

Department of Natural Resources

1313 Sherman Street, Room 215 Denver, CO 80203

August 29, 2019

Peter Freedman AuPt Industries, LLC PO Box 1424 Edwards, CO 81632

RE: West Side Placer, Permit No. M-2016-081, Reclamation Costs Update and Notice of Surety Increase (SI-1)

Dear Mr. Freedman:

In an effort to ensure the Financial Warranty for the above referenced site adequately reflects the actual current costs of fulfilling the requirements of the approved reclamation plan, the Colorado Division of Reclamation, Mining and Safety (Division) has updated the reclamation cost estimate (copy enclosed).

Division calculations estimate the cost to reclaim the above referenced site to be \$51,740\$. This is an increase of \$12,580 over the \$39,160 currently held by the Division. This estimate is based on conditions observed during the July 18, 2019 inspection. Therefore, pursuant to Section 34–32–117(4) of the Colorado Land Reclamation Act, adequate Financial Warranty must be submitted to the Division within 60 days of the mailing date of this letter. The additional amount needs to be accepted prior to Monday, October 28, 2019. Please review the enclosed figures as soon as possible and contact our office if any calculation errors are noted.

Please make arrangements with Gabriel Benvenuti at the Division of Reclamation, Mining and Safety Denver Office, phone no. 303.866.3567, ext. 8148 for submittal of the financial warranty. Any questions regarding completion, execution and/or submittal of financial warranty forms should also be directed to Gabriel Benvenuti.

If you require additional information, or have questions or concerns, please feel free to contact me. Amy Yeldell at the Division of Reclamation, Mining and Safety, 1313 Sherman St., Room 215, Denver, CO 80203. Direct contact can be made by phone at 303-866-3567 Ext 8183 or via email at amy.yeldell@state.co.us



M-2016-081 Page 2 of 2 8/29/2019

Sincerely,

Amy Geldell
Amy Yeldell

Environmental Protection Specialist

Ec:

Travis Marshall, Senior EPS, Grand Junction DRMS Steve Freese, SLB

COST SUMMARY WORK

te: _	West Side Placer	Permit Action: 20	019-07	Permi	t/Job#: <u>M20</u>	16081
PR	OJECT IDENTIFICATION	ON				
	Task #: ACY	State: Colorado		Abbreviation	on: None	
	Date: 8/29/2019	County: Moffat		Filenan	ne: M081-00	00
	User: ACY					
	Agency or organization	name: DRMS				
<u>TA</u>	SK LIST (DIRECT COS	<u>ΓS)</u>				
sk			Form	Fleet	Task	G 4
	Description		Used	Size	Hours	Cost
	Plug water well Demo Rapid Thickener Pill	org	BOREHOLE DEMOLISH	1	4.00	\$2,096 \$53
	Regrading Pond (1x)	ars	DOZER	$ \frac{1}{1}$	1.77	\$402
	Overburden replacement an	d grading of mining phases	SCRAPER1	1	21.17	\$402 \$17,615
	Topsoil replacement of min		SCRAPER1	$ \frac{1}{1}$	2.94	\$2,447
	Grading in mining phase	ing phases	DOZER	$ \frac{1}{1}$	2.94	\$661
	Ripping compacted areas		RIPPER	$ \frac{1}{1}$	9.35	\$2,302
	Seed mining phases		REVEGE	$-\frac{1}{1}$	14.00	\$7,918
	Initial Mobilization		MOBILIZE	$-\frac{1}{1}$	5.78	\$4,749
	Secondary Mobilization		MOBILIZE	-	5.78	\$1,037
	Secondary Woomzation				71.7	\$39,280
			<u>SU</u>	BTOTALS:	71.7	φ37,200
INI	DIRECT COSTS					
	ERHEAD AND PROFIT:					
	Liability insurance:	2.02		Total =	\$793	
	Performance bond:	1.05		Total =	\$412	
	Job superintendent:	35.85		Total =	\$2,488	
	Profit:	10.00		Total =	\$3,928	
				TAL O & P =	\$7,622	
		CONTRAC	CT AMOUNT (direc	et + O & P) =	\$46,902	
LEC	GAL - ENGINEERING - PRO	DJECT MANAGEMENT:				
	Financial warranty processis	ng (legal/related costs): \$5	00	Total =	\$500	
					Φ4.00 2	
	Engineering work and/or concentration management			Total =	\$1,993 \$2,345	

CONTINGENCY:

0.00

 $Total = \quad \$0$

TOTAL INDIRECT COST = \$12,460

TOTAL BOND AMOUNT (direct + indirect) = \$_\$51,740

BOREHOLE SEALING WORK

	Task description:	Plug water	well			
Site:	West Side Placer		Permit Action:	2019-07	Permit/.	Job#: <u>M2016081</u>
PROJI	ECT IDENTIFICATION	<u>N</u>				
Task #	·	State:	Colorado		Abbreviation:	None
Date		County:	Moffat		_ Filename:	M-081-01a
Use	r: ACY					
	Agency or organiza	tion name:	DRMS			

UNIT COSTS

Borehole	Sealing/Item Method						
Description		Diameter	Length	Quantity	Unit	Unit Cost	Total Cost
Plug lower portion	Bentonite seal - 8 in.	7.875	295	295.00	LF	\$6.88	\$2,028.13
of well	(labor, equip, materials)						
Plug upper portion	Portland cement grout -	8.625	5	5.00	LF	\$7.14	\$35.72
of well	10 in. (labor, equip,						
	materials)						
Marker	Borehole	8.625	1	1.00	EA	\$32.00	\$32.00
	location/identification						
	marker (EA, material						
	cost only)						

 Job Hours:
 4.00
 Total Cost:
 \$2,096.00

DEMOLITION WORK

Task descrip	otion: Dem	o Rapid Thickener Pillars				
Site: West Side	Placer	Permit Action: 2019-	07	Permit	/Job#: _	M2016081
PROJECT IDENT	<u> TIFICATION</u>					
Task #: 02A		State: Colorado		Abbreviation:	None	
Date: 8/29/201	19 Co	ounty: Moffat		Filename:	M081	-02a
User: ACY						
Agen	cy or organization na	me: DRMS				
C	, ,					
<u>UNIT COSTS</u>				Location adj	ustment:	95.50 %
Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	nit ost	Total Cost
6 Pillars	12"D x 6'L	Footing, concrete, 1.0 ft. x 2 ft No reinforcing	18.00	LF \$3	3.06	\$55.08
				Total	Cost	

BULLDOZER WORK

Task description:	Regradin	g Pond (1x)			
: West Side Placer		Permit Action:	2019-07	Permit/Job#:	M2016081
PROJECT IDENTIF	FICATION 1				
Task #: 03A		State: Colorado		Abbreviation:	None
Date: 8/29/2019	Co	ounty: Moffat		Filename:	M081-03a
User: ACY					
Agency or orga	anization name	: DRMS			
HOURLY EQUIPM	ENT COST				
	at D8T - 8SU				
Horsepower: 31					
	mi-Universal		<u> </u>		
Attachment: NA			<u>—</u>		
	per day				
	CRG)		<u> </u>		
	/		<u>—</u>		
<u>Cost Breakdown</u> :			TT.44 .1 0/		
0 1: 0 ///		φ102 oc	<u>Utilization %</u>		
Ownership Cost/Hour:		\$103.86	NA 100		
Operating Cost/Hour:		\$82.26	100		
Ripper own. Cost/Hour:		\$0.00	NA 0		
Ripper op. Cost/Hour:		\$0.00	0		
Operator Cost/Hour:		\$41.24	NA		
T . 1					
Lotal unit Cost/Hour	\$227.36				
Total unit Cost/Hour: Total Fleet Cost/Hour:	\$227.36 \$227.36				
Total unit Cost/Hour: Total Fleet Cost/Hour:	\$227.36 \$227.36				
Total Fleet Cost/Hour:	\$227.36				
Total Fleet Cost/Hour: MATERIAL QUANT	\$227.36 TITIES				
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 887	\$227.36 TITIES				
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 887 Swell factor: 1.06	\$227.36 TITIES 7				
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 887 Swell factor: 1.06	\$227.36 TITIES				
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 887 Swell factor: 1.00 Loose volume: 940	\$227.36 TITIES 60 DLCY	pond-2993 saft x 8'	deep		
Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 887 Swell factor: 1.06	\$227.36 TITIES 7 60 DLCY ume: 1	pond-2993 sqft x 8'	deep		
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 887 Swell factor: 1.00 Loose volume: 940 Source of estimated volumes source of estimated swell.	\$227.36 TITIES 60 D LCY ume: 1 Cliff factor: C		deep		
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 887 Swell factor: 1.00 Loose volume: 940 Source of estimated volumes Source of estimated swell swel	\$227.36 TITIES 7 60 D LCY Ime: 1 Clif factor: C	at Handbook	deep		
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 887 Swell factor: 1.00 Loose volume: 940 Source of estimated volus Source of estimated swell HOURLY PRODUC Average push distance:	\$227.36 TITIES 7 60 D LCY Ime: 1 Cliff factor: C: CTION 50 f	at Handbook	deep		
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 887 Swell factor: 1.00 Loose volume: 940 Source of estimated volumes Source of estimated swell swel	\$227.36 TITIES 7 60 D LCY Ime: 1 Cliff factor: C: CTION 50 f	at Handbook	deep		
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 887 Swell factor: 1.00 Loose volume: 940 Source of estimated volus Source of estimated swell HOURLY PRODUC Average push distance:	\$227.36 TITIES 60 DLCY Jume: 1 Coll factor: 50 for factor: 1,40	at Handbook eet			
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 887 Swell factor: 1.00 Loose volume: 940 Source of estimated volumes of estimated swell source of estimated swell stance: Unadjusted hourly produce	\$227.36 TITIES 7 60 DLCY Ime: 1 City CTION Contaction: 50 feaction: 1,40 escription: 0 %	eet 0.0 LCY/hr			
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 887 Swell factor: 1.00 Loose volume: 940 Source of estimated volumes of estimated swell source of estimated swell states and source of estimated swell states are successful states and source of estimated swell states are successful states and source of estimated swell states are successful states and source of estimated swell states are successful states are su	\$227.36 TITIES 60 DLCY Jume: 1 Collification: 50 for the secreption: 50 for the secrept	eet 0.0 LCY/hr			
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 887 Swell factor: 1.00 Loose volume: 940 Source of estimated volumes of estimated swell source of estimated swell stance: Average push distance: Unadjusted hourly product stance of estimated swell stance: Unadjusted hourly product stance of estimated swell stance of estim	\$227.36 TITIES 7 60 DLCY Ime: 1 City CTION Contaction: 50 feaction: 1,40 escription: 0 %	eet 0.0 LCY/hr Partly consolidated			
MATERIAL QUANT Initial Volume: 887 Swell factor: 1.00 Loose volume: 940 Source of estimated volumes of estimated swell source of estimated swell stance: Unadjusted hourly produce the swell stance of estimated swell stance of	\$227.36 TITIES 7 60 D LCY Imme: 1 Coll factor: Coll CTION action: 50 for 1,40 escription:	eet 0.0 LCY/hr Partly consolidated			
MATERIAL QUANT Initial Volume: 887 Swell factor: 1.00 Loose volume: 940 Source of estimated volumes of estimated swell factor: 1.00 Source of estimated swell factor: 940 Materials consistency de Average push distance: Unadjusted hourly product for the factor of the	\$227.36 TITIES 7 60 D LCY Imme: 1 Coll factor: Coll CTION action: 50 fe 1,40 escription: 0 % 6,225 feet 2,900 lbs/L Sand and g	eet 0.0 LCY/hr Partly consolidated	stockpile 1.1		
MATERIAL QUANT Initial Volume: 887 Swell factor: 1.00 Loose volume: 940 Source of estimated volumes of estimated swell factor: 1.00 Source of estimated swell factor: 940 Material sconsistency de Average push distance: Unadjusted hourly product for the factor of the	\$227.36 TITIES 7 60 D LCY Ime: 1 Coll factor: Coll CTION action: 50 fe 1,40 escription: 0 % 6,225 feet 2,900 lbs/L Sand and g n Factor	eet 0.0 LCY/hr Partly consolidated .CY ravel - Dry	stockpile 1.1 Source		
MATERIAL QUANT Initial Volume: 887 Swell factor: 1.06 Loose volume: 940 Source of estimated volus Source of estimated swell HOURLY PRODUC Average push distance: Unadjusted hourly product Materials consistency de Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator	\$227.36 TITIES 7 60 DLCY Jume: 1 Classification: 50 from 1,40 escription: 0 % 6,225 feet 2,900 lbs/L Sand and guarant guaran	eet 0.0 LCY/hr Partly consolidated CCY ravel - Dry 0.750	stockpile 1.1 Source (AVG.)		
MATERIAL QUANT Initial Volume: 887 Swell factor: 1.00 Loose volume: 940 Source of estimated volumes of estimated swell source of estimated swell stance: Materials consistency de Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction	\$227.36 TITIES 7 60 D LCY Ime: 1 Coll factor: Coll Strion 50 for 1,40 escription: 0 % 6,225 feet 2,900 lbs/L Sand and g In Factor Skill: Stency:	eet 0.0 LCY/hr Partly consolidated .CY ravel - Dry	stockpile 1.1 Source		

Page 2 of 2

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.700	(FND-MF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3801

Adjusted unit production: 532.14 LCY/hr
Adjusted fleet production: 532.14 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.427/LCY

Total job time: 1.77 Hours \$402

SCRAPER TEAM WORK

Task description:	Overburde	n replacemer	nt and grading of m	ining phases		
Site: West Side Placer		Permit Acti	on: 2019-07	Per	mit/Job#: <u>M201</u>	6081
PROJECT IDEN	<u>TIFICATION</u>					
Task #: 04A		tate: Color			viation: None	
Date: $8/29/20$ User: ACY	019 Cou	inty: Moffa	at	Fi	lename: M081-	04a
Agency or	organization name:	DRMS				
HOURLY EQUI	PMENT		COST	Shift basis: 1 per c	l <u>ay</u>	
			ipment Description			
			: 637G			
		Dozer: NA				
Suppo	ort Equipment -Load Dumr-		D8T - 8SU D8T - 8SU			
Road Ma	intenance – Motor (
	-Water	Truck: NA				
Cost Breakdown:	Scraper Wor	k Taam	Support Equ	uinment	Maintenance	Equipment
Cost Dicardown.	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	N	A 100	100	NA	NA
Ownership cost/hour:	\$162.02	N	A \$103.86	\$103.86	NA	NA
Operating cost/hour:	\$184.64	N	A \$82.26	\$82.26	NA	NA
%Utilization-ripper:	NA	N	A NA	NA	NA	NA
Ripper own. cost/hour:	NA	N	A \$0.00	\$0.00	NA	NA
Ripper op. cost/hour:	NA	N	A \$0.00	\$0.00	NA	NA
Operator cost/hour:	\$30.86	N	A \$41.24	\$41.24	NA	NA
Unit Subtotals:	\$377.52	N	A \$227.36	\$227.36	NA	NA
Number of Units:	1		0 1	1	0	0
Group Subtotals:	Work:	\$377.52	Support:	\$454.72	Maint:	\$0.00
Total work team cos	t/hour: \$832.24					
MATERIAL QUA	<u>ANTITIES</u>					
Initial volume:	9,999	CCY		ctor: 1.000		
Loose volume:	9,999	LCY	•			
	irce of estimated vo		x 75' x 600' strips			
Source	of estimated swell f	actor: Cat l	Handbook			
HOURLY PROD	<u>UCTION</u>					
			Scraper 1	Bowl (volume) Bas	is:	
Material weight:	3,400 lbs/LCY		Struck	k Volume: 24.00	L	CY
Material description:	Sand and gravel -	Wet		d Volume: 34.00		CY
Rated Payload:	81,600 pounds			e Volume: 29.00		CY
Payload Capacity:	74 OO LCY		Admsted	Capacity: 24.00	I :	CY

Site Altitude: 6225 feet

Cycle Time:

Scraper Loading Time: 0.80 Minutes
Maneuver and Spread Time: 0.60 Minutes

Job Condition Correction:

	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: Loose sand or gravel 10

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	600.00	0.00	10.00	10.00	922	0.68

Haul Time: **0.68** minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	600.00	0.00	10.00	10.00	1476	0.45

Return Time: **0.45** minutes Total Scraper team cycle time: 2.53 minutes Adjusted for job conditions: 472.41 LCY/Hour Selected Number of Scrapers: Scraper(s) 1 Adjusted single scraper team (unit) hourly production: LCY/Hour 472.41 Adjusted multiple scraper team (fleet) hourly production: 472.41 LCY/Hour

Unadjusted unit production/hour: 569.17 LCY/Hour Optimal Number of Scrapers per push dozer:

JOB TIME AND COST

Fleet size:	1	Team(s)	Total job time:	21.17	Hours
Unit cost:	\$1.762	/LCY	Total job cost:	\$17,615	

Payload Capacity: 24.00 LCY

SCRAPER TEAM WORK

Task description:	Topsoil rep						
Site: West Side Placer		Permit	Action:	2019-07	Perr	mit/Job#: <u>M201</u>	.6081
PROJECT IDENT	<u> TIFICATION</u>						
Task #: 04B	S	State: (Colorado		Abbrev	viation: None	
Date: 8/29/20			Moffat		Fil	ename: M081-	-04b
User: ACY							
Agency or o	organization name:	DRM	S				
HOURLY EQUIP	<u>PMENT</u>			COSTS	hift basis: 1 per d	<u>ay</u>	
			Equipme	ent Description			
		craper:	Cat 63'	7G			
Cuma	rt Equipment -Loa	Dozer:	NA Cat Do	T - 8SU			
Suppo		n Area:		T - 8SU			
Road Ma	intenance –Motor		NA	1 020			
	-Water	Truck:	NA				
Cost Ducaled arm.	Cananan Wa			Commant East		Maintanana	Essisses
Cost Breakdown:	Scraper Wor	rk Team Doz	zer	Support Equiport Load Area	Dump Area	Maintenance Motor Grader	Water Truck
	_						
%Utilization-machine:	100		NA	100	100	NA	NA
Ownership cost/hour:	\$162.02		NA	\$103.86	\$103.86	NA	NA
Operating cost/hour:	\$184.64		NA	\$82.26	\$82.26	NA	NA
%Utilization-ripper:	NA		NA	NA	NA	NA	NA
Ripper own. cost/hour:	NA		NA	\$0.00	\$0.00	NA	NA
Ripper op. cost/hour:	NA		NA	\$0.00	\$0.00	NA	NA
Operator cost/hour:	\$30.86		NA	\$41.24	\$41.24	NA	NA
Unit Subtotals:	\$377.52		NA	\$227.36	\$227.36	NA	NA
Number of Units:	1	Ф255	0	1	1	0	(
Group Subtotals:	Work:	\$377	7.52	Support:	\$454.72	Maint:	\$0.00
Total work team cost MATERIAL QUA							
Initial volume: Loose volume:	1,389 1,389		CCY LCY	Swell face	tor: 1.000		
	rce of estimated vo of estimated swell f	-	10" x 75 Cat Han	' x 600' strips dbook			
HOURLY PRODU	<u>UCTION</u>			_	owl (volume) Basi		

Material weight:	3,400 lbs/LCY	Struck Volume:	24.00	LCY
Material description:	Sand and gravel - Wet	Heaped Volume:	34.00	LCY
Rated Payload:	81,600 pounds	Average Volume:	29.00	LCY
Payload Capacity:	24.00 LCY	Adjusted Capacity:	24.00	LCY

Site Altitude: 6225 feet

Cycle Time:

Scraper Loading Time: 0.80 Minutes
Maneuver and Spread Time: 0.60 Minutes

Job Condition Correction:

	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: Loose sand or gravel 10

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	600.00	0.00	10.00	10.00	922	0.68

Haul Time: **0.68** minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	600.00	0.00	10.00	10.00	1476	0.45

0.45 minutes Return Time: Total Scraper team cycle time: 2.53 minutes Adjusted for job conditions: 472.41 LCY/Hour Selected Number of Scrapers: Scraper(s) 1 Adjusted single scraper team (unit) hourly production: LCY/Hour 472.41 Adjusted multiple scraper team (fleet) hourly production: 472.41 LCY/Hour

Unadjusted unit production/hour: 569.17 LCY/Hour Optimal Number of Scrapers per push dozer:

JOB TIME AND COST

Fleet size:	1	_ Team(s)	Total job time:	2.94	Hours
Unit cost:	\$1.762	/LCY	Total job cost:	\$2,447	

BULLDOZER WORK

Task description:	Grading in mining phase			
: West Side Placer	Permit Action:	2019-07	Permit/Job#:	M2016081
PROJECT IDENTIFI	CATION			
Task #: 05A	State: Colorado		Abbreviation:	None
Date: 8/29/2019	County: Moffat		Filename:	M081-05a
User: ACY			-	
Agency or organ	nization name: DRMS			
HOURLY EQUIPME	NT COST			
Basic Machine: Cat	D8T - 8SU			
Horsepower: 310		<u> </u>		
<u></u>	ni-Universal			
Attachment: NA				
Shift Basis: 1 pe	er day			
Data Source: (CR	2G)	<u> </u>		
Cost Breakdown:				
Cost Divardo Will		<u>Utilization %</u>		
Ownership Cost/Hour:	\$103.86	NA		
Operating Cost/Hour:	\$82.26	100		
Ripper own. Cost/Hour:	\$0.00	NA		
Ripper op. Cost/Hour:	\$0.00	0		
Operator Cost/Hour:	\$41.24	NA		
Tatal Cart/III	\$227.2 <i>6</i>			
Total unit Cost/Hour:	\$227.36			
Total unit Cost/Hour: Total Fleet Cost/Hour:	\$227.36 \$227.36			
Total Fleet Cost/Hour:	\$227.36			
Total Fleet Cost/Hour: MATERIAL QUANT	\$227.36	<u></u>		
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 695	\$227.36 ITIES			
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 695 Swell factor: 1.213	\$227.36 <u>ITIES</u>			
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 695	\$227.36 <u>ITIES</u>			
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 695 Swell factor: 1.213	\$227.36 ITIES 5 LCY	nount		
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 695 Swell factor: 1.213 Loose volume: 844	\$227.36 ITIES LCY Half of transported ar	nount		
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 695 Swell factor: 1.21: Loose volume: 844 I Source of estimated volum Source of estimated swell	\$227.36 ITIES Control Half of transported are factor: Cat Handbook	nount		
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 695 Swell factor: 1.213 Loose volume: 844 1 Source of estimated volum Source of estimated swell HOURLY PRODUCT	\$227.36 ITIES LCY ne: Half of transported ar Cat Handbook CION	nount		
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 695 Swell factor: 1.213 Loose volume: 844 1 Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance:	\$227.36 ITIES LCY ne: Half of transported ar Cat Handbook CION 200 feet	nount		
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 695 Swell factor: 1.213 Loose volume: 844 I Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product	\$227.36 ITIES COV The:			
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 695 Swell factor: 1.213 Loose volume: 844 1 Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance:	\$227.36 ITIES COV The:			
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 695 Swell factor: 1.213 Loose volume: 844 I Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product	\$227.36 ITIES COV The:			
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 695 Swell factor: 1.213 Loose volume: 844 1 Source of estimated volumes of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient:	\$227.36 ITIES CON LCY Half of transported are Cat Handbook CION 200 feet 491.9 LCY/hr cription: Partly consolidated 0 %			
MATERIAL QUANT Initial Volume: 695 Swell factor: 1.213 Loose volume: 844 1 Source of estimated volumes well HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude:	\$227.36 ITIES LCY ne: Half of transported ar Cat Handbook CION 200 feet 491.9 LCY/hr cription: Partly consolidated 0 % 6,225 feet			
Initial Volume: 695 Swell factor: 1.213 Loose volume: 844 1 Source of estimated volumes well HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description:	\$227.36 ITIES 5 LCY ne:	stockpile 1.1		
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 695 Swell factor: 1.213 Loose volume: 844 1 Source of estimated volumes aveil swell HOURLY PRODUCT Average push distance: Unadjusted hourly product was average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction	\$227.36 ITIES 5 LCY ne:	stockpile 1.1 Source		
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 695 Swell factor: 1.213 Loose volume: 844 I Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator S	\$227.36 ITIES Solution	stockpile 1.1 Source (AVG.)		
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 695 Swell factor: 1.213 Loose volume: 844 1 Source of estimated volumes aveil swell HOURLY PRODUCT Average push distance: Unadjusted hourly product was average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction	\$227.36 ITIES Solution	stockpile 1.1 Source		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.600	(FND-SF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.5908

Adjusted unit production: 290.61 LCY/hr
Adjusted fleet production: 290.61 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.782/LCY

Total job time: 2.91 Hours
Total job cost: \$661

BULLDOZER RIPPING WORK

	Task description	ı: Ri p	ping compacted areas					
Site	: West Side Pl	acer	Permit Action:	2019-07	F	Permit/Job#:	M20160)81
	PROJECT ID	ENTIFICAT	<u>ION</u>					
	Task #: 05	5B	State: Colorado		Abł	reviation:	None	
		29/2019	County: Moffat			Filename:	M081-05	5b
		CY	, <u> </u>					
	Agenc	y or organizatio	n name: DRMS					
	HOURLY EQ	OUIPMENT C	COST					
	Basic	Machine: Ca	at D8T - 8SU		Horsepower:		310	
			Shank Ripper		Shift Basis:		per day	
	11		11	_	Data Source:		CRG)	
	Cost Breakdown	<u>ı:</u>						
					Utilization %			
		Ownership (\$103.86	NA	_		
	ъ.	Operating (\$82.26	100	_		
		per Ownership (\$10.43	NA 100	<u> </u>		
	Kıţ	pper Operating (Operator (\$8.38 \$41.24	100 NA			
		Total Unit (\$246.17	NA	_		
				<u> </u>				
		Total Fleet (· · ·	0.17				
	MATERIAL	QUANTITIE	Sele Sele	ected estimatin	g method: Are	a		
	Alternate Metho	ods:						
Seismic:	NA		Bank Volume:	NA	BCY		NA	
Area:	6.00	acres	Rip Depth (ft):	2.00	Volume:	19,360		BCY or CCY
		Source of est	imated quantity: Staff es	stimates, 2018	annual report			
	HOURLY PR	ODUCTION	· · ·		-			
		ODUCTION						
	Seismic:		C	NIA	C /	1		
			Seismic Velocity:	NA	feet/sec	cona		
	Area:							
			ge Ripping Depth:	2.56	feet/pa			
			ge Ripping Width:	7.08	feet/pas			
			ge Ripping Length: erage Dozer Speed:	200.00 88.00	feet/pa: feet/mi			
			ge Maneuver Time:	0.25	minute			
			ction per unit area:	0.773	acres/h	_		
	Job Condition C							
			y Unit Production:	0.773	Acres/l	ar.		
	O	nadjusted 110dii	<u></u>			11		
			Site Altitude: Altitude Adj:	6,225 1.00	feet (CAT I	JD/		
			Job Efficiency:	0.83	(CA1 I			
			Net Correction:	0.83	multipl	•		
			d Hourly Unit Production: Hourly Fleet Production:	0.64 0.64	Acres/hr Acres/hr			
	IOD WILLS	•	Thourty Theet Froduction:	U.04	ACIES/III			
	JOB TIME A	ND COST						
	Fleet size:	1	Grader(s)	Total job tir	ne:	9.35	Но	ours
	Unit cost:	\$383.620	Per acre	Total job co	ost:	82.302		

REVEGETATION WORK

Task description:	Seed mining phases					
West Side Placer	Permit A	action: 2019	-07		Permit/Job#	M2016081
PROJECT IDENTIFIC	ATION					
Task #: 06A		orado		Abl		None
Date: 8/29/2019	County: Mo	ffat			Filename:	M081-06a
User: ACY						
Agency or organiz	zation name: DRMS					
ERTILIZING						
Iaterials		T T *4 /				
Description		Units / Acre	Unit	Cos	t / Unit	Cost /Acre
				\$		\$
				Tot	al Fertilizer Materials Cost/Acre	\$0.00
Description						\$
		Total	Fertilizer A	pplicatio	n Cost/Acre	\$0.00
<u>TILLING</u>						
Description						Cost /Acre
						\$
			То	tal Tillin	g Cost/Acre	\$0.00
<u>EEEDING</u>						
Seed Mix]	Rate – PLS LBS /	Seeds per SQ. FT	Cost /Acre
				Acre		
Indian Ricegrass - Nativ	e		A	Acre 1.85		\$12.03
Indian Ricegrass - Nativ	e		1 1	1.85	5.99	\$12.03 \$48.95
Galleta			1 2	1.85 2.19		\$48.95
				1.85	5.99 7.99	

Basin Wildrye - Trailhead

\$46.69

\$286.28

12.31

44.09

3.03

13.11

Totals Seed Mix

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
Herbicide - 2,4D @ 1.0 pt/ac	1.00	ACRE	\$2.74	\$2.74
Total Mulch Materials Cost/Acre				\$2.74

Application

Description		Cost /Acre
Weed spray, truck, non-aquatic area, nox. [DMG]		\$71.50
	Total Mulch Application Cost/Acre	\$71.50

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Totals 2	Nursery Stoc	k Cost / Acre	\$0.00

JOB TIME AND COST

 No. of Acres:
 9.9
 Cost /Acre:
 \$592.52

 Estimated Failure Rate:
 40%
 Cost /Acre*:
 \$518.28

*Selected Replanting Work Items: SEEDING

Initial Job Cost: \$5,865.95

Reseeding Job Cost: \$2,052.39

Total Job Cost: \$7,918

Job Hours: 14.00

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description: <u>Init</u>	ial Mobilization			
e: West Side Placer	Permit	Action: 2019-07	Permit/Jo	b#: <u>M2016081</u>
PROJECT IDENTIFICATI	<u>ON</u>			
Task #: 07A Date: 8/29/2019 User: ACY		olorado Ioffat	Abbreviation: Filename:	None M081-07a
Agency or organization	n name: DRMS	S		
EQUIPMENT TRANSPOR	T RIG COST			
			Shift basis: Cost Data Source:	1 per day CRG Data
Truck Tractor Desc	ription: GENE		AY TRUCK TRACTOR, 6X4, 400 HP (2ND HALF, 2006)	DIESEL POWERED,
Truck Trailer Desc	ription: C		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:	\$17.20	\$29.63	\$38.69	
Operating Cost/Hour:	\$26.56	\$47.02	\$55.69	
Operator Cost/Hours	\$23.63	\$23.63	\$23.63	

NON ROADABLE EQUIPMENT:

Helper Cost/Hour:
Total Unit Cost/Hour:

\$0.00

\$67.39

Machine	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return Trip	DOT Permit
Description	Unit	Cost/hr/ unit	Cost/hr/uni	Size	Cost/hr/	Cost/hr/ fleet	Cost/ fleet
-	(TONS)		t		fleet		
Cat 637G	57.28	\$162.02	\$141.54	1	\$303.56	\$141.54	\$250.00
Cat D8T - 8SU	53.08	\$114.29	\$141.54	1	\$255.83	\$141.54	\$250.00
Drill/Broadcast	25.00	\$18.15	\$67.39	1	\$85.54	\$67.39	\$250.00
Seeder with							
Tractor							

\$23.53

\$123.81

\$23.53

\$141.54

Subtotals: \$644.93 \$350.47 \$750.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Light Duty Pickup, 4x4, 3/4 T.	\$40.61	1	\$40.61	\$40.61

Subtotals:	\$40.61	\$40.61

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:

Total one-way travel distance:

Average Travel Speed:

CRAIG

miles

52.00

mph

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.95	0.95
Return Time (Hours):	0.95	0.95
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	2.89	1.89

JOB TIME AND COST

Total job cost: 5.78 Hours

Total job cost: \$4,749

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description:	Secondary Mobiliz	ation		
Site: West Side Placer	Perm	it Action: 2019-07	Permit/Jo	b#: <u>M2016081</u>
PROJECT IDENTIFIC	ATION			
Task #: 07B	State: (Colorado	Abbreviation:	None
Date: 8/29/2019	County: 1	Moffat	Filename:	M081-07b
User: ACY				
Agency or organiz	zation name: DRM	IS		
<i>8.</i> - <i>J B</i>				
EQUIPMENT TRANSI	PORT RIG COST			
			G1:6.1	1 1
				1 per day CRG Data
			Cost Data Source:	CKG Data
Truck Tractor	Description: GEN		AY TRUCK TRACTOR, 6X4,	DIESEL POWERED,
			400 HP (2ND HALF, 2006)	
Truck Trailer	Description:		IG GOOSENECK, DROP DEC	~
		TR	AILER (25T, 50T, AND 100T))
Cost Breakdown:				
Available Rig Capacities		26-50 Tons	51+ Tons	
Ownership Cost/Ho		\$29.63	\$38.69	
Operating Cost/Ho		\$47.02	\$55.69	
Operator Cost/Ho	· ·	\$23.63	\$23.63	
Helper Cost/Ho	ur: \$0.00	\$23.53	\$23.53	

NON ROADABLE EQUIPMENT:

Total Unit Cost/Hour:

Machine Description	Weight/ Unit (TONS)	Owner ship Cost/hr/ unit	Haul Rig Cost/hr/uni t	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
Drill/Broadcast Seeder with Tractor	25.00	\$18.15	\$67.39	1	\$85.54	\$67.39	\$250.00

\$141.54

\$123.81

\$67.39

Subtotals: \$85.54 \$67.39 \$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, 3/4 T.	\$40.61	1	\$40.61	\$40.61

Subtotals:	\$40.61	\$40.61

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:

Total one-way travel distance:

Average Travel Speed:

CRAIG

miles

52.00

mph

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.95	0.95
Return Time (Hours):	0.95	0.95
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	2.89	1.89

JOB TIME AND COST

Total job cost: 5.78 Hours

Total job cost: \$1,037

STATE OF COLO

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

2019 Band Update (7-18-19 inspected)



Ola-Plug well - No changes 62a - Demo Rapit Hickener - No Changes 03a - Regrade Settling Pond XI - No Changes 64a - Overburden replacement - No changes 646 - Topsoil replacement - No changes 05a - Site grading - No changes 05b - Ripping neac previously world area used for Storage + now highly compacted O Coa - Reveg entire 9.9ac site, no concourent reclamation 07a - Initial Mobilization - No Changes 07b - Secondary Mobilization - No Changes

> SI-1 -D\$12,580 increase by Seeding all at the end Ly Phase 2014 CIRCES Cost update

1) \$12580 \$ 51,76940