

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

1313 Sherman Street, Room 215 Denver, CO 80203

October 30, 2020

Dennis Schneider Miners Mall, LLC 3143 ½ Goldeneye Ave. Grand Junction CO 81504

RE: Humming Bird Mine, File No. M-2017-035, Amendment (AM-1) 110(1) Hard Rock Reclamation Permit, Application Adequacy Review 3

Dear Mr. Schneider:

The Division of Reclamation, Mining and Safety (Division) is in the process of reviewing the above referenced. During review of the material submitted, the Division determined that the following issue(s) of concern shall be adequately addressed before the application can be considered for approval. Red text indicates new items.

<u>Exhibit E</u>

- 1. Reclamation Maps Per Rule 6.3.5(2) (b) Indicate where vegetation (seeding) will not be established AND 6.3.5(2) (d) and (e) By project area state the average depth of overburden and topsoil to be replaced.
 - a. Acreages for seeding are not uniform throughout the application. Maps submitted in response to Adequacy Review 2 question #17 have a text box that states 0.03 ac. On PAR-1 response #23 it states that 0.8 ac to be seeded and that there are 0.42 ac of project areas (disturbances). All areas disturbed by mining shall be reclaimed. Please ensure values provided throughout the application are consistent. If areas are to not be seeded include a justification.

<u>Exhibit L</u>

All 200 foot Rules are based on the DRMS 1 ac permit boundary. The 200 foot buffer depicted on maps in Exhibit E appear to be based off of the 3.35 ac BLM claim boundary. This may result in additional features being identified.

- 2. Per Rule 6.3.12, Address any permanent man-made structure within two hundred (200) feet affected lands. If none exist explicitly state that.
 - a. Please provide the Division with documentation that Structure Agreements were sent.

Proof of mailing to Villard, Yates, CDOT, and Grand Valley Power received. No completed agreements received to date.



b. where such an agreement cannot be reached, the applicant shall provide an appropriate engineering evaluation that demonstrates that such structure shall not be damaged by activities occurring at the mining operation.

The engineering evaluation letter completed by Dennis Schneider on October 28, 2020 in response to Adequacy review #2- Question 8 was inadequate. The letter only included cursory statements rather than an engineering evaluation and does not meet the requirements of Rule 6.3.12 or 6.5. The application shall demonstrate through appropriate geotechnical and stability analyses that structures will not be affected. Additionally per Rule 6.5(3) the applicant shall demonstrate that off-site damages will not occur and the appropriate factor of safety (FOS) will be maintained.

Specifically the Division is concerned about potential impacts to CO HWY-141 throughout the mining operation. The Division is committed to ensuring the safety of the public at all times. In lieu of a completed structure agreement an engineering evaluation completed by a licensed engineer shall be submitted which demonstrates that structures will not be affected.

Reclamation Cost Estimate

The Division has included its reclamation cost estimate. In general if land is affected by mining in any way it becomes the Operators responsibility to reclaimed. At the end of the calculation is a sheet summarizing input values and sources.

The Divisions calculation is significantly higher than the Operators proposed cost. In an effort to decrease liability, the Operator may wish to phase the operation or limit disturbances within each project area at any given time. The total project liability could remain the same but if less land is affected at any given time, less bond could be required.

This application has a decision date of November 2, 2020. Please <u>request an extension</u> to the decision date to allow for more time to continue to address adequacy issues.

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

Sincerely,

Amy Geldell

Amy Yeldell Environmental Protection Specialist

Cc: Travis Marshall, Senior EPS, Grand Junction DRMS Eric Eckberg, BLM

COST SUMMARY WORK

Task description:	Update 2020 for	AM-1			
Site: Humming Bird Mine	Per	rmit Action: <u>AM-1</u>	Permit/Jol	o#: M2017035	
PROJECT IDENTIFICTask #:ACYDate:10/28/2020User:ACY	ATION State: County:	Colorado Mesa	Abbreviation: Filename:	None M035-ACY	

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

The sile		Form	Fleet	Task	
Task	Description	Used	Size	Hours	Cost
01a	Ridgetop Project-Place Rock in Pit	EXCAVATE	1	3.97	\$340
01b	Ridgetop Project-Place Soil in Pit	EXCAVATE	1	4.53	\$388
01c	Ridgetop Project-Reveg	REVEGE	1	8.00	\$1,918
01d	Ridgetop Project-Remove Safety Fence	DEMOLISH	1	8.00	\$269
02a	Siberia Project-Reveg	REVEGE	1	1.60	\$384
03a	Midway Project-Grade Rock Material	EXCAVATE	1	2.21	\$189
03b	Midway Project-Grade Soil Material	EXCAVATE	1	6.59	\$564
03c	Midway Project-Reveg	REVEGE	1	2.50	\$614
04a	Connector Project/Midway Portal-Reveg	REVEGE	1	1.00	\$77
05a	Purple Pipe Project-Reveg	REVEGE	1	1.00	\$77
06a	Unnamed Project-Reveg	REVEGE	1	1.00	\$153
07a	Site Wide-Public Safety Fence	DEMOLISH	1	16.00	\$1,718
07b	Fencing-Reveg	REVEGE	1	2.00	\$307
10a	Initial Mobilization	MOBILIZE	1	3.33	\$831
10b	Secondary Mobilization	MOBILIZE	1	0.66	\$53
		<u>SUBTO</u>	TALS:	62.39	\$7,882

Cost Summary Worksheet Cont'd	Task #	# ACY		Page 2 of 2
INDIRECT COSTS				
OVERHEAD AND PROFIT:				
Liability insurance:	2.02		Total =	\$159
Performance bond:	1.05		Total =	\$83
Job superintendent:	0.00		Total =	\$0
Profit:	10.00		Total =	\$788
			TOTAL O & $P =$	\$1,030
	CONT	RACT AMOUNT	(direct + O & P) =	\$8,912
LEGAL - ENGINEERING - PRO	IECT MANAGEMENT	`:		
Financial warranty processin	g (legal/related costs):	\$0	Total =	\$0
Engineering work and/or co		0.00	Total =	\$0
Reclamation management	and/or administration:	5.00	-	\$446
	CONTINGENCY:	0.00	Total =	\$0
		TOTAL IN	DIRECT COST =	\$1,476

TOTAL BOND AMOUNT (direct + indirect) = <u>\$9,358</u>

HYDRAULIC EXCAVATOR WORK

	Ridgetop Projec	1-1 lace Rock	A III PIL			
: Humming Bird Mine	Per	mit Action:	AM-1	Perm	it/Job#:	M2017035
PROJECT IDENTIFI	CATION					
Task #: 01A Date: 10/29/2020 User: ACY	State: County:	Colorado Mesa		Abbrevi File	ation: name:	None M035-01a
Agency or organi	ization name: DI	RMS				
HOURLY EQUIPME	NT COST					
	Cat 307D 7'-3" Sti ROPS Cab	ck	Wei	rsepower: ght (MT): nift Basis:		56 7.23 per day
			Dat	a Source:	((CRG)
Cost Breakdown: Ownership Cost/H Operating Cost/H	our: \$18.	64	Utilization % NA 100			
Operator Cost/H Total Unit Cost/H			NA			
Total Fleet Cost/H	Hour: \$85	.51				
MATERIAL QUANTIInitial volume:22Loose volume:22	5	CCY LCY	Swell factor:	1.000		
	f estimated volume:					
	imated swell factor:	Cat Hand	DOOK			
HOURLY PRODUCT						
Excavator Cycle Time (loa	au bucket, swillg loa	-		SEVERE		
	Secondary Job Co		ondition Description: in Basic Description:	SEVERE		•
Load Bucket Capacity			Cycle Time Value:	0.325		minutes
				icket Size Clas	s: <u>M</u>	edium
Rated Capacity: Bucket Fill Factor:	1.025		aped) arth Mixture (100%-1	05%) 1.025		
Adjusted Capacity:	0.71	LCY				
Adjusted Capacity: Job Condition Correction		_ LCY	Site Alt	itude: <u>6100</u> fee	t	
		_ LCY Source (CAT HE (1 shift/da multiplier	3) y)	itude: <u>6100</u> fee	t	
Job Condition Correction I Altitude Adj: Job Efficiency: Net Correction: Unac Ad	0.90 0.83	Source (CAT HE (1 shift/da multiplier Production: Production:	3) <u>y)</u> 75.69 56.54	itude: <u>6100</u> fee LCY/Hour LCY/Hour LCY/Hour LCY/Hour	t	
Job Condition Correction I Altitude Adj: Job Efficiency: Net Correction: Unac Ad	0.90 0.83 0.75 ljusted Hourly Unit ljusted Hourly Unit justed Hourly Fleet	Source (CAT HE (1 shift/da multiplier Production: Production:	3) <u>y)</u> 75.69 56.54	LCY/Hour LCY/Hour	t	
Job Condition Correction I Altitude Adj: Job Efficiency: Net Correction: Unac Ad	0.90 0.83 0.75 ljusted Hourly Unit ljusted Hourly Unit justed Hourly Fleet	Source (CAT HE (1 shift/da multiplier Production: Production: Production:	3) <u>y)</u> 75.69 56.54	LCY/Hour LCY/Hour	t	Hours

HYDRAULIC EXCAVATOR WORK

Task description:	Ridgetop Projec	t-Place Soil i	n Pit		
Humming Bird Mine	Per	mit Action:	AM-1	Perm	iit/Job#: <u>M2017035</u>
PROJECT IDENTIF	ICATION				
Task #: 01B Date: 10/29/2020 User: ACY	State: County:	Colorado Mesa		Abbrevi File	iation: <u>None</u> name: <u>M035-01b</u>
Agency or organ	nization name: D	RMS			
HOURLY EQUIPME	ENT COST				
Basic Machine: Attachment 1:	Cat 307D 7'-3" Sti ROPS Cab	<u>ck</u>	N	Horsepower: Weight (MT): Shift Basis: Data Source:	56 7.23 1 per day (CRG)
Cost Breakdown:		1			
Ownership Cost/I Operating Cost/I Operator Cost/I Total Unit Cost/I	Hour: \$18. Hour: \$46.	64 87	Utilization % NA 100 NA	-	
Total Fleet Cost/	Hour:\$85	.51			
Loose volume: 2	75 75 75 of estimated volume:	CCY LCY Rec Plan	Swell facto	or: <u>1.000</u>	
	timated swell factor:				
HOURLY PRODUC	ΓΙΟΝ				
Excavator Cycle Time (lo	oad bucket, swing loa	aded, dump b	ucket, swing emp	<u>ty):</u>	
Load Bucket Capacity	Secondary Job Co		ondition Descripti in Basic Descripti Cycle Time Va	ion: SEVERE	minutes
				Bucket Size Clas	ss: Medium
Rated Capacity Bucket Fill Factor Adjusted Capacity	r: 1.100	LCY (hea Other - ro LCY	nped) ock/dirt mixtures	(100-120%) 1.10	00
Job Condition Correction	Factors		Site	Altitude: 6100 fee	et
A	0.90 0.83 0.75 Idjusted Hourly Unit	Production:	<u>81.23</u> 60.68	LCY/Hour LCY/Hour	
	djusted Hourly Fleet	Production:	60.68	LCY/Hour	
JOB TIME AND CO					
Fleet size:	Excavat	or To	otal job time:	4.53	Hours
			tui job time.		

Task descript	tion:	Ridgetop Project-Reveg			
ite: Humming	g Bird Mine	Permit Action:	AM-1	Permit/Job	t: M2017035
<u>PROJECT I</u>	DENTIFIC	ATION			
Task #: _ Date:	01C 10/28/2020	State: <u>Colorado</u> County: Mesa		Abbreviation: Filename:	None M035-01c
User:	ACY				
User:		County: Mesa		Filename:	M

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
Hand raking (MEANS 32 91 13.23 0250)	\$1,459.26
Total Tilling Cost/Acre	\$1,459.26

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Paloma	3.70	11.98	\$41.16
Galleta	4.38	15.99	\$97.89
Western Wheatgrass - Arriba	5.52	13.94	\$35.88
Needle and Thread	6.06	16.00	\$253.61
Globemallow, Scarlet (or copper)	0.50	5.66	\$67.75
Basin Wildrye - Trailhead	6.06	24.62	\$93.38
Totals Seed Mix	26.22	88.19	\$589.68

Description	Cost /Acre
Broadcast seeding [DMG]	\$267.22
Total Seed Application Cost/Ac	ere \$267.22

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered {MEANS 31 25 14.16 1200}	0.50	TON	\$301.00	\$150.50
Total Mulch Materials Cost/Acre				\$150.50

Application

Description		Cost /Acre
Hand spread, 1" deep (MEANS 32 91 13.16 0200)		\$3,436.40
	Total Mulch Application Cost/Acre	\$3,436.40

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
Totals Nursery Stock Cost / Acre \$0.00				\$0.00	

	No. of Acres:	0.25	Cost /Acre:	\$5,903.06
Estimate	ed Failure Rate:	30%	Cost /Acre*:	\$5,903.06
*Selected Replanti	ng Work Items:	TILLING,SEEDI	G,MULCHING	
Initial Job Cost:	\$1 475 77			
Reseeding Job Cost:	/			
Total Job Cost:				
Job Hours:	8.00			

DEMOLITION WORK

Т	ask description:	Ridgetop Pi	oject-Remove S	Safety Fence		
Site:	Humming Bird Mine		Permit Action:	AM-1	Permit/.	Job#: <u>M2017035</u>
<u>PROJEC</u>	CT IDENTIFICATIO	N				
Task #: Date: User:	01D 10/29/2020 ACY	State: County:	Colorado Mesa		Abbreviation: Filename:	None M035-01d
	Agency or organiza	tion name:	DRMS			
UNIT CO	<u>osts</u>				Location adju	<u>stment: 90.70 %</u>

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Safety Fence 1	116 LF	Fencing, barbed wire, - 3	116.00	LF	\$1.57	\$182.12
		strand				
Safety Fence 2	73 LF	Fencing, barbed wire, - 3	73.00	LF	\$1.57	\$114.61
		strand				

				Total Cost	
		Subtotal		(adjusted for	
Job Hours:	8.00	(unadjusted):	\$296.73	location):	\$269.13

Task descr	iption:	Siberia Project-Reveg			
Site: Hummi	ng Bird Mine	Permit Action:	AM-1	Permit/Job	#: M2017035
PROJECT	<u> IDENTIFIC</u>	ATION			
Task #:	02A	State: Colorado		Abbreviation:	None
Date:	10/29/2020	County: Mesa		Filename:	M035-02a
User:	ACY				

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
Hand raking (MEANS 32 91 13.23 0250)	\$1,459.26
Total Tilling Cost/Acre	\$1,459.26

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Paloma	3.70	11.98	\$41.16
Galleta	4.38	15.99	\$97.89
Western Wheatgrass - Arriba	5.52	13.94	\$35.88
Needle and Thread	6.06	16.00	\$253.61
Globemallow, Scarlet (or copper)	0.50	5.66	\$67.75
Basin Wildrye - Trailhead	6.06	24.62	\$93.38
Totals Seed Mix	26.22	88.19	\$589.68

Description		Cost /Acre
Broadcast seeding [DMG]		\$267.22
	Total Seed Application Cost/Acre	\$267.22

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered {MEANS 31 25 14.16 1200}	0.50	TON	\$301.00	\$150.50
Total Mulch Materials Cost/Acre				\$150.50

Application

Description		Cost /Acre
Hand spread, 1" deep (MEANS 32 91 13.16 0200)		\$3,436.40
	Total Mulch Application Cost/Acre	\$3,436.40

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Totals	Nursery Stoc	k Cost / Acre	\$0.00

	No. of Acres: ed Failure Rate:	30%	Cost /Acre: Cost /Acre*:	
*Selected Replanti	ng Work Items:	TILLING,SEEDIN	IG,MULCHING	
Initial Job Cost:	\$295.15			
Reseeding Job Cost:	\$88.55			
Total Job Cost:	\$384			
Job Hours:	1.60			

HYDRAULIC EXCAVATOR WORK

Task description:	Midway Project-	Grade Rock	x Material		
Humming Bird Mine	Per	mit Action:	AM-1	Permit/Jo	b#: <u>M2017035</u>
PROJECT IDENTIFI	CATION				
Task #: 03A	State:	Colorado		Abbreviation	n: None
Date: 10/29/2020	County:	Mesa		Filename	e: M035-03a
User: ACY					
Agency or organi	zation name: DR	RMS			
HOURLY EQUIPMEN	NT COST				
Basic Machine:	Cat 307D 7'-3" Stie	ck	Но	orsepower:	56
Attachment 1:	ROPS Cab		We	ight (MT):	7.23
				hift Basis:	1 per day
			Da	ta Source:	(CRG)
Cost Breakdown:			Utilization %		
Ownership Cost/H	our: \$19.9	99	NA		
Operating Cost/H			100		
Operator Cost/H			NA		
Total Unit Cost/H					
Total Fleet Cost/H	Iour:\$85.	51			
MATERIAL QUANTI	TIES				
Initial volume: 12		CCY	Swell factor:	1.000	
Loose volume: 12	5	LCY			
Source of	estimated volume:	Rec Plan	PAR-1		
	mated swell factor:	Cat Hand			
HOURLY PRODUCT	ION				
			1		
Excavator Cycle Time (loa	•	-			
			ondition Description		
	Secondary Job Co	ondition with	in Basic Description		
			Cycle Time Value	: 0.325	minutes
Load Bucket Capacity					
				ucket Size Class:	Medium
Rated Capacity:	0.40	_ LCY (hea		1050() 1.005	
Bucket Fill Factor:	1.025		arth Mixture (100%-	105%) 1.025	
Adjusted Capacity:	0.41	LCY			
Job Condition Correction I	Factors		Site Al	titude: <u>6100</u> feet	
		Source			
Altitude Adj:	0.90	(CAT HE			
Job Efficiency:	0.83	(1 shift/da			
Net Correction:	0.75	multiplier			
	ljusted Hourly Unit		75.69	LCY/Hour	
	justed Hourly Unit		56.54	LCY/Hour	
Adj	justed Hourly Fleet	Production:	56.54	LCY/Hour	
JOB TIME AND COS	<u>T</u>				
Fleet size: 1	Excavate	or To	otal job time:	2.21	Hours
	-				
Unit cost: \$1.51	12 /LCY		Total job cost:	\$189	

HYDRAULIC EXCAVATOR WORK

Task description:	Midway Project	-Grade Soil I	Material		
Humming Bird Mine	Per	mit Action:	AM-1	Permit/Job#	: <u>M2017035</u>
PROJECT IDENTIFI	CATION				
Task #: 03B	State:	Colorado		Abbreviation:	None
Date: 10/29/2020	County:	Mesa		Filename:	M035-03b
User: ACY					
Agency or organ	ization name: DI	RMS			
HOURLY EQUIPME	NT COST				
	Cat 307D 7'-3" Sti	ck	Hor	sepower:	56
Attachment 1:	ROPS Cab		Weig	tht (MT):	7.23
			Sh	ift Basis: 1	per day
			Data	a Source: (CRG)
Cost Breakdown:		I			
Ownership Cest/	Hour: \$19.	00	Utilization % NA		
Ownership Cost/H Operating Cost/H			<u> </u>		
Operating Cost/H			 NA		
Total Unit Cost/H			11/1		
	·				
Total Fleet Cost/I		.51			
MATERIAL QUANT Initial volume: 40		CCY	Swell factor:	1.000	
Loose volume: 40		- LCY	Swell lactor.	1.000	
	70				
	of estimated volume:		PAR-1, Staff estimate	es 0.08ac @ 3ft	
Source of est	timated swell factor:	Cat Handl	book		
HOURLY PRODUCT	TION				
Excavator Cycle Time (lo		aded, dump b	ucket, swing empty):		
	<i>Q</i>	-	ondition Description:	SEVERE	
	Secondary Job Co		n Basic Description:	SEVERE	
	Secondary 500 Co	sharefold with	Cycle Time Value:	0.325	minutes
Load Bucket Capacity			Cycle Thile Value.	0.020	
<u></u>			Pu	cket Size Class: N	ledium
Data 1 Canaaita	0.40	LCV (has			Iculuiii
Rated Capacity: Bucket Fill Factor:		_ LCY (hea	·	0.120% 1 100	
Adjusted Capacity		LCY	ch/unt mixtures (10	0-120%) 1.100	
• • •					
Job Condition Correction	Factors		Site Alti	tude: <u>6100</u> feet	
A 14:44 A - A - A - A - A - A - A - A - A - A	0.00	Source	`		
Altitude Adj: Job Efficiency:	0.90 0.83	(CAT HB			
Net Correction:		(1 shift/day	<u>y)</u>		
net Correction:	0.75	multiplier			
	djusted Hourly Unit			.CY/Hour	
	djusted Hourly Unit			.CY/Hour	
Ac	ljusted Hourly Fleet	Production:	60.68 I	.CY/Hour	
JOB TIME AND COS	<u>5T</u>				
Fleet size: 1					
11000 51201	Excavat	or To	tal job time:	6.59	Hours
	Excavat	or To	tal job time:	6.59 \$564	Hours

Task descri	ption:	Midway Project-Reveg			
te: Hummin	g Bird Mine	Permit Action:	AM-1	Permit/Job	#: <u>M2017035</u>
PROJECT	IDENTIFIC	ATION			
Task #:	03C	State: Colorado		Abbreviation:	None
Date:	10/29/2020	County: Mesa		Filename:	M035-03c
User:	ACY				

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
Hand raking (MEANS 32 91 13.23 0250)	\$1,459.26
Total Tilling Cost/Acre	\$1,459.26

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Paloma	3.70	11.98	\$41.16
Galleta	4.38	15.99	\$97.89
Western Wheatgrass - Arriba	5.52	13.94	\$35.88
Needle and Thread	6.06	16.00	\$253.61
Globemallow, Scarlet (or copper)	0.50	5.66	\$67.75
Basin Wildrye - Trailhead	6.06	24.62	\$93.38
Totals Seed Mix	26.22	88.19	\$589.68

Description	Cost /Acre
Broadcast seeding [DMG]	\$267.22
Total Seed Application Cost/Ac	ere \$267.22

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered {MEANS 31 25 14.16 1200}	0.50	TON	\$301.00	\$150.50
Total Mulch Materials Cost/Acre				\$150.50

Application

Description		Cost /Acre
Hand spread, 1" deep (MEANS 32 91 13.16 0200)		\$3,436.40
	Total Mulch Application Cost/Acre	\$3,436.40

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
Totals Nursery Stock Cost / Acre					\$0.00

	No. of Acres:	0.08	Cost /Acre:	\$5,903.06
Estimate	ed Failure Rate:	30%	Cost /Acre*:	\$5,903.06
*Selected Replanti	ng Work Items:	TILLING,SEEDIN	G,MULCHING	
Initial Job Cost:	\$172.21			
Reseeding Job Cost:				
Total Job Cost:	\$614			
Job Hours:	2.50			

Т	ask descrip	otion:	Connector Project/Midway I	Portal-Reveg		
Site:	Hummin	g Bird Mine	Permit Action:	AM-1	Permit/Job#:	M2017035
<u>PI</u>	ROJECT	IDENTIFIC	CATION			
	Task #: Date:	04A 10/29/2020	State: Colorado County: Mesa			None 1035-04a
	User:	ACY				
	Age	ency or organiz	zation 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
Hand raking (MEANS 32 91 13.23 0250)	\$1,459.26
Total Tilling Cost/Acre	\$1,459.26

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Paloma	3.70	11.98	\$41.16
Galleta	4.38	15.99	\$97.89
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Needle and Thread	6.06	16.00	\$253.61
Globemallow, Scarlet (or copper)	0.50	5.66	\$67.75
Basin Wildrye - Trailhead	6.06	24.62	\$93.38
Totals Seed Mix	26.22	88.19	\$589.68

Description	Cost /Acre
Broadcast seeding [DMG]	\$267.22
Total Seed Application Cost/Ac	ere \$267.22

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered {MEANS 31 25 14.16 1200}	0.50	TON	\$301.00	\$150.50
Total Mulch Materials Cost/Acre				\$150.50

Application

Description		Cost /Acre
Hand spread, 1" deep (MEANS 32 91 13.16 0200)		\$3,436.40
	Total Mulch Application Cost/Acre	\$3,436.40

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Totals	Nursery Stoc	k Cost / Acre	\$0.00

Estimat	No. of Acres: ed Failure Rate:		Cost /Acre: Cost /Acre*:	
		TILLING,SEEDI		<i>••••••••</i>
Initial Job Cost:	\$59.03			
Reseeding Job Cost:	\$17.71			
Total Job Cost:	\$77			
Job Hours:	1.00			

Task desc	ription:	Purple Pipe Project-Reveg			
ite: Humming Bird Mine		Permit Action:	AM-1	Permit/Job	o#: <u>M2017035</u>
	<u>r identific</u>				
Task #		State: Colorado		Abbreviation:	None
Date	10/29/2020	County: Mesa		Filename:	M035-05a
	ACY				

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
Hand raking (MEANS 32 91 13.23 0250)	\$1,459.26
Total Tilling Cost/Acre	\$1,459.26

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Paloma	3.70	11.98	\$41.16
Galleta	4.38	15.99	\$97.89
Western Wheatgrass - Arriba	5.52	13.94	\$35.88
Needle and Thread	6.06	16.00	\$253.61
Globemallow, Scarlet (or copper)	0.50	5.66	\$67.75
Basin Wildrye - Trailhead	6.06	24.62	\$93.38
Totals Seed Mix	26.22	88.19	\$589.68

Description		Cost /Acre
Broadcast seeding [DMG]		\$267.22
,	Total Seed Application Cost/Acre	\$267.22

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered {MEANS 31 25 14.16 1200}	0.50	TON	\$301.00	\$150.50
Total Mulch Materials Cost/Acre				\$150.50

Application

Description		Cost /Acre
Hand spread, 1" deep (MEANS 32 91 13.16 0200)		\$3,436.40
	Total Mulch Application Cost/Acre	\$3,436.40

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Totals	Nursery Stoc	k Cost / Acre	\$0.00

Estimat	No. of Acres: ed Failure Rate:		Cost /Acre: Cost /Acre*:	
		TILLING,SEEDI		<i>••••••••</i>
Initial Job Cost:	\$59.03			
Reseeding Job Cost:	\$17.71			
Total Job Cost:	\$77			
Job Hours:	1.00			

Task description:		Unnamed Project-Reveg			
ite: Humming Bird Mine		Permit Action:	AM-1	Permit/Job	#: M2017035
PROJECT	<u>IDENTIFIC</u>	ATION			
Task #:	06A	State: Colorado		Abbreviation:	None
Date:	10/29/2020	County: Mesa		Filename:	M035-06a
User:	ACY				

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
Hand raking (MEANS 32 91 13.23 0250)	\$1,459.26
Total Tilling Cost/Acre	\$1,459.26

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Paloma	3.70	11.98	\$41.16
Galleta	4.38	15.99	\$97.89
Western Wheatgrass - Arriba	5.52	13.94	\$35.88
Needle and Thread	6.06	16.00	\$253.61
Globemallow, Scarlet (or copper)	0.50	5.66	\$67.75
Basin Wildrye - Trailhead	6.06	24.62	\$93.38
Totals Seed Mix	26.22	88.19	\$589.68

Description	Cost /Acre
Broadcast seeding [DMG]	\$267.22
Total Seed Application Cost/Ac	ere \$267.22

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered {MEANS 31 25 14.16 1200}	0.50	TON	\$301.00	\$150.50
Total Mulch Materials Cost/Acre				\$150.50

Application

Description		Cost /Acre
Hand spread, 1" deep (MEANS 32 91 13.16 0200)		\$3,436.40
	Total Mulch Application Cost/Acre	\$3,436.40

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Totals	Nursery Stoc	k Cost / Acre	\$0.00

Estimat	No. of Acres: ed Failure Rate:		_ Cost /Acre: Cost /Acre*:	
*Selected Replanti	ng Work Items:	TILLING,SEEDI	NG,MULCHING	
Initial Job Cost:	\$118.06			
Reseeding Job Cost:	\$35.42			
Total Job Cost:	\$153			
Job Hours:	1.00			

DEMOLITION WORK

]	Task description:	Site Wide-P	ublic Safety Fe	nce		
Site:	Humming Bird Mine		Permit Action:	AM-1	Permit/.	Job#: <u>M2017035</u>
<u>PROJE</u>	CT IDENTIFICATIO	N				
Task #:	07A	State:	Colorado		Abbreviation:	None
Date:	10/29/2020	County:	Mesa		Filename:	M035-07a
User:	ACY					
	Agency or organiza	tion name:	DRMS			

UNIT COSTS

Location adjustment: 90.70 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Upper Fence	498 LF	Fencing, barbed wire, - 3 strand	498.00	LF	\$1.57	\$781.86
Lower Fence	204 LF	Fencing, barbed wire, - 3 strand	204.00	LF	\$1.57	\$320.28
Disposal of fence-All	1325 LF	Dump fees - Building construction materials.	10.00	CY	\$11.10	\$111.00
New SW Public Fence	288 LF	Fencing, barbed wire, - 3 strand	288.00	LF	\$1.57	\$452.16
New SE Public Fence	146 LF	Fencing, barbed wire, - 3 strand	146.00	LF	\$1.57	\$229.22

				Total Cost	
		Subtotal		(adjusted for	
Job Hours:	16.00	(unadjusted):	\$1,894.52	location):	\$1,718.33

Task descri	ption:	Fencing-Reveg			
te: Hummir	ng Bird Mine	Permit Action:	AM-1	Permit/Job#	t: <u>M2017035</u>
PROJECT	IDENTIFIC	ATION			
Task #:	07B	State: Colorado		Abbreviation:	None
Date:	10/29/2020	County: Mesa		Filename:	M035-07b
User:	ACY				

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
Hand raking (MEANS 32 91 13.23 0250)	\$1,459.26
Total Tilling Cost/Acre	\$1,459.26

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Paloma	3.70	11.98	\$41.16
Galleta	4.38	15.99	\$97.89
Western Wheatgrass - Arriba	5.52	13.94	\$35.88
Needle and Thread	6.06	16.00	\$253.61
Globemallow, Scarlet (or copper)	0.50	5.66	\$67.75
Basin Wildrye - Trailhead	6.06	24.62	\$93.38
Totals Seed Mix	26.22	88.19	\$589.68

Description	Cost /Acre
Broadcast seeding [DMG]	\$267.22
Total Seed Application Cost/Ac	ere \$267.22

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered {MEANS 31 25 14.16 1200}	0.50	TON	\$301.00	\$150.50
Total Mulch Materials Cost/Acre				\$150.50

Application

Description		Cost /Acre
Hand spread, 1" deep (MEANS 32 91 13.16 0200)		\$3,436.40
	Total Mulch Application Cost/Acre	\$3,436.40

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Totals	Nursery Stoc	k Cost / Acre	\$0.00

	No. of Acres:	0.04	Cost /Acre:	\$5,903.06
Estimate	ed Failure Rate:	30%	Cost /Acre*:	\$5,903.06
*Selected Replanti	ng Work Items:	TILLING,SEEDIN	G,MULCHING	
	\$226.12			
Initial Job Cost:	\$236.12			
Reseeding Job Cost:	\$70.84			
Total Job Cost:	\$307			
Job Hours:	2.00			

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description		tial Mobilization					
: Humming Bi	ird Mine	Permit	Action: <u>AM-1</u>	l	I	Permit/Job#:	M2017035
PROJECT IDI	ENTIFICATI	ON					
Task #: 10)A	State: Co	olorado		Abbre	viation: No	ne
	0/29/2020		esa)35-10a
User: A	CY						
Agency	or organization	n name: DRMS					
EQUIPMENT	TRANSPOR	<u>T RIG COST</u>					
					Shift ba	sis: 1 per	dav
				(Cost Data Sour		
Tru	ck Tractor Desc	ription: GENE	RIC ON-HIGH	WAY TRU	CK TRACTC	OR, 6X4, DIES	EL POWERED,
				400 HP	(2ND HALF,	2006)	
	ck Trailer Desc		ENERIC FOLD	400 HP ING GOO	(2ND HALF, SENECK, DR	2006) ROP DECK EQ	QUIPMENT
			ENERIC FOLD	400 HP ING GOO	(2ND HALF,	2006) ROP DECK EQ	UIPMENT
	ck Trailer Desc		ENERIC FOLD	400 HP ING GOO	(2ND HALF, SENECK, DR	2006) ROP DECK EQ	QUIPMENT
Tru Cost Breakdown:	ck Trailer Desc		ENERIC FOLD	400 HP DING GOO FRAILER	(2ND HALF, SENECK, DR	2006) ROP DECK EQ	QUIPMENT
Tru Cost Breakdown: Available Rig (ck Trailer Desc	ription: G	ENERIC FOLD	400 HP DING GOO TRAILER 51+	(2ND HALF, SENECK, DR (25T, 50T, AN	2006) ROP DECK EQ	QUIPMENT
Tru <u>Cost Breakdown:</u> Available Rig Ownersh Operatir	ck Trailer Desc Capacities ip Cost/Hour: ng Cost/Hour:	ription: Gl	ENERIC FOLD 7 26-50 Tons \$29.63 \$47.02	400 HP PING GOO FRAILER 51+ \$3 \$5	(2ND HALF, SENECK, DR (25T, 50T, AN Tons 8.69 5.69	2006) ROP DECK EQ	QUIPMENT
Tru Cost Breakdown: Available Rig Ownersh Operatir Operato	ck Trailer Desc Capacities ip Cost/Hour: ng Cost/Hour: or Cost/Hour:	ription: Gl	ENERIC FOLD 7 26-50 Tons \$29.63 \$47.02 \$23.63	400 HP PING GOO FRAILER 51+ \$3 \$5 \$2	(2ND HALF, SENECK, DR (25T, 50T, AN Tons 8.69 5.69 3.63	2006) ROP DECK EQ	QUIPMENT
Tru Cost Breakdown: Available Rig Ownersh Operatir Operate Help	ck Trailer Desc Capacities ip Cost/Hour: ng Cost/Hour: or Cost/Hour: er Cost/Hour:	ription: Gl	ENERIC FOLD 7 26-50 Tons \$29.63 \$47.02 \$23.63 \$23.53	400 HP PING GOO TRAILER 51+ \$3 \$5 \$2 \$2 \$2	(2ND HALF, SENECK, DR (25T, 50T, AN Tons 8.69 5.69 3.63 3.53	2006) ROP DECK EQ	QUIPMENT
Tru Cost Breakdown: Available Rig Ownersh Operatir Operate Help	ck Trailer Desc Capacities ip Cost/Hour: ig Cost/Hour: or Cost/Hour:	ription: Gl	ENERIC FOLD 7 26-50 Tons \$29.63 \$47.02 \$23.63	400 HP PING GOO TRAILER 51+ \$3 \$5 \$2 \$2 \$2	(2ND HALF, SENECK, DR (25T, 50T, AN Tons 8.69 5.69 3.63	2006) ROP DECK EQ	QUIPMENT
Tru <u>Cost Breakdown:</u> Available Rig Ownersh Operatir Operator Help Total Ur	ck Trailer Desc Capacities ip Cost/Hour: ng Cost/Hour: or Cost/Hour: er Cost/Hour: hit Cost/Hour:	ription: Gl	ENERIC FOLD 7 26-50 Tons \$29.63 \$47.02 \$23.63 \$23.53	400 HP PING GOO TRAILER 51+ \$3 \$5 \$2 \$2 \$2	(2ND HALF, SENECK, DR (25T, 50T, AN Tons 8.69 5.69 3.63 3.53	2006) ROP DECK EQ	QUIPMENT
Tru Cost Breakdown: Available Rig Ownersh Operatir Operate Help	ck Trailer Desc Capacities ip Cost/Hour: ng Cost/Hour: or Cost/Hour: er Cost/Hour: hit Cost/Hour:	ription: Gl	ENERIC FOLD 7 26-50 Tons \$29.63 \$47.02 \$23.63 \$23.53	400 HP PING GOO TRAILER 51+ \$3 \$5 \$2 \$2 \$2	(2ND HALF, SENECK, DR (25T, 50T, AN Tons 8.69 5.69 3.63 3.53	2006) ROP DECK EQ	QUIPMENT
Tru <u>Cost Breakdown:</u> Available Rig Ownersh Operatir Operator Help Total Ur	ck Trailer Desc Capacities ip Cost/Hour: ng Cost/Hour: or Cost/Hour: er Cost/Hour: hit Cost/Hour:	ription: Gl	ENERIC FOLD 7 26-50 Tons \$29.63 \$47.02 \$23.63 \$23.53	400 HP PING GOO TRAILER 51+ \$3 \$5 \$2 \$2 \$2	(2ND HALF, SENECK, DR (25T, 50T, AN Tons 8.69 5.69 3.63 3.53	2006) ROP DECK EQ ND 100T)	DOT Permit
Tru Cost Breakdown: Available Rig Ownersh Operatir Operato Help Total Ur NON ROADA	ck Trailer Desc Capacities ip Cost/Hour: or Cost/Hour: or Cost/Hour: er Cost/Hour: it Cost/Hour: BLE EQUIPN Weight/ Unit	0-25 Tons \$17.20 \$26.56 \$23.63 \$0.00 \$67.39	ENERIC FOLD 7 26-50 Tons \$29.63 \$47.02 \$23.63 \$23.53 \$123.81	400 HP PING GOO TRAILER 51+ \$3 \$5 \$2 \$2 \$2 \$1	(2ND HALF, SENECK, DR (25T, 50T, AN 7005 8.69 5.69 3.63 3.53 41.54 Haul Trip Cost/hr/	2006) ROP DECK EQ ND 100T)	DOT Permit
Tru Cost Breakdown: Available Rig Ownersh Operatir Operator Help Total Ur NON ROADA Machine Description	ck Trailer Desc Capacities ip Cost/Hour: or Cost/Hour: or Cost/Hour: er Cost/Hour: it Cost/Hour: BLE EQUIPN Weight/ Unit (TONS)	ription: Gl 0-25 Tons \$17.20 \$26.56 \$23.63 \$0.00 \$67.39 MENT: Owner ship Cost/hr/ unit	ENERIC FOLD 26-50 Tons \$29.63 \$47.02 \$23.63 \$23.53 \$123.81 Haul Rig Cost/hr/uni t	400 HP FING GOO FRAILER 51+ \$3 \$5 \$2 \$2 \$2 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1	(2ND HALF, SENECK, DR (25T, 50T, AN (25T, 50T, AN)(25T, AN (25T, 50T, AN	2006) COP DECK EQ ND 100T) Return Trip Cost/hr/ flee	t DOT Permit t Cost/ fleet
Tru Cost Breakdown: Available Rig (Ownersh Operatir Operator Help Total Ur NON ROADA Machine	ck Trailer Desc Capacities ip Cost/Hour: or Cost/Hour: or Cost/Hour: er Cost/Hour: it Cost/Hour: BLE EQUIPN Weight/ Unit	0-25 Tons \$17.20 \$26.56 \$23.63 \$0.00 \$67.39 MENT: Owner ship	ENERIC FOLD 26-50 Tons \$29.63 \$47.02 \$23.63 \$23.53 \$123.81 Haul Rig Cost/hr/uni	400 HP PING GOO TRAILER 51+ \$3 \$5 \$2 \$2 \$1 \$1 Fleet	(2ND HALF, SENECK, DR (25T, 50T, AN 7005 8.69 5.69 3.63 3.53 41.54 Haul Trip Cost/hr/	2006) ROP DECK EQ ND 100T)	DOT Permit

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Flatbed Truck, 4x2, 15K GVW	\$79.68	1	\$79.68	\$79.68
		Subtotals:	\$79.68	\$79.68

1

EQUIPMENT HAUL DISTANCE and Time

GRAND JUNCTION 15.00 45.00	miles mph
\$777.94	
\$53.12	_
	15.00 45.00 \$777.94

Transportation Cycle Time:

Roadable
Equipment
0.33
0.33
NA
NA
0.67

JOB TIME AND COST

Total job time: **3.33** Hours

Total job cost: _______\$831_____

EQUIPMENT MOBILIZATION/DEMOBILIZATION

	ask description:	Sec	ondary Mobilizat	tion					
: _	Humming Bir	d Mine	Permit	Action: <u>AM-</u>	1	F	Permit/Job#	#: <u>M2</u>	017035
PR	OJECT IDE	NTIFICATI	<u>ON</u>						
	Task #:10Date: $10/$ User: AC	/29/2020		olorado esa			viation: _ lename: _	None M035-	10b
	Agency	or organization	n name: DRMS						
EQ	UIPMENT 7	FRANSPOR	T RIG COST						
					C	Shift bas Cost Data Sour		per day RG Data	
	Truc	k Tractor Desc	ription: GENE	RIC ON-HIGH		CK TRACTO (2ND HALF, 2		IESEL	POWERED,
	Truc	k Trailer Desc	ription: G	ENERIC FOLD	DING GOO		OP DECK	EQUI	PMENT
Cos	st Breakdown:								
Α	vailable Rig C		0-25 Tons	26-50 Tons		Tons			
		o Cost/Hour:	\$17.20	\$29.63		8.69			
		g Cost/Hour:	\$26.56	\$47.02		5.69			
		r Cost/Hour:	\$23.63	\$23.63		3.63			
Helper Cost/Hour:			\$0.00	\$23.53		3.53			
				¢102.01	¢1.				
	Total Uni	t Cost/Hour:	\$67.39	\$123.81	پ 12	41.54			
NC	Total Uni		· · · ·	\$123.61	\$12	1.54			
			· · · ·	Haul Rig	Fleet	Haul Trip	Return T		
N	ON ROADAB	SLE EQUIPN Weight/ Unit	MENT:			Haul Trip Cost/hr/	Return T Cost/hr/		DOT Permit Cost/ fleet
N	DN ROADAB Iachine	BLE EQUIPM	MENT: Owner ship	Haul Rig Cost/hr/uni	Fleet	Haul Trip		fleet	

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Flatbed Truck, 4x2, 15K GVW	\$79.68	1	\$79.68	\$79.68
		Subtotals:	\$79.68	\$79.68

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region: Total one-way travel distance: Average Travel Speed:	GRAND JUNCTION 15.00 45.00	miles mph
Total Non-Roadable Mob/Demob Cost *	\$0.00	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$53.12	_

Transportation Cycle Time:

	Non- Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.33	0.33
Return Time (Hours):	0.33	0.33
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.67	0.67

JOB TIME AND COST

Total job time: **0.67** Hours

Total job cost: _____\$53



1313 Sherman Street, Room 215 Denver, CO 80203

October 30, 2020

RE: Hummingbird Mine, Permit No. M-207-035, AM-1 Reclamation Cost Estimate

Dear Mr. Schneider:

This reclamation cost update was in response to the amendment application (AM-1) which was submitted on August 25, 2020 and a previous site inspection conducted on October 20, 2020. There have been no surety increases since the permit issuance in 2017. 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 that have been updated in AM-1. 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.

Task	Form Used	Description
01a	Excavate	Ridgetop Project- Place rock in Pit PAR Rec Plan states 225 CY of waste rock stockpiled
01b	Excavate	Ridgetop Project- Place Soil in Pit PAR Rec Plan states 275 CY of soil material stockpiled
01c	Reveg	Ridgetop Project – Reveg PAR Question 23, actual disturbance is 0.25 ac per PAR Mine Plan 30% failure, Hand rake (rip), Broadcast (hand seed), mulch spread by hand 1"
01d	Demo	Ridgetop Project – Remove Safety Fence Per PAR Mine Map (and provided KML link) upper/west fence 116 LF and lower/east fence 73 LF.



		No option for smooth wire in CIRCES, used available 3 wire option. Off-site disposal under task 07a
02a	Reveg	Siberia Project – Reveg PAR Question 23, actual disturbance is 0.05 ac per PAR Mine Plan (portal and support area) 30 % failure, Hand rake (rip), Broadcast (hand seed), mulch spread by hand 1"
03a	Excavate	Midway Project – Grade Rock Material PAR Rec Plan states 125 CY of waste rock stockpiled, roughly equal to 0.08 ac @ 1 ft
03b	Excavate	Midway Project – Grade Soil Material PAR Rec Plan states 750 CY of soil material stockpiled, Used 400 CY (0.08 ac @ 3 ft) realistically needed to contour site
03c	Reveg	Midway Project – Reveg PAR Question 23, actual disturbance is 0.08 ac per PAR Mine Plan 30 % failure, Hand rake (rip), Broadcast (hand seed), mulch spread by hand 1"
04a	Reveg	Connector Project / Midway Portal – Reveg PAR Question 23, actual disturbance is 0.01 ac per PAR Mine Plan 30 % failure, Hand rake (rip), Broadcast (hand seed), mulch spread by hand 1"
05a	Reveg	Purple Pipe Project – Reveg PAR Question 23, actual disturbance is 0.01 ac per PAR Mine Plan 30 % failure, Hand rake (rip), Broadcast (hand seed), mulch spread by hand 1"
06a	Reveg	Unnamed Project – Reveg PAR Question 23, actual disturbance is 0.02 ac per PAR Mine Plan 30 % failure, Hand rake (rip), Broadcast (hand seed), mulch spread by hand 1"
07a	Demo	Site Wide – Public Safety Fence Per adequacy response #2. Upper fence 498 LF, lower fence 204 LF, New SW public safety fence 288 LF, New SE public safety fence 146 LF.

		Disposal of all fencing 1325 LF, volume approx. 10 CY dump fee only
07b	Reveg	Site Wide – Fencing Reveg Per adequacy response #2, 1250 LF, 18" wide, fence affects 0.04 ac
10a	Mob	Initial Mobilization CAT 307 used for grading work. All reclamation work is by hand. Flatbed truck to bring supplies to and form site
10b	Mob	Secondary Mobilization For reclamation failure work only. All reclamation work is by hand. Flatbed truck to bring supplies to and form site
Indirect	Costs	DRMS Standard Overhead Costs: Liability insurance, performance bond, profit and administration No Job supervisor on 110. No engineering required, cash bond.

Please feel free to contact me with any further questions. Amy Yeldell at the Division of Reclamation, Mining and Safety, 1313 Sherman St., Room 215, Denver, CO 80203. Direct contact can be made by phone at 303-866-3567 Ext 8183 or via email at amy.yeldell@ state.co.us

Sincerely,

Amy Geldell

Amy Yeldell Environmental Protection Specialist

Ec: Travis Marshall, Senior EPS, Grand Junction DRMS Eric Ekberg, BLM