# STATE OF COLORADO

### **DIVISION OF RECLAMATION, MINING AND SAFETY**

Department of Natural Resources

1313 Sherman St., Room 215 Denver, Colorado 80203 Phone: (303) 866-3567 FAX: (303) 832-8106



May 3, 2012

Garth Cooke PO Box 95 Warne, NC 28909

Re: Iris Project, NOI P-2012-003, Technical Responses Sufficient, Need for Financial Warranty.

Dear Mr. Cooke,

I have reviewed the technical responses submitted by you and by your consultant, Charles Ponchak, and have determined that there are no further issues to be addressed. The responses submitted nearly simultaneously by you and Mr. Ponchak contained information that did not agree on all details. Rather than consider the differences to be revisions to the NOI, this office will consider your responses to take precedence. Specifically, the differing details were (a) drill hole depth, and (b) number of drill holes. We used a drill hole depth of 1,000 feet, and one drill hole open at a time, for our bond estimate. We will approve up to six drill holes at the proposed locations for this initial NOI filing; if additional drill holes or different locations are desired, you may submit a request for modification to this NOI.

The one remaining deficiency to be addressed before you may commence with your project is that of submitting an acceptable financial warranty. The preliminary reclamation cost estimate, totaling \$6,113, is shown in the enclosed packet. Please review these costs and notify me promptly if you see any errors or omissions. You will note that the drill hole closure task comprises the majority of the total costs. Please be reminded that these costs are up-to-date and reflect what the state would incur if a reclamation contractor had to be hired; your own reclamation costs will likely be much lower.

This is your notice to submit an appropriately executed financial warranty to the Division, in the amount shown above if there are no changes, within 60 days of this letter. Failure to submit a financial warranty by that date may result in the Division terminating the NOI. Financial warranty forms are available on the Division's website: <a href="www.mining.state.co.us">www.mining.state.co.us</a>. For all questions regarding the forms please contact Barbara Coria at the Division's Denver Office (see address and phone in letterhead, above).

For all other questions I may be reached at the Division's Durango Field Office: 691 CR 233, Room A-2, Durango, CO 81301; telephone 970-247-5193. I look forward to meeting you and inspecting the project site this year.

Page 1

Garth Cooke, P-2012-003 May 3, 2012

Page 2

Sincerely,

Bob Oswald

**Environmental Protection Specialist** 

Encl: Reclamation cost estimate, dated 5/3/12.

Cc(w/encl): Charles Ponchak, 15292 6050 Road, Montrose, CO 81403

Ec(w/o encl): Steve Shuey, DRMS Grand Junction

Barbara Coria, DRMS Denver

(c:\12-05 docs\Iris FW amt/rco)

### **COST SUMMARY WORK**

Task description: Cost summary Permit Action: New NOI Permit/Job#: P2012003 Site: Iris PROJECT IDENTIFICATION Colorado Abbreviation: Task #: 000 State: None P003-000 Date: 5/3/2012 County: Saguache Filename: User: RCO

Agency or organization name: <u>DRMS</u>

### TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Close and seal drill hole	BOREHOLE	1	16.00	\$3,926.05
002	Remove drilling debris	DEMOLISH	] 1	1.00	\$8.02
003	Grade drill sites and roads	LOADER	] 1	0.43	\$37.00
004	Haul reclamation equipment to and from site	MOBILIZE	] 1	4.66	\$1,078.05
005	Seeding bare areas with approved seed mix	NA	] 1	1.00	\$100.00
		\$ \$5,149.12			

### **INDIRECT COSTS**

### OVERHEAD AND PROFIT:

2.02 Total = \$104.01 Liability insurance: Performance bond: 1.05 Total = \$54.07 Job superintendent: 0.00 Total = \$0.00 Total = \$514.91 Profit: 10.00

 $TOTAL O \& P = \frac{\$672.99}{\$5,822.11}$ CONTRACT AMOUNT (direct + O & P) =  $\frac{\$5,822.11}{\$5,822.11}$ 

### LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs):

Engineering work and/or contract/bid preparation:

Reclamation management and/or administration:

0.00

Total = 0.00

\$0.00

Total = \$0.00

\$291.11

CONTINGENCY: 0.00 Total = \$0.00

TOTAL INDIRECT COST = \$964.10

TOTAL BOND AMOUNT (direct + indirect) = \$6,113.22

## **BOREHOLE SEALING WORK**

	Task description:	Close and sea	al drill hole		. <u> </u>	
Site:	Iris	F	Permit Action:	New NOI	Permit/.	Job#: <u>P2012003</u>
<u>PROJI</u>	ECT IDENTIFICATION	<u>1</u>				
Task # Date User	5/3/2012	State: _ County: _	Colorado Saguache		Abbreviation: Filename:	None P003-001
	Agency or organizat	ion name: D	RMS		(4)	

## **UNIT COSTS**

Borehole Description	Sealing/Item Method	Diameter	Length	Quantity	Unit	Unit Cost	Total Cost
Partial backfill with cuttings	Manual, assume 50% of depth	4	500	1.00	EA	\$100.00	\$100.00
Grout drill hole to collar	Portland cement grout - 4 in. (labor, equip, materials)	4	500	500.00	LF	\$7.65	\$3,826.05

Job Hours:	16.00	Total Cost:	\$3,926.05

Note: NOI project is approved for several drill holes, but only one will be open at a time. Each drill hole will be completely closed and sealed before the next one is opened.

## **DEMOLITION WORK**

	Task descript	ion: Rem	ove drilling debris				
Site:	Iris		Permit Action: New 1	NOI	Pe	rmit/Job#:	P2012003
PROJE	CT IDENT	IFICATION					
Task # Date User	5/3/2012	c	State: Colorado ounty: Saguache	<u></u> 50	Abbreviat Filena		
	Agenc	y or organization na	me: DRMS	- 1/2		,	
JNIT C	<u>osts</u>				Location	adjustment	<u>: 91.30 %</u>
	ure or Item cription	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Iisc deb ontamin	-	Assume 5 cy	Excavate disposal pit with dozer (includes completed pit backfilling/grading)	5.00	CY	\$1.53	\$7.64
ackfill,	bury debris	5 cy	Push demolished materials/rubble/debris into pit - Max. 50 ft. push	5.00	CY	\$0.23	\$1.14
Job H	ours:	1.00	Subtotal (unadjusted):\$	8.78	(adju	otal Cost usted for ocation):	\$8.02

Note: Debris will be buried away from surface or groundwater.

## WHEEL LOADER – LOAD AND CARRY WORK

Task description:	Grade d	lrill sites and ro	ads			
e: <u>Iris</u>		Permit Act	tion: New NO	I	Permit/Job#	: P2012003
PROJECT IDEN	TIFICATION	]				
Task #: 003		State: Colo	rado		Abbreviation:	None
Date: 5/3/20	12	County: Sagu	ache		Filename:	P003-003
User: RCO						
Agency or	organization nar	ne: DRMS				
HOURLY EQUI	PMENT COST	<u>r</u>				
Basic Machir	ne: CAT 446D	- \		Horsepe	N11/4**	101
Attachment				Shift H		per day
1 10000	1. 1.01 0 040		_	Data Sc		CRG)
C 4D 11						<u></u> /
Cost Breakdown:			Utilizatio	on %		
Ownership (	ost/Hour	\$17.87	NA			
Operating C		\$29.61	100			
Operator C		\$38.49	NA			
Total Unit C		\$85.97				
			<del></del>			
Total Fleet	Cost/Hour:	\$85.97	<del></del>			
MATERIAL QUA		00		11.0	105	
Initial volume: Loose volume:	50 56	CC		ell factor: 1.	125	
Sou	rce of estimated	volume. Div	ision of Reclama	ation Mining &	, Safety	
	of estimated swe		Handbook	auoti, Mining G	Bullety	
					****	
HOURLY PROD	<u>UCTION</u>					
Loader Cycle Time:	Unadjust	ed Basic Cycle 1	Γime (load, dum	p, maneuver):	0.475	minutes
Cycle Time I	actors			1	Factor (min.)	Source
<del></del> _		justment - factor	not applicable	0.00	0.000	(Cat HB)
Sto		justment - factor			0.000	(Cat HB)
Truck Own	ership: No ad	justment - factor	not applicable (	0.00	0.000	(Cat HB)
		ljustment - facto			0.000	(Cat HB)
Dump 7	Target: No ad	ustment - factor			0.000	(Cat HB)
			t Cycle Time A		0.000	minutes
		A	djusted Basic C	ycle Time:	0.475	minutes
Rolling Resistance -	Road Condition	<u>s</u>				
1	aul: Rutted d	- irt, little mainter	anna no mator	1" tira manatus	ion 4 0	
		irt, little mainter				<del></del>
Haul and Return Tim		no mus manner	minoc, no water,	т ше репецаг	104 T.V	
<del></del>	Length	Grade Res.	Rolling	Total Res.	Travel Time	I
	(feet)	(%)	Res. (%)	(%)	(minutes)	Source
Haul Route:	100	0.00	4.00	4.00	0.0635	(Cat HB)
Return Route:	100	0.00	4.00	4.00	0.0035	(Cat HD)

			Total Travel Ti Total Cycle Ti		minutes minutes
Load Bucket Capacity					
Rated Capacity:	1.50	LCY (hea	• •	(400 4000) 4 400	
Bucket Fill Factor:	1.100		ck/dirt mixtures	(100-120%) 1.100	
Adjusted Capacity:	1.65	LCY			
Job Condition Correction F Site Altitude: 9000 feet	actors				
		Source			
Altitude Adj:	0.95	(CAT HB	)		
Job Efficiency:	0.83	(1 shift/day	y)		
Net Correction:	0.79	multiplier	<del></del>		
Unadj	usted Hourly Unit P	roduction:	164.47	LCY/Hour	
Adj	usted Hourly Unit P	roduction:	129.68	LCY/Hour	
Adju	usted Hourly Fleet P	roduction:	129.68	LCY/Hour	
JOB TIME AND COST	<u>2</u>				
Fleet size: 1	Loader(s)		Total job time:	0.43	Hours
Unit cost: \$0.66	3/LCY		Total job cost:	\$37.00	

Note: This task of minor surface grading includes all necessary removal of berms, recontouring of leveled drill site, and back-dragging piled soil materials on drill sites and/or temporary roads.

### **EQUIPMENT MOBILIZATION/DEMOBILIZATION**

Task description: Haul reclamation equipment to and from site

Site: Iris Permit Action: New NOI Permit/Job#: P2012003

**PROJECT IDENTIFICATION** 

Task #:004State:ColoradoAbbreviation:NoneDate:5/3/2012County:SaguacheFilename:P003-004

User: RCO

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:	\$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
Total Unit Cost/Hour:	\$88.67	\$117.55	\$125.45

### **NON ROADABLE EQUIPMENT:**

Machine Description	Weight/ Unit (TONS)	Owner ship Cost/hr/ unit	Haul Rig Cost/hr/unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
CAT 446D	9.80	\$17.87	\$88.67	1	\$106.54	\$88.67	\$250.00

Subtotals: \$106.54 \$88.67 \$250.00

### **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	\$78.52	1	\$78.52	\$78.52
		-	-	

Subtotals: \$78.52 \$78.52

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

Nearest Major City or Town within project area region:

Total one-way travel distance:

Average Travel Speed:

Total Non-Roadable Mob/Demob Cost \*

'\* two round trips with haul rig:

Total Roadable Mob/Demob Cost \*

\*\* one round trip, no haul rig:

\$104.69

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.67	0.67
Return Time (Hours):	0.67	0.67
Loading Time (Hours):	0.50	NA =
Unloading Time (Hours):	0.50	NA
Subtotals:	2.33	1.33

## JOB TIME AND COST

Total job time:	4.67	_ Hours
Total job cost:	\$1,078.05	_

Note: portable cement grout mixer (on trailer or skid) and pallet of quikrete bags hauled to site on trailer.