

1313 Sherman Street, Room 215 Denver, CO 80203

February 5, 2015

Dan Collins
B-Mining Company
1417 S. Grand View Dr.
Tempe, AZ 85281
Buena Vista, CO 81211

Re: Deep Creek Placer, Permit M-1986-102, Notice of Surety Increase, SI-03.

Dear Mr. Collins,

The Division of Reclamation, Mining, and Safety (Division) has conducted an audit of the reclamation liability for the above referenced site. Staff notes the reclamation liability was updated in 2009 under SI-02 and repeated requests for submission of the proper amount have not been addressed by B-Mining. Division staff should have taken enforcement action then but for some reason did not. Therefore, instead of pursuing any action on an outdated estimate the Division has updated the 2009 estimate using annual reports. (copy enclosed) The estimate shows inflation has increased the liability to \$18,394.00.

In an effort to ensure the financial warranty remains adequate to reclaim this site per the requirements of the approved reclamation plan, the Division has updated the reclamation cost estimate (copy enclosed). Based on the current conditions noted above, the estimated reclamation liability is now \$18,894.00. This is an increase of \$6,394.00 from the current amount of \$12,000.00 held. Clearly, the site is under-bonded. Therefore, pursuant to Section 34-32.5-117(4) of the Colorado Land Reclamation Act, adequate financial warranty must be submitted to DRMS within 60 days of the mailing date of this notice. The due date for submission and acceptance is April 6, 2015.

Please note failure to submit the increase by the date specified shall result in the matter being scheduled for an enforcement hearing in May 2015 that may result in civil penalties of \$100 to \$1000 per day, permit revocation, and financial warranty forfeiture. This is a path the Division does not wish to pursue so your prompt attention will be appreciated.



If you need additional information please visit our website @ <a href="http://mining.state.co.us">http://mining.state.co.us</a>. You may also contact me directly at the Division of Reclamation, Mining and Safety, Grand Junction Field Office, by telephone at 970.241.1117, or by e-mail at <a href="mailto:russ.means@state.co.us">russ.means@state.co.us</a>.

Sincerely,

G. Russell Means

**Senior Environmental Protection Specialist** 

West Slope Field Office Supervisor

Enclosure: SI-03, Reclamation Liability Update, GRM, 10/15/2014



### COST SUMMARY WORK

Task description: 2014 Bond Update

Permit Action: 2014 Bond

Site: Deep Creek Placer

Update

Permit/Job#: M1986102

#### **PROJECT IDENTIFICATION**

Task #:

000

State:

Colorado

Abbreviation:

None

Date: User: 10/15/2014 **GRM** 

County: San Miguel Filename:

M102-000

Agency or organization name: DRMS

## TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Rip asphalt on access road	RIPPER	1	0.25	\$42.00
002	Distribute soil and fines for spreading	LOADER	1	1.03	\$100.00
003	Pull down unstable spoil material onto operating pad	EXCAVATE	1	14.88	\$957.00
004	Pull in berm at edge of operating pad, for backfill	EXCAVATE	1	2.77	\$178.00
005	Push coarse material (berms, limestone spoils) into portals	DOZER	1	3.35	\$550.00
006	Remove or dispose of onsite debris, Etc.	DEMOLISH	1	0.00	\$3,961.57
007	Push loadout fill material to portals, across operating pad	DOZER	1	0.70	\$116.00
008	Rip operating pad prior to spreading fines and soil	RIPPER	1	2.71	\$446.00
009	Build waterbars on access road, per plan	DOZER	1	0.06	\$10.00
010	Spread available soil and fines on operating pad and road	DOZER	1	0.92	\$151.00
011	Revegetate 1.8 acres per plan	REVEGE	1	8.00	\$2,354.00
012	Mobilize reclamation equipment to site	MOBILIZE	1	7.00	\$3,924.00
		SUBTO	OTALS:	41.67	\$12,790

#### **INDIRECT COSTS**

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

Liability insurance: 2.02% Performance bond: 1.05% Job superintendent: 20.84 hrs Profit: 10.00%

Total = \$258.36

Total = \$134.30 Total = \$1,565.96

Total = \$1,279.00

TOTAL O & P =\$3,237.62

CONTRACT AMOUNT (direct + O & P) =

\$16,027.62

## LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): Engineering work and/or contract/bid preparation: Reclamation management and/or administration:

500.00 4.25% 5.00%

Total = 500.00

Total = \$681.17 \$801.38

CONTINGENCY:

3.00

Total = \$383.70

TOTAL INDIRECT COST = \$5,603.87

TOTAL BOND AMOUNT (direct + indirect) = \$\sqrt{\$18,393.87}\$

# BULLDOZER RIPPING WORK

Task des	cription:	Rip as	halt on access roa	ıd			
Site: Deep	Creek Placer		Permit Actio	on: 2014 Bond Up	odate Permi	t/Job#: _	M1986102
PROJE	CT IDENTII	FICATIO	<u>N</u>				
Task	#: 001		State: Colora	ıdo	Abbrevi	ation: N	Vone
Dat	te: 10/15/201	4	County: San M		Filer	name: N	/I102-001
Use	er: GRM	***************************************					
	Agency or org	anization na	me: DRMS				
HOUR	LY EQUIPM	ENT COS	<u>5T</u>				
	Basic Machin	ne: Cat D	7R DS XR Series I	I	Horsepower:	23	8
R	ipper Attachme	nt: 3-Sha	nk Ripper		Shift Basis:	1 per	day
					Data Source:	(CR	G)
Cost Bre	eakdown:						
					Utilization %		
		nership Cost		\$46.88	NA		
		erating Cost		\$79.23	100		
		erating Cost perator Cost		\$0.00 \$38.01	100 NA		
		al Unit Cost		\$164.12	INA		
		al Fleet Cos		\$164.12			
			7110u1	3104.12			
MATE	RIAL QUAN	<u>TITIES</u>		Selected estimating	g method: Area		
Alternat	e Methods:						
smic: NA			Bank Volum	ie: NA	BCY	N.	A
Area: 0.15	8	icres	Rip Depth (f	t): 0.50	Volume: 121		BCY or
HOUR Seismic	LY PRODUC			% of Road Surface			
Boilding	<u>*</u>	Se	ismic Velocity: _	NA	feet/second		
Area:							
			Ripping Depth: _	0.50	mph		
			Ripping Width:	6.50	degrees		
			Ripping Length: _	200.00	feet		
		-	e Dozer Speed:	88.00	feet		
			Maneuver Time: _	0.25	feet		
			on per unit area:	0.710	acres/hour		
Job Cor	dition Correction						
	Unadjust	ed Hourly U	Jnit Production:	0.710	Acres/hr		
			Site Altitude:	8,000	feet		
			Altitude Adj:	1.00	(CAT HB)		
			Job Efficiency:	0.83	(1 shift/day	")	
			Net Correction:	0.83	multiplier		
		-	lourly Unit Product		Acres/hr		
		Adjusted H	ourly Fleet Product	tion: 0.59	Acres/hr		
JOB T	IME AND C	<u>OST</u>					
Flee	et size:	1	Grader(s)	Total job tir	ne: <b>0.2</b>	5	Hours
Uni	it cost: \$20	78 578	Per acre	Total job co	net· \$40	•	

WHEEL LOADER – LOAD AND CARRY WORK Task description: Distribute soil and fines for spreading Permit Action: 2014 Bond Update Site: Deep Creek Placer Permit/Job#: M1986102 PROJECT IDENTIFICATION Task #: 002 State: Colorado Abbreviation: None 10/15/2014 Date: County: San Miguel Filename: M102-002 User: GRM **DRMS** Agency or organization name: **HOURLY EQUIPMENT COST** Basic Machine: **CAT 938H** Horsepower: 172 Attachment 1: ROPS Cab Shift Basis: 1 per day Data Source: (CRG) Cost Breakdown: Utilization % Ownership Cost/Hour: \$21.63 NA Operating Cost/Hour: \$38.09 100 Operator Cost/Hour: \$37.13 NA Total Unit Cost/Hour: \$96.85 \$96.85 Total Fleet Cost/Hour: MATERIAL QUANTITIES Initial volume: CCY Swell factor: 1.000 200 LCY Loose volume: Source of estimated volume: Permit map, plans Source of estimated swell factor: Cat Handbook HOURLY PRODUCTION

Loader Cycle Time:	Unadjusted Basic Cycle Time (load, dump, maneuver):	0.483	minutes
Cycle Time Factors		Factor (min.)	Source
Material:	Material 3/4" to 6" diameter 0.00	0.000	(Cat HB)
Stockpile:	Conveyor or dozer piled 10 ft. high and up 0.00	0.000	(Cat HB)
Truck Ownership:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Operation:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Dump Target:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
	Net Cycle Time Adjustment:	0.000	minutes
	Adjusted Basic Cycle Time:	0.483	minutes

#### Rolling Resistance - Road Conditions

Haul: Very hard, smooth, asphalt or concrete, no tire penetration 1.2

Return: Very hard, smooth, asphalt or concrete, no tire penetration 1.2

## Haul and Return Time

	Length (feet)	Grade Res.	Rolling Res. (%)	Total Res.	Travel Time (minutes)	Source
Haul Route:	250	0.00	1.20	1.20	0.1761	(Cat HB)
Return Route:	250	0.00	1.20	1.20	0.1680	(Cat HB)

				Total Travel Tis Total Cycle Tis		minutes minutes
Load Bucket Capacity						
Rated Capac Bucket Fill Fac	ctor:	3.90 0.825			(75 - 90%) 0.825	
Adjusted Capac Job Condition Correct Site Altitude: 8000 fee	ion Factors	3.22	LCY			
Altitude Adj Job Efficiency: Net Correction: U	0.8 0.8 Jnadjusted H Adjusted H	3	roduction:		LCY/Hour LCY/Hour LCY/Hour	
JOB TIME AND C	COST					
Fleet size:	1	Loader(s)		Total job time:	1.03	Hours
Unit cost: 5	\$0.500	/LCY		Total job cost:	\$100	

# HYDRAULIC EXCAVATOR WORK

- "					ting pad		
Deep Creek Placer		Perm	nit Action:	2014 Bond Upda	ite	Permit/Job	#: <u>M1986102</u>
PROJECT IDENTI	FICATION	<u>ON</u>					
Task #: 003		State:	Colorado			A 1-1	None
Date: 10/15/20	1.4	-	San Migu	o1		Abbreviation:	
User: GRM	14	County:	San Migu	e1		Filename:	_M102-003
Agency or org		-	MS				
HOURLY EQUIPM	IENT CO	<u>DST</u>					
Basic Machine:	Cat 307	7D 7'-3" Stic	k		Horsepow	ver:	56
Attachment 1:	ROPS	Cab		V	Weight (M		7.23
					Shift Bas		per day
					Data Sour	rce:	(CRG)
Cost Breakdown:							
0 1: 0	. /7.7	015.4		Utilization %			
Ownership Cos		\$15.4		NA NA	_		
Operating Cos		\$20.6		100	_		
Operator Cos	_	\$28.1		NA			
Total Unit Cos	WHour: _	\$64.2					
Total Fleet Co	st/Hour: _	\$64.2	27				
MATERIAL QUAN	<b>NTITIES</b>						
Initial volume:	500		CCY	Swell facto	or: 1.69	5	
Loose volume:	848		LCY				
		ated volume: swell factor:	Permit n				
	estimated CTION	swell factor:	Cat Hand	dbook	ety):		
Source of HOURLY PRODUC	estimated CTION	swell factor:	Cat Hand	dbook bucket, swing emp		LOW AVER	AGE
Source of HOURLY PRODUC	estimated CTION (load buck	swell factor:	Cat Hand ded, dump	dbook bucket, swing emp Condition Descripti	ion: BE	LOW AVER	AGE
Source of HOURLY PRODUC	estimated CTION (load buck	swell factor:	Cat Hand ded, dump	dbook bucket, swing emp	ion: BE	/ERAGE	AGE minutes
Source of HOURLY PRODUC	estimated CTION (load buck	swell factor:	Cat Hand ded, dump	dbook bucket, swing emp Condition Descripti hin Basic Descripti	ion: BE	/ERAGE	
Source of  HOURLY PRODUCE  Excavator Cycle Time	estimated CTION (load buck	swell factor:	Cat Hand ded, dump	dbook bucket, swing emp Condition Descripti hin Basic Descripti	ion: BE AV lue: 0.2	VERAGE 174	
Source of  HOURLY PRODUCE  Excavator Cycle Time	estimated CTION (load buck	swell factor:	Cat Hand ded, dump Basic Job ( andition with	dbook  bucket, swing emp  Condition Descripti hin Basic Descripti Cycle Time Val	ion: BE AV lue: 0.2	VERAGE 174	minutes
Source of  HOURLY PRODUCE  Excavator Cycle Time  Load Bucket Capacity	estimated CTION (load buck Secon	swell factor: set, swing load ndary Job Co	Cat Hand  ded, dump  Basic Job Condition with	bucket, swing emp Condition Descripti hin Basic Descripti Cycle Time Val	ion: BE ion: AV lue: 0.2  Bucket S	VERAGE 174 Size Class:	minutes
Source of  HOURLY PRODUCE  Excavator Cycle Time  Load Bucket Capacity  Rated Capac	estimated  CTION (load buck  Seconity:  ity:	swell factor:  set, swing load  ndary Job Cor  0.40	Cat Hand  ded, dump  Basic Job Condition with	dbook  bucket, swing emp  Condition Descripti hin Basic Descripti Cycle Time Val	ion: BE ion: AV lue: 0.2  Bucket S	VERAGE 174 Size Class:	minutes
Source of  HOURLY PRODUCE  Excavator Cycle Time  Load Bucket Capacity  Rated Capac Bucket Fill Face	estimated  CTION (load buck  Seconity: tor: ity:	swell factor:  set, swing load  ndary Job Cor  0.40  0.900  0.36	Cat Hand  ded, dump  Basic Job C  ndition with  LCY (he	bucket, swing emp Condition Descripti hin Basic Descripti Cycle Time Val	ion: BE ion: AV lue: 0.2  Bucket S	VERAGE 174 Size Class: 1	minutes
Source of  HOURLY PRODUCE  Excavator Cycle Time  Load Bucket Capacity  Rated Capac Bucket Fill Fac Adjusted Capac	estimated  CTION (load buck  Seconity: tor: ity:	swell factor:  set, swing load  ndary Job Cor  0.40  0.900  0.36	Cat Hand  ded, dump  Basic Job (  ndition with  LCY (he  Rock - P	bucket, swing emp Condition Descripti hin Basic Descripti Cycle Time Val eaped) Coorly Blasted (85)	ion: BE ion: AV lue: 0.2  Bucket S %-95%) 0	VERAGE 174 Size Class: 1	minutes
Source of  HOURLY PRODUCE  Excavator Cycle Time  Load Bucket Capacity  Rated Capac Bucket Fill Fact Adjusted Capac  Job Condition Correction	estimated CTION (load buck Seconity: ttor: ity: on Factors	swell factor:  tet, swing load  ndary Job Co  0.40  0.900  0.36	Cat Hand  ded, dump  Basic Job ( ndition with  LCY (he Rock - P LCY	bucket, swing emp Condition Description Basic Description Cycle Time Value Poorly Blasted (85)	ion: BE ion: AV lue: 0.2  Bucket S %-95%) 0	VERAGE 174 Size Class: 1	minutes
Source of  HOURLY PRODUCE  Excavator Cycle Time  Load Bucket Capacity  Rated Capac Bucket Fill Fact Adjusted Capac  Job Condition Correcti  Altitude Adj:	estimated  CTION (load buck  Seconity: tor: ity: on Factors	swell factor:  set, swing load  ndary Job Cor  0.40  0.900  0.36	Cat Hand  ded, dump  Basic Job Condition with  LCY (he Rock - P LCY  Source (CAT H	bucket, swing emp Condition Description Basic Description Cycle Time Value Poorly Blasted (85) Site	ion: BE ion: AV lue: 0.2  Bucket S %-95%) 0	VERAGE 174 Size Class: 1	minutes
Source of  HOURLY PRODUCE  Excavator Cycle Time  Load Bucket Capacity  Rated Capac Bucket Fill Fact Adjusted Capac  Job Condition Correction	estimated  CTION (load buck  Secon  ity: tor: ity: on Factors  0 0	swell factor:  set, swing load  ndary Job Co  0.40  0.900  0.36	Cat Hand  ded, dump  Basic Job Condition with  LCY (heter Rock - Pource (CAT House)  (1 shift/d	bucket, swing emp Condition Description hin Basic Description Cycle Time Value eaped) Coorly Blasted (85) Site Eaped B) ay)	ion: BE ion: AV lue: 0.2  Bucket S %-95%) 0	VERAGE 174 Size Class: 1	minutes
Source of  HOURLY PRODUCE  Excavator Cycle Time  Load Bucket Capacity  Rated Capac Bucket Fill Fact Adjusted Capac  Job Condition Correction  Altitude Adj: Job Efficiency: Net Correction:	estimated  CTION (load buck  Seconity: tor: ity: on Factors  0 0 0	swell factor:  set, swing load  ndary Job Cor  0.40  0.900  0.36  8.87  8.83  .72	Cat Hand  ded, dump  Basic Job Condition with  LCY (he Rock - P LCY  Source (CAT H (1 shift/d) multiplie	bucket, swing emp Condition Description hin Basic Description Cycle Time Value eaped) Poorly Blasted (85) Site e B) ay)	ion: BE ion: AV lue: 0.2  Bucket S %-95%) 0  Altitude: §	VERAGE 274 Size Class:900 8000 feet	minutes
Source of  HOURLY PRODUCE  Excavator Cycle Time  Load Bucket Capacity  Rated Capac Bucket Fill Fact Adjusted Capac  Job Condition Correction  Altitude Adj: Job Efficiency: Net Correction:	estimated  CTION (load buck  Secon  ity: tor: ity: on Factors  0 0 0  Unadjusted	swell factor:  set, swing load  ndary Job Cor  0.40  0.900  0.36  3.87  8.83  7.72  Hourly Unit 1	Cat Hand  ded, dump  Basic Job Condition with  LCY (he Rock - PLCY  Source (CAT H (1 shift/d multiplie)  Production:	bucket, swing emp Condition Description hin Basic Description Cycle Time Value eaped) Coorly Blasted (85) Site B ay) r	ion: BE ion: AV lue: 0.2  Bucket S %-95%) 0  Altitude: 3	VERAGE 274 Size Class:900 8000 feet Hour	minutes
Source of  HOURLY PRODUCE  Excavator Cycle Time  Load Bucket Capacity  Rated Capac Bucket Fill Fact Adjusted Capac  Job Condition Correction  Altitude Adj: Job Efficiency: Net Correction:	estimated  CTION (load buck  Secon  ity: tor: ity: on Factors  0 0 0  Unadjusted Adjusted	swell factor:  set, swing load  ndary Job Cor  0.40  0.900  0.36  8.87  8.83  7.72  Hourly Unit 1 Hourly Unit 1	Cat Hand  ded, dump  Basic Job Condition with  LCY (he Rock - PLCY  Source (CAT H (1 shift/d multiplie)  Production:  Production:	bucket, swing emp Condition Description hin Basic Description Cycle Time Value eaped) Coorly Blasted (85) Site  B) ay)  78.83 56.92	ion: BE ion: AV lue: 0.2  Bucket S %-95%) 0  Altitude: 1  LCY/F LCY/F	VERAGE 274 Size Class:900 8000 feet Hour Hour	minutes
Source of  HOURLY PRODUCE  Excavator Cycle Time  Load Bucket Capacity  Rated Capac Bucket Fill Fact Adjusted Capac  Job Condition Correcti  Altitude Adj: Job Efficiency: Net Correction:	estimated  CTION (load buck  Secon  ity: tor: ity: on Factors  0 0 0  Unadjusted Adjusted Adjusted	swell factor:  set, swing load  ndary Job Cor  0.40  0.900  0.36  3.87  8.83  7.72  Hourly Unit 1	Cat Hand  ded, dump  Basic Job Condition with  LCY (he Rock - PLCY  Source (CAT H (1 shift/d multiplie)  Production:  Production:	bucket, swing emp Condition Description hin Basic Description Cycle Time Value eaped) Coorly Blasted (85) Site B) ay) r 78.83 56.92	ion: BE ion: AV lue: 0.2  Bucket S %-95%) 0  Altitude: 3	VERAGE 274 Size Class:900 8000 feet Hour Hour	minutes
Source of  HOURLY PRODUCE  Excavator Cycle Time  Load Bucket Capacity  Rated Capac Bucket Fill Fact Adjusted Capac  Job Condition Correcti  Altitude Adj: Job Efficiency: Net Correction:  U  JOB TIME AND Capac	estimated  CTION (load buck  Secon  ity: tor: ity: on Factors  0 0 0  Unadjusted Adjusted Adjusted Adjusted	ndary Job Con  0.40  0.900  0.36  8.87  8.83  7.72  Hourly Unit 1 Hourly Fleet 1	Cat Handeled, dump Basic Job Candition with LCY (he Rock - PLCY  Source (CAT H (1 shift/d multiplie Production: Production: Production: Production:	bucket, swing emp Condition Description hin Basic Description Cycle Time Value eaped) Coorly Blasted (85) Site B) ay) r 78.83 56.92 56.92	ion: BE ion: AV lue: 0.2  Bucket S %-95%) 0  Altitude: 1  LCY/F LCY/F	VERAGE 274 Size Class:900 8000 feet Hour Hour Hour	minutes  Medium
Source of  HOURLY PRODUCE  Excavator Cycle Time  Load Bucket Capacity  Rated Capac Bucket Fill Fact Adjusted Capac  Job Condition Correcti  Altitude Adj: Job Efficiency: Net Correction:	estimated  CTION (load buck  Secon  ity: tor: ity: on Factors  0 0 0  Unadjusted Adjusted Adjusted	swell factor:  set, swing load  ndary Job Cor  0.40  0.900  0.36  8.87  8.83  7.72  Hourly Unit 1 Hourly Unit 1	Cat Handeled, dump Basic Job Candition with LCY (he Rock - PLCY  Source (CAT H (1 shift/d multiplie Production: Production: Production: Production:	bucket, swing emp Condition Description hin Basic Description Cycle Time Value eaped) Coorly Blasted (85) Site  B) ay)  78.83 56.92	ion: BE ion: AV lue: 0.2  Bucket S %-95%) 0  Altitude: 1  LCY/F LCY/F	VERAGE 274 Size Class:900 8000 feet Hour Hour	minutes

## HYDRAULIC EXCAVATOR WORK

Task description:	Pull in berm at e	dge of oper	ating pad, for backf	ill	
Deep Creek Placer	Perr	mit Action:	2014 Bond Update	Perm	it/Job#: <u>M1986102</u>
PROJECT IDENTIFIC	CATION				
Task #: 004 Date: 10/15/2014 User: GRM	State: County:	Colorado San Migu		Abbrevi File	name: None M102-004
Agency or organi	zation name: DF	RMS			
HOURLY EQUIPMEN	NT COST				
Basic Machine:	Cat 307D 7'-3" Stic	ck	Но	orsepower:	56
Attachment 1:	ROPS Cab			ight (MT):	7.23
				hift Basis: ita Source:	1 per day (CRG)
Cost Breakdown:					
			Utilization %		
Ownership Cost/H			NA 100		
Operating Cost/H Operator Cost/H			100 NA		
Total Unit Cost/H			IVA		
Total Fleet Cost/F	Hour: \$64.	.27			
MATERIAL QUANTI Initial volume: 15 Loose volume: 16	0	CCY LCY	Swell factor:	1.125	
	f estimated volume: imated swell factor:				
		. Cat Hai	Idoook		
HOURLY PRODUCT	<u>ION</u>				
Excavator Cycle Time (los	ad bucket, swing lo	aded, dump	bucket, swing empty)	<u>):</u>	
		Basic Job	Condition Description	: AVERAG	E
	Secondary Job C		thin Basic Description		
			Cycle Time Value	: 0.242	minutes
Load Bucket Capacity					
				Bucket Size Clas	ss: Medium
Rated Capacity: Bucket Fill Factor:		_ LCY (h		) 0 950	
Adjusted Capacity:		LCY	ough clay (80% - 90%	0.850	
Job Condition Correction			Site Al	ltitude: <u>8000</u> fee	at .
sob condition correction	I dotoib	C		intude: <u>6000</u> let	,
Altitude Adj:	0.87	Sourc (CAT F			
Job Efficiency:	0.83	(1 shift/o			
Net Correction:	0.72	multipli			
T Ina	djusted Hourly Unit	t Production	a: 84.30	LCY/Hour	
	djusted Hourly Unit			LCY/Hour	
	ljusted Hourly Fleet			LCY/Hour	
JOB TIME AND COS	<u>5T</u>				
Fleet size: 1	Excava	tor	Total job time:	2.77	Hours
Unit cost: \$1.0	)56 /LCY		Total job cost:	\$178	

## **BULLDOZER WORK**

Task description:	Push coarse material (bern	ns, limestone spoils) into j	portals	·
Deep Creek Placer	Permit Action:	2014 Bond Update	Permit/Job#:	M198610
PROJECT IDENTIFI	CATION			
Task #: 005	State: Colorado	<b>.</b>	Abbreviation:	None
Date: 10/15/2014	County: San Mig		Filename:	M102-005
User: GRM	County	uci	i fichame.	102-003
-				
Agency or organ	ization name: DRMS			100,5
HOURLY EQUIPME	NT COST			
Basic Machine: Cat	D7R DS XR Series II			
Horsepower: 238		_		
Blade Type: Sen	ni-Universal			
	ank ripper			
Shift Basis: 1 pe	er day			
Data Source: (CR	.G)			
Cost Propledoum:				
Cost Breakdown:		I Itilization 9/		
Ownership Cost/Hour:	\$46.88	<u>Utilization %</u> NA		
Operating Cost/Hour:	\$79.23	100		
Ripper op. Cost/Hour:	\$0.00	100		
Operator Cost/Hour:	\$38.01			
Operator Cost/Hour.	\$30.01	NA	100	
Total unit Cost/Hour:	0			
Total Fleet Cost/Hour:	\$164.12			
Initial Volume: 1,029 Swell factor: 1.000				
	9 LCY			
Source of estimated volum		tasks 3 & 4		
Source of estimated swell	factor: Cat Handbook			
HOURLY PRODUCT	<u>rion</u>			
Average push distance:	100 feet			
Unadjusted hourly produc				
Materials consistency des	cription: Partly consolidate	ed stockpile 1.1		
Average push gradient:	0 %			
Average push gradient.  Average site altitude:	8,000 feet			
Material weight:	3,300 lbs/LCY		_	
Weight description:	Decomposed rock - 75% Roc	ck, 25% Earth		
Job Condition Correction		Source		
Operator		(AVG.)		
Material consiste		(CAT HB)		
Dozing me		(GEN.)		
	oility: 1.000	(AVG.)		
Job effici	ency: 0.830	(1 SHIFT/DAY	7)	

(1 SHIFT/DAY)

Spoil pile:	0.900	(SSD-FC)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.697	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4295

Adjusted unit production: 306.79 LCY/hr
Adjusted fleet production: 306.79 LCY/hr

## **JOB TIME AND COST**

Fleet size: 1 Dozer(s)
Unit cost: \$0.535/LCY

Total job time: 3.35 Hours
Total job cost: \$550

### **DEMOLITION WORK**

Task description:

Remove or dispose of onsite debris, Etc.

Site: Deep Creek Placer

Permit Action: 2014 Bond Update

Permit/Job#: M1986102

## **PROJECT IDENTIFICATION**

Task #:

006 10/15/2014 State:

Colorado

Abbreviation:

None

Date: User:

**GRM** 

County: San Miguel Filename:

M102-006

Agency or organization name:

DRMS

### **UNIT COSTS**

## Location adjustment: 89.00 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Overhead powerlines	415 LF single pole lines	Powerline or telephone line, overhead, wood - Single pole	415.00	LF	\$2.67	\$1,108.05
Electric transformers, non-PCB type	3 @ 5 cfr or more, ea	Loading and 2 mile haul, no salvage - Machine loading	1.00	CY	\$17.05	\$17.05
Drums of waste oil and other fluid	2 @55 gal, nonleaky	Liquid pickup - 55 gal. drums (non-leaking drums only)	2.00	EA	\$225.00	\$450.00
Fuel Tank, Diesel, 300 gal	1 @ 300 gal	Solid transport, small truck (max. 6 drums, 4 cy, or 1.5 tons) - Average	30.00	MI	\$1.27	\$38.10
Portal Demo on shop door	10 x 10 x 1 ft	Excavate disposal pit with dozer (includes completed pit backfilling/grading)	100.00	CY	\$1.65	\$165.00
Shop structures, interior demo	10 CY push into adit	Excavate disposal pit with dozer (includes completed pit backfilling/grading)	270.00	CY	\$1.65	\$445.50
Loadout cribbing, metal debris, backfill	10 Cy push into adit	Excavate disposal pit with dozer (includes completed pit backfilling/grading)	270.00	CY	\$1.65	\$445.50
Ripped asphalt from road, backfill	40 CY. push into adit	Excavate disposal pit with dozer (includes completed pit backfilling/grading)	1,080.00	CY	\$1.65	\$1,782.00

			Total Cost	
	Subtotal		(adjusted for	
Job Hours: 0.00	(unadjusted):	\$4,451.20	location):	\$3,961.57

#### **BULLDOZER WORK**

Push loadout fill material to portals, across operating pad Task description: Site: Deep Creek Placer Permit Action: 2014 Bond Update Permit/Job#: M1986102 PROJECT IDENTIFICATION Task #: 007 Colorado None State: Abbreviation: Date: 10/15/2014 San Miguel M102-007 County: Filename: User: **GRM** Agency or organization name: DRMS HOURLY EQUIPMENT COST Basic Machine: Cat D7R DS XR Series II Horsepower: 238 Semi-Universal Blade Type: Attachment: 3-shank ripper Shift Basis: 1 per day Data Source: (CRG) Cost Breakdown: Utilization % Ownership Cost/Hour: \$46.88 NA Operating Cost/Hour: \$79.23 100 Ripper op. Cost/Hour: \$0.00 100 Operator Cost/Hour: \$38.01 NA Total unit Cost/Hour: Total Fleet Cost/Hour: \$164.12 **MATERIAL QUANTITIES** Initial Volume: 100 Swell factor: 1.215 **122** LCY Loose volume:

Source of estimated volume: Site maps Source of estimated swell factor: Cat Handbook

### **HOURLY PRODUCTION**

200 feet Average push distance: Unadjusted hourly production: 410.8 LCY/hr

Materials consistency description: Partly consolidated stockpile 1.1

0 % Average push gradient: Average site altitude: 8,000 feet

Material weight: 3,300 lbs/LCY

Weight description: Decomposed rock - 75% Rock, 25% Earth

Job Condition Correction Factor Source Operator Skill: 0.750 (AVG.) Material consistency: 1.100 (CAT HB) Dozing method: 1.100 (50% SL) 1.000 Visibility: (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:	0.697	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4200

Adjusted unit production: 172.54 LCY/hr

Adjusted fleet production: 172.54 LCY/hr

## **JOB TIME AND COST**

Fleet size: 1 Dozer(s)

Unit cost: \$0.951/LCY

Total job time: 0.70 Hours

Total job cost: \$116

# **BULLDOZER RIPPING WORK**

Task	description:	Rip op	erating pad prior	to spreading fines	and soil			
Site: D	eep Creek P	lacer	Permit Acti	on: 2014 Bond U	pdate P	ermit/Job#:	M198610	)2
PRO	OJECT IDI	ENTIFICATIO	<u>N</u>					
Т	Task #: 008	3	State: Color	ado	Abb	reviation:	None	
		16/2014		liguel		Filename:	M102-008	3
	User: GR	M						
	Agency	or organization na	ame: DRMS					
НО	URLY EQ	UIPMENT COS	<u>ST</u>					
	Basic I	Machine: Cat D	7R DS XR Series	II	Horsepower:		238	
	Ripper Att	achment: 3-Sha	ink Ripper		Shift Basis:		er day	
					Data Source:	((	CRG)	
Cost	t Breakdown:							
					Utilization %			
		Ownership Cost		\$46.88	NA	_		
	ת:	Operating Cost		\$79.23	100	_		
	Kipp	per Operating Cost Operator Cost		\$0.00 \$38.01	100 NA			
		Total Unit Cos		\$164.12	INA	_		
		Total Fleet Cos						
			/nour:	\$164.12				
MA	TERIAL C	<u>UANTITIES</u>		Selected estimating	g method: Are	a		
Alte	rnate Method	<u>ls:</u>						
mic: N	ÍΑ		Bank Volun	ne: NA	BCY		NA	
rea: 1.	.60	acres	Rip Depth (f			1,291		BCY or
		Source of estima	ited quantity: Pe	ermit map, applicati	on reclamation n	nan		
IIO	TIDE V DD			omme map, approun	on, reoralitation in	шр		
HO	UKLY PRO	<u>ODUCTION</u>						
<u>Seis</u>	smic:	C.	tt \$7.1 - ta	27.4	<b>6</b> ./			
		Se	ismic Velocity: _	NA	feet/sec	cond		
Area	<u>a:</u>							
		-	Ripping Depth:	0.50	mph			
			Ripping Width:	6.50	degrees	S		
			Ripping Length:	200.00	feet			
		_	Aaneuver Time:	88.00 0.25	feet			
		_	on per unit area:	0.710	feet acres/h	Our		
Joh	Condition Co	orrection Factors	_	0.710		Our .		
		adjusted Hourly U	Init Production:	0.710	Acres/l	ar.		
		,	_		<u> </u>			
			Site Altitude:	8,000	feet	ימו)		
			Altitude Adj: Job Efficiency:	1.00 0.83	(CAT I (1 shift	•		
			Net Correction:	0.83	(1 siiit multipl	T .		
		-	ourly Unit Produc		Acres/hr			
		-	ourly Fleet Produc	tion: 0.59	Acres/hr			
	B TIME A	ND COST						
	Fleet size:	1	Grader(s)	Total job tii	me:	2.72	Ho	urs
	Unit cost:	\$278.578	Per acre	Total job co	ost:	\$446		

# **BULLDOZER WORK**

Task description:	Build waterbars on access ro	oad, per plan		
te: Deep Creek Placer	Permit Action:	2014 Bond Update	Permit/Job#:	M1986102
PROJECT IDENTIFIC	ATION			
Task #: 009 Date: 10/16/2014 User: GRM	State: Colorado County: San Migue	el	Abbreviation: Filename:	None M102-009
Agency or organiz	zation name: DRMS			
HOURLY EQUIPMEN	T COST			
Horsepower: 238 Blade Type: Semi-				
Cost Breakdown:	7	_		
Ownership Cost/Hour:	\$46.88	Utilization % NA		
Operating Cost/Hour:	\$79.23	100		
Ripper op. Cost/Hour:	\$0.00	100		
Operator Cost/Hour:	\$38.01	NA		
Initial Volume: 20 Swell factor: 1.215 Loose volume: 24 LC	<u> </u>			
Source of estimated volume Source of estimated swell f		ion, Mining & Safety		
HOURLY PRODUCTI	<u>ON</u>			
Average push distance: Unadjusted hourly products	65 feet on: 921.6 LCY/hr			
Materials consistency descri	ription: Partly consolidated	stockpile 1.1		
Average push gradient:Average site altitude:	0 % 8,000 feet			
Material weight:	3,300 lbs/LCY		_	
Weight description:	Decomposed rock - 75% Rock	x, 25% Earth		
Job Condition Correction F Operator SI		Source (AVG.)		
Material consister	icy: 1.100	(CAT HB)		
Dozing meth		(50% SL)		
Visibil		(AVG.)		
Job efficien	icy: 0.830	(1 SHIFT/DAY	()	

Spoil pile:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.697	(CAT HB)
Blade type:	1.000	(PAT)
		()

Net correction: 0.4200

Adjusted unit production: 387.07 LCY/hr

Adjusted fleet production: 387.07 LCY/hr

## **JOB TIME AND COST**

Fleet size: 1 Dozer(s)

Unit cost: \$0.424/LCY

Total job time: 0.06 Hours

Total job cost: \$10

## BULLDOZER WORK

Deep Creek Pla	icer	P <sub>a</sub>	nit Action	2014 Bond Update	Permit/Job#:	M1986102
Deep Creek 112	icei	_ 1011	int Action.	2014 Bond Opuate	_ FeIIII0300#.	W1196010.
PROJECT IDE	NTIFICATIO	<u>ON</u>				
Task #: 010		State:	Colorado		Abbreviation:	None
Date: 10/1	6/2014	County:	San Migue	el	Filename:	M102-010
User: GRN	Л	·			-	
Agency o	or organization	name: DR	MS			
HOURLY EQU				-		
			••			
Basic Machine:		S XR Series	Ш			
Horsepower:						
Blade Type:						
Attachment:		per		<del></del>		
Shift Basis:						
Data Source:	(CRG)					
Cost Breakdown:						
				Utilization %		
Ownership Cost/	Hour:	\$46.88		NA NA		
Operating Cost/	Hour:	\$79.23		100		
Ripper op. Cost/		\$0.00		100		
Operator Cost/		\$38.01		NA		
-				1 77		
70 . 1 '. /0 ./TT						
Total unit Cost/Ho						
Total Unit Cost/Ho Total Fleet Cost/H		12				
	lour: \$164.	12				
Total Fleet Cost/H	Iour: \$164.	12				
Total Fleet Cost/H  MATERIAL O  Initial Volume:	10ur: \$164. 10ur: \$164. 10ur: \$164. 10ur: \$164. 10ur: \$164. 10ur: \$164.	12				
MATERIAL O  Initial Volume: Swell factor:	UANTITIES  200 1.125	12				
MATERIAL O  Initial Volume: Swell factor: Loose volume:	UANTITIES  200  1.125  225 LCY					
MATERIAL O  Initial Volume: Swell factor: Loose volume: Source of estimate	UANTITIES  200 1.125 225 LCY ed volume:	4 waterba				
MATERIAL O Initial Volume: Swell factor: Loose volume:	UANTITIES  200 1.125 225 LCY ed volume:	4 waterba	ars, 5 CY ea			
MATERIAL O  Initial Volume: Swell factor: Loose volume: Source of estimate	UANTITIES  200 1.125 225 LCY ed volume:	4 waterba				
MATERIAL O Initial Volume: Swell factor: Loose volume: Source of estimate Source of estimate	Sample   S	4 waterba				
MATERIAL O Initial Volume: Swell factor: Loose volume: Source of estimate Source of estimate	Sample   S	4 waterba Approved				
MATERIAL O Initial Volume: Swell factor: Loose volume: Source of estimate Source of estimate HOURLY PRO	Sample   S	4 waterba Approved	d reclamatio			
MATERIAL O Initial Volume: Swell factor: Loose volume: Source of estimate Source of estimate HOURLY PRO Average push dist Unadjusted hourly	UANTITIES  200 1.125 225 LCY ed volume: ed swell factor:  DDUCTION cance: y production:	4 waterba Approved plan 150 feet 518.9 LCY	d reclamatio	n		
MATERIAL O  Initial Volume:    Swell factor:    Loose volume:    Source of estimate Source of estimate HOURLY PRO Average push dist Unadjusted hourly Materials consiste	UANTITIES  200 1.125 225 LCY ed volume: ed swell factor:  DDUCTION ance: y production:	4 waterba Approved plan 150 feet 518.9 LCY	d reclamatio			
MATERIAL O Initial Volume: Swell factor: Loose volume: Source of estimate Source of estimate HOURLY PRO Average push dist Unadjusted hourly	UANTITIES  200 1.125 225 LCY ed volume: ed swell factor:  DDUCTION ance: y production: ency description dient: 5 %	4 waterba Approved plan  150 feet 518.9 LCY	d reclamatio	n		
MATERIAL Q  Initial Volume:    Swell factor:    Loose volume:    Source of estimate Source of estimate HOURLY PRO Average push dist Unadjusted hourly Materials consisted Average push grad	UANTITIES  200 1.125 225 LCY ed volume: ed swell factor:  DDUCTION ance: y production: ency description dient: 5 % ade: 8,000	4 waterba Approved plan  150 feet 518.9 LCY	d reclamatio	n		
MATERIAL O Initial Volume: Swell factor: Loose volume: Source of estimate Source of estimate HOURLY PRO Average push dist Unadjusted hourly Materials consisted Average push grad	UANTITIES  200 1.125 225 LCY ed volume: ed swell factor:  DDUCTION ance: y production: ency description dient: 5 % ade: 8,000 2,650	4 waterba Approved plan  150 feet 518.9 LCY Partly of	hr consolidated	n		
MATERIAL O Initial Volume: Swell factor: Loose volume: Source of estimate Source of estimate MOURLY PRO Average push dist Unadjusted hourly Materials consiste Average push gra Average site altitu	UANTITIES  200 1.125 225 LCY ed volume: ed swell factor:  DDUCTION ance: production: ency description dient: 5 % ade: 8,000 2,650 n: Decor	_4 waterba Approved plan  150 feet 518.9 LCY  : Partly of feet  lbs/LCY  mposed rock	hr consolidated	n I stockpile 1.1		
MATERIAL O Initial Volume: Swell factor: Loose volume: Source of estimate Source of estimate HOURLY PRO Average push dist Unadjusted hourly Materials consiste Average push gra Average site altitu Material weight: Weight descriptio Job Condition Co	UANTITIES  200 1.125 225 LCY ed volume: ed swell factor:  DDUCTION ance: production: ency description dient: 5 % ade: 8,000 2,650 n: Decor	4 waterba Approved	hr consolidated	n stockpile 1.1		
MATERIAL O  Initial Volume:    Swell factor:    Loose volume: Source of estimate Source of estimate Mourly Pro Average push dist Unadjusted hourly Materials consiste Average push gra Average site altitu Material weight: Weight descriptio Job Condition Co	UANTITIES  200 1.125 225 LCY ed volume: ed swell factor:  DDUCTION ance: y production: ency description dient: 5 % ade: 8,000 2,650 n: Decor	4 waterba Approved plan  150 feet 518.9 LCY  Partly feet  lbs/LCY  mposed rock	hr consolidated	n stockpile 1.1  k, 75% Earth Source		
MATERIAL O  Initial Volume:    Swell factor:    Loose volume: Source of estimate Source of estimate Mourly Pro Average push dist Unadjusted hourly Materials consiste Average push gra Average site altitu Material weight: Weight descriptio Job Condition Co On Material	UANTITIES  200 1.125 225 LCY ed volume: ed swell factor:  DDUCTION cance: production: ency description dient: 5 % ade: 8,000 2,650 n: Decor	4 waterba Approved plan  150 feet 518.9 LCY  Partly of feet  Ubs/LCY  mposed rock  0 1	hr consolidated: - 25% Rock	n stockpile 1.1  c, 75% Earth  Source (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:	0.868	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4723

Adjusted unit production: 245.08 LCY/hr

Adjusted fleet production: 245.08 LCY/hr

## **JOB TIME AND COST**

Fleet size: 1 Dozer(s)

Unit cost: \$0.670/LCY

Total job time: \_\_0.92 Hours

Total job cost: \$151

## **REVEGETATION WORK**

Task description:

Revegetate 1.8 acres per plan

Site: Deep Creek Placer

Permit Action: 2014 Bond Update

Permit/Job#: M1986102

### **PROJECT IDENTIFICATION**

Task #:

011

State:

Colorado

Abbreviation:

None

Date: User: 10/16/2014 GRM County: San Miguel

Filename:

M102-011

Agency or organization name:

DRMS

### **FERTILIZING**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Composted manure {MEANS 32 91 13.23 4400}	50.00	pound	\$0.48	\$23.90
			Total Fertilizer Materials Cost/Acre	\$23.90

Application

Description		Cost /Acre
Manure, tractor spreader (MEANS 32 91 13.23 4450)		\$94.09
	Total Fertilizer Application Cost/Acre	\$94.09

## **TILLING**

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

## **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Crested Wheatgrass - Ephraim	5.00	22.96	\$11.15
Western Wheatgrass - Arriba	8.00	20.20	\$29.44
Totals Seed Mix	13.00	43.16	\$40.59

Application

Cost /Acre
\$847.24
\$847.24

<b>Total Seed</b>	Application	Cost/Acre
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## **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
					\$
		To	tals Nursery Stoo	ek Cost / Acre	\$0.00

## **JOB TIME AND COST**

No. of Acres: 1.8

Cost /Acre: \$1,005.82

Estimated Failure Rate: 30%

Cost /Acre\*: \$1,005.82

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

Initial Job Cost: \$1,810.48

Reseeding Job Cost: \$543.14

Total Job Cost: \$2,354

Job Hours: 8.00

### **EQUIPMENT MOBILIZATION/DEMOBILIZATION**

Task description:

Mobilize reclamation equipment to site

Site: Deep Creek Placer

Permit Action: 2014 Bond Update

Permit/Job#: M1986102

PROJECT IDENTIFICATION

Task #: 012 State:

Colorado

Abbreviation:

None

10/16/2014 Date: User: **GRM** 

County:

San Miguel

Filename:

M102-012

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 D7R DS XR Series II	35.93	\$0.00	\$117.55	1	\$117.55	\$117.55	\$250.00
Cat 307D 7'-3" Stick	7.95	\$15.43	\$88.67	1	\$104.10	\$88.67	\$250.00
CAT 938H	16.34	\$21.63	\$88.67	1	\$110.30	\$88.67	\$250.00

Subtotals:

\$331.95 \$294.89

### **ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Light Duty Pickup, 4x4, 3/4 T.	\$15.30	1	\$15.30	\$15.30
Hydroseeder with Tractor	\$88.67	1	\$88.67	\$88.67

Subtotals:

\$103.97

\$103.97

\$750.00

## **EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region:

Total one-way travel distance:

Average Travel Speed:

NORWOOD

miles

40.00

mph

Total Non-Roadable Mob/Demob Cost \*

"\* two round trips with haul rig:

Total Roadable Mob/Demob Cost \*\*

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

\$3,768.06 \$155.96

### <u>Transportation Cycle Time:</u>

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.75	0.75
Return Time (Hours):	0.75	0.75
Loading Time (Hours):	1.00	NA
Unloading Time (Hours):	1.00	NA
Subtotals:	3.50	1.50

### **JOB TIME AND COST**

Total job time: 7.00 Hours

Total job cost: \$3,924