4.00 acres Rip Depth (ft): 2.00 Volume: 12,907 BCY or CCY

Source of estimated quantity: Staff estimates

HOURLY PRODUCTION

Seismic:

Seismic Velocity: NA feet/second

Area:

Average Ripping Depth:	<u>2.45</u>	<u>feet/pass</u>
Average Ripping Width:	<u>6.50</u>	<u>feet/pass</u>
Average Ripping Length:	<u>100.00</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>0.646</u>	<u>acres/hour</u>

Job Condition Correction Factors

Unadjusted Hourly Unit Production:	<u>0.646</u>	<u>Acres/hr</u>
Site Altitude:	<u>600</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: 0.54 Acres/hr
Adjusted Hourly Fleet Production: 0.54 Acres/hr

JOB TIME AND COST

Fleet size: 1 Grader(s) Total job time: 7.46 Hours

Unit cost: \$489.015 Per acre Total job cost: \$1,956

WHEEL LOADER – LOAD AND CARRY WORKTask description: Carry topsoil to benchesSite: East Douglas PitPermit Action: 2023Permit/Job#: M1987103**PROJECT IDENTIFICATION**Task #: 03AState: ColoradoAbbreviation: NoneDate: 11/13/2023County: Rio BlancoFilename: M103-03aUser: ACYAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: CAT 966HAttachment 1: ROPS CabHorsepower: 262Shift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		Utilization %
Ownership Cost/Hour:	\$65.69	NA
Operating Cost/Hour:	\$48.09	100
Operator Cost/Hour:	\$40.71	NA
Total Unit Cost/Hour:	\$154.49	
Total Fleet Cost/Hour:	\$154.49	

MATERIAL QUANTITIESInitial volume: 2,420

CCY

Swell factor: 1.000Loose volume: 2,420

LCY

Source of estimated volume: 3 ac @ 6" deepSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Loader Cycle Time: Unadjusted Basic Cycle Time (load, dump, maneuver): 0.500 minutes

Cycle Time Factors		Factor (min.)	Source
Material:	Material 3/4" to 6" diameter 0.00	0.000	(Cat HB)
Stockpile:	Conveyor or dozer piled 10 ft. high or less 0.01	0.010	(Cat HB)
Truck Ownership:	Common ownership of trucks and loaders -0.04	-0.040	(Cat HB)
Operation:	Inconsistent operation 0.04	0.040	(Cat HB)
Dump Target:	Small target 0.04	0.040	(Cat HB)
Net Cycle Time Adjustment:		0.050	minutes
Adjusted Basic Cycle Time:		0.550	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 5.0**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	1.3350	(Cat HB)
Return Route:	700	-9.90	5.00	-4.90	0.5850	(Cat HB)

Total Travel Time: 1.9200 minutes
 Total Cycle Time: 2.4700 minutes

Load Bucket Capacity

Rated Capacity: 5.00 LCY (heaped)
 Bucket Fill Factor: 1.100 Other - rock/dirt mixtures (100-120%) 1.100
 Adjusted Capacity: 5.50 LCY

Job Condition Correction Factors

Site Altitude: 6000 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: 133.60 LCY/Hour
 Adjusted Hourly Unit Production: 110.89 LCY/Hour
 Adjusted Hourly Fleet Production: 110.89 LCY/Hour

JOB TIME AND COST

Fleet size: 1 Loader(s) Total job time: 21.82 Hours
 Unit cost: \$1.393 /LCY Total job cost: \$3,371

BULLDOZER WORKTask description: Grade topsoil over re-graded areasSite: East Douglas PitPermit Action: 2023Permit/Job#: M1987103**PROJECT IDENTIFICATION**Task #: 03BState: ColoradoAbbreviation: NoneDate: 11/13/2023County: Rio BlancoFilename: M103-03bUser: ACYAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D7R DS XR Series IIHorsepower: 240Blade Type: Semi-UniversalAttachment: NAShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$114.76	NA
Operating Cost/Hour:	\$91.98	100
Ripper own. Cost/Hour:	\$0.00	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$41.30	NA

Total unit Cost/Hour: \$248.04Total Fleet Cost/Hour: **\$248.04****MATERIAL QUANTITIES**Initial Volume: 5,647Swell factor: 1.215Loose volume: **6,861** LCYSource of estimated volume: 7 ac at 6"Source of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 150 feetUnadjusted hourly production: 518.9 LCY/hrMaterials consistency description: Partly consolidated stockpile 1.1Average push gradient: 0 %Average site altitude: 6,000 feetMaterial weight: 1,600 lbs/LCYWeight description: Top Soil**Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	1.100	(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:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.7877

Adjusted unit production: 408.74 LCY/hr

Adjusted fleet production: **408.74** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.607/LCY

Total job time: **16.79** Hours

Total job cost: **\$4,164**

REVEGETATION WORKTask description: Revegetation of 7 acres disturbanceSite: East Douglas PitPermit Action: 2023Permit/Job#: M1987103**PROJECT IDENTIFICATION**Task #: 04AState: ColoradoAbbreviation: NoneDate: 11/13/2023County: Rio BlancoFilename: M103-04aUser: ACYAgency or organization name: DRMS**FERTILIZING****Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
6-24-24, 10-20-10, 15-15-15	200.00	pound	\$0.44	\$88.00
			Total Fertilizer Materials Cost/Acre	\$88.00

Application

Description	Cost /Acre
Tractor towed spreader (MEANS 32 01 90.13 0120)	\$41.82
Total Fertilizer Application Cost/Acre	\$41.82

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
Crested Wheatgrass - Fairway	2.00	9.18	\$8.05
Russian Wildrye - Vinal	2.00	8.03	\$12.36
Pubescent Wheatgrass - Luna	2.00	4.13	\$6.80
Western Wheatgrass - Arriba	3.00	7.58	\$19.50
Saltbush, Four Wing	2.00	2.75	\$25.00
Totals Seed Mix	11.00	31.68	\$71.71

Application

Description	Cost /Acre
-------------	------------

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
Herbicide - 2,4D @ 1.0 pt/ac	2.00	ACRE	\$4.01	\$8.01
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$429.79	\$859.57
Total Mulch Materials Cost/Acre				\$867.59

Application

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$74.46
Power mulcher (MEANS 32 91 13.16 0350)	\$147.67
Weed spray, hand, non-aquatic area, nox. [DMG]	\$183.16
Weed spray, truck, non-aquatic area, nox. [DMG]	\$62.72
Total Mulch Application Cost/Acre	\$468.01

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: 7 Cost /Acre: \$1,881.95
 Estimated Failure Rate: 40% Cost /Acre*: \$1,752.13
 *Selected Replanting Work Items: TILLING,SEEDING,MULCHING

Initial Job Cost: **\$13,173.65**
 Reseeding Job Cost: **\$4,905.96**
 Total Job Cost: **\$18,080**
 Job Hours: **16.00**

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Initial Mobilization**Site: **East Douglas Pit**Permit Action: **2023**Permit/Job#: **M1987103****PROJECT IDENTIFICATION**Task #: **05A**State: **Colorado**Abbreviation: **None**Date: **11/13/2023**County: **Rio Blanco**Filename: **M103-05a**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:	\$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 D7R DS XR Series II	32.01	\$114.76	\$158.17	1	\$272.93	\$158.17	\$250.00
CAT 966H	25.80	\$65.69	\$82.29	1	\$147.98	\$82.29	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$6.73	\$82.29	1	\$89.02	\$82.29	\$250.00
Power Mulcher (Bowie LD-90)	6.00	\$25.94	\$82.29	1	\$108.23	\$82.29	\$250.00

Subtotals: **\$618.16** **\$405.04** **\$1,000.00****ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Flatbed Truck, 4x2, 30K GVW	\$91.58	1	\$91.58	\$91.58
Light Duty Pickup, 4x4, 3/4 T.	\$116.31	2	\$232.62	\$232.62

Subtotals: **\$324.20** **\$324.20**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	<u>RANGELY</u>	
Total one-way travel distance:	<u>30.00</u>	miles
Average Travel Speed:	<u>45.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$4,600.59</u>
** two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	<u>\$432.27</u>
** one round trip, no haul rig:	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>0.67</u>	<u>0.67</u>
Return Time (Hours):	<u>0.67</u>	<u>0.67</u>
Loading Time (Hours):	<u>0.50</u>	<u>NA</u>
Unloading Time (Hours):	<u>0.50</u>	<u>NA</u>
Subtotals:	<u>2.33</u>	<u>1.33</u>

JOB TIME AND COST

Total job time:	<u>4.67</u>	Hours
-----------------	-------------	-------

Total job cost:	<u>\$5,033</u>
-----------------	----------------

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: Secondary MobilizationSite: East Douglas PitPermit Action: 2023Permit/Job#: M1987103**PROJECT IDENTIFICATION**Task #: 05BState: ColoradoAbbreviation: NoneDate: 11/13/2023County: Rio BlancoFilename: M103-05bUser: 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:	\$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
Drill/Broadcast Seeder with Tractor	25.00	\$6.73	\$82.29	1	\$89.02	\$82.29	\$250.00
Power Mulcher (Bowie LD-90)	6.00	\$25.94	\$82.29	1	\$108.23	\$82.29	\$250.00

Subtotals: **\$197.25** **\$164.58** **\$500.00****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.	\$116.31	2	\$232.62	\$232.62

Subtotals: **\$232.62** **\$232.62**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	<u>RANGELY</u>	
Total one-way travel distance:	<u>30.00</u>	miles
Average Travel Speed:	<u>45.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$1,876.94</u>
** two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	<u>\$310.16</u>
** one round trip, no haul rig:	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>0.67</u>	<u>0.67</u>
Return Time (Hours):	<u>0.67</u>	<u>0.67</u>
Loading Time (Hours):	<u>0.50</u>	<u>NA</u>
Unloading Time (Hours):	<u>0.50</u>	<u>NA</u>
Subtotals:	<u>2.33</u>	<u>1.33</u>

JOB TIME AND COST

Total job time:	<u>4.67</u>	Hours
-----------------	-------------	-------

Total job cost:	<u>\$2,187</u>
-----------------	----------------



November 14, 2023

Jim Doody
Kilgore Companies LLC dba Elam Construction
556 Struthers Ave
Grand Junction, CO 81501

RE: East Douglas Pit, Permit No. M-1987-103, Proposed Surety Increase SI-2

Dear Mr. Doody:

This reclamation cost update was in response to the site inspection conducted on October 24, 2023. 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.

The bond was last adjusted in 2010 with SI-1. Below is a table summarizing input values. 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 plan.

Task	Form Used	Description
01a	Dozer	Site grading = 1804 CY @ 100' Push w/ D7 Backfill 200 LF x 10'H vertical to 3H: 1V = 1,111 CY Cut/fill SE berm 1300 LF x 4' 1H:1V = 193 CY Misc. stockpile and general blending = 500 CY
02a	Ripper	Decompact 4 ac main pit floor w/ D7
03a	Loader	Transport topsoil to upper benches approx. 3 ac @ 6" = 2,420 LCY, max 700 LF haul w/ 966 loader
03b	Dozer	Spread topsoil 7 ac @ 6" = 5,647 LCY, avg push 150' w/ D7
04a	Reveg	Reseed 7 ac with 40% failure



		Fertilizer, disk, drill seed, power mulch and crimp, weed spray
05a	Mob	Initial Mobilization
05b	Mob	Secondary Mobilization

Per policy I wanted to send this out for review prior to issuance. Please look it over and let me know if there are errors or concerns. If no response is received by Monday, December 18, 2023 then I'll issue SI-2 as is. SI-2 will result in a total required bond amount of \$48,540, which is an increase of \$10,312.33 over the \$38,227.67 currently held.

Sincerely,



Amy Yeldell
Environmental Protection Specialist

Ec:
Travis Marshall, Senior EPS, Grand Junction DRMS
James Roberts, BLM