

1313 Sherman Street, Room 215

Denver, CO 80203

February 7, 2018

Mr. Mike A. Tezak Tezak Stone & Aggregate Supply, Inc. 6200 CR 37 Texas Creek, CO 81223

Re: Tezak No 2 Pit, Permit No. M-1981-080; Conversion Approval, Revision No. CN-1

Dear Mr. Tezak:

On February 5, 2018 the Division of Reclamation, Mining and Safety approved the Conversion application submitted to the Division on October 27, 2017, addressing the following:

Add 9.9 acres for a total of 19.8 acres

The terms of the Conversion No. 1 approved by the Division are hereby incorporated into Permit No. M-1981-080. All other conditions and requirements of Permit No. M-1981-080 remain in full force and effect. During the permit conversion review process, the Division received comments from the State Historical Preservation Office (SHPO). A copy of their comment letter is enclosed for your records.

A copy of the revised bond estimate was emailed to Mr. Klco on February 5, 2018 for review. A hard copy of that estimate is enclosed. The revised liability amount (\$55,535.00) exceeds the financial warranty currently held (\$17,500.00). The revision will not be final until the additional bond (\$38,035.00) is approved by the Division.

Please sign the enclosed Performance Warranty and return it to the Division for the Director's signature. Once the Director signs it, the completed Performance Warranty will be returned to you.

Sincerely,

Timothy A. Cazier, P.E.

**Environmental Protection Specialist** 

**Enclosures** 

ec: Barbara Coria, DRMS

DRMS file

Ken Klco, Azurite



### **COST SUMMARY WORK**

te: Tezak No 2 Pit		Permit Action:	CN-01	Permit/Job	#: <u>M1981080</u>
PROJE	CT IDENTIFI	<u>CATION</u>			
Task	#: 000	State: Colorado		Abbreviation:	None
Da	te: 2/5/2018	County: Fremont		Filename:	M080-000
	er: TC1				

### **TASK LIST (DIRECT COSTS)**

Task	Description	Form Used	Fleet Size	Task Hours	Cost
005	Place topsoil	SCRAPER1	1	36.56	\$7,358.00
006	Final grading, Floor ripping	GRADER	1	12.36	\$1,105.00
010	Scale/house demolition (LS)	NA	1	4.00	\$1,000.00
015	Reveg 19.8 acres	REVEGE	1	20.00	\$31,761.00
020	Mob/Demob	MOBILIZE	1	3.57	\$2,840.00
		SUBTO	OTALS:	76.49	\$44,064

### **INDIRECT COSTS**

#### **OVERHEAD AND PROFIT:**

Liability insurance:	2.02	Total =	\$890.09
Performance bond:	1.05	Total =	\$462.67
Job superintendent:	41.95	Total =	\$3,064.45
Profit:	10.00	Total =	\$4,406.40

 $TOTAL O \& P = \frac{\$8,823.61}{\$8,823.61}$ NUTRACT AMOUNT (direct + O & P) = \frac{\\$52,887.61}{\}

CONTRACT AMOUNT (direct + O & P) = \$52,887.61

#### LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): 0.00 Total = 0.00

Engineering work and/or contract/bid preparation: 0.00 Total = \$0.00

Reclamation management and/or administration: 5.00 \$2,644.38

CONTINGENCY: 0.00 Total = \$0.00

TOTAL INDIRECT COST = \$11,467.99

TOTAL BOND AMOUNT (direct + indirect) = \$55,531.99

TOTAL BOND AMOUNT (Rounded: direct + indirect) = \$55,535.00

# SCRAPER TEAM WORK

Task description:	Place topsoil					
Site: Tezak No 2 Pit	Pe	ermit Action:	CN-01	Perr	mit/Job#: M1981	1080
PROJECT IDENT	<u> TIFICATION</u>					
Task #: 005	State	: Colorado			viation: None	
Date: <u>2/5/201</u>	8 County	Fremont		File	ename: <u>M080-0</u>	005
User: TC1						
Agency or o	organization name:I	DRMS				
HOURLY EQUIP	<u>MENT</u>		COSTSI	hift basis: 1 per d	<u>ay</u>	
	-Scrap		ent Description			
	-Doz		,,,			
Suppo	rt Equipment -Load Ar					
Pood Mo	-Dump Ar intenance –Motor Grad					
Koau Ivia.	Water Tru-					
						<del></del>
<b>Cost Breakdown:</b>	Scraper Work To		Support Equip		Maintenance	
	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	NA	NA	NA	NA	NA
Ownership cost/hour:	\$84.05	NA	NA	NA	NA	NA
Operating cost/hour:	\$85.92	NA	NA	NA	NA	NA
%Utilization-ripper:	NA	NA	NA	NA	NA	NA
Ripper own. cost/hour:	NA	NA	NA	NA	NA	NA
Ripper op. cost/hour:	NA	NA	NA	NA	NA	NA
Operator cost/hour:	\$31.26	NA	NA	NA	NA	NA
Unit Subtotals:	\$201.23	NA	NA	NA	NA	NA
Number of Units:	1	0	0	0	0	0
Group Subtotals:	Work:	\$201.23	Support:	\$0.00	Maint:	\$0.00
Total work team cost						
MATERIAL QUA						
Initial volume: Loose volume:	14,000 15,750	CCY LCY	Swell fact	or: 1.125		
	rce of estimated volum of estimated swell facto		of Reclamation, Idbook	Mining & Safety		<u></u>
HOURLY PRODU	<u>UCTION</u>					
			Scraper Bo	owl (volume) Basi	is:	
Material weight:	2,650 lbs/LCY			Volume: <u>18.00</u>		CY
Material description:	Decomposed rock - 2 75% Earth	5% Rock,	Heaped '			CY
Rated Payload: Payload Capacity:	55,200 pounds 20.83 LCY		Average ` Adjusted C			CY CY

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$C_{3}$	701	ρ		111	10.
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 $\begin{array}{lll} \text{Scraper Loading Time:} & \underline{0.90} \text{ Minutes} \\ \text{Maneuver and Spread Time:} & \underline{0.70} \text{ Minutes} \end{array}$ 

Job Condition Correction: Site Altitude: 6250 feet

	Scraper	Push Dozer	Source
Altitude Adj:	1.000	NA	(CAT HB)
Job Efficiency:	0.830	NA	(CAT HB)
Net Correction:	0.830	NA	

**Travel Time:** 

Road Condition: Soft, rutted dirt, no maintenance or water, 4" tire penetration 8.0

#### Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	600.00	-5.00	8.00	3.00	2189	0.57

Haul Time: **0.57** minutes

#### Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	600.00	5.00	8.00	13.00	928	0.68

Return Time: 0.68 minutes Total Scraper team cycle time: 2.85 minutes Adjusted for job conditions: 358.21 LCY/Hour Selected Number of Scrapers: 1 Scraper(s) Adjusted single scraper team (unit) hourly production: 358.21 LCY/Hour Adjusted multiple scraper team (fleet) hourly production: 358.21 LCY/Hour

Unadjusted unit production/hour:	431.58	LCY/Hou
Optimal Number of Scrapers per push dozer:		<del></del>

### **JOB TIME AND COST**

Fleet size:	1	Team(s)	Total job time:	43.97	Hours
Unit cost:	\$0.562	/LCY	Total job cost:	\$8,848	

# **MOTOR GRADER WORK**

Task descr	ription:	Final	grading, Fl	loor ripping				
: Tezak N	No 2 Pit		Peri	mit Action:	CN-01	Per	mit/Job#:	M1981080
PROJEC	T IDENTI	FICATIO	<u>N</u>					
Task #:	006		State:	Colorado		Abbre	viation:	None
Date:	2/5/2018		County:	Fremont		Fi	lename:	M080-006
User:	TC1							
A	Agency or org	anization i	name: DR	RMS				
HOURLY	Y EQUIPM	IENT CO	ST					
	Basic Machi		12M			Horsepower:		158
	per Attachme		ti-Shank Rip	nner		Shift Basis:		per day
Мр	per Attaenine	iit. <u>iviui</u>	ii-Siiaiik Kij	эрсі	<del></del>	Data Source:		CRG)
						Data Bource.	(	erro)
Cost Break	<u>kdown:</u>				1	<b>T</b> T.111		
		1: 0	. /7.7		Φ20.02	Utilization %		
		nership Co			\$28.02	NA 100		
		erating Co			\$28.28 \$1.99	100 NA		
	Ripper Own Ripper Op				\$1.99	NA 100		
		perator Co			\$28.90	NA		
		al Unit Co			\$89.35	1111		
	100	ai Omt Co			φυ <b>σ.</b>			
	Tota	al Fleet Co	st/Hour:	\$89	.35			
MATER	IAL QUAN Total Are		ded or rippe	ed: 17.00				acres
	Sou	rce of estin	nated acreag	ge: Exh L				
нопрт у	Y PRODU(	TION	_					
HOUKL.	1 FRODU		e Grader Sp	and:	1.50	mph		
			ted Applica			grading (0-2.5 mpl	1) - 1.5	
			ed Blade Aı		30	degrees	1) 1.5	
			e Blade Ler		10.40	feet		
	Widtl		overlap per p		2.00	feet		
			g width per p		8.40	feet		
			Unit Produc		1.5273	acres/hou	r	
Job Condit	tion Correction	on Factors			Sit	te Altitude: <u>6250</u> f	eet	
				Source				
A	Altitude Adj:	1.0	00	(CAT HE	3)			
	Efficiency:		90	(1sh/d, fav	/.) <u> </u>			
Net	Correction:	0.9	000	multiplier				
		Adjusted I	Hourly Unit	Production:	1.3745	acres/Hour		
				Production:	1.3745	acres/Hour		
		. 20,0000 1.	1 1001	_ ioauciioii.	1.0770			
JOB TIM	IE AND CO	<u>OST</u>						
Fleet s	ize:	1	Grader(s)		Total job time	: 12.37		Hours
I Init =	ost: ¢	SS 00	non como		Total ich acet	. ¢1 105		
Unit c	ost: \$6	65.00	per acre		Total job cost	: <b>\$1,105</b>	1	-

Cost /Acre

\$61.50

\$61.50

# **REVEGETATION WORK**

Task description: Site: Tezak No 2 Pit		Reveg 19.8 acres					
		Per	mit Action: CN-01	Permit/Jol	b#: <u>M1981080</u>		
PROJECT	IDENTIFI	<u>CATION</u>					
Task #: Date: User:	015 2/5/2018 TC1	State: County:	Colorado Fremont	Abbreviation: Filename:	None M080-015		
Ag	ency or organ	nization name: DR	MS				
<u>FERTILIZ</u>	<u>ING</u>						
Materials							

Units /

Acre

50.00

Unit

pound

Cost / Unit

Total Fertilizer Materials Cost/Acre

\$1.23

Application

**Description** 

Potassium nitrate, 13-46-0

Description		Cost /Acre
Truck whirlwind spreader (MEANS 32 01 90.13 0140)		\$111.08
	<b>Total Fertilizer Application Cost/Acre</b>	\$111.08

### **TILLING**

Description	Cost /Acre
Chisel plowing {DMG}	\$90.60
Total Tilling Cost/Acre	\$90.60

# **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Blue Grama - Hachita	1.00	16.32	\$16.27
Indian Ricegrass - Nespar	4.44	14.37	\$34.41
Sand Dropseed	0.20	23.88	\$2.17
Sideoats Grama - Butte	3.64	11.95	\$35.20
Sheep Fescue - Covar	1.04	16.24	\$5.44
Coneflower, Prairie	0.48	13.05	\$15.84
Streambank Wheatgrass - Sodar	2.24	7.30	\$13.64
Thickspike Wheatgrass - Critana	6.78	23.97	\$38.92
Flax, Lewis Blue	2.44	16.19	\$40.26
Siberian Wheatgrass	4.08	10.30	\$16.20
Totals Seed Mix	26.34	153.56	\$218.34

**Application** 

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

### **MULCHING and MISCELLANEOUS**

#### Materials

Description Straw, delivered {MEANS 31 25 14.16 1200}	Units / Acre 2.00	Unit TON	Cost / Unit \$261.00	Cost /Acre \$522.00
Total Mulch Materials Cost/Acre	2.00	TON	\$201.00	\$522.00

**Application** 

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$66.02
	<b>Total Mulch Application Cost/Acre</b>	\$66.02

### **NURSERY STOCK PLANTING**

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

### **JOB TIME AND COST**

 No. of Acres:
 19.8
 Cost / Acre:
 \$1,336.76

 Estimated Failure Rate:
 20%
 Cost / Acre\*:
 \$1,336.76

\*Selected Replanting Work Items: FERTILIZING,TILLING,SEEDING,

MULCHING

Initial Job Cost: \$26,467.85

Reseeding Job Cost: \$5,293.57

Total Job Cost: \$31,761

20.00

# EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description: Mo	b/Demob			
ite: Tezak No 2 Pit	Permit	t Action: <u>CN-01</u>	Permit/Jo	b#: M1981080
PROJECT IDENTIFICATI	<u>ION</u>			
Task #: _ 020	State: C	colorado	Abbreviation:	None
Date: 2/5/2018 User: TC1	County: F	remont	Filename:	M080-020
Agency or organization		S		
EQUIPMENT TRANSPOR	T RIG COST			1 per day CRG Data
Truck Tractor Desc	eription: GENI		AY TRUCK TRACTOR, 6X4, 400 HP (2ND HALF, 2006)	DIESEL POWERED
Truck Trailer Desc	eription:	GENERIC FOLDIN	G GOOSENECK, DROP DEC AILER (25T, 50T, AND 100T)	-
Cost Breakdown:				
Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons	
Ownership Cost/Hour:	\$16.63	\$18.37	\$22.33	
Operating Cost/Hour:	\$44.38	\$46.13	\$50.07	
Operator Cost/Hour:	\$27.66	\$27.66	\$27.66	
Helper Cost/Hour	\$0.00	\$25.39	\$25.39	

# **NON ROADABLE EQUIPMENT:**

Total Unit Cost/Hour:

\$88.67

Machine	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return Trip	DOT Permit
Description	Unit	Cost/hr/ unit	Cost/hr/unit	Size	Cost/hr/	Cost/hr/ fleet	Cost/ fleet
	(TONS)				fleet		
Drill/Broadcast	25.00	\$12.22	\$88.67	1	\$100.89	\$88.67	\$250.00
Seeder with							
Tractor							
Cat 623G	41.35	\$84.05	\$117.55	1	\$201.60	\$117.55	\$250.00
CAT 12M	16.01	\$28.02	\$88.67	1	\$116.69	\$88.67	\$250.00

\$117.55

\$125.45

Subtotals: \$419.18 \$294.89 \$750.00

### **ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
		Subtotals:	\$0.00	\$0.00

### **EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region:

Total one-way travel distance:

Average Travel Speed:

SALIDA

miles

45.00

mph

#### **Transportation Cycle Time:**

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.64	0.64
Return Time (Hours):	0.64	0.64
Loading Time (Hours):	0.25	NA
Unloading Time (Hours):	0.25	NA
Subtotals:	1.79	1.29

### **JOB TIME AND COST**

Total job cost: 3.58 Hours

Total job cost: \$2,840