

September 9, 2023

Kurt Thurmann Holcim – WCR, Inc. 1687 Cole Blvd, Suite 300 Golden, CO 80401

RE: Division's Financial Warranty Cost Estimates for Ingleside Quarry (M1980-037HR)

Dear Mr. Thurmann,

On April 27, 2023 the Division performed an inspection in response to a Succession of Operators application (Revision No. SO-4) that was received by the Division on January 24, 2023 to transfer the site from Pioneer Sand and Gravel to Holcim-WCR, Inc. As part of the inspection the financial warranty for the quarry was calculated. The Division used observations made during the inspection, and permit file information during the cost estimate calculations.

A copy of the estimate is attached for your review. The Division will allow 14 days from the date of this letter or until **September 19, 2023** to review and comment on the bond estimate prior to issuing a surety increase notice for the Ingleside Quarry. Once the surety increase has been issued by the Division, the Operator/Permittee will have 60 days to provide the additional financial warranty.

If you need additional information or have any questions, please contact me by telephone at **303-866-3567 x8114**, or by email at <u>patrick.lennberg@state.co.us</u>.

Sincerely,

Patrick Lennberg Environmental Protection Specialist

- cc: Jared Ebert, DRMS
- ec: Kurt Thurmann, Holcim WCR, Inc., <u>kurt.thurmann@holcim.com</u>



COST SUMMARY WORK

e: Ingleside	Quarry	Pe	rmit Action:	2023 SO-4	Permit/Jol	o#: <u>M1980037HR</u>
PROJECT	IDENTIFICA	TION				
Task #:	000	State:	Colorado		Abbreviation:	None
Date:	9/1/2023 11:37:42 AM	County:	Larimer		Filename:	M037-000
User:	JPL					

TASK LIST (DIRECT COSTS)

Task		Form	Fleet	Task	
1 ask	Description	Used	Size	Hours	Cost
001	Blasting benches in highwall	BLASTING	1	129.24	\$62,805
002	Backfill and grade ~22,222 cy of rubble	DOZER	2	22.08	\$19,408
003	Rip storage area and internal haul roads	RIPPER	2	10.53	\$9,415
004	Spread fines on reclaimed benches	DOZER	1	0.55	\$244
005	Revegetate Pit floor, storage areas, internal haul roads.	REVEGE	1	12.22	\$32,345
006	Revegetating benches	REVEGE	1	1.00	\$1,485
007	Equipment Mobilization/Demobilization	MOBILIZE	1	3.20	\$5,590
		<u>SUBTO</u>	DTALS:	178.82	\$131,292

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$2,652
Performance bond:	1.05	Total =	\$1,379
Job superintendent:	89.41	Total =	\$5,819
Profit:	10.00	Total =	\$13,129
		TOTAL O & P =	\$22,979
		CONTRACT AMOUNT (direct + O & P) = $($	\$154,271

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): Engineering work and/or contract/bid preparation: Reclamation management and/or administration:	\$500 8.00 5.00	Total = Total =	\$500 \$12,342 \$7,714
CONTINGENCY:	0.00	Total =	\$0
	TOTAL	INDIRECT COST =	\$43,534
TOTAL BO	ND AMOUNT	(direct + indirect) =	\$174,826

Page 1 of 3

SURFACE BLASTING WORK

Task description:	Blasting benches in highwall			
e: Ingleside Quarry	Permit Action:	2023 SO-4	Permit/Job	#: M1980037HR
PROJECT IDENTI	FICATION			
Task #: 001	State: Colorado		Abbreviation	: None
Date: $5/5/202$	3 County: Larimer		Filename	: 001
User: JPL				
Agency or or	rganization name: DRMS			
BLAST AREA DIM	ENSIONS			
		1	OUANTITY	UNIT
	Blast Area Configuration: Box	-shaped mass (flat	safety benches, general	
E			plast (fragmentation onl	
	Highwall or Ben	hch Face Angle:	0.00	h:1v
	Regrade	ed Slope Angle:	0.00	h:1v
	Highwall or	Bench Length:	1,200	feet
	Highwall o	r Bench Width:	20	feet
	Highwall or	r Bench Height:	30.0	feet
	Depth to Base of C	Cut at Highwall:	25.0	feet
BLAST AREA VOL	<u>UMES</u>			
			QUANTITY	UNIT
	Total Volume of Dimensional	l Mass to be Shot:	22,222	cubic yards
Bl	ast Volume to Subdrill Grade and B	last Pattern Lines:	17,778	cubic yards
]	Blast Volume to Finish Grade and B	last Pattern Lines:	17,778	cubic yards
F	Remaining Volume Required to be R	e-Shot or Ripped:	4,444	cubic yards
BLAST AREA DES	IGN			
		QUAN	ΓΙΤΥ	UNIT
	ecommended Blasthole Diameter	3 33		

QUANTITY	UNIT
3.333	inches
4.000	inches
0.0	feet
25.0	feet
Average Density Rock	rock density
(ANFO Basis)	
25	times diameter
8.0	feet
1.3	times burden
10.0	feet
74.07	cubic yards
Medium	rock strength
0.575	pounds/cu. yd.
0.85	grams/cc
42.59	POUNDS
9.20	feet
15.80	feet
1.98	times burden
0.0511	cubic yards
2	rows
120	holes per row
240	holes
6,000	feet
	3.333 4.000 0.0 25.0 Average Density Rock (ANFO Basis) 25 8.0 1.3 10.0 74.07 Medium 0.575 0.85 42.59 9.20 15.80 1.98 0.0511 2 120 240

BLASTING MATERIALS QUANTITIES

	QUANTITY	UNIT
Total Quantity of Stemming Required:	12.26	cubic yards
Total Quantity of Explosives Required:	10,222	pounds
Total Quantity of det. cord/fuse/wire Required:	9,258	linear feet
Quantity of Blasting Caps per Blasthole:	1	cap(s)
Total Quantity of Blasting Caps Required:	240	caps
Quantity of Primers per Blasthole:	1	primer(s)
Total Quantity of Primers Required:	240	primers
Quantity of Delays per Blasthole:	1	delay(s)
Total Quantity of Delays Required:	242	delays

HOURLY EQUIPMENT COST

Shift basis: <u>1 per day</u>

	Description
Drilling Equipment - Drill:	ATLAS COPCO ROC D7-11,4.0 in.
-Drill Pad Preparation:	NA
Misc. Drill Support Equipment:	NA
Misc. Explosives Support Equipment:	NA
Explosives Delivery –Bulk Truck:	ANFO Bulk Delivery Truck
-Cap Truck:	Cap Delivery Truck
-Cap Truck:	Cap Delivery Truck

Cost Breakdown:	Drilling Equipment	Drill Pad Preparation	Misc. Drill Support	Misc. Expl. Support	Explosives Bulk Truck	s Delivery Cap Truck
	Drilling				MiscTruck	MiscTruck
%Utilization-machine:	50	NA	NA	NA	5	5
Ownership cost/hour:	\$217.10	NA	NA	NA	\$156.81	\$5.06
Operating cost/hour:	\$104.20	NA	NA	NA	\$9.85	\$1.53
%Utilization-ripper:	NA	NA	NA	NA	NA	NA
Ripper own. cost/hour:	NA	NA	NA	NA	\$0.00	\$0.00
Ripper op. cost/hour:	NA	NA	NA	NA	\$0.00	\$0.00
Operator cost/hour:	\$28.23	NA	NA	NA	\$70.24	\$70.24
Unit Subtotals:	\$349.53	\$0.00	\$0.00	\$0.00	\$236.90	\$76.82
Number of Units:	1	0	0	0	1	1
Group Subtotals:	\$349.53	\$0.00	\$0.00	\$0.00	\$236.90	\$76.82

Total work team cost/hour: \$663.25

MATERIALS COST

	Description	Unit	Unit Cost	Quantity	Total Cost
	Bulk ANFO nom. density				
Blasting Agent:	(7,900-15,000 fps)	Pound	\$0.718	10222.222	\$7,339.56
	Cast primer, 0.3 lb				
	(electric or non-electric				
Primers or Boosters:	system)	Each	\$2.540	240.000	\$609.60
	Non-electric cap, delay				
Blasting Caps:	(non-electric systems)	Each	\$6.400	240.000	\$1,536.00
Det. Cord, fuse, or	Detonating cord, 10 gr./ft.				
wire:	(non-electric systems)	Linear foot	\$0.320	9257.600	\$2,962.43
	MS connectors (non-				
Delays:	electric systems)	Each	\$8.690	242.000	\$2,102.98
	NO MISCELLANEOUS				
	MATERIALS				
Miscellaneous:	REQUIRED	NA	\$0.000	0.000	\$0.00

Surface Blasting Work Cont'd	Task# 001		Page 3	3 of 3
Drill bits: Bit life = 1,400	Linear feet	\$1,095.19	4.286	\$4,693.67
		Total	Materials Cost:	\$19,244.24
DRILLING AND EXPLOSIVES PREPARA	ATION TIME			
Total Drilling Length:	6,000		linear feet	
Unadjusted Drilling Rate:	112.00		feet/hour	
Drilling Time:	84.17		hours	
Job Condition Corrections:				
Site Altitude:	5,800		feet	
Altitude Adjustment:	0.95		(DRMS est.)	
Job Efficiency Factor:	0.67		(CH. Exc. HB)	
Adjusted Drilling Rate:	71.29		feet/hour	
Explosives Prep. Time:	45.08		hours	
JOB TIME AND COST				
	Total Job Tim	e: <u>129</u>	.25 Hours	

BULLDOZER WORK

	Pe	ermit Action:	2023 SO-4	Permit/Job	0#: M1980037HR
PROJECT IDENTIFI	ICATION				
Task #: 002 Date: 5/5/2023 User: JPL	State: County:	Colorado Larimer		Abbreviation: Filename:	None 002
Agency or orga	nization name: D	RMS			
HOURLY EQUIPME	NT COST				
	at D8T - 8SU		_		
Horsepower: 31			_		
51	mi-Universal		_		
	shank ripper per day		_		
	RG)		_		
<u></u>			_		
Cost Breakdown:		1	T T4'1'		
Ownership Cost/Hour:		\$241.38	<u>Utilization %</u> NA		
Ownership Cost/Hour: Operating Cost/Hour:		\$143.92	<u> </u>		
Ripper own.					
Cost/Hour:		\$14.11	NA		
Ripper op. Cost/Hour:		\$0.00	0		
Operator Cost/Hour:		\$40.04	NA		
Total unit Cost/Hour:	\$439.45				
Total Fleet Cost/Hour:	\$878.89				
MATERIAL QUANT	<u>ITIES</u>				
Initial Volume: 22,2	222				
Initial Volume: 22,2 Swell factor: 1.00	222 00				
Initial Volume:22,2Swell factor:1.00Loose volume:22,2	222 00 222 LCY				
Initial Volume: 22,7 Swell factor: 1.00 Loose volume: 22,7 Source of estimated vol	222 00 222 LCY ume: <u>Division</u>		on, Mining & Safety		
Initial Volume: 22,7 Swell factor: 1.00 Loose volume: 22,7 Source of estimated vol Source of estimated swe	222 00 222 LCY ume: <u>Division</u>		on, Mining & Safety		
Initial Volume: 22,7 Swell factor: 1.00 Loose volume: 22,7 Source of estimated vol	222 00 222 LCY ume: <u>Division</u>		on, Mining & Safety		
Initial Volume: 22.2 Swell factor: 1.00 Loose volume: 22.2 Source of estimated vol Source of estimated swe factor:	222 00 222 LCY ume: Division ell Cat Hand		on, Mining & Safety		
Initial Volume: 22,7 Swell factor: 1.00 Loose volume: 22,7 Source of estimated vol Source of estimated swe	222 00 222 LCY ume: Division ell Cat Hand		on, Mining & Safety		
Initial Volume: 22,2 Swell factor: 1.00 Loose volume: 22,2 Source of estimated vol Source of estimated swe factor: HOURLY PRODUCT Average push distance:	222 200 222 LCY ume: Division ell Cat Hand <u>CION</u> 50 feet	dbook	on, Mining & Safety		
Initial Volume: 22,2 Swell factor: 1.00 Loose volume: 22,2 Source of estimated vol Source of estimated swo factor: HOURLY PRODUCT Average push distance: Unadjusted hourly	222 00 222 LCY ume: Division ell Cat Hand CION	dbook	on, Mining & Safety		
Initial Volume: 22,2 Swell factor: 1.00 Loose volume: 22,2 Source of estimated vol Source of estimated swe factor: HOURLY PRODUCT Average push distance:	222 200 222 LCY ume: Division ell Cat Hand <u>CION</u> 50 feet	dbook	on, Mining & Safety		
Initial Volume: 22,2 Swell factor: 1.00 Loose volume: 22,2 Source of estimated vol Source of estimated swe factor: HOURLY PRODUCT Average push distance: Unadjusted hourly production:	222 00 222 LCY ume: Division Cat Hand <u>50 feet</u> 1,400.0 LC	dbook CY/hr			
Initial Volume: 22,2 Swell factor: 1.00 Loose volume: 22,2 Source of estimated vol Source of estimated swo factor: HOURLY PRODUCT Average push distance: Unadjusted hourly	222 00 222 LCY ume: Division Cat Hand <u>50 feet</u> 1,400.0 LC	dbook CY/hr			
Initial Volume: 22,2 Swell factor: 1.00 Loose volume: 22,2 Source of estimated vol Source of estimated vol Source of estimated swe factor: HOURLY PRODUCT Average push distance: Unadjusted hourly production: Materials consistency defined	222 00 222 LCY ume: <u>Division</u> Cat Hand <u>50 feet</u> 1,400.0 LC escription: <u>Rock</u> ,	dbook CY/hr			
Initial Volume: 22,2 Swell factor: 1.00 Loose volume: 22,2 Source of estimated vol Source of estimated vol Source of estimated swe factor: HOURLY PRODUCT Average push distance: Unadjusted hourly production: Materials consistency de Average push	222 00 222 LCY ume: Division Cat Hand <u>50 feet</u> 1,400.0 LC	dbook CY/hr			
Initial Volume: 22,2 Swell factor: 1.00 Loose volume: 22,2 Source of estimated vol Source of estimated swe factor: HOURLY PRODUCT Average push distance: Unadjusted hourly production: Materials consistency de Average push gradient:	$\begin{array}{c} 222 \\ \hline 00 \\ \hline 222 \text{ LCY} \\ \text{ume: Division} \\ \hline Cat \text{ Hand} \\ \hline \\ $	dbook CY/hr			
Initial Volume: 22,2 Swell factor: 1.00 Loose volume: 22,2 Source of estimated vol Source of estimated vol Source of estimated swe factor: HOURLY PRODUCT Average push distance: Unadjusted hourly production: Materials consistency de Average push	222 00 222 LCY ume: <u>Division</u> Cat Hand <u>50 feet</u> 1,400.0 LC escription: <u>Rock</u> ,	dbook CY/hr			
Initial Volume: 22,2 Swell factor: 1.00 Loose volume: 22,2 Source of estimated vol Source of estimated swe factor: HOURLY PRODUCT Average push distance: Unadjusted hourly production: Materials consistency de Average push gradient:	$\begin{array}{c} 222 \\ \hline 00 \\ \hline 222 \text{ LCY} \\ \text{ume: Division} \\ \hline Cat \text{ Hand} \\ \hline \\ $	dbook CY/hr			
Initial Volume: 22,2 Swell factor: 1.00 Loose volume: 22,2 Source of estimated vol Source of estimated swe factor: HOURLY PRODUCT Average push distance: Unadjusted hourly production: Materials consistency de Average push gradient: Average site altitude: Material weight:	222 200 222 LCY ume: Division Cat Hand Cat Hand Cat Hand 50 feet 1,400.0 LC escription: Rock, 0 % 5,600 feet 2,550 lbs/LCY	dbook CY/hr			
Initial Volume: 22,2 Swell factor: 1.00 Loose volume: 22,2 Source of estimated vol Source of estimated swe factor: HOURLY PRODUCT Average push distance: Unadjusted hourly production: Materials consistency de Average push gradient: Average site altitude:	222 00 222 LCY ume: Division Cat Hand Cat Hand 50 feet 1,400.0 LC escription: Rock, 0 % 5,600 feet	dbook CY/hr			
Initial Volume: 22,2 Swell factor: 1.00 Loose volume: 22,2 Source of estimated vol Source of estimated swe factor: HOURLY PRODUCT Average push distance: Unadjusted hourly production: Materials consistency de Average push gradient: Average site altitude: Material weight:	222 00 222 LCY ume: Division cat Hand Cat Hand Cat Hand 50 feet 1,400.0 LC escription: Rock, 0 % 5,600 feet 2,550 lbs/LCY Sandstone	dbook CY/hr			

Material consistency:	0.800	(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:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3594

Adjusted unit production:	503.16 LCY/hr
Adjusted fleet production:	1006.32 LCY/hr

Fleet size:	2 Dozer(s)
Unit cost:	\$0.873/LCY

Total job time:	22.08 Hours
Total job cost:	\$19,408

BULLDOZER RIPPING WORK

Task description:	Rip storage area a	and intern	al haul roads			
Site: Ingleside Quarry	Perm	nit Action:	2023 SO-4]	Permit/Job#:	M1980037HR
PROJECT IDENTIFIC	ATION					
Task #: 003 Date: 5/5/2023 User: JPL		Colorado Larimer			eviation: <u>No</u> lename: <u>00</u> 3	
Agency or organiz	zation name: DRN	/IS				
HOURLY EQUIPMEN	T COST					
Basic Machine: Ripper Attachment:	Cat D8T - 8SU 3-Shank Ripper		_	Horsepower: _ Shift Basis: _ Data Source:	310 1 per da (CRG)	
Cost Breakdown:				_		
Operat	hip Cost/Hour: ing Cost/Hour:		\$241.38 \$143.92	Utilization % NA 100		
Ripper Owners			\$14.11 \$7.45	NA 100		
	ing Cost/Hour: tor Cost/Hour:		\$40.04	100 NA		
-	Init Cost/Hour:		\$446.90			
Total Fl	eet Cost/Hour:	\$893	5.79			
Area: <u>12.30</u> acr Source o	f estimated quantity:	Depth (ft): DRMS <u>Areas</u>	1.00 Estimate of c	Volume: urrent Storage, Sca	19,844 ale House and	BCY or CC
HOURLY PRODUCTI	<u>ON</u>					
Seismic:	Seismic Veloci	ty:	NA	feet/seco	ond	
<u>Area:</u>		41	250	£		
	verage Ripping Dep verage Ripping Wid		2.56 7.08	feet/pass feet/pass		
Av	verage Ripping Leng	th:	100.00	feet/pass		
	Average Dozer Spec rerage Maneuver Tin		<u>88.00</u> 0.25	feet/min		
	roduction per unit are		0.23	minutes/ acres/hot	-	
Job Condition Correction Fa	actors					
Unadjusted H	lourly Unit Production	on:	0.703	Acres/hr		
5	Site Altitud		5,600	feet		
	Altitude A	dj:	1.00	(CAT H		
	Job Efficience	-	0.83	(1 shift/c	• /	
	Net Correctio usted Hourly Unit Pr usted Hourly Fleet Pr	oduction:	0.83 0.58 1.17	multiplie Acres/hr Acres/hr	er	
-	•	ouucion:	1.1/	AUC5/111		
JOB TIME AND COST Fleet size: 2	Grader(s)		Total job tin	ne: <u>1</u> ().53	Hours

Unit cost. $\mathfrak{P}/03.445$ rel ac	Unit cost:	\$765.443	Per acre
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Total job cost: \$9,415

BULLDOZER WORK

	Permit Action:	2023 SO-4	Permit/Jo	b#: <u>M1980037HR</u>
ROJECT IDENTIFI	CATION			
Task #: 004	State: Colorado		Abbreviation:	None
Date: 5/5/2023	County: Larimer		Filename:	004
User: JPL				
Agency or organ	nization name: DRMS			
HOURLY EQUIPME	NT COST			
Basic Machine: Cat	t D8T - 8SU			
Horsepower: 310)			
Blade Type: Ser	ni-Universal			
	hank ripper			
Shift Basis: 1 p	er day			
	RG)			
<u></u>				
Cost Breakdown:	1	T T4:1:		
	#0.41.20	Utilization %		
Ownership Cost/Hour:	<u>\$241.38</u> \$143.92	NA 100		
Operating Cost/Hour:	\$143.92	100		
Ripper own. Cost/Hour:	\$14.11	NA		
Ripper op. Cost/Hour:	\$0.00	0		
Operator Cost/Hour:	\$40.04	NA		
ATEDIAL OHANTI	TIFC			
MATERIAL QUANT Initial Volume: 444 Swell factor: 1.00	0			
Initial Volume: 444 Swell factor: 1.00				
Initial Volume: 444 Swell factor: 1.00	0 LCY 1me:Division of Reclamatio	n, Mining & Safety		
Initial Volume: 444 Swell factor: 1.00 Loose volume: 444 Source of estimated volu Source of estimated swe	0 LCY Ime: Division of Reclamatio Il Cat Handbook	n, Mining & Safety		
Initial Volume: 444 Swell factor: 1.00 Loose volume: 444 Source of estimated volu Source of estimated swe factor: HOURLY PRODUCT	0 LCY Ime: Division of Reclamatio Il Cat Handbook	n, Mining & Safety 		
Initial Volume: 444 Swell factor: 1.00 Loose volume: 444 Source of estimated volu Source of estimated swe factor: HOURLY PRODUCT Average push distance:	0 LCY ume: Division of Reclamatio Il Cat Handbook (ION 75 feet	n, Mining & Safety		
Initial Volume: 444 Swell factor: 1.00 Loose volume: 444 Source of estimated volu Source of estimated swe factor: HOURLY PRODUCT	0 LCY Ime: Division of Reclamatio Il Cat Handbook	n, Mining & Safety 		
Initial Volume: 444 Swell factor: 1.00 Loose volume: 444 Source of estimated volu Source of estimated swe factor: HOURLY PRODUCT Average push distance: Unadjusted hourly production:	0 LCY ume: Division of Reclamatio Il Cat Handbook (ION 75 feet			
Initial Volume: 444 Swell factor: 1.00 Loose volume: 444 Source of estimated volu Source of estimated swe factor: HOURLY PRODUCT Average push distance: Unadjusted hourly production: Materials consistency de Average push	0 LCY nme: Division of Reclamatio 11 Cat Handbook ION 10N 75 feet 1,017.1 LCY/hr			
Initial Volume: 444 Swell factor: 1.00 Loose volume: 444 Source of estimated volu Source of estimated swe factor: HOURLY PRODUCT Average push distance: Unadjusted hourly production: Materials consistency de	0 LCY ume: Division of Reclamatio 11 Cat Handbook 'ION 2ION			
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Initial Volume: 444 Swell factor: 1.00 Loose volume: 444 Source of estimated volu Source of estimated swe factor: HOURLY PRODUCT Average push distance: Unadjusted hourly production: Materials consistency de Average push gradient: Average site altitude: Material weight:	0 LCY ume: Division of Reclamatio II Cat Handbook ION 200			
Initial Volume: 444 Swell factor: 1.00 Loose volume: 444 Source of estimated volu Source of estimated swe factor: HOURLY PRODUCT Average push distance: Unadjusted hourly production: Materials consistency de Average push gradient: Average site altitude:	0 LCY ume: Division of Reclamatio II Cat Handbook ION			

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:	801.17 LCY/hr
Adjusted fleet production:	801.17 LCY/hr

Fleet size:	1 Dozer(s)
Unit cost:	\$0.549/LCY

Total job time:	0.55 Hours
Total job cost:	\$244

REVEGETATION WORK

Ingleside	Quarry	Per	rmit Action: 2023 SO-4	Permit/Jo	Permit/Job#: M1980037HF	
PROJECT	IDENTIFIC	CATION				
Task #:	005	State:	Colorado	Abbreviation:	None	
Date:	5/5/2023	County:	Larimer	Filename:	005	
User:	JPL					

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
	\$
Total Tilling Cost/Acre	\$0.00

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Native	2.50	8.09	\$16.25
Little Bluestem - Native	2.00	11.94	\$27.13
Sideoats Grama - Vaughn	3.00	9.85	\$25.13
Pubescent Wheatgrass - VNS	3.50	7.23	\$11.03
Totals Seed Mix	11.00	37.11	\$79.53

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
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$429.79	\$859.57
Total Mulch Materials Cost/Acre				\$859.57

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$74.46
	Total Mulch Application Cost/Acre	\$74.46

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

Estimate *Selected Replanti	No. of Acres: ed Failure Rate: ng Work Items:	25%	Cost /Acre: Cost /Acre*:	
Initial Job Cost: Reseeding Job Cost: Total Job Cost: Job Hours:	\$1,903.45 \$32,345			

REVEGETATION WORK

Job#: M1980037HR
: None
:: 006
tion ame

FERTILIZING

Materials

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

Application

Description	Cost /Acre
	\$
Total Fertil	zer Application Cost/Acre \$0.00

TILLING

Description	Cost /Acre
	\$
Total Tilling Cost/Acre	\$0.00

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Native	5.00	16.18	\$32.50
Little Bluestem - Native	4.00	23.88	\$54.27
Sideoats Grama - Vaughn	6.00	19.70	\$50.25
Pubescent Wheatgrass - VNS	7.00	14.46	\$22.05
Totals Seed Mix	22.00	74.22	\$159.07

Application

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

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$429.79	\$859.57
Total Mulch Materials Cost/Acre				\$859.57

Application

Description		Cost /Acre
Hydromulching (MEANS 32 92 19.13 1100)		\$1,306.80
	Total Mulch Application Cost/Acre	\$1,306.80

NURSERY STOCK PLANTING

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

Estimate *Selected Replanti	No. of Acres: ed Failure Rate: ng Work Items:	25%	Cost /Acre: Cost /Acre*:	
Initial Job Cost: Reseeding Job Cost: Total Job Cost: Job Hours:	\$58.61 \$1,485		-	