COST SUMMARY WORK

: Midwestern Farms		Per	mit Action: SR-1 2017	7 Permit/Jol	b#: <u>M1993059</u>
ROJECT	<u>IDENTIFICAT</u>	<u> TION</u>			
Task #:	000	State:	Colorado	Abbreviation:	None
Date:	11/7/2017	County:	Prowers	Filename:	M059-000
User:	AME	_			

TASK LIST (DIRECT COSTS)

Toal		Form	Fleet	Task	
Task	Description	Used	Size	Hours	Cost
001	Grade E pond shoreline to 3H:1V	EXCAVATE	1	10.27	\$1,197.00
002	Erosion repair along pond shorelines	DOZER	1	4.91	\$804.00
003	Install 6' w riprap blanket along 2000' shoreline 6"	NA	1	40.00	\$20,000.00
	nominal				
004	Seed 255.1 acres + weed control	REVEGE	1	255.00	\$296,627.00
005	Mobilization/Demobilization	MOBILIZE	1	3.74	\$3,049.00
		313.92	\$321,677		

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:2.02Total =\$6,497.88Performance bond:1.05Total =\$3,377.61Job superintendent:0.00Total =90.00

Profit: 10.00 Total = $\frac{$32,167.70}{TOTAL \ O \& P = }$ \$42,043.19

CONTRACT AMOUNT (direct + O & P) = $\frac{$363,720.19}$

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): 500.00 Total = 500.00

Engineering work and/or contract/bid preparation: 0.00 Total = \$0.00

Reclamation management and/or administration: 5.00 \$18,186.01

CONTINGENCY: 0.00 Total = \$0.00

TOTAL INDIRECT COST = \$60,729.20

TOTAL BOND AMOUNT (direct + indirect) = \$382,406.20

HYDRAULIC EXCAVATOR WORK

Task description:	Grade E pond sh	noreline to 3	3H:1V		
: Midwestern Farms	Per	mit Action:	SR-1 2017	Pern	nit/Job#: <u>M1993059</u>
PROJECT IDENTI	FICATION				
Task #: 001 Date: 11/7/2017 User: AME	State: County:	Colorado Prowers		Abbrev File	viation: None M059-001
Agency or org	anization name: DI	RMS			
HOURLY EQUIPM	ENT COST				
Basic Machine: Attachment 1:	Cat 324D L 9'-8" S ROPS Cab	Stick	W	Horsepower:	194 24.85 1 per day (CRG)
Cost Breakdown:			Utilization %		(end)
Ownership Cost Operating Cost Operator Cost Total Unit Cost	/Hour: \$40.: /Hour: \$37.	22 79	NA 100 NA	- - -	
Total Fleet Cos	t/Hour: \$116	5.55			
	TITIES 4,000 5,080	_ CCY _ LCY	Swell facto	or: 1.270	
	of estimated volume: estimated swell factor:		L shoreline x 6 ft H lbook	[
HOURLY PRODUC	<u>CTION</u>				
Excavator Cycle Time (load bucket, swing loa	aded, dump l	oucket, swing empt	<u>y):</u>	
	Secondary Job Co		Condition Description in Basic Description Cycle Time Value	on: AVERAG	AVERAGE E minutes
Load Bucket Capacity				Bucket Size Cla	ss: Medium
Rated Capaci Bucket Fill Facto Adjusted Capaci	or: 1.050	LCY (he Moist los	aped) am or sandy clay (1		
Job Condition Correction	n Factors		Site A	Altitude: <u>3400</u> fe	et
Altitude Adj: Job Efficiency: Net Correction:	1.00 0.83 0.83	Source (CAT H (1 shift/d multiplie	B) ay)		
	nadjusted Hourly Unit Adjusted Hourly Unit Adjusted Hourly Fleet	Production:	494.46	LCY/Hour LCY/Hour LCY/Hour	
JOB TIME AND CO	<u>OST</u>				
Fleet size:	1 Excavat	or T	otal job time:	10.27	Hours
Unit cost: \$0	0.236 /LCY		Total job cost:	\$1,197	

BULLDOZER WORK

Task description:	Erosion repair a	Erosion repair along pond shorelines			
Midwestern Farms	Per	mit Action:	SR-1 2017	_ Permit/Job#:	M1993059
PROJECT IDENTIF	<u>ICATION</u>				
Task #: 002	State:	Colorado		Abbreviation:	None
Date: $\frac{002}{11/7/2017}$	County:	Prowers		Filename:	M059-002
User: AME		Tiowers		T Hendine.	111037 002
Agency or orga	 nization name: DF	RMS			
HOURLY EQUIPMI					
	t D7R DS Series II L	GP			
Horsepower: 240		<u> </u>	<u> </u>		
	aight				
Attachment: NA	4				
	er day				
Data Source: (C)	RG)		<u>—</u>		
Cost Breakdown:			ı		
0 11 0 4		ΦζΩ ΩΩ	<u>Utilization %</u>		
Ownership Cost/Hour:		\$60.88	NA 100		
Operating Cost/Hour: Ripper own. Cost/Hour:		\$61.14 \$0.00	100 NA		
Ripper op. Cost/Hour:		\$0.00	0		
Operator Cost/Hour:	-	\$41.85	NA		
		Ψ11.05	IVA		
Total unit Cost/Hour:	\$163.87				
Total Fleet Cost/Hour:	\$163.87				
MATERIAL QUANT	FITIES				
Initial Volume: 1,33					
Swell factor: 1.12		_			
	98 LCY	_			
		_			
Source of estimated volu			on, Mining & Safety		
Source of estimated swel	ll factor: Cat Hand	DOOK			
HOURLY PRODUC	TION				
Average push distance:	50 feet	<u></u>			
Unadjusted hourly produ	ection: 800.0 LCY/	hr			
Materials consistency dea	scription: Compa	cted fill or e	mbankment 0.9		
Average push gradient:	-5 %				
Average site altitude:	3,400 feet				
Material weight:	2,900 lbs/LCY			_	
Weight description:	Sand and gravel -	Dry			
Job Condition Correction			Source		
Operator Operator		750	(AVG.)		
Material consist		900	(CAT HB))		
Dozing me		100	(50% SL)		
		000	(AVG.)		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.700	(FND-MF)
Push gradient:	1.115	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3814

Adjusted unit production: 305.12 LCY/hr
Adjusted fleet production: 305.12 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.537/LCY

Total job time: 4.91 Hours
Total job cost: \$804

REVEGETATION WORK

		Seed 255.1 acres + weed control					
Midweste	ern Farms	Permit Action: SR-1 2017 Permit/Job#:			b#: <u>M1993059</u>		
ROJECT 1	<u>IDENTIFICAT</u>	ΓΙΟΝ					
Task #:	004	State:	Colorado		Abbreviation:	None	
Date:	11/8/2017	County:	Prowers		Filename:	M059-004	
User:	AME				_		
Age	ency or organizati	on name: DR	RMS				
<u>ERTILIZI</u>	ING						
aterials	<u></u>						
			Units /				
Description	on		Acre	Unit	Cost / Unit	Cost /Acre	
					\$	\$	
					Total Fertilizer Material		
					Cost/Acro		
Description						\$	
						\$	
			Total	Fertilizer A	Application Cost/Acro	\$0.00	
ILLING						,	
Description	on					Cost /Acre	
Description	on					Cost /Acre	
Description	on			To	otal Tilling Cost/Acro	\$	
	on			Te	otal Tilling Cost/Acro	\$	
					Rate – PLS Seeds LBS / per SQ.	\$	
EEDING Seed Mix					Rate – PLS Seeds LBS / per SQ. Acre FT	\$ \$0.00 Cost /Acre	
EEDING Seed Mix Altai Wild	lrye - Prairieland				Rate – PLS LBS / Acre 0.75 Seeds per SQ. FT 1.00	\$ \$0.00 Cost /Acre \$4.49	
Seed Mix Altai Wild Sand Love	lrye - Prairieland egrass - Bend				Rate – PLS Seeds per SQ. FT 0.75 1.00 0.20 6.89	\$ \$0.00 Cost /Acre \$4.49 \$4.00	
Seed Mix Altai Wild Sand Love Blue Gran	lrye - Prairieland egrass - Bend na - Native				Rate – PLS per SQ. LBS / FT 0.75 1.00 0.20 6.89 0.24 3.92	\$ \$0.00 Cost /Acre \$4.49 \$4.00 \$3.48	
Seed Mix Altai Wild Sand Love Blue Gran Sand Drop	lrye - Prairieland egrass - Bend na - Native				Rate – PLS Seeds per SQ. FT 0.75 1.00 0.20 6.89	\$ \$0.00 Cost /Acre \$4.49 \$4.00	

\$31.91

3.42

Totals Seed Mix

24.32

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	100.00	ACRE	\$2.74	\$274.00
Total Mulch Materials Cost/Acre				\$274.00

Application

Description		Cost /Acre
Weed spray, hand, aquatic area, nox. [DMG]		\$170.90
	Total Mulch Application Cost/Acre	\$170.90

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
	\$0.00				

JOB TIME AND COST

 No. of Acres:
 255.1
 Cost /Acre:
 \$708.81

 Estimated Failure Rate:
 25%
 Cost /Acre*:
 \$263.91

*Selected Replanting Work Items: SEEDING

Initial Job Cost: \$180,817.43

Reseeding Job Cost: \$16,830.86

Total Job Cost: \$197,648

Job Hours: 255.00

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description:	Mobilization/Demo	bilization		
Site: Midwestern Farms	Permi	t Action: SR-1 20)17 Pe	ermit/Job#: <u>M1993059</u>
PROJECT IDENTIFIC	<u>CATION</u>			
Task #: 005	State: C	Colorado	Abbrev	iation: None
Date: 11/8/2017	County: F	Prowers	File	name: M059-005
User: AME				
Agency or organ	ization name: DRM	S		
EQUIPMENT TRANS	PORT RIG COST			
			Shift basis	s: 1 per day
			Cost Data Source	e: CRG Data
Truck Tractor	r Description: GEN	ERIC ON-HIGHW	AY TRUCK TRACTOR	R, 6X4, DIESEL POWERED,
110011 110000	e 2 courpulation.		400 HP (2ND HALF, 20	
Truck Trailer	r Description:	GENERIC FOLDIN	IG GOOSENECK, DRO	OP DECK EQUIPMENT
		TR	AILER (25T, 50T, ANI	D 100T)
Cost Progledown				
Cost Breakdown:		T.		
Available Rig Capacitie		26-50 Tons	51+ Tons	
Ownership Cost/H		\$18.37	\$22.33	
Operating Cost/H		\$46.13	\$50.07	
Operator Cost/H		\$27.66	\$27.66	
Helper Cost/H	our: \$0.00	\$25.39	\$25.39	

NON ROADABLE EQUIPMENT:

Total Unit Cost/Hour:

\$88.67

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 324D L 9'-8"	27.33	\$38.54	\$117.55	1	\$156.09	\$117.55	\$250.00
Stick							
Cat D7R DS	38.49	\$66.21	\$117.55	1	\$183.76	\$117.55	\$250.00
Series II LGP							
Drill/Broadcast	25.00	\$12.22	\$88.67	1	\$100.89	\$88.67	\$250.00
Seeder with							
Tractor							

\$117.55

\$125.45

Subtotals: \$440.74 \$323.77 \$750.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
		Subtotals:	\$0.00	\$0.00

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:

Total one-way travel distance:

Average Travel Speed:

LAMAR

24.00

miles

55.00

mph

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.44	0.44
Return Time (Hours):	0.44	0.44
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.87	0.87

JOB TIME AND COST

Total job time:	3.75	Hours
Total job cost:	\$3,049	