

Renfro - DNR, Joel <joel.renfro@state.co.us>

Proctor Pit Adequacy Review

To: Travis Bell <tbell@crccllc.com>

Renfro - DNR, Joel <joel.renfro@state.co.us>

Thu, Jul 11, 2024 at 12:07 PM

Cc: Amy Brooks <abrooks@crccllc.com>, Amy Eschberger - DNR <amy.eschberger@state.co.us>

Hey Travis,

As I mentioned in our phone call, your adequacy response looks good and it looks like you addressed all the items I asked for. Thanks for highlighting everything too, it made it very easy to follow.

We're in the final steps now before permit approval. I calculated what it would cost to reclaim the site given the proposed mining plan and reclamation plan, and found that the Division will require a bond of **\$27,898** to reclaim this site. Please review the attached cost estimate, which breaks down how we calculate the cost of each task and how we got to that number. Most of the additional costs come from indirect costs and mobilization of machinery. Let me know if my estimation appears accurate given the mining and reclamation plan. Please note that some factors in the calculation such as equipment, materials, and indirect costs are associated with fixed rates usually determined by the CAT handbook, so most rates I cannot be flexible with changing.

The decision date for this permit is set for tomorrow, so if you have any questions please feel free to email or call me at (720) 812-2002 and I will get back to you shortly. I am about to take my lunch break but will be back in the office at 1 PM today.

Thanks,

Joel [Quoted text hidden]

Proctor Pit Bond Calc.pdf 237K

COST SUMMARY WORK

PROJECT IDENTIFICATION Task #: 000 State: Colorado Date: 7/10/2024 County: Logan Filename: User: JR2	t: <u>M2024027</u> None M027-000
Task #: 000 State: Colorado Abbreviation: Date: $\overline{7/10/2024}$ County: Logan Filename: User: JR2 Agency or organization name: DRMS Task Description Form Fleet Task 001 Spread topsoil 6" thick across 6.03ac SCRAPER1 1 15.34 002 Reveg 6.03ac REVEGE 1 10.55 003 Mobilization MOBILIZE 1 21.2 SUBTOTALS: OVERHEAD AND PROFIT: Liability insurance: 2.02 Total = \$\$\$ Performance bond: 1.05 Total = \$\$ Profit: 10.00 Total = \$\$ Total = \$\$ \$\$ \$\$ \$\$ OVERHEAD AND PROFIT: CONTRACT AMOUNT (direct + 0 & P) = \$\$ \$\$ Liability insurance: 2.02 Total = \$\$ Performance bond: 1.05 Total = \$\$ Profit: 10.00 Total = \$\$ CONTRACT AMOUNT (direct + 0 & P) =	
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Engineering work and/or contract/bid preparation: 0.00 Total = $\$0$ Reclamation management and/or administration: 5.00 $\$1$	
Reclamation management and/or administration: 5.00 \$1)0
	274
CONTINGENCY: 3.00 Total = \$6	17
TOTAL INDIRECT COST = $_$	347
TOTAL BOND AMOUNT (direct + indirect) = \$2	
	7.898

SCRAPER TEAM WORK

Site: Pro	ctor Pit		Permit	Action:	New Application	n Pern	nit/Job#: <u>M20</u>	24027
<u>PRO</u>	JECT IDENT	IFICATION						
Tas	sk #: 001		State:	Colorado		Abbrev		
	Date: 7/11/20 Jser: JR2	<u>24</u> Con	unty: <u>l</u>	Logan		File	ename: M027	/-001
	Agency or o	rganization name:	DRM	S				
HOU	RLY EQUIP	MENT			COSTS	nift basis: <u>1 per da</u>	<u>ıy</u>	
					nt Description			
			craper: Dozer:	Cat 623 NA	G			
	Suppor	rt Equipment -Loa		NA				
			p Area:	NA				
	Road Mai	ntenance – Motor (-Water	Grader: Truck:	CAT 14 NA	0M			
			TTUCK.	1471				
<u>Cost I</u>	Breakdown:	Scraper Wor			Support Equir		Maintenanc	
		Scraper	Doz	zer	Load Area	Dump Area	Motor Grader	Water '
%Utilizat	tion-machine:	100		NA	NA	NA	100	1
Ownersł	hip cost/hour:	\$265.74		NA	NA	NA	\$77.29)
Operati	ing cost/hour:	\$194.31		NA	NA	NA	\$56.87	'
	zation-ripper:	NA		NA	NA	NA	NA	
	vn. cost/hour:	NA		NA	NA	NA	\$0.00	
	op. cost/hour:	NA		NA	NA	NA	\$0.00	
1	tor cost/hour:	\$30.90		NA	NA	NA	\$27.76	
	nit Subtotals:	\$490.95		NA	NA	NA	\$161.92	,
	nber of Units:	1		0	0	0	1	
Gro	oup Subtotals:	Work:	\$490	0.95	Support:	\$0.00	Maint:	\$161
Total	work team cost/	'hour: <u>\$652.87</u>						
MAT	ERIAL QUA	NTITIES						
	Initial volume:	4,864		CCY	Swell fact	or: <u>1.215</u>		
1	Loose volume:	5,910		LCY				
		rce of estimated vo of estimated swell f		6" x 6.03 Cat Hand				
<u>HOU</u>	RLY PRODU	JCTION						
					Scraper Bo	owl (volume) Basi	<u>s:</u>	
Ma	aterial weight:	1,600 lbs/LCY			Struck '	Volume: <u>18.00</u>		LCY
	al description:	Top Soil			Heaped '	Volume: 23.00		LCY
	Lated Payload:	55,200 pounds			Average '			LCY

<u>0.90</u> Minutes

<u>0.70</u> Minutes

Cycle Time:

Scraper Loading Time: Maneuver and Spread Time:

Job Condition Correction:

Site Altitude: 3920 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: <u>Rutted dirt, little maintenance, no water, 1" tire penetration 4.0</u>

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	550.00	5.00	4.00	9.00	715	0.79

Haul Time: 0.79 minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
	550.00	-5.00	4.00	-1.00	2774	0.26
				Return Time:	0.26 1	ninutes
			Total Scrape	er team cycle time:	2.65	minutes
			Adjusted	for job conditions:	385.25	LCY/Hour
			Selected Nu	umber of Scrapers:	1	Scraper(s)
	Adjuste	d single scra	per team (unit)	hourly production:	385.25	LCY/Hour
	Adjusted n	nultiple scrap	er team (fleet)	hourly production:	385.25	LCY/Hour
Optima	Unadjusted unit pro al Number of Scrapers pe			_ LCY/Hour		
IOB T	IME AND COST					
Flee	t size: 1	Team(s)	Т	otal job time:	15.34	Hours

 Fleet size:
 1
 Team(s)
 Total job time:
 15.34
 Hours

 Unit cost:
 \$1.695
 /LCY
 Total job cost:
 \$10,016

REVEGETATION WORK

]	Fask descrip	otion:	Reveg 6.03ac				
Site:	Proctor I	Pit	Per	mit Action:	New Application	Permit/Job	o#: M2024027
<u>P</u>]	ROJECT	IDENTIFIC	CATION				
	Task #: Date:	002 7/11/2024	State: County:	Colorado Logan		Abbreviation: Filename:	None M027-002
	User:	JR2	County.	Logan		i nename.	101027-002
	Age	ency or organi	zation name: DR	MS			

FERTILIZING

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Materials	
			Cost/Acre	\$0.00

Application

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

TILLING

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
Total Tilling Cost/Acre	\$117.61

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Sand Dropseed	0.25	29.84	\$3.25
Russian Wildrye - Bozoisky	3.00	12.05	\$33.22
Intermediate Wheatgrass - Oahe	2.50	5.34	\$11.61
Pubescent Wheatgrass - Mandan	3.00	6.20	\$14.01
Slender Wheatgrass - Native	2.00	7.30	\$14.13
Western Wheatgrass - Native	2.00	5.05	\$18.01
Totals Seed Mix	12.75	65.78	\$94.25

Application

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$236.64
	Total Seed Application Cost/Acre	\$236.64

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Hay, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$492.78	\$985.56
Total Mulch Materials Cost/Acre				\$985.56

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$85.37
	Total Mulch Application Cost/Acre	\$85.37

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

Estimate *Selected Replanti	No. of Acres: ed Failure Rate: ng Work Items:	25%	Cost /Acre: Cost /Acre*:	
Initial Job Cost:	\$9,162.16			
Reseeding Job Cost:	\$498.82			
Total Job Cost:	\$9,661			
Job Hours:	10.55			

EQUIPMENT MOBILIZATION/DEMOBILIZATION

	ask description: Proctor Pit		Permit	Action: New	Application	n	Permit/Job#: <u>M</u>	2024027
PR	ROJECT IDE	NTIFICATI	ON					
<u>1 IX</u>	Task $\#$: 003			olorado		Abbre	eviation: None	
		1/2024		ogan			ilename: M027	
	Agency	or organizatior	n name: DRMS					
EQ	<u>DUIPMENT 1</u>	TRANSPOR	T RIG COST					
					C	Shift ba Cost Data Sou:	A	
	Truck	Tractor Desc	ription: GENE	RIC ON-HIGH			OR, 6X4, DIESEI	L POWERED,
					400 HP	(2ND HALF,	2006)	
	Truc	k Trailer Desc	ription: G		ING GOO	(2ND HALF, SENECK, DF (25T, 50T, AN	ROP DECK EQU	IPMENT
Cos	Truc <u>st Breakdown:</u>	k Trailer Desc	ription: G		ING GOO	SENECK, DI	ROP DECK EQU	IPMENT
	st Breakdown: Available Rig C	apacities	ription: G		ING GOO FRAILER (SENECK, DI	ROP DECK EQU	IPMENT
	<u>st Breakdown:</u> Available Rig C Ownership	apacities Cost/Hour:	0-25 Tons \$10.44	1	VING GOO TRAILER (51+ \$2	SENECK, DF (25T, 50T, A) • Tons 3.94	ROP DECK EQU	IPMENT
	st Breakdown: Available Rig C Ownership Operating	apacities Cost/Hour: Cost/Hour:	0-25 Tons \$10.44 \$26.48	26-50 Tons \$22.18 \$54.55	VING GOO TRAILER (51+ \$2 \$5	SENECK, DF (25T, 50T, A) Tons 3.94 5.65	ROP DECK EQU	IPMENT
	<u>st Breakdown:</u> Available Rig C Ownership Operating Operator	apacities Cost/Hour: Cost/Hour: Cost/Hour:	0-25 Tons \$10.44 \$26.48 \$22.52	26-50 Tons \$22.18 \$54.55 \$22.52	VING GOO TRAILER (51+ \$2 \$5 \$2 \$2	SENECK, DF (25T, 50T, A) Tons 3.94 5.65 2.52	ROP DECK EQU	IPMENT
	<u>st Breakdown:</u> Available Rig C Ownership Operating Operaton Helpen	apacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	0-25 Tons \$10.44 \$26.48 \$22.52 \$0.00	26-50 Tons \$22.18 \$54.55 \$22.52 \$23.53	VING GOO TRAILER (51+ \$2 \$5 \$2 \$2 \$2 \$2	SENECK, DF (25T, 50T, A) Tons 3.94 5.65 2.52 3.53	ROP DECK EQU	IPMENT
	<u>st Breakdown:</u> Available Rig C Ownership Operating Operaton Helpen	apacities Cost/Hour: Cost/Hour: Cost/Hour:	0-25 Tons \$10.44 \$26.48 \$22.52	26-50 Tons \$22.18 \$54.55 \$22.52	VING GOO TRAILER (51+ \$2 \$5 \$2 \$2 \$2 \$2	SENECK, DF (25T, 50T, A) Tons 3.94 5.65 2.52	ROP DECK EQU	IPMENT
	<u>st Breakdown:</u> Available Rig C Ownership Operating Operaton Helpen	apacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	0-25 Tons \$10.44 \$26.48 \$22.52 \$0.00 \$59.44	26-50 Tons \$22.18 \$54.55 \$22.52 \$23.53	VING GOO TRAILER (51+ \$2 \$5 \$2 \$2 \$2 \$2	SENECK, DF (25T, 50T, A) Tons 3.94 5.65 2.52 3.53	ROP DECK EQU	IPMENT
A	st Breakdown: Available Rig C Ownership Operating Operator Helper Total Unit	apacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPN	0-25 Tons \$10.44 \$26.48 \$22.52 \$0.00 \$59.44 MENT:	26-50 Tons \$22.18 \$54.55 \$22.52 \$23.53 \$122.78	VING GOO TRAILER (51+ \$2 \$5 \$2 \$2 \$12	SENECK, DF (25T, 50T, AN 3.94 5.65 2.52 3.53 25.64	ROP DECK EQU ND 100T)	
A	st Breakdown: Vailable Rig C Ownership Operating Operator Helper Total Unit ON ROADAB Machine	apacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: t Cost/Hour: LE EQUIPN Weight/	0-25 Tons \$10.44 \$26.48 \$22.52 \$0.00 \$59.44 MENT: Owner ship	26-50 Tons \$22.18 \$54.55 \$22.52 \$23.53 \$122.78	Fleet	SENECK, DF (25T, 50T, AN 3.94 5.65 2.52 3.53 25.64 Haul Trip	ROP DECK EQU	
<u>А</u> NO	st Breakdown: Available Rig C Ownership Operating Operator Helper Total Unit	apacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPN Weight/ Unit	0-25 Tons \$10.44 \$26.48 \$22.52 \$0.00 \$59.44 MENT:	26-50 Tons \$22.18 \$54.55 \$22.52 \$23.53 \$122.78	VING GOO TRAILER (51+ \$2 \$5 \$2 \$2 \$12	SENECK, DF (25T, 50T, AN 3.94 5.65 2.52 3.53 25.64 Haul Trip Cost/hr/	ROP DECK EQU ND 100T) Return Trip	DOT Permit
A NO M D	st Breakdown: Vailable Rig C Ownership Operating Operator Helper Total Unit ON ROADAB Machine Description Cat 623G	apacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: t Cost/Hour: LE EQUIPN Weight/	0-25 Tons \$10.44 \$26.48 \$22.52 \$0.00 \$59.44 MENT: Owner ship	26-50 Tons \$22.18 \$54.55 \$22.52 \$23.53 \$122.78 Haul Rig Cost/hr/uni	Fleet	SENECK, DF (25T, 50T, AN 3.94 5.65 2.52 3.53 25.64 Haul Trip	ROP DECK EQU ND 100T) Return Trip	DOT Permit
A NO M D	st Breakdown: Vailable Rig C Ownership Operating Operator Helper Total Unit ON ROADAB Machine Description	apacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPN Weight/ Unit (TONS)	0-25 Tons \$10.44 \$26.48 \$22.52 \$0.00 \$59.44 MENT: Owner ship Cost/hr/ unit	26-50 Tons \$22.18 \$54.55 \$22.52 \$23.53 \$122.78 Haul Rig Cost/hr/uni t	ING GOO TRAILER (51+ \$2 \$5 \$2 \$2 \$12 Fleet Size	SENECK, DF (25T, 50T, A) Tons 3.94 5.65 2.52 3.53 25.64 Haul Trip Cost/hr/ fleet	ROP DECK EQU ND 100T) Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet

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	\$24.60	1	\$24.60	\$24.60
		Subtotals:	\$24.60	\$24.60

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	STERLING	
Total one-way travel distance:	21.00	miles
Average Travel Speed:	55.00	mph
Total Non-Roadable Mob/Demob Cost *	\$1,855.40	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$18.79	

Transportation Cycle Time:

Haul Time (Hours): Return Time (Hours):	Non- Roadable Equipment 0.38 0.38	Roadable Equipment 0.38 0.38
Loading Time (Hours):	0.38	0.38 NA
Unloading Time (Hours):	0.15	NA
Subtotals:	1.06	0.76

JOB TIME AND COST

Total job time: **2.13** Hours

Total job cost: \$1,874