

COLORADO Division of Reclamation, Mining and Safety Department of Natural Resources

1313 Sherman Street, Room 215 Denver, CO 80203

Memo to File

Date: August 26, 2019

To: Whom it May Concern

From: Lucas West, DRMS

RE: Triangle One; DRMS File No. M-1980-228; Memo to File

To Whom it May Concern,

The Enclosed reclamation cost estimate worksheets are based on the site conditions observed during the August 6, 2019 Inspection. The site requires no major earth work of any kind, only secondary seeding of the revegetated area and minor dismantlement of the concrete batch plant equipment. The superstructure and other buildings are to remain. No increase was sent to the Operator.

Sincerely, DRMS Minerals Staff



COST SUMMARY WORK

T	ask description:	Cost Summary				
Site:	Triangle One Pit	Permit Action:	2019 Update		Permit/Job	#: M1980228
PR	OJECT IDENTIFIC	ATION				
<u></u>	Task #: 000 Date: 8/26/2019 User: LJW	State: Colorado County: Archuleta			Abbreviation: Filename:	None M228-000
	Agency or organiz	zation name: DRMS				
<u>TA</u>	SK LIST (DIRECT	COSTS)				
Task			Form	Fleet	Task	
001	DescriptionRemove Batch plant e	auinment (Building	Used DEMOLISH	Size	Hours 32.00	Cost
001	Remains)	quipment (Dunding	DEMOLISH		52.00	\$2,785
002	Secondary seeding		REVEGE] 1	8.00	\$2,706
003	Haul reclamaton equi	pement to and from site	MOBILIZE	1	2.50	\$1,454
			<u>SUBTO</u>	TALS:	42.5	\$6,945
OV	DIRECT COSTS ERHEAD AND PROFI Liability insuran Performance boy Job superintende Pro	ce: 2.02 nd: 0.00 nt: 21.25 fit: 10.00 CONTR	ACT AMOUNT		$Total = \frac{$6}{$2}$	475
LEV		- PROJECT MANAGEMENT:	# 500			
	Engineering work and	cessing (legal/related costs): l/or contract/bid preparation: ement and/or administration:	\$500 0.00 0.00	•	$\begin{array}{r} \text{Total} = & \$50\\ \text{Total} = & \$0\\ & \$0\\ \end{array}$	
		CONTINGENCY:	0.00		Total =\$0	
			TOTAL IN	DIRECT	$COST = $ _\$2,	809
		TOTAL BON	D AMOUNT (di	irect + in	direct) =\$9,	754
		÷.				2

DEMOLITION WORK

description	n: Remo	ve Batch plant equipment (I	Building Rema	ains)		
angle One	Pit	Permit Action: 2019	Permit Action: 2019 Update		Permit/Job#: M1980228	
IDENTIF	ICATION					
001 8/26/2019 LJW Agency of	Co	unty: Archuleta				one 228-001
<u>s</u>				Location	adjustm	<u>ent: 86.60 %</u>
	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
equip	20 x 20 x 12	Plant (1S) demo./off-site disposal in approved landfill - Max. 15 mile haul	5,000.00	CF	\$0.64	\$3,216.00
	iangle One IDENTIF 001 8/26/2019 LJW	iangle One Pit IDENTIFICATION 001 S 8/26/2019 Co LJW Agency or organization name S Or Item ption Dimensions ncrete 20 x 20 x 12 equip 20 x 20 x 12	angle One Pit Permit Action: 2019 IDENTIFICATION 001 001 State: Colorado 8/26/2019 County: Archuleta LJW Agency or organization name: DRMS S Or Item ption Dimensions Demolition Menu Selection ncrete 20 x 20 x 12 Plant (1S) demo./off-site disposal in approved landfill - Max. 15 mile	Interview of the system of th	Image One Pit Permit Action: 2019 Update Permit Action: 001 State: Colorado Abbreviati 8/26/2019 County: Archuleta Filenati LJW Agency or organization name: DRMS Location S Location Quantity Unit or Item Dimensions Demolition Menu Quantity Unit ncrete 20 x 20 x 12 Plant (1S) demo./off-site 5,000.00 CF equip mains) Indfill - Max. 15 mile Site in approved Site in approved	Image One Pit Permit Action: 2019 Update Permit/Job/ IDENTIFICATION 001 State: Colorado Abbreviation: Notestation: 001 State: Colorado Abbreviation: Notestation: Notestation: 8/26/2019 County: Archuleta Filename: M2 LJW Agency or organization name: DRMS Demolition Menu Quantity Unit Unit or Item Dimensions Demolition Menu Quantity Unit Cost or Item Dimensions Plant (1S) demo./off-site 5,000.00 CF \$0.64 equip andfill - Max. 15 mile Site in approved Site in approved Site in approved Site in approved

				I otal Cost	
		Subtotal		(adjusted for	
Job Hours:	0.00	(unadjusted):	\$3,216.00	location):	\$2,785.06

REVEGETATION WORK

: Triangle			rmit Action:	2019 Update	Permit/Jo	b#: <u>M1980228</u>
PROJECT Task #:	002	CATION State:	Colorado		Abbreviation:	None
Date: User:	8/26/2019 LJW	County:	Archuleta		Filename:	M228-002

FERTILIZING

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Ammonium nitrate, 33-0-0	121.00	pound	\$0.34	\$40.54
Triple superphosphate, 0-46-0	87.00	pound	\$0.43	\$36.98
			Total Fertilizer Materials Cost/Acre	\$77.51

Application

Description Hydro spreader (MEANS 32 01 90.13 0180)		Cost /Acre \$182.08
	Total Fertilizer Application Cost/Acre	\$182.08

<u>TILLING</u>

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

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Big Bluegrass - Sherman	0.30	6.20	\$2.54
Russian Wildrye - Vinal	1.00	4.02	\$6.18
Smooth Brome - Lincoln	3.80	12.65	\$12.64
Hard Fescue - Durar	0.30	3.89	\$0.88
Western Wheatgrass - Arriba	4.60	11.62	\$29.90
Timothy - Climax	0.10	2.87	\$0.16
Totals Seed Mix	10.10	41.24	\$52.30

Application

Description		Cost /Acre
		\$0.00
	Total Seed Application Cost/Acre	\$0.00

MULCHING and MISCELLANEOUS

Materials

Description Hay, delivered {MEANS 31 25 14.16 1200}	Units / Acre 2.00	Unit TON	Cost / Unit \$295.00	Cost /Acre \$590.00
Total Mulch Materials Cost/Acre	2.00		\$255.00	\$590.00

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
					\$
		То	als Nursery Stoc	ek Cost / Acre	\$0.00

JOB TIME AND COST

No. of Acres:	3	Cost /Acre:	\$901.89
Estimated Failure Rate:	20%	Cost /Acre*:	\$0.00
*Selected Replanting Work Items:	NONE		

Initial Job Cost:	\$2,705.67	
Reseeding Job Cost:	\$0.00	
Total Job Cost:	\$2,706	
Job Hours:	8.00	

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task descriptio	n: Ha	ul reclamaton eq	uipement to a	nd from si	te			
: Triangle On	e Pit	Permit	Action: 201	9 Update		Permit/Job	#: _M	1980228
PROJECT ID	ENTIFICATI	<u>ION</u>						
Task #: _0	03	State: Co	olorado		Abbr	eviation:	None	
	/26/2019 JW	County: A	rchuleta		F	ilename:	M228	-003
Agency	y or organization	n name: DRMS						
EQUIPMENT	TRANSPOR	T RIG COST						
					Shift ba	isis:1	per da	у
					Cost Data Sou	rce: C	RG Da	a
Tru	ck Tractor Desc	ription: GENE	RIC ON-HIGI	IWAY TR	UCK TRACT	OR, 6X4, I	DIESEL	POWERED,
_					(2ND HALF,			<u></u>
Tn	ick Trailer Desc	ription: G	ENERIC FOL				K EQUI	PMENT
		<u> </u>		IRAILER	(25T, 50T, A)	ND 1001)		
Cost Breakdown	<u>.</u>							
Available Rig	Capacities	0-25 Tons	26-50 Tons	51	+ Tons			
	ip Cost/Hour:	\$17.20	\$29.63	\$	38.69			
Operatin	ng Cost/Hour:	\$26.56	\$47.02	\$	55.69			
Operat	or Cost/Hour:	\$23.63	\$23.63	\$	23.63			
Help	er Cost/Hour:	\$0.00	\$23.53		23.53			
	nit Cost/Hour:	\$67.39	\$123.81		41.54			
NON ROADA	BLE EQUIPN	AENT:						
Machine	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return 7	rip	DOT Permit
Description	Unit (TONS)	Cost/hr/ unit	Cost/hr/uni	Size	Cost/hr/	Cost/hr/		Cost/ fleet

Description	Unit (TONS)	Cost/hr/ unit	Cost/hr/uni	Size	Cost/hr/ fleet	Cost/hr/ fleet	Cost/ fleet
Cat 315D L 8'-6" Stick	19.05	\$32.62	\$67.39	1	\$100.01	\$67.39	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$18.15	\$67.39	1	\$85.54	\$67.39	\$250.00

Subtotals: \$185.55 \$134.78 \$500.00

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.	\$12.96	1	\$12.96	\$12.96
		Subtotals:	\$12.96	\$12.96

EQUIPMENT HAUL DISTANCE and Time

	PAGOSA SRINGS	Nearest Major City or Town within project area region:
miles	5.00	Total one-way travel distance:
mph	40.00	Average Travel Speed:
	\$1,451.18	Total Non-Roadable Mob/Demob Cost *
	\$3.24	Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:
		^{•*} two round trips with haul rig: Total Roadable Mob/Demob Cost **

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.13	0.13
Return Time (Hours):	0.13	0.13
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.25	0.25

JOB TIME AND COST

Total job time: **2.50** Hours

Total job cost: _____\$1,454