

Simmons - DNR, Leigh <leigh.simmons@state.co.us>

M2024023, Brown Quarry Application, Reclamation Cost Estimate

Simmons - DNR, Leigh <leigh.simmons@state.co.us>

Mon, Aug 11, 2025 at 3:05 PM

To: Robert Congdon <defiancestone11@gmail.com>

Cc: "Cocina, Brittany A" <bcocina@blm.gov>, Amy Eschberger - DNR <amy.eschberger@state.co.us>, Ben Langenfeld <benl@lewicki.biz>, Jessica King <jess@lewicki.biz>

Robert,

The Division's Reclamation Cost Estimate (RCE) is attached. The RCE includes indirect costs required by the BLM in addition to those required by the Division, I have also attached a letter signed by Larry Sandoval in 2019 explaining these costs.

Leigh Simmons

Environmental Protection Specialist



COLORADO

Division of Reclamation,
Mining and Safety

Department of Natural Resources

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2 attachments



M2024023_BrownQuarry_RCE_2.pdf 1197K



20190604_BLM_RCEreview_V2.pdf 348K

COST SUMMARY WORK

Та	ask description:	Site-wide reclam	ation cost o	estimate for Brow	n Quarı	ry	
Site: _	Brown Quarry	Per	mit Action:	Application		Permit/Job	p#: <u>M2024023</u>
PR	OJECT IDENTIFIC	CATION					
	Task #: 000	State:	Colorado			Abbreviation:	None
	Date: 7/16/2025	County:	Eagle			Filename:	M023-000
	User: LDS						
	Agency or organi	zation name: DR	MS				
<u>TA</u>	SK LIST (DIRECT	COSTS)					
		-		Form	Fleet	Task	
Гask	Description			Used	Size	Hours	Cost
001	Pre-reclamation demo	olition tasks		DEMOLISH	1	40.00	\$2,610
002	Rip and regrade yard	JIII WORD		DOZER	1	5.31	\$1,870
002	Topsoil yard			DOZER	1	1.38	\$454
		m. 000000 mod 1			-		
004	Rip and regrade quar			DOZER	l 1	7.45	\$2,625
005	Topsoil quarry access			DOZER	l 1	1.95	\$638
006	Create 2' high mound	s with 4:1 slope on	quarry	EXCAVATE	1	43.35	\$6,421
	benches				4 .		
007	Remove and regrade	rock check dam		EXCAVATE	1	0.16	\$24
800	Revegetate yard			REVEGE	1	16.00	\$1,979
009	Revegetate quarry ac			REVEGE	1	24.00	\$3,364
010	Revegetate quarry an	d rock check dam a	rea	REVEGE	1	40.00	\$10,093
)11	Post-reclamation den	nolition		DEMOLISH	1	16.00	\$831
)12	Mobilize all equipme	nt		MOBILIZE	1	6.40	\$3,855
				SUBTO	OTALS:	202	\$34,764
	DIRECT COSTS	т.					
<u> </u>	ERHEAD AND PROFI	<u>.1 .</u>					
	Liability insurar						702
	Performance bo						365
	*BLM req. total of 1.					Total = \$	156
		DC:					
	Job superintend						7,588
	Pro	ofit: 10.00					3,476
							12,132
			CONT	RACT AMOUNT	(direct +	$- O \& P) = _{\$2}$	47,052
LE	GAL - ENGINEERING	- PROJECT MANA	AGEMENT	:			
	Financial warranty pr	ocessing (legal/rela	ted costs):	\$500		Total = \$5	500
	Engineering work an			4.25	_		2,000
	Reclamation manag			5.00	_		2,353
		*BLM req. total of 1		5.00	_		2,353 2,353
		rbLM req. totat of 1 Treq. management o	, ,	2.10	_		730
	DEM		.031 (20).		=	- Φ	
		CONTIN	IGENCY:	3.00		Total = \$1	1,043
	*	BLM req. total of 1		7.00			2,433
			~ (DC).	/.00		1 σται ψ2	.,

TOTAL INDIRECT COST = \$23,700

TOTAL BOND AMOUNT (direct + indirect) = \$58,464

DEMOLITION WORK

T	ask description:	Pre-reclam	ation demolition	ı tasks		
Site:	Brown Quarry		Permit Action:	Application	Permit/.	Job#: M2024023
	CT IDENTIFICATION	_			A11 ' 4'	N
Γask #:	001	State:	Colorado		Abbreviation:	
Date:	7/29/2025	County:	Eagle		Filename:	M023-001
Date.						

UNIT COSTS

Location adjustment: 86.90 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Utility box and powerline	1 box	Powerline or utility line - Structural Steel Box Type Frame Structure Dismantle and Dispose	1.00	EA	\$2,309.00	\$2,309.00
Remove access road culvert	3 x 18" x 25'	Pipe, corrugated metal (CMP) - 18 in. diameter pipe	75.00	LF	\$6.54	\$490.58
Load water tanks, culverts, miscellaneous material	18 CY	Loading only, open areas (unconfined) - Track loader	18.00	CY	\$0.86	\$15.41
Haul water tanks, culverts, miscellaneous material to nearest landfill	18 CY	Hauling only, per mile, 12-18 CY truck - 30 mph average speed	12.00	MI	\$10.41	\$124.96
Remove temporary office structure	1	Bldg. (SN) demo./off- site disposal in approved landfill - Max. 15 mile haul	150.00	CF	\$0.43	\$63.95

				Total Cost	
		Subtotal		(adjusted for	
Job Hours:	40.00	(unadjusted):	\$3,003.90	location):	\$2,610.39

BULLDOZER WORK

Task description:	Rip an	d regrade yard			
: Brown Quarry		Permit Action:	Application	Permit/Job#:	M2024023
PROJECT IDEN	TIFICATIO	<u>N</u>			
Task #: 002		State: Colorado		Abbreviation:	None
Date: 8/10/2	2025	County: Eagle		Filename:	M023-002
User: LDS		·		-	
Agency or	organization na	ame: DRMS			
HOURLY EQUI	PMENT COS	<u>ST</u>			
Basic Machine:	Cat D8T - 8S	U	<u></u>		
Horsepower:	310				
Blade Type:	Semi-Univers		<u> </u>		
Attachment:	3-shank rippe	er			
Shift Basis:	1 per day				
Data Source:	(CRG)		<u> </u>		
Cost Breakdown:					
			<u>Utilization %</u>		
Ownership Cost/H		\$179.60	NA 100		
Operating Cost/H		\$110.45	100		
Ripper own. Cost/H		\$15.28	NA 100		
Ripper op. Cost/H		\$9.14	100		
Operator Cost/H	our:	\$38.02	NA		
Total unit Cost/Hou					
Total Fleet Cost/Ho	ur: \$352.49	1			
MATERIAL QU	ANTITIES				
Initial Volume:	1,613				
Swell factor:	1.000				
Loose volume:	1,613 LCY				
Source of estimated	volume:	Division of Reclamat	ion, Mining & Safety		
Source of estimated	swell factor:	Cat Handbook			
HOURLY PROD	<u>OUCTION</u>				
Average push distar	nce: 1	00 feet			
Unadjusted hourly p		52.6 LCY/hr			
Materials consistence	ey description:	Consolidated stock	pile 1.0		
Average push gradie					
Average site altitude	e: <u>7,130 fe</u>	eet			
Material weight:	2,900 18	os/LCY		_	
Weight description:	Decom	oosed rock - 50% Rock	, 50% Earth		
Job Condition Corre			Source		
	rator Skill:	0.750	(AVG.)		
Material co		1.000	(CAT HB)		
Dozir	ng method:	1.000	(GEN.)		
	Visibility:	1.000	(AVG.)		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	0.903	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3566

Adjusted unit production: 304.04 LCY/hr
Adjusted fleet production: 304.04 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$1.159/LCY

Total job time: 5.31 Hours
Total job cost: \$1,870

BULLDOZER WORK

Task description:	Topsoil ya	ard			
Brown Quarry		Permit Action:	Application	Permit/Job#:	M2024023
PROJECT IDEN	NTIFICATION				
Task #: 003		State: Colorado		Abbreviation:	None
Date: $8/10/$	2025 Co	ounty: Eagle		Filename:	M023-003
User: LDS				-	
Agency of	r organization name	e: DRMS			
HOURLY EQUI	IPMENT COST				
Basic Machine:	Cat D8T - 8SU		<u> </u>		
Horsepower:	310		<u> </u>		
Blade Type:	Semi-Universal		<u> </u>		
Attachment: Shift Basis:	NA 1 per day		<u> </u>		
Data Source:	(CRG)				
Cost Breakdown:					
	.	015 0.60	<u>Utilization %</u>		
Ownership Cost/I		\$179.60	NA 100		
Operating Cost/F Ripper own. Cost/F		\$110.45 \$0.00	100 NA		
Ripper op. Cost/F		\$0.00	100		
Operator Cost/F		\$38.02	NA		
MATERIAL QU Initial Volume: Swell factor: Loose volume:	403 1.000 403 LCY				
Source of estimated Source of estimated HOURLY PROI	DUCTION nce: 100	at Handbook feet	ion, Mining & Safety		
Unadjusted hourly	·	6 LCY/hr			
Materials consisten	_	Consolidated stock	pile 1.0		
Average push gradi Average site altitud					
Material weight:	2,650 lbs/L	.CY		_	
Weight description	: Decompos	ed rock - 25% Rock	, 75% Earth		
Job Condition Corr	ection Factor erator Skill:	0.750	Source (AVG.)		
	onsistency:	1.000	(CAT HB)		
	ng method:	1.000	(GEN.)		
	Visibility:	1.000	(AVG.)		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.700	(FND-MF)
Push gradient:	0.903	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.868	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3415

Adjusted unit production: 291.16 LCY/hr
Adjusted fleet production: 291.16 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$1.127/LCY

Total job time: 1.38 Hours
Total job cost: \$454

BULLDOZER WORK

Task description:	Rip a	nd regrade	quarry acco	ess road		
: Brown Quarry		Pern	mit Action:	Application	Permit/Job#:	M2024023
PROJECT IDEN	NTIFICATIO	<u>ON</u>				
Task #: 004		State:	Colorado		Abbreviation:	None
Date: $\frac{8/10}{2}$	2025	County:	Eagle		Filename:	M023-004
User: LDS		o o unity t			_	111020 00.
Agency or	r organization 1	name: DR	RMS			
HOURLY EQUI						
Basic Machine:	Cat D8T - 8					
Horsepower:	310			_		
Blade Type:	Semi-Unive	rsal				
Attachment:	3-shank ripp	oer		<u> </u>		
Shift Basis:	1 per day					
Data Source:	(CRG)			<u> </u>		
Cost Breakdown:						
				<u>Utilization %</u>		
Ownership Cost/H	Iour:		\$179.60	NA		
Operating Cost/H			\$110.45	100		
Ripper own. Cost/H	Hour:		\$15.28	NA		
Ripper op. Cost/H	Hour:		\$9.14	100		
	т		#20.02	NT A		
Operator Cost/E	iour:		\$38.02	NA		
•		40	\$38.02	NA		
Total unit Cost/Hou	ır: \$352.4		\$38.02	NA		
Total unit Cost/Hou Total Fleet Cost/Ho	\$352.4 sur: \$352.4		\$38.02	INA		
Total unit Cost/Hou	\$352.4 sur: \$352.4		\$38.02	INA		
Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume:	\$352.4 Sur: \$352.4 \$352.4 \$352.4 \$2,742		\$38.02	INA		
Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor:	\$352.4 \$352.4 \$352.4 VANTITIES 2,742 1.000 2,742 LCY	19	 of Reclamati	on, Mining & Safety		
Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated	\$352.4 \$352.4 \$352.4 \$352.4 \$2,742 \$1.000 \$2,742 LCY \$1 volume: \$1 swell factor:	Division o	 of Reclamati			
Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated	\$352.4 \$352.4 \$352.4 \$352.4 \$352.4 \$2,742 1.000 2,742 LCY 1 volume: 1 swell factor:	Division o	 of Reclamati			
Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated	\$352.4 \$352.4 \$352.4 \$352.4 \$352.4 \$2,742 1.000 2,742 LCY 1 volume: 1 swell factor: DUCTION nce:	Division o	of Reclamati			
Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROI Average push distant	\$352.4 Sur: \$352.4 \$352.4 \$352.4 \$2,742 1.000 2,742 LCY 1 volume: 1 swell factor: DUCTION nce: production:	Division of Cat Hand 50 feet 1,400.0 LC	of Reclamati	on, Mining & Safety		
Total unit Cost/Hou Total Fleet Cost/Hou Total Fleet Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated Source of estimated HOURLY PROI Average push distant Unadjusted hourly programmed to the cost of the co	\$352.4 Sur: \$352.4 \$352.4 \$352.4 \$2,742 1.000 2,742 LCY I volume: I swell factor: DUCTION nce: production:	Division of Cat Hand 50 feet 1,400.0 LC	of Reclamati book	on, Mining & Safety		
Total unit Cost/Hou Total Fleet Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated Source of estimated HOURLY PROI Average push distant Unadjusted hourly publications. Average push gradient Average push gradient Source of estimated Source push distant Unadjusted hourly push gradient Source Sourc	\$352.4 \$352.4 \$352.4 \$352.4 \$352.4 \$2,742 1.000 2,742 LCY I volume: I swell factor: DUCTION nce: production: cy description: dent: ent: 6,950	Division of Cat Hand 50 feet 1,400.0 LC	of Reclamati book	on, Mining & Safety		
Total unit Cost/Hou Total Fleet Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated Source of estimated HOURLY PROI Average push distant Unadjusted hourly push Materials consistent Average push gradi Average site altitud	\$352.4 \$352.4 \$352.4 \$352.4 \$352.4 UANTITIES 2,742 1.000 2,742 LCY I volume: I swell factor: DUCTION nce: production: cy description: det: 6,950 2,900	Division of Cat Hand 50 feet 1,400.0 LC Consolidation of Cat Hand	of Reclamati book Y/hr idated stocky	on, Mining & Safety		
Total unit Cost/Hou Total Fleet Cost/Hou Total Fleet Cost/Hou Total Fleet Cost/Hou MATERIAL QUE Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated Source of estimated HOURLY PROI Average push distant Unadjusted hourly publicated Materials consistent Average push gradic Average site altitud Material weight: Weight description:	\$352.4 \$352.4 \$352.4 \$352.4 \$352.4 \$2,742 \$1.000 \$2,742 LCY I volume: I swell factor: DUCTION nce: production: cy description: det: \$15 \% 6,950 \$2,900 \$E Decomposition:	Division of Cat Hand 50 feet 1,400.0 LC Consolidate feet lbs/LCY	of Reclamati book Y/hr idated stocky	on, Mining & Safety only 1.0 bile 1.0		
Total unit Cost/Hou Total Fleet Cost/Hou Total Fleet Cost/Hou Total Fleet Cost/Hou MATERIAL QUE Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated Source of estimated HOURLY PROI Average push distant Unadjusted hourly publicated Materials consistent Average push gradin Average site altitude Material weight: Weight description: Job Condition Corrections	\$352.4 \$352.4 \$352.4 \$352.4 \$352.4 \$2,742 \$1.000 \$2,742 LCY I volume: I swell factor: DUCTION nce: production: cy description: det: \$\frac{15 \%}{6,950}\$ \$\frac{2,900}{2,900}\$ Example Contents Content	Division of Cat Hand 50 feet 1,400.0 LC Consol feet lbs/LCY nposed rock	of Reclamati book Y/hr idated stocky	on, Mining & Safety only Safety only Safety only Safety		
Total unit Cost/Hou Total Fleet Cost/Hou Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated Fleet	\$352.4 \$352.4 \$352.4 \$352.4 \$352.4 \$2,742 \$1.000 \$2,742 LCY I volume: I swell factor: DUCTION nce: production: cy description: det: \$15 \% 6,950 \$2,900 \$E Decomposition:	Division of Cat Hand 50 feet 1,400.0 LC Console feet lbs/LCY mposed rock 0.	of Reclamati book Y/hr idated stocky	on, Mining & Safety only 1.0 bile 1.0		
Total unit Cost/Hou Total Fleet Cost/Hou Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated Fleet	\$352.4 \$352.4 \$352.4 \$352.4 \$352.4 \$2,742 \$1.000 \$2,742 LCY \$1 volume: \$1 swell factor: DUCTION nce: production: cy description: det: \$15 % \$6,950 \$2,900 \$1 Deconsection Factor crator Skill:	Division of Cat Hand 50 feet 1,400.0 LC Consolidation feet lbs/LCY nposed rock 0. 1.	of Reclamati book Y/hr idated stocky - 50% Rock	on, Mining & Safety onle 1.0 50% Earth Source (AVG.)		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	0.666	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.2630

Adjusted unit production: 368.20 LCY/hr
Adjusted fleet production: 368.2 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.957/LCY

Total job time: 7.45 Hours
Total job cost: \$2,625

BULLDOZER WORK

Task description:	Tops	oil quarry a	ccess road			
: Brown Quarry		Per	mit Action:	Application	Permit/Job#:	M2024023
PROJECT IDE	NTIFICATION	<u>ON</u>				
Task #: 005		State:	Colorado		Abbreviation:	None
	/2025	County:	Eagle		Filename:	M023-005
User: LDS		,			-	
Agency o	or organization	name: DI	RMS			
HOURLY EQU	IPMENT CO	OST				
Basic Machine:						
Horsepower:				<u> </u>		
Blade Type:		ersal		<u></u>		
Attachment:				<u> </u>		
Shift Basis: Data Source:						
	(CKG)			<u> </u>		
Cost Breakdown:						
0 1: 0 4/			¢170.60	<u>Utilization %</u>		
Ownership Cost/l			\$179.60 \$110.45	NA 100		
Ripper own. Cost/l			\$110.43	NA		
Ripper op. Cost/			\$0.00	100		
Operator Cost/			\$38.02	NA		
Initial Volume: Swell factor:	686 1.000					
Loose volume:	686 LCY		<u> </u>			
Source of estimate Source of estimate		Division Cat Hand		ion, Mining & Safety		
HOURLY PRO	DUCTION					
Average push dista Unadjusted hourly		50 feet 1,400.0 LC	V/h			
,	_	,				
Materials consister	•	: <u>Consol</u>	idated stock	pile 1.U		
Average push grad Average site altitud		feet	_			
Material weight:	_2,650	lbs/LCY			_	
Weight description	i: Decoi	nposed rock	- 25% Rock	, 75% Earth		
Job Condition Cor	rection Factor erator Skill:	n	.750	Source (AVG.)		
	consistency:		.000	(CAT HB)		
	ing method:		.000	(GEN.)		
_ 52	Visibility:		.000	(AVG.)		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.700	(FND-MF)
Push gradient:	0.666	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.868	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.2519

Adjusted unit production: 352.66 LCY/hr
Adjusted fleet production: 352.66 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.930/LCY

Total job time: 1.95 Hours
Total job cost: \$638

HYDRAULIC EXCAVATOR WORK

Task description:	Create 2' hi	·5·····	Julius With	4.1 Slope on qua	arry de	inches		
Brown Quarry		Perm	nit Action:	Application		Permit	/Job#:	M2024023
PROJECT IDENTIFI	<u>ICATION</u>							
Task #: 006 Date: 8/10/2025 User: LDS	St Cou	tate: _ nty: _	Colorado Eagle			Abbrevia Filena	_	None M023-006
Agency or organ	nization name:	DR	MS					
HOURLY EQUIPME	ENT COST							
Basic Machine: Attachment 1:	Cat 315D L 8 ROPS Cab	'-6" St	tick		Weigh Shif	epower: t (MT): t Basis:	1′ 1 pc	7.32 er day
Cost Breakdown:			1	174:1:4: 0/	Data i	Source:	<u>(C</u>	(RG)
Ownership Cost/H	Hour:	\$56.3	8	Utilization % NA				
Operating Cost/F	Hour:	\$32.4	2	100				
Operator Cost/F		\$59.3		NA				
Total Unit Cost/F	lour:	\$148.1	.1					
Total Fleet Cost/	Hour:	\$148.	11					
	421		LCY					
	of estimated vol timated swell fa		Division Cat Han	of Reclamation,	Mining	& Safety		
Source of est	timated swell fa				Mining	& Safety		
Source of est HOURLY PRODUCT	timated swell fa	actor:	Cat Han	dbook		& Safety		
Source of est	timated swell fa	actor: ng loac	Cat Han	dbook bucket, swing em	pty):	·		
Source of est HOURLY PRODUCT	timated swell fa FION pad bucket, swir	nctor:	Cat Han led, dump Basic Job (dbook bucket, swing em Condition Descrip	pty):	AVERAGE		
Source of est HOURLY PRODUCT	timated swell fa FION pad bucket, swir	nctor:	Cat Han led, dump Basic Job (dbook bucket, swing em Condition Descrip hin Basic Descrip	pty): otion:	AVERAGE AVERAGE		minutes
Source of est HOURLY PRODUCT Excavator Cycle Time (lo	timated swell fa FION pad bucket, swir	nctor:	Cat Han led, dump Basic Job (dbook bucket, swing em Condition Descrip	pty): otion:	AVERAGE		minutes
Source of est HOURLY PRODUCT Excavator Cycle Time (lo Load Bucket Capacity	timated swell fa FION and bucket, swir Secondary Jo	nctor:	Cat Han led, dump Basic Job (ndition with	dbook bucket, swing em Condition Descrip hin Basic Descrip Cycle Time V	pty): tion: _ tion: _ alue: _	AVERAGE AVERAGE		minutes
Source of est HOURLY PRODUCT Excavator Cycle Time (lo	timated swell far FION and bucket, swin Secondary Journal : 0.80 : 1.100	nctor: ng load l ob Con	Cat Han ded, dump Basic Job Candition with	dbook bucket, swing em Condition Descrip hin Basic Descrip Cycle Time V	pty): tion: tion: alue: Buck	AVERAGE AVERAGE 0.256		
Source of est HOURLY PRODUCT Excavator Cycle Time (lo Load Bucket Capacity Rated Capacity Bucket Fill Factor	secondary Jo Secondary Jo 1.100 1.100 1.008	nctor: ng load l ob Con	Cat Han ded, dump Basic Job C ndition with LCY (he	bucket, swing em Condition Descrip hin Basic Descrip Cycle Time V caped)	pty): otion: tion: alue: Buck	AVERAGE AVERAGE 0.256 cet Size Class:		
Source of est HOURLY PRODUCT Excavator Cycle Time (lo Load Bucket Capacity Rated Capacity Bucket Fill Factor Adjusted Capacity Job Condition Correction	secondary Jo Secondary Jo 1.100 1.100 1.008	nctor: ng load l ob Cor	Cat Han ded, dump Basic Job C ndition with LCY (he	bucket, swing em Condition Descrip hin Basic Descrip Cycle Time V caped) cock/dirt mixtures	pty): otion: tion: alue: Buck	AVERAGE AVERAGE 0.256 set Size Class: -120%) 1.100		
Source of est HOURLY PRODUCT Excavator Cycle Time (lo Load Bucket Capacity Rated Capacity Bucket Fill Factor Adjusted Capacity Job Condition Correction Altitude Adj:	Secondary Jo	nctor: ng load l ob Cor	Cat Han led, dump Basic Job (ndition with LCY (he Other - 1 LCY Source (CAT H	bucket, swing em Condition Descrip hin Basic Descrip Cycle Time V caped) cock/dirt mixtures Site	pty): otion: tion: alue: Buck	AVERAGE AVERAGE 0.256 set Size Class: -120%) 1.100		
Source of est HOURLY PRODUCT Excavator Cycle Time (lo Load Bucket Capacity Rated Capacity Bucket Fill Factor Adjusted Capacity Job Condition Correction Altitude Adj: Job Efficiency:	timated swell far FION and bucket, swin Secondary Jo : 0.80 : 1.100 : 0.88 Factors 1.00 0.83	nctor: ng load l ob Cor	Cat Han ded, dump Basic Job C ndition with LCY (he Other - 1 LCY Source (CAT H (1 shift/d	bucket, swing em Condition Descrip hin Basic Descrip Cycle Time V caped) cock/dirt mixtures Site B) ay)	pty): otion: tion: alue: Buck	AVERAGE AVERAGE 0.256 set Size Class: -120%) 1.100		
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HYDRAULIC EXCAVATOR WORK

: Brown Quarry		l regrade rock c			
- v		Permit Action:	Application	Perm	nit/Job#: M2024023
PROJECT IDENTIFI	<u>ICATION</u>				
Task #: 007	St	ate: Colorado		Abbrev	riation: None
Date: $\frac{8/10/2025}{}$	Cou				ename: M023-007
User: LDS		Lugic Lugic			1,1023 007
Agency or organ	nization name:	DRMS			
HOURLY EQUIPME					
Basic Machine:	Cat 315D L 8'	-6" Stick		Horsepower:	115
Attachment 1:	ROPS Cab	-0 Stick		Weight (MT):	17.32
Attachment 1.	ROI 5 Cao			Shift Basis:	1 per day
				Data Source:	(CRG)
Cost Breakdown:					()
Cost Breakdown.		1	Utilization %		
Ownership Cost/H	Hour:	\$56.38	NA		
Operating Cost/F		\$32.42	100		
Operator Cost/F		\$59.31	NA		
Total Unit Cost/F		\$148.11			
Total Fleet Cost/	Hour:	\$148.11			
MATEDIAI OHANT	TTIEC				
MATERIAL QUANT Initial volume: 28		CCY	Swell fac	etor: 1.000	
Loose volume: 28		LCY	Swell lac	1.000	<u></u>
HOURLY PRODUCT					
	oad bucket swin		hucket swing em	ints/)·	
Excavator Cycle Time (IC	oad bucket, swin		bucket, swing em	- • /	_
Excavator Cycle Time (IC		Basic Job (Condition Descrip	otion: AVERAG	
Excavator Cycle Time (IC		Basic Job (Condition Descrip	otion: AVERAGE AVERAGE	Е
· ·		Basic Job (Condition Descrip	otion: AVERAGE AVERAGE	
·		Basic Job (Condition Descrip	otion: AVERAGE AVERAGE alue: 0.256	E minutes
Load Bucket Capacity	Secondary Jo	Basic Job Cob Condition wit	Condition Descrip hin Basic Descrip Cycle Time V	otion: AVERAGE AVERAGE	E minutes
Load Bucket Capacity Rated Capacity	Secondary Jo	Basic Job Cob Condition wit	Condition Descrip hin Basic Descrip Cycle Time V eaped)	otion: AVERAG otion: AVERAG alue: 0.256 Bucket Size Class	E minutes ss: Medium
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Load Bucket Capacity Rated Capacity Bucket Fill Factor Adjusted Capacity Job Condition Correction	Secondary Jo :	Basic Job Cob Condition with LCY (he Other - 1 LCY	Condition Descriphin Basic Descrip Cycle Time V caped) cock/dirt mixtures	otion: AVERAGE AVERAGE On AVERAGE On On One of the AVERAGE ONE of the AVERAGE ON ONE of the AVERAGE ON ONE of the AVERAGE ON ONE of the AVERAGE ON ONE of the AVERAGE ONE of the AVERAGE ONE of the AVERAGE ONE of	minutes ss: Medium
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Load Bucket Capacity Rated Capacity Bucket Fill Factor Adjusted Capacity Job Condition Correction Altitude Adj: Job Efficiency: Net Correction: Una A	Secondary Jo : 0.80 : 1.100 : 0.88 Factors 1.00 0.83 0.83 djusted Hourly djusted Hourly djusted Hourly djusted Hourly	Basic Job Cob Condition with Cob Condition with Cob Condition with Cob	Condition Descriphin Basic Descrip Cycle Time V eaped) cock/dirt mixtures Site B) ay) r 206.25 171.19	otion: AVERAGE otion: AVERAGE alue: 0.256 Bucket Size Class s (100-120%) 1.10 e Altitude: 6750 fee LCY/Hour LCY/Hour	minutes ss: Medium

REVEGETATION WORK

Abbreviation: Filename: Cost / Unit	None M023-008
Filename:	M023-008 Cost /Acre
Cost / Unit	Cost /Acre
¢.	_
\$	\$
Total Fertilizer	
Materials	
Cost/Acre	\$0.00
	Cost /Acre
	\$

TILLING

Description		Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)		\$114.13
Weed control spraying (MEANS 31 31 16.13 3100)		\$338.80
	Total Tilling Cost/Acre	\$452.93

Total Fertilizer Application Cost/Acre

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Arrowleaf Balsamroot	3.20	3.98	\$326.09
Blue Grama - Hachita	6.00	97.93	\$175.99
Indian Ricegrass - Native	5.00	16.18	\$88.53
Needle and Thread	3.80	10.03	\$316.82
Prairie Junegrass	0.18	9.57	\$8.98
Flax, Lewis Blue	1.00	6.63	\$43.31
Saltbush, Four Wing	6.60	9.09	\$134.30
Bluebunch Wheatgrass - Goldar	5.00	16.07	\$58.67

\$0.00

Totals Seed Mix	30.78	169.49	\$1,152.69
Application			
^*			

Description		Cost /Acre
Broadcast seeding [DMG]		\$279.08
	Total Seed Application Cost/Acre	\$279.08

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Hay, delivered	0.50	TON	\$504.56	\$252.28
Herbicide - Curtail @ 4.0 pt/ac	0.50	ACRE	\$38.14	\$19.07
Total Mulch Materials Cost/Acre				\$271.35

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$239.35
Weed spray, hand, non-aquatic area, nox. [DMG]		\$243.21
	Total Mulch Application Cost/Acre	\$482.56

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:
 0.5
 Cost /Acre:
 \$2,638.61

 Estimated Failure Rate:
 50%
 Cost /Acre*:
 \$2,638.61

*Selected Replanting Work Items: TILLING, SEEDING, MULCHING

Initial Job Cost: \$1,319.31

Reseeding Job Cost: \$659.65

Total Job Cost: \$1,979

16.00

REVEGETATION WORK

: Brown Quarry	Revegetate quarry ac	Action: App	ication	Permit/Job	#: <u>M2024023</u>
PROJECT IDENTIF	ICATION				
Task #: 009	State: Col	lorado		Abbreviation:	None
Date: 8/11/2025	County: Eag	gle		Filename:	M023-009
User: LDS					
Agency or orga	nization name: DRMS				
FERTILIZING					
Materials					
		Units /			
Description		Acre	Unit	Cost / Unit	Cost /Acre
				\$	\$
				Total Fertilizer	
				Materials	
				Cost/Acre	\$0.00
Application					
Description					Cost /Acre
					\$
					7
		Tota	Fertilizer A	application Cost/Acre	\$0.00
ΓILLING					
					Cost /Acre
Description Disc harrowing 6" de	en (MEANS 32 91 13 23 <i>6</i>	5100)			
Disc harrowing, 6" de	ep (MEANS 32 91 13.23 6 g (MEANS 31 31 16.13 31				\$114.13 \$338.80
Disc harrowing, 6" de					\$114.13

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Arrowleaf Balsamroot	3.20	3.98	\$326.09
Blue Grama - Hachita	6.00	97.93	\$175.99
Indian Ricegrass - Native	5.00	16.18	\$88.53
Needle and Thread	3.80	10.03	\$316.82
Prairie Junegrass	0.18	9.57	\$8.98
Flax, Lewis Blue	1.00	6.63	\$43.31
Saltbush, Four Wing	6.60	9.09	\$134.30
Bluebunch Wheatgrass - Goldar	5.00	16.07	\$58.67

	Totals Seed Mix	30.78	169.49	\$1,152.69
Application				

Description		Cost /Acre
Broadcast seeding [DMG]		\$279.08
	Total Seed Application Cost/Acre	\$279.08

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Hay, delivered	0.50	TON	\$504.56	\$252.28
Herbicide - Curtail @ 4.0 pt/ac	0.50	ACRE	\$38.14	\$19.07
Total Mulch Materials Cost/Acre				\$271.35

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$239.35
Weed spray, hand, non-aquatic area, nox. [DMG]		\$243.21
	Total Mulch Application Cost/Acre	\$482.56

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:
 0.85
 Cost /Acre:
 \$2,638.61

 Estimated Failure Rate:
 50%
 Cost /Acre*:
 \$2,638.61

*Selected Replanting Work Items: TILLING, SEEDING, MULCHING

Initial Job Cost: \$2,242.82

Reseeding Job Cost: \$1,121.41

Total Job Cost: \$3,364

Job Hours: 24.00

REVEGETATION WORK

: _	Brown Qu	uarry	Perm	nit Action: Appl	ication	Permit/Job#	#: <u>M2024023</u>
PR	OJECT 1	<u>IDENTIFICA</u>	<u>ATION</u>				
	Task #:	010	State:	Colorado		Abbreviation:	None
	Date: User:	8/11/2025 LDS	County:	Eagle		Filename:	M023-010
	Age	ncy or organiza	tion name: <u>DRN</u>	MS .			
Έ	RTILIZI	<u>NG</u>					
Ma	terials			Units /			
	Descriptio	n		Acre	Unit	Cost / Unit	Cost /Acre
						\$	\$
						Total Fertilizer Materials Cost/Acre	\$0.00
	plication Description	on					Cost /Acre
							\$
				Total	Fertilizer A	application Cost/Acre	\$0.00
Ί	LLING						
	Descriptio						Cost /Acre
			MEANS 32 91 13.				\$114.13
	117 1	trol spraying (N	IEANS 31 31 16.13	3 3100)			\$338.80
	weed con						

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Arrowleaf Balsamroot	3.20	3.98	\$326.09
Blue Grama - Hachita	6.00	97.93	\$175.99
Indian Ricegrass - Native	5.00	16.18	\$88.53
Needle and Thread	3.80	10.03	\$316.82
Prairie Junegrass	0.18	9.57	\$8.98
Flax, Lewis Blue	1.00	6.63	\$43.31
Saltbush, Four Wing	6.60	9.09	\$134.30
Bluebunch Wheatgrass - Goldar	5.00	16.07	\$58.67

Totals Seed Mix	30.78	169.49	\$1,152.69

Task # 010

Application

Description		Cost /Acre
Broadcast seeding [DMG]		\$279.08
	Total Seed Application Cost/Acre	\$279.08

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Hay, delivered	0.50	TON	\$504.56	\$252.28
Herbicide - Curtail @ 4.0 pt/ac	0.50	ACRE	\$38.14	\$19.07
Total Mulch Materials Cost/Acre				\$271.35

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$239.35
Weed spray, hand, non-aquatic area, nox. [DMG]		\$243.21
	Total Mulch Application Cost/Acre	\$482.56

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:
 2.55
 Cost /Acre:
 \$2,638.61

 Estimated Failure Rate:
 50%
 Cost /Acre*:
 \$2,638.61

*Selected Replanting Work Items: TILLING, SEEDING, MULCHING

Initial Job Cost: \$6,728.46

Reseeding Job Cost: \$3,364.23

Total Job Cost: \$10,093

40.00

DEMOLITION WORK

Task descrip	tion: Po	ost-reclamation demolition				
Site: Brown Quarry		Permit Action: Appli	Permit Action: Application		Permit/Job#: <u>M2024023</u>	
PROJECT IDENT	<u>IFICATION</u>					
Task #: 011 Date: 8/11/202 User: LDS	5	State: Colorado County: Eagle		Abbreviation Filenar		e 3-011
Agence UNIT COSTS	y or organization	name: <u>DRMS</u>		Location a	adjustmen	t: 86.90 %
Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Remove fence from yard	531ft	Fencing, barbed wire, - 3 strand	531.00	LF	\$1.80	\$955.80
Job Hours:	16.00	Subtotal (unadjusted): \$9	55.80	(adju	tal Cost sted for cation):	\$830.59

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description: Me	bilize all equipm	ient			
te: Brown Quarry Permit Action:			ntion Perm	nit/Job#: <u>M2024023</u>	
PROJECT IDENTIFICAT	<u>ION</u>				
Task #: 012		Colorado	Abbreviat		
Date: 8/11/2025 User: LDS	County: <u>E</u>	agle	Filena	me: M023-012	
Agency or organization	n name: DRMS	S			
EQUIPMENT TRANSPOR	AT RIG COST				
	_		Shift basis:	1 per day	
			Cost Data Source:	CRG Data	
Truck Tractor Desc	cription: GENI	ERIC ON-HIGHW	AY TRUCK TRACTOR, 400 HP (2ND HALF, 200	6X4, DIESEL POWERED,	
Truck Trailer Desc	eription: C	GENERIC FOLDIN	NG GOOSENECK, DROP		
	TRAILER (25T, 50T, AND 100T)				
Cost Breakdown:					
Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons		
Ownership Cost/Hour:	\$21.47	\$38.32	\$48.96		
Operating Cost/Hour:	\$31.47	\$60.11	\$65.86		
Operator Cost/Hour:	\$22.52	\$22.52	\$22.52		
Helper Cost/Hour:	\$0.00	\$22.25	\$22.25		
Total Unit Cost/Hour:	\$75.46	\$143.20	\$159.59		

NON ROADABLE EQUIPMENT:

Machine Description	Weight/ Unit (TONS)	Owner ship Cost/hr/ unit	Haul Rig Cost/hr/uni	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
Cat D8T - 8SU Cat 315D L 8'-6" Stick	53.08	\$194.88 \$56.38	\$159.59 \$75.46	1	\$354.47 \$131.84	\$159.59 \$75.46	\$250.00 \$250.00

Subtotals: \$486.31 \$235.05 \$500.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Drill/Broadcast Seeder with Tractor	\$36.63	1	\$36.63	\$36.63

Subtotals: **\$36.63 \$36.63**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region: GYPSUM

Total one-way travel distance: 12.00 miles

Average Travel Speed: 20.00 mph

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

\$3,810.87

<u>Transportation Cycle Time:</u>

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.60	0.60
Return Time (Hours):	0.60	0.60
Loading Time (Hours):	1.00	NA
Unloading Time (Hours):	1.00	NA
Subtotals:	3.20	1.20

JOB TIME AND COST

Total job cost: 6.40 Hours

Total job cost: \$3,855



United States Department of the Interior BUREAU OF LAND MANAGEMENT COLORADO RIVER VALLEY FIELD OFFICE 2300 River Frontage Road



2300 River Frontage Road Silt, CO 81652 www.blm.gov

June 4, 2019

In Reply Refer To: COC-074205 (CON040)

Amy Yeldell Colorado Division of Reclamation, Mining and Safety 101 S. 3rd Street, Suite 301 Grand Junction, CO 81501

Dear Ms. Yeldell,

An administrative error was discovered with BLM's previous reclamation cost estimate indirect cost requirements after our May 23, 2019 letter to you. Please refer to the corrected indirect cost requirements below:

- 1. Per the BLM Solid Minerals Handbook H-3809-1, the following indirect costs are required in the reclamation cost estimate:
 - Engineering, design, and construction plan: 8% of estimated reclamation operation and maintenance costs
 - i. DRMS has documented 7.22% of the direct plus overhead and profit costs. While the agencies' percentage rates are different, the costs upon which the rates are calculated are different and the difference are minor. This is acceptable.
 - b. Contingency: 10% of estimated reclamation operation and maintenance costs
 - i. DRMS has documented 3% of direct costs. This figure must be increased to 10%.
 - c. Contractor Profit: 10% of estimated reclamation operation and maintenance costs
 - i. DRMS has documented 10% of direct costs. This is acceptable.
 - d. Liability Insurance: 1.5% of the total labor costs
 - i. DRMS has documented 2.02% of total costs. This is acceptable.
 - e. Performance and Payment Bond: 1.5% of the estimated contract cost
 - i. DRMS has documented 1.05% for a performance bond. This indirect rate must increased to 1.5% of the estimated contract cost.
 - f. BLM Contract Administration: 10% of the estimated reclamation operation and maintenance costs
 - i. DRMS has documented 5.3% for reclamation management and/or administration. This indirect rate must be increased to 10%.
 - g. BLM Indirect Cost: 21.6% of the BLM contract administration costs
 - i. DRMS does not have this documented in the reclamation cost estimate. Please include this indirect cost as 21.6% of the reclamation management and/or administration costs.

The addition of spruce or fir seedlings at a rate of ten (10) seedlings per 1,000 square feet of reclaimed bench remains a BLM requirement of the reclamation cost estimate.

If you have any questions or concerns, please contact Jessica Lopez Pearce, Geologist, at (970) 876-9018 or jlopezpearce@blm.gov.

Sincerely,

Larry W. Sandoval, Jr. Field Manager