

February 23, 2021

Randy Snare Snare Construction, Inc 13619 County Road 1 Florissant, CO 80816

RE: Reclamation Cost Estimate, 110c Construction Materials Application Snare Construction, Inc. and Materials, File No. M-2020-055

Dear Mr. Snare,

On February 22 and 23, 2021, the Division of Reclamation, Mining, and Safety (Division) received your responses to the Division's February 18, 2021 Adequacy Review of your 110c permit application for the operation known as Snare Construction, Inc. and Materials, File No. M-2020-055. The Division has reviewed your adequacy review responses and has determined you have addressed all adequacy items.

The Division has calculated the total required financial warranty for the site to be \$6,600.00. A copy of the reclamation cost summary is attached for the Applicant's review. Please contact me prior to the decision date to discuss any questions regarding the cost estimate or if you identify any errors with this calculation. The application can be approved on or before February 25, 2021.

If you need additional information or have any questions, please contact me at Division of Reclamation, Mining and Safety, 1313 Sherman Street, Room 215, Denver, CO 80203, by telephone at **303-866-3567 x8132**, or by email at elliott.russell@state.co.us.

Sincerely,

Elliott R. Russell

Environmental Protection Specialist

Enclosure: Reclamation Cost Estimate M2020055

ec: Jason Musick with DRMS, jason.musick@state.co.us



COST SUMMARY WORK

Site:	Snare Construction, Inc and Materials	Permit Action: New Application M2020055		on	Permit/Job#: M2020055	
<u>Pl</u>	ROJECT IDENTIFICATIO	<u>N</u>				
	Task #: 000	State: Colorad)	1	Abbreviation:	None
	Date: 2/22/2021	County: Teller			Filename:	M055-000
	II EDD					
T	User: ERR Agency or organization n ASK LIST (DIRECT COSTS					
			Form Used	Fleet Size	Task Hours	Cost
ask	Agency or organization n ASK LIST (DIRECT COSTS	<u></u>				Cost \$654
ask 01	Agency or organization n ASK LIST (DIRECT COSTS Description	<u>S)</u>	Used DOZERGRA		Hours	
ask 01	Agency or organization n ASK LIST (DIRECT COST) Description Minor Grading of Permit Are	a Eastern Slope	Used DOZERGRA DER		Hours 2.50	\$654
T/ask 01 02 03 04	Agency or organization n ASK LIST (DIRECT COSTS Description Minor Grading of Permit Are Load/Carry Growth Media to	Eastern Slope	Used DOZERGRA DER LOADER	Size 1	2.50 8.51	\$654 \$739

INDIRECT COSTS

OVERHEAD AND PROFIT:

2.02 \$112 Liability insurance: Total = Performance bond: 1.05 Total = \$58 0.00 Total = \$0 Job superintendent: \$555 Profit: 10.00 Total =

TOTAL O & $P = \sqrt{725}$

CONTRACT AMOUNT (direct + O & P) = 6,272

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): \$0 Total = \$0 Engineering work and/or contract/bid preparation: 0.00 Total = \$0 Reclamation management and/or administration: 5.00 \$314

CONTINGENCY: 0.00 Total = \$0

TOTAL INDIRECT COST = \$1,039

TOTAL AMOUNT (direct + indirect) = \$6,586

TOTAL BOND AMOUNT (rounded) = \$6,600

DOZERGRADER WORK

Snare Construction, I Materials	Inc and Per	rmit Action:	New Application M2020055	Permit/Job#:	M2020055
PROJECT IDENTIF	<u>TCATION</u>				
Task #: 001	State:	Colorado		Abbreviation:	None
Date: 2/22/2021	County:	Teller		Filename:	M055-001
User: ERR	<u> </u>			-	
Agency or orga	nization name: D	RMS			
Agency of orga	inzation name. D	KWIS			
HOURLY EQUIPME	ENT COST				
HOUKLI EQUIFMI	ENT COST				
	t D8T - 8SU				
Horsepower:					
Blade Type:					
	shank ripper		<u> </u>		
	er day		<u> </u>		
Data Source:			<u></u>		
Cost Breakdown:					
Cost Breakdown:			Utilization %		
		\$116.22	<u>Utilization %</u> NA		
Cost Breakdown: Ownership Cost/Hour: Operating Cost/Hour:		\$116.22 \$89.77			
Ownership Cost/Hour:			NA		
Ownership Cost/Hour: Operating Cost/Hour:		\$89.77	NA 100	_	
Ownership Cost/Hour: Operating Cost/Hour: Ripper own. Cost/Hour:		\$89.77 \$12.00	NA 100 NA		
Ownership Cost/Hour: Operating Cost/Hour: Ripper own. Cost/Hour: Ripper op. Cost/Hour:	\$261.58	\$89.77 \$12.00 \$2.29	NA 100 NA 25		

Fleet size: 1 Dozer(s)
Unit cost: \$261.58/LCY

Total job time: 2.50 Hours
Total job cost: \$654

WHEEL LOADER – LOAD AND CARRY WORK

Snare Constructi : Materials	on, Inc and	Permit Acti	New App M202005		Permit	t/Job#:	M2020055
PROJECT IDEN	TIFICATION	I					
Task #: 002 Date: 2/22/2		State: Color County: Teller			Abbrevia Filen	_	None M055-002
User: ERR						_	
Agency or	organization na	ne: DRMS					
		Т					
HOURLY EQUI		<u> </u>					
Basic Machir			_	Horsep Shift			28
Attachment	1: KOPS Ca)	_	Data S			er day RG)
Coot Decaledos				Data S	<u></u>	(0	KO)
Cost Breakdown:			Utilizatio	on %			
Ownership C	Cost/Hour:	\$20.95	NA				
Operating C		\$25.17	100				
Operator C		\$40.71	NA				
Total Unit C	Cost/Hour:	\$86.82					
Total Fleet	Ca a4/II a	ΦΩ <i>C</i> Ω 2					
i otai i icct	Jost/Hour:	\$86.82					
Total Freet		\$80.82					
MATERIAL QUA		\$80.82					
		\$86.82	Y Sw	ell factor: 1	.215		
MATERIAL QU	ANTITIES	cc [,]		ell factor: 1	.215	_	
MATERIAL QUA Initial volume: Loose volume:	ANTITIES 1,000 1,21	CCY	7	ell factor: 1	.215	<u> </u>	
MATERIAL QUA Initial volume: Loose volume: Sou	1,000	CC\ 5 LCY LVOlume: App		ell factor: 1	215	_	
MATERIAL QUA Initial volume: Loose volume: Sou	ANTITIES 1,000 1,21 arce of estimated	CC\ 5 LCY LVOlume: App	/ lication	ell factor: 1	.215		
MATERIAL QUA Initial volume: Loose volume: Sou	1,000 1,21 arce of estimated sw	CC\ 5 LCY LVOlume: App	/ lication	ell factor: 1	.215	_	
MATERIAL QUA Initial volume: Loose volume: Source	1,000 1,21 arce of estimated of estimated sw	CCY 5 LCY l volume: App Cat	/ lication Handbook			75	minutes
MATERIAL QUA Initial volume: Loose volume: Source HOURLY PROD Loader Cycle Time:	1,000 1,21 arce of estimated sw UCTION Unadjus	CC\ 5 LCY LVOlume: App	/ lication Handbook		0.4		_
MATERIAL QUA Initial volume: Loose volume: Source HOURLY PROD Loader Cycle Time: Cycle Time:	1,000 1,21 arce of estimated sw UCTION Unadjus Factors	5 CCN LCY I volume: App ell factor: Cat	Ilication Handbook Time (load, dum		0.4 Factor (mi		Source
MATERIAL QUA Initial volume: Loose volume: Source HOURLY PROD Loader Cycle Time: M	1,000 1,21 arce of estimated sw UCTION Unadjus Factors aterial: Mate	CCY 5 LCY l volume: App Cat	lication Handbook Time (load, dum	p, maneuver):	0.4		Source (Cat HB)
MATERIAL QUA Initial volume: Loose volume: Source HOURLY PROD Loader Cycle Time: M	1,000 1,21 arce of estimated sw UCTION Unadjus Factors aterial: Mate ckpile: Conv	CCY LCY I volume: App Cat ted Basic Cycle T	lication Handbook Time (load, dum iameter -0.02 ed 10 ft. high or	ip, maneuver):	0.4 Factor (mi -0.020		Source
MATERIAL QUA Initial volume: Loose volume: Source HOURLY PROD Loader Cycle Time: Cycle Time: M Sto Truck Own	1,000 1,21 arce of estimated sw UCTION Unadjus Factors aterial: Mate ckpile: Convership: No acration: No acratical section (No acratica	CCN LCY I volume: App ell factor: Cat ted Basic Cycle Tell rial 1/8" to 3/4" de eyor or dozer pile ljustment - factor djustment - factor	lication Handbook Cime (load, dum iameter -0.02 ed 10 ft. high or not applicable	less 0.01	0.4 Factor (mi -0.020 0.010 0.000 0.000		Source (Cat HB) (Cat HB) (Cat HB) (Cat HB)
MATERIAL QUA Initial volume: Loose volume: Source HOURLY PROD Loader Cycle Time: Cycle Time: M Sto Truck Own	1,000 1,21 arce of estimated sw UCTION Unadjus Factors aterial: Mate ckpile: Convership: No acration: No acratical section (No acratica	CCN LCY I volume: App ell factor: Cat ted Basic Cycle T rial 1/8" to 3/4" d eyor or dozer pile ljustment - factor djustment - factor nal target 0.00	lication Handbook Time (load, dum iameter -0.02 ed 10 ft. high or not applicable r not applicable	less 0.01 0.00 0.00	0.4 Factor (mi -0.020 0.010 0.000 0.000		Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)
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MATERIAL QUA Initial volume: Loose volume: Source HOURLY PROD Loader Cycle Time: Cycle Time: M Sto Truck Own	1,000 1,21 arce of estimated sw UCTION Unadjustaterial: Mate ckpile: Convership: No ac ration: No a rarget: Nomi	ted Basic Cycle Trial 1/8" to 3/4" deyor or dozer pile ljustment - factor djustment - factor nal target 0.00	lication Handbook Time (load, duminameter -0.02 and 10 ft. high or not applicable or not applicable at Cycle Time A	less 0.01 0.00 0.00 djustment:	0.4 Factor (mi -0.020 0.010 0.000 0.000 -0.010		Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
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MATERIAL QUA Initial volume: Loose volume: Source HOURLY PROD Loader Cycle Time: Cycle Time: M Sto Truck Own Ope Dump	1,000 1,21 arce of estimated sw UCTION Unadjust Factors Mate ckpile: Convership: No action:	cCN LCY I volume: App ell factor: Cat ted Basic Cycle T rial 1/8" to 3/4" d eyor or dozer pile ljustment - factor djustment - factor nal target 0.00 Ne Ad	lication Handbook Time (load, dum iameter -0.02 ed 10 ft. high or not applicable or not applicable et Cycle Time A djusted Basic C	less 0.01 0.00 0.00 djustment: ycle Time:	0.4 Factor (mi -0.020 0.010 0.000 0.000 -0.010 0.465		Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
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MATERIAL QUA Initial volume: Loose volume: Source HOURLY PROD Loader Cycle Time: Cycle Time: M Sto Truck Own Ope Dump	1,000 1,21 arce of estimated sw UCTION Unadjus Factors aterial: Mate ckpile: Convership: No ac ration: No ac ration: No ac ration: No months Road Condition Idual: Rutted durn: Rutted and	ted Basic Cycle Trial 1/8" to 3/4" deyor or dozer pile ljustment - factor al target 0.00 Ne Ans lirt, little mainten lirt, little mainten	lication Handbook Time (load, dum iameter -0.02 ed 10 ft. high or not applicable r not applicable et Cycle Time A djusted Basic C	less 0.01 0.00 0.00 djustment: ycle Time: 1" tire penetra 1" tire penetra	0.4 Factor (mi -0.020 0.010 0.000 0.000 -0.010 0.465 ation 4.0	n.)	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
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MATERIAL QUA Initial volume: Loose volume: Source HOURLY PROD Loader Cycle Time: Cycle Time: M Sto Truck Own Ope Dump	1,000 1,21 arce of estimated sw UCTION Unadjus Factors aterial: Mate ckpile: Convership: No ac ration: No ac ration: No ac ration: No months Road Condition Idual: Rutted durn: Rutted and	ted Basic Cycle Trial 1/8" to 3/4" deyor or dozer pile ljustment - factor al target 0.00 Ne Ans lirt, little mainten lirt, little mainten	lication Handbook Time (load, dum iameter -0.02 ed 10 ft. high or not applicable r not applicable et Cycle Time A djusted Basic C	less 0.01 0.00 0.00 djustment: ycle Time: 1" tire penetra 1" tire penetra	0.4 Factor (mi -0.020 0.010 0.000 0.000 -0.010 0.465 ation 4.0	rime es)	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes

			Total Travel Total Cycle T		minutes minutes
Load Bucket Capacity					
Rated Capaci Bucket Fill Facto Adjusted Capaci	or: 1.100	LCY (heape Other - rock	ed) k/dirt mixtures	(100-120%) 1.100	
Job Condition Correction Site Altitude: 8580 feet	· -				
		Source			
Altitude Adj:	1.00	(CAT HB)			
Job Efficiency:	0.83	(1 shift/day)			
Net Correction:	0.83	multiplier			
Uı	nadjusted Hourly Un	it Production:	171.97	LCY/Hour	
	Adjusted Hourly Un	it Production:	142.73	LCY/Hour	
1	Adjusted Hourly Flee	et Production: _	142.73	LCY/Hour	
JOB TIME AND CO	<u>OST</u>				
Fleet size:	1 Loader(s	s) 1	Γotal job time:	8.51	Hours

Total job cost: \$739

Unit cost: _____\$0.608 /LCY

BULLDOZER WORK

Snare Construct	tion, Inc and	Per	mit Action:	New Application	D	M2020055
Materials				M2020055	Permit/Job#:	M2020055
PROJECT IDEN	JTIFICATI	ON				
	ITTICATI					
Task #: 003		State:	Colorado		Abbreviation:	None
Date: 2/22/2	2021	County:	Teller		Filename:	M055-003
User: ERR						
Agency or	organization	name: DI	RMS			
HOURLY EQUI	PMENT CO	<u>OST</u>				
Basic Machine:	Cat D8T - 8	8SU				
Horsepower:	310	020		_		
Blade Type:	Semi-Univ	ersal				
Attachment:	3-shank rip			<u>—</u>		
Shift Basis:	1 per day	per		<u>—</u>		
Data Source:	(CRG)					
	(6116)			<u> </u>		
Cost Breakdown:				Utilization %		
Overnanshin Cost/II	[o.,.m.		¢116 22			
Ownership Cost/H			\$116.22	NA 100		
Operating Cost/H			\$89.77	100		
Ripper own. Cost/H			\$12.00	NA O		
Ripper op. Cost/H			\$0.00	0		
Operator Cost/H	lour:		\$41.30	NA		
MATERIAL QU						
Initial Volume:	1,000					
Swell factor:	1.215					
Loose volume:	1,215 LCY					
Source of estimated	volume:	Applicati	Ωn			
Source of estimated						
HOUDI V DDOI	NICTION					
HOURLY PROI Average push distan		60 feet				
Unadjusted hourly p		1,246.9 LC	Y/hr			
Materials consisten	cy description	: Loose	stockpile 1.2			
Average push gradi						
Average site altitud	e: <u>8,580</u>	feet				
Material weight:	1,600	lbs/LCY				
Weight description:		Soil				
	rator Skill:		.750	Source (AVG.)		
Material co		1.	.200	(CAT HB)		
D. 1	ng method:	1	000	(GFN)		

Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	0.298	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.2561

Adjusted unit production: 319.33 LCY/hr
Adjusted fleet production: 319.33 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.812/LCY

Total job time: 3.80 Hours
Total job cost: \$987

REVEGETATION WORK

Task desc	cription: Plant	Reclamati	on Seed Mix	xture o	n Eastern S	lope		
Snare Materi	Construction, Inc and	Per	rmit Action:		Application 20055		Permit/Job#	#: <u>M2020055</u>
	T IDENTIFICATIO							
Task # Date User	2/22/2021	State: County:	Colorado Teller RMS					None M055-004
ERTIL		<u> </u>	4112					
Materials								
Descri	ption		Uı Ac	nits / ere	Unit	Cost	/ Unit	Cost /Acre
						\$		\$
						Tota	l Fertilizer Materials Cost/Acre	\$0.00
Descri	ption							Cost /Acre
				Total	Fertilizer A	Application	Cost/Acre	\$0.00
<u> </u>	<u>;</u>							
Descri	ption							Cost /Acre
								\$
					Т	otal Tilling	Cost/Acre	\$0.00
SEEDIN	<u>G</u>							
Seed M	Iix					Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Alsike						0.30	4.68	\$1.15
	nin Brome - Bromar					6.00	9.64	\$22.80
Orchar	dgrass - Potomac					3.00	37.19	\$12.80

Ryegrass, Perennial - Belramo

Sandberg Bluegrass - VNS

Rye, Winter - VNS

Timothy - Climax

6.00

4.20

6.00

4.50

34.02

89.19

2.48

129.13

\$10.80

\$35.28

\$3.21

\$7.20

\$232.00

Totals Seed Mix	30.00	306.34	\$93.23
			Cost /Acre
			\$232.00
	Totals Seed IVIIX	Totals Seed IVIX 30.00	Totals Seed IVIX 30.00 300.34

Total Seed Application Cost/Acre

MULCHING and MISCELLANEOUS

Materials

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

Application

Description	Cost /Acre
	\$
Total Mulch Application Cost/Acre	\$0.00

NURSERY STOCK PLANTING

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

JOB TIME AND COST

No. of Acres: 2.4 Cost /Acre: \$325.23
Estimated Failure Rate: 25% Cost /Acre*: \$325.23

*Selected Replanting Work Items: SEEDING

Initial Job Cost: \$780.55

Reseeding Job Cost: \$195.14

Total Job Cost: \$976

Job Hours: 2.00

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description: Mob/Demob of Reclamation Equipment

Snare Construction, Inc and Permit Action: New Application

Site: Materials M2020055 Permit/Job#: M2020055

PROJECT IDENTIFICATION

Task #:005State:ColoradoAbbreviation:NoneDate:2/22/2021County:TellerFilename:M055-005

User: ERR

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:	\$17.20	\$29.63	\$38.69
Operating Cost/Hour:	\$26.56	\$47.02	\$55.69
Operator Cost/Hour:	\$23.63	\$23.63	\$23.63
Helper Cost/Hour:	\$0.00	\$23.53	\$23.53
Total Unit Cost/Hour:	\$67.39	\$123.81	\$141.54

NON ROADABLE EQUIPMENT:

Machine	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return Trip	DOT Permit
Description	Unit	Cost/hr/ unit	Cost/hr/uni	Size	Cost/hr/	Cost/hr/ fleet	Cost/ fleet
_	(TONS)		t		fleet		
CAT 924H	12.69	\$20.95	\$67.39	1	\$88.34	\$67.39	\$250.00
Cat D8T - 8SU	53.08	\$128.22	\$141.54	1	\$269.76	\$141.54	\$250.00
Drill/Broadcast	25.00	\$6.72	\$67.39	1	\$74.11	\$67.39	\$250.00
Seeder with							
Tractor							

Subtotals: \$432.21 \$276.32 \$750.00

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	\$121.96	1	\$121.96	\$121.96

Subtotals: \$121.96 \$121.96

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region: WOODLAND PARK

Total one-way travel distance: 15.60 miles

Average Travel Speed: 50.00 mph

Transportation Cycle Time:

	Non-		
	Roadable	Roadable	
	Equipment	Equipment	
Haul Time (Hours):	0.31	0.31	
Return Time (Hours):	0.31	0.31	
Loading Time (Hours):	0.10	NA	
Unloading Time (Hours):	0.10	NA	
Subtotals:	0.82	0.62	

JOB TIME AND COST

Total job cost: 1.65 Hours

Total job cost: \$2,191