March 2, 2017

Cecil Powell Powell's Gravel Pit P.O. Box 23 Dinosaur, CO 81610



1313 Sherman Street, Room 215 Denver, CO 80203

RE: Powell's Gravel Pit, Permit No. M-1995-012, Technical Revision (TR-1) Approval

Dear Mr. Powell:

On February 17, 2017 the Division of Reclamation, Mining and Safety (Division) approved the Technical Revision request (TR-1) submitted on December 8, 2016, addressing the following:

Revised Reclamation as following:

- All slopes disturbed by mining after 1995 will be regarded to a slope of 2:1 or less
- Areas disturbed after 1995 not to remain as storage will be reclaimed as following:
 - Compacted areas will be ripped to a depth of 18-24"
 - o Salvaged topsoil will be reapplied to a depth of 1-4" as available
 - o A cover crop will be planted and tilled under for 2 years prior to final reclamation
 - Cover crop will be broadcast seeded (Barley @40 PLS/AC, Triticale @10 PLS/AC, Wheat @40 PLS/AC)
 - Early fall planting
 - disk soil, broadcast seed table 6 (Siberian Wheatgrass @24 PLS/AC, Russian Wildrye @ 8 PLS/AC, Slender Wheatgrass @ 6 PLS/AC, Yellow Sweet Clover @ 1 PLS/AC or approved alternatives)
 - Late fall planting
 - Broadcast seed with recently harvested Forage Kochia @ 4 PLS/AC, apply straw mulch and crimp into place at 1 ton/AC
- Weeds will be treated as necessary throughout the life of the permit

The terms of the TR-1 approved by the Division are hereby incorporated into Permit No. M-1995-012. All other conditions and requirements of the permit remain in full force and effect.

As previously stated with the approval of TR-1 the Division will withdrawal SI-1 issued on June 28, 2016.

The estimated liability amount of \$12,327.91 exceeds the \$9,200 Financial Warranty currently held for this site. If you have not already done so, please submit additional bond in the amount of \$3,127.91 Pursuant to Section 34–32.5–117(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, May 01, 2017. The revision will not be final until the bond is approved by the Division.



If you require additional information, or have questions or concerns, please feel free to contact me.

Sincerely,

Amy Yeldell

Environmental Protection Specialist Department of Natural Resources Division of Reclamation, Mining and Safety Phone: (970) 254-8511

Fax: (970) 241-1516

Amy Geldell

Cc:

Matt Combs Great Basin Environmental and Aquatics P.O. Box 114 Richmond, UT 84333

Ec:

Tony Waldron, Minerals Program Supervisor, DRMS Russ Means, Senior EPS, Grand Junction DRMS Amy Yeldell, EPS, Grand Junction DRMS

Ta	sk description:	Updates based o	on TR-1				
Site:	Powell's Gravel Pit	Pe	rmit Action:	TR-1		Permit/Jol	o#: <u>M1995012</u>
PR	OJECT IDENTIFIC	CATION					
	Task #: ACY Date: 12/12/2016 User: ACY	State: County:	Colorado Moffat			Abbreviation: Filename:	None M012-ACY
<u>TA</u>	Agency or organic		RMS				
ask	Description			Form Used	Fleet Size	Task Hours	Cost
1a	Grade slopes to 2:1			DOZER	1	2.21	\$424.00
2a	Rip compacted areas			RIPPER	1	0.45	\$94.00
a	Apply available topso	oil		DOZER	1	0.77	\$125.00
b	Cover crop planting #	1 building topsoil		REVEGE	1	8.00	\$663.00
c	Cover crop planting #			REVEGE	1	8.00	\$663.00
a	Reveg disturbed areas			REVEGE	1	8.00	\$900.00
b	Reveg disturbed areas	1 0		REVEGE	1	8.00	\$1,149.00
	Secondary seeding (5			REVEGE	1	8.00	\$1,359.00
c	Initial mobilization ar	• •	ng	MOBILIZE	1	2.57	\$1,839.00
c a		. 111 41		MOBILIZE	1	2.57	\$1,551.00
lc 5a	Late fall planting mob				1	2.57	$\Phi \cap \cap \cap \cap$
)4c)5a)5b	Late fall planting mob	niization		MOBILIZE	- -	2.57	\$808.00

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02 \$193.42 Total = Total = 1.05 Performance bond: \$100.54 0.00 Total = Job superintendent: \$0.00 \$957.50 10.00 Total = Profit:

TOTAL O & P =\$1,251.46

CONTRACT AMOUNT (direct + O & P) = $\frac{\$10,826.46}{\$10,826.46}$

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

500.00 Financial warranty processing (legal/related costs): Total = 500.00 4.25 Engineering work and/or contract/bid preparation: Total = \$460.12 5.00 \$541.32 Reclamation management and/or administration:

> 0.00 Total = \$0.00**CONTINGENCY:**

> > TOTAL INDIRECT COST = \$2,752.91

TOTAL BOND AMOUNT (direct + indirect) = \$12,327.91

BULLDOZER WORK

Task description:	Grad	ic slopes to 2.1			
Powell's Gravel	Pit	Permit Action:	TR-1	Permit/Job#:	M1995012
PROJECT IDEN	TIFICATION	<u>ON</u>			
Task #: 01A		State: Colorado		Abbreviation:	None
	/2016	County: Moffat		Filename:	M012-01a
User: ACY	,2010	county		i nename.	141012 014
Agency or	organization	name: DRMS			
HOURLY EQUI	PMENT CO	<u>OST</u>			
Basic Machine:	Cat D8T - 8	SSU			
Horsepower:	310				
Blade Type:	Semi-Unive	ersal			
Attachment:	NA				
Shift Basis:	1 per day				
Data Source:	(CRG)				
Cost Breakdown:					
			<u>Utilization %</u>		
Ownership Cost/H		\$83.81	NA		
Operating Cost/H		\$66.17	100		
Dinner oum Cast/II		\$0.00	NA		
Ripper own. Cost/H		\$0.00	0		
Ripper own. Cost/H	lour:	· '			
Ripper op. Cost/H Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Ho	four: \$191.3 ur: \$191.3	\$41.85 83	NA NA		
Ripper op. Cost/H Operator Cost/H Total unit Cost/Hou	four: \$191.3 ur: \$191.3	\$41.85 83	NA NA		
Ripper op. Cost/H Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Ho MATERIAL QU Initial Volume:	four: ar: \$191.3 ar: \$191.5 ANTITIES 1,000	\$41.85 83	NA NA		
Ripper op. Cost/H Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated	ANTITIES 1,000 1.250 1,250 LCY volume: swell factor:	\$41.85 83			
Ripper op. Cost/H Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated	ANTITIES 1,000 1.250 1,250 LCY volume: swell factor:	S41.85 83 83 Operator provided 10 Cat Handbook			
Ripper op. Cost/H Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated	four: \$191.3 \$19	\$41.85 83 83 Operator provided 10			
Ripper op. Cost/H Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROI Average push distar	ANTITIES 1,000 1.250 1,250 LCY volume: swell factor: DUCTION nce: production:	S41.85 83 83 Operator provided 10 Cat Handbook 50 feet 1,400.0 LCY/hr)'H 350'L		
Ripper op. Cost/H Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROI Average push distar Unadjusted hourly p	four: \$191.3	S41.85 83 Operator provided 10 Cat Handbook 50 feet 1,400.0 LCY/hr Compacted fill or one)'H 350'L		
Ripper op. Cost/H Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROI Average push distar Unadjusted hourly p Materials consistence	four: \$191.3	S41.85 83 Operator provided 10 Cat Handbook 50 feet 1,400.0 LCY/hr Compacted fill or one)'H 350'L		
Ripper op. Cost/H Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROI Average push distar Unadjusted hourly p Materials consistence Average push gradic Average site altitude	four: \$191.3 \$191.5 \$1	S41.85 83 Operator provided 10 Cat Handbook 50 feet 1,400.0 LCY/hr Compacted fill or effect)'H 350'L		
Ripper op. Cost/H Operator Cost/H Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROI Average push distar Unadjusted hourly p Materials consistence Average push gradic Average site altitude Material weight: Weight description: Job Condition Corre	State Stat	S41.85 83 83 Operator provided 10 Cat Handbook 50 feet 1,400.0 LCY/hr Compacted fill or offeet lbs/LCY - Dry packed	o'H 350'L embankment 0.9		
Ripper op. Cost/H Operator Cost/H Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated FOURLY PROI Average push distar Unadjusted hourly p Materials consistence Average push gradic Average site altitude Material weight: Weight description: Job Condition Correct Ope	Section Factor rator Skill: Signature	S41.85 83 83 Operator provided 10 Cat Handbook 50 feet 1,400.0 LCY/hr Compacted fill or of the second se	2'H 350'L embankment 0.9 Source (AVG.)		
Ripper op. Cost/H Operator Cost/H Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor: Loose volume: Loose volume: Source of estimated Source of estimated FOURLY PROI Average push distar Unadjusted hourly pu Materials consistence Average push gradic Average site altitude Material weight: Weight description: Job Condition Corre Ope Material co	State Stat	S41.85 83 83 Operator provided 10 Cat Handbook 50 feet 1,400.0 LCY/hr Compacted fill or offeet lbs/LCY - Dry packed	o'H 350'L embankment 0.9		

0.830	(1 SHIFT/DAY)
0.800	(FND-RF)
1.000	(CAT HB)
1.000	(CAT HB)
0.902	(CAT HB)
1.000	(PAT)
	0.800 1.000 1.000 0.902

Net correction: 0.4043

Adjusted unit production: 566.02 LCY/hr
Adjusted fleet production: 566.02 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.339/LCY

Total job time: 2.21 Hours
Total job cost: \$424

BULLDOZER RIPPING WORK

	Task description:	Rip	compacted areas					_
Site	Powell's Grav	el Pit	Permit Action:	TR-1	Permi	t/Job#:	M1995012	
	PROJECT ID	ENTIFICATI	<u>ON</u>					
	Task #: 02.	A	State: Colorado		Abbrevia	ition:	None	
		/2017	County: Moffat		Filen	ame:	M012-02a	
	User: AC	<u>Y</u>						
	Agency	or organization	name: DRMS					
	HOURLY EQ	UIPMENT CO	<u>OST</u>					
	Basic	Machine: Cat	D8T - 8SU		Horsepower:	3	10	
	Ripper Att	achment: 3-S	hank Ripper		Shift Basis:		er day	
					Data Source:	(C	RG)	
	Cost Breakdown:	-		1				
		0	/TT	¢02.01	Utilization %			
		Ownership Co Operating Co		\$83.81 \$66.17	NA 100			
	Rippe	er Ownership Co		\$7.55	NA			
		per Operating Co		\$7.21	100			
		Operator Co		\$41.85	NA			
		Total Unit Co	ost/Hour:	\$206.59				
		Total Fleet Co	ost/Hour: \$206	5.59				
	MATERIAL (UANTITIES	Sele	cted estimating	method: Area			
	Alternate Method	ls:			<u> </u>			_
Seismic:	NA		Bank Volume:	NA	BCY	N	NA	
Area:	0.25	acres	Rip Depth (ft):	2.00	Volume: 807	1		Y or CC
		Source of estir	nated quantity: Rip cor	nnacted areas 1	 8-24" deen - Operato	r provid	led	
	HOUDI V DDA			T	or and a process	- F		
	HOURLY PRO	DUCTION						
	Seismic:		Seismic Velocity:	NA	feet/second			
		,	Jeisine velocity.	IVA	recorded			
	Area:	Arrama	a Dinning Donth	2.56	mmh			
			e Ripping Depth: e Ripping Width:	2.56 7.08	mph degrees			
			Ripping Length:	75.00	feet			
			age Dozer Speed:	88.00	feet			
			Maneuver Time:	0.25	feet			
		Produc	tion per unit area:	0.664	acres/hour			
	Job Condition Co	orrection Factors	1					
	Un	adjusted Hourly	Unit Production:	0.664	Acres/hr			
			Site Altitude:	6,070	feet			
			Altitude Adj:	1.00	(CAT HB)			
			Job Efficiency:	0.83	(1 shift/day)			
			Net Correction:	0.83	multiplier			
			Hourly Unit Production:	0.55	Acres/hr			
		Adjusted 1	Hourly Fleet Production:	0.55	Acres/hr			
	JOB TIME AN	ND COST						
	Fleet size:	1	Grader(s)	Total job tim	ne: 0.45		Hours	
	Unit cost:	\$375.113	Per acre	Total job co	st: \$94			
	omi cost.	ψυ (υ.113	- 1 01 0010	10tai juu cu	φ94			

BULLDOZER WORK

D 111 ~		y available topsoil			
Powell's Gravel	Pit	Permit Action	TR-1	Permit/Job#:	M1995012
PROJECT IDEN	NTIFICATION	<u>ON</u>			
Task #: 03A		State: Colorado)	Abbreviation:	None
Date: $\frac{-6217}{2/7/2}$	017	County: Moffat		Filename:	M012-03a
User: ACY					
Agency or	organization	name: DRMS			
HOURLY EQUI	PMENT CO	<u>ost</u>			
Basic Machine:	OBSOLET	E-Cat D8T - 8U			
Horsepower:	305				
Blade Type:	Universal		<u></u>		
Attachment:	NA				
Shift Basis: Data Source:	1 per day (CRG)				
	(CNO)				
<u>Cost Breakdown</u> :			TT.HI		
O	T	¢52.00	<u>Utilization %</u>		
Ownership Cost/H Operating Cost/H		\$52.86 \$68.35			
Ripper own. Cost/H		\$0.00			
Ripper op. Cost/H		\$0.00	1	<u></u>	
Operator Cost/H		\$41.85			
F	-		1111		
MATERIAL QU Initial Volume:					
-	500				
Swell factor: Loose volume:	500 1.125 563 LCY				
Swell factor:	1.125 563 LCY I volume:	1.43 ac @ 2-3" Cat Handbook			
Swell factor: Loose volume: Source of estimated	1.125 563 LCY l volume: l swell factor:				
Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROI Average push distant	1.125 563 LCY l volume: l swell factor:	Cat Handbook 50 feet			
Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROI Average push distar Unadjusted hourly	1.125 563 LCY l volume: l swell factor: DUCTION nce: production:	Cat Handbook 50 feet 1,627.0 LCY/hr	 		
Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROI Average push distar Unadjusted hourly Materials consisten	1.125 563 LCY I volume: I swell factor: DUCTION nce: production: cy description	Cat Handbook 50 feet 1,627.0 LCY/hr	kpile 1.0		
Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROI Average push distar Unadjusted hourly	1.125 563 LCY I volume: I swell factor: DUCTION nce: production: cy description ent: 0 %	Cat Handbook 50 feet 1,627.0 LCY/hr Consolidated stoce	kpile 1.0		
Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROI Average push distat Unadjusted hourly p Materials consisten Average push gradi	1.125 563 LCY I volume: I swell factor: DUCTION nce: production: cy description ent: e: 6,070	Cat Handbook 50 feet 1,627.0 LCY/hr Consolidated stoce	kpile 1.0		
Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROI Average push distar Unadjusted hourly Materials consisten Average push gradi Average site altitud	1.125 563 LCY I volume: I swell factor: DUCTION nce: production: cy description ent:	Cat Handbook 50 feet 1,627.0 LCY/hr Consolidated stock feet	kpile 1.0		
Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROI Average push distart Unadjusted hourly profile Materials consisten Average push gradic Average site altitud Material weight: Weight description: Job Condition Corre	1.125 563 LCY I volume: I swell factor: DUCTION nce: production: cy description ent:	Cat Handbook 50 feet 1,627.0 LCY/hr Consolidated stoce feet lbs/LCY Dry packed	Source		
Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROI Average push distart Unadjusted hourly p Materials consisten Average push gradi Average site altitud Material weight: Weight description: Job Condition Corre Ope	1.125 563 LCY I volume: I swell factor: DUCTION nce: production: cy description ent:	Cat Handbook 50 feet 1,627.0 LCY/hr Consolidated stock feet lbs/LCY			
Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROI Average push distar Unadjusted hourly p Materials consisten Average push gradi Average site altitud Material weight: Weight description: Ope Material c	1.125 563 LCY I volume: I swell factor: DUCTION nce: production: cy description ent: 6,070 2,550 Earth ection Factor erator Skill:	Cat Handbook 50 feet 1,627.0 LCY/hr Consolidated stoce feet lbs/LCY Dry packed 0.750	Source (AVG.)		

Page 2 of 2

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:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4492

Adjusted unit production: 730.85 LCY/hr
Adjusted fleet production: 730.85 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.223/LCY

Total job time: 0.77 Hours
Total job cost: \$125

Powell's Gravel Pit	Permit	Action: TR-			Permit/Job	#: <u>M1995012</u>
OJECT IDENTIFICA	ATION					
Task #: 03B		olorado		Δh	breviation:	None
Date: $\frac{03B}{2/7/2017}$		offat			Filename:	M012-03b
User: ACY					-	
Agency or organiza	tion name: DRMS	}				
CRTILIZING						
nterials						
		Units /	T T 1.	C-	-4 / TT24	G = =4 /A ====
Description		Acre	Unit	Cos	st / Unit	Cost /Acre
				\$		\$
				То	tal Fertilizer Materials	
					Cost/Acre	\$0.00
		Tota	l Fertilizer	Applicatio	on Cost/Acre	Cost /Acre
Description LLING Description Disc harrowing, 6" deep (MEANS 32.91.13.23		l Fertilizer	Application	on Cost/Acre	\$ \$0.00 Cost /Acre
Description LLING	MEANS 32 91 13.23				on Cost/Acre	\$ \$0.00 Cost /Acre \$107.59
Description LLING Description	MEANS 32 91 13.23					\$ \$0.00 Cost /Acre \$107.59
Description LLING Description Disc harrowing, 6" deep (MEANS 32 91 13.23			Total Tillin	ng Cost/Acre	\$ \$0.00 Cost /Acre \$107.59
Description LLING Description Disc harrowing, 6" deep (MEANS 32 91 13.23				ng Cost/Acre	\$ \$0.00 Cost /Acre \$107.59
Description LLING Description Disc harrowing, 6" deep (MEANS 32 91 13.23			Total Tillin Rate – PLS LBS /	ng Cost/Acre	\$ \$0.00 Cost /Acre \$107.59 \$107.59
Description LLING Description Disc harrowing, 6" deep (MEANS 32 91 13.23			Rate – PLS LBS / Acre	Seeds per SQ. FT	\$0.00 Cost /Acre \$107.59 \$107.59
Description LLING Description Disc harrowing, 6" deep (MEANS 32 91 13.23			Rate – PLS LBS / Acre 40.00	Seeds per SQ. FT	\$ \$0.00 Cost /Acre \$107.59 \$107.59 Cost /Acre
Description LLING Description Disc harrowing, 6" deep (EDING Seed Mix Barley - Steptoe Triticale				Rate – PLS LBS / Acre 40.00 10.00	Seeds per SQ. FT 12.86 5.74	\$ \$0.00 Cost /Acre \$107.59 \$107.59 Cost /Acre \$14.40 \$4.00
Description LLING Description Disc harrowing, 6" deep (Rate – PLS LBS / Acre 40.00	Seeds per SQ. FT	\$ \$0.00 Cost /Acre \$107.59 \$107.59 Cost /Acre
Description LLING Description Disc harrowing, 6" deep (EDING Seed Mix Barley - Steptoe Triticale		6100)		Rate – PLS LBS / Acre 40.00 10.00	Seeds per SQ. FT 12.86 5.74	\$ \$0.00 Cost /Acre \$107.59 \$107.59 Cost /Acre \$14.40 \$4.00

Broadcast seeding [DMG]

\$261.80

Total Seed Application Cost/Acre	\$261.80

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - 2,4D @ 1.0 pt/ac	1.00	ACRE	\$1.25	\$1.25
Total Mulch Materials Cost/Acre				\$1.25

Application

Description		Cost /Acre
Weed spray, truck, non-aquatic area, nox. [DMG]		\$62.72
	Total Mulch Application Cost/Acre	\$62.72

NURSERY STOCK PLANTING

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

JOB TIME AND COST

No. of Acres: 1.43 Cost /Acre: \$463.76
Estimated Failure Rate: 0% Cost /Acre*: \$0.00
*Selected Replanting Work Items: NONE

Initial Job Cost: \$663.18

Reseeding Job Cost: \$0.00

Total Job Cost: \$663

Job Hours: \$8.00

Co \$	bbreviation: Filename: ost / Unit otal Fertilizer Materials Cost/Acre	None M012-03c Cost /Acre
Co \$	Filename:	M012-03c Cost /Acre
Co \$	Filename:	M012-03c Cost /Acre
\$	ost / Unit otal Fertilizer Materials	Cost /Acre
\$	otal Fertilizer Materials	
	Materials	\$
To	Materials	
	Cost/Acre	
		\$0.00
Аррисан	ion Cost/Acre	\$0.00
		Cost /Acre \$107.59
Total Tilli	ing Cost/Acre	\$107.59
Rate –		
PLS	Seeds	Cost /Acre
LBS /	per SQ. FT	
Acre		
40.00	12.86	\$14.40
10.00	5.74	\$4.00
40.00	36./3	\$12.00
90.00	55.33	\$30.40
_	40.00	40.00 36.73

Broadcast seeding [DMG]

\$261.80

Total Seed Application Cost/Acre	\$261.80

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - 2,4D @ 1.0 pt/ac	1.00	ACRE	\$1.25	\$1.25
Total Mulch Materials Cost/Acre				\$1.25

Application

Description		Cost /Acre
Weed spray, truck, non-aquatic area, nox. [DMG]		\$62.72
	Total Mulch Application Cost/Acre	\$62.72

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

No. of Acres: 1.43 Cost /Acre: \$463.76
Estimated Failure Rate: 0% Cost /Acre*: \$0.00
*Selected Replanting Work Items: NONE

Initial Job Cost: \$663.18

Reseeding Job Cost: \$0.00

Total Job Cost: \$663

Job Hours: \$8.00

Powell's Gravel Pit	Permit A	Action: TR-1			Permit/Job#	#: <u>M1995012</u>
OJECT IDENTIFICAT	<u>rion</u>					
Task #: 04A	State: Col	lorado		Ah	breviation:	None
Date: 2/7/2017		offat			Filename:	M012-04a
User: ACY	_				_	
Agency or organization	on name: DRMS					
RTILIZING						
terials						
terrais		Units /				
Description		Acre	Unit	Cos	st / Unit	Cost /Acre
				\$		\$
				To	tal Fertilizer	
					Materials	
					Cost/Acre	\$0.00
Description						Cost /Acre
Description						
Description		Total	Fertilizer	Applicatio	on Cost/Acre	
LLING		Total	Fertilizer	Application	on Cost/Acre	\$
LLING		Total	Fertilizer	Application	on Cost/Acre	\$
	IEANS 32 91 13.23 6		Fertilizer	Applicatio	on Cost/Acre	\$0.00
LLING Description	IEANS 32 91 13.23 6				on Cost/Acre	\$ \$0.00 Cost /Acre
LLING Description	IEANS 32 91 13.23 6					\$ \$0.00 Cost /Acre \$106.29
LLING Description Disc harrowing, 6" deep (M	IEANS 32 91 13.23 6			Rate – PLS LBS /		\$ \$0.00 Cost /Acre \$106.29
LLING Description Disc harrowing, 6" deep (Machine) EDING Seed Mix				Rate – PLS LBS / Acre	Seeds per SQ. FT	\$0.00 Cost /Acre \$106.29 \$106.29
Description Disc harrowing, 6" deep (Machine) EDING Seed Mix Russian Wildrye - Bozoisky	y			Rate – PLS LBS / Acre 8.00	Seeds per SQ. FT	\$0.00 Cost /Acre \$106.29 \$106.29 Cost /Acre
Description Disc harrowing, 6" deep (Machine Machine) EDING Seed Mix Russian Wildrye - Bozoisky Yellow Sweet Clover - Machine	y Irid			Rate – PLS LBS / Acre 8.00 1.00	Seeds per SQ. FT 32.14 5.97	\$0.00 Cost /Acre \$106.29 \$106.29 Cost /Acre \$50.64 \$2.83
LLING Description Disc harrowing, 6" deep (Management of the property of the	y Irid			Rate – PLS LBS / Acre 8.00 1.00 6.00	Seeds per SQ. FT 32.14 5.97 21.90	\$0.00 Cost /Acre \$106.29 \$106.29 Cost /Acre \$50.64 \$2.83 \$16.92
Description Disc harrowing, 6" deep (Machine Machine) EDING Seed Mix Russian Wildrye - Bozoisky Yellow Sweet Clover - Machine	y Irid			Rate – PLS LBS / Acre 8.00 1.00	Seeds per SQ. FT 32.14 5.97	\$0.00 Cost /Acre \$106.29 \$106.29 Cost /Acre \$50.64 \$2.83

Description

Cost /Acre

Broadcast seeding [DMG]	\$267.22
Total Seed A	pplication Cost/Acre \$267.22

Materials

Description 24D @ 10 4/4	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: No. of Acres: 1.43 Cost /Acre: \$629.30 Cost /Acre*: \$0% Cost /Acre*: \$0.00

Initial Job Cost: \$899.90

Reseeding Job Cost: \$0.00

Total Job Cost: Job Hours: \$800

Task description:	Reveg disturbed areas-	late fall pla	nting			
e: Powell's Gravel Pit	Permit Ac	tion: TR-1			Permit/Job#	: <u>M1995012</u>
PROJECT IDENTIFI	CATION					
Task #: 04B	State: Color	rado		Λhh	reviation:	None
Date: 04B 2/7/2017	County: Moff					M012-04b
User: $\frac{27772017}{ACY}$	county	<u>ui</u>				11012 010
Agency or organ	nization name: DRMS					
<u>FERTILIZING</u>						
Materials						
Description		Units / Acre	Unit	Cost	/ Unit	Cost /Acre
				\$		\$
				Tota	al Fertilizer Materials Cost/Acre	\$0.00
Application						~
Description						Cost /Acre
						\$
		Total	Fertilizer	Application	Cost/Acre	\$0.00
<u>TILLING</u>						
Description						Cost /Acre
2 0801.2012						\$
			r	Fotal Tilling	g Cost/Acre	
			<u> </u>	Total Tilling	COSTACIC	\$0.00
SEEDING						
Seed Mix				Rate – PLS LBS /	Seeds per SQ. FT	Cost /Acre
Kochia, Forage (Prostr	rate)			Acre 4.00	561.80	\$35.92
		Totals S	Seed Mix	4.00	561.80	\$35.92
Application				<u> </u>	I	1 10000
Description						Cost /Acre
Broadcast seeding [DN	AC1					\$267.22

Total Seed Application Cost/Acre	\$267.22

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - 2,4D @ 1.0 pt/ac	1.00	ACRE	\$2.74	\$2.74
Straw, delivered {MEANS 31 25 14.16 1200}	1.00	TON	\$261.00	\$261.00
Total Mulch Materials Cost/Acre				\$263.74

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$66.02
Power mulcher (MEANS 32 91 13.16 0350)		\$99.32
Weed spray, truck, non-aquatic area, nox. [DMG]		\$71.50
	Total Mulch Application Cost/Acre	\$236.84

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:
 1.43
 Cost /Acre:
 \$803.72

 Estimated Failure Rate:
 0%
 Cost /Acre*:
 \$803.72

*Selected Replanting Work Items: SEEDING,MULCHING

Initial Job Cost:
Reseeding Job Cost:
Total Job Cost:
Job Hours:

\$1,149.32

\$0.00

\$1,149

\$8.00

Powell's Gravel Pit	Pe	rmit Action: TR-1			Permit/Job	#: M1995012
ROJECT IDENTIFIC	<u>CATION</u>					
Task #: 04C	State:	Colorado		Ab	breviation:	None
Date: 2/7/2017	County:	Moffat		_	Filename:	M012-04c
User: ACY					-	
Agency or organi	zation name: DF	RMS				
ERTILIZING						
aterials		TT 1/		<u> </u>		1
D		Units /	TT *4	Cox	st / Unit	Cost /Acre
Description		Acre	Unit	Cos	St / UIIIt	Cost/Acre
				\$		\$
				To	tal Fertilizer	
					Materials	
					Cost/Acre	\$0.00
Description						Cost /Acre
Description					G .//	\$
Description		Total	Fertilizer	Applicatio	on Cost/Acre	\$
		Total	Fertilizer	Applicatio	on Cost/Acre	\$
<u>LLING</u>		Total	Fertilizer	Applicatio	on Cost/Acre	\$ \$0.00
LLING Description	32 01 13 23 0250)	Total	Fertilizer	Application	on Cost/Acre	\$ \$0.00 Cost /Acre
<u>LLING</u>	32 91 13.23 0250)	Total	Fertilizer	Applicatio	on Cost/Acre	\$ \$0.00
LLING Description	32 91 13.23 0250)	Total				\$ \$0.00 Cost /Acre \$1,328.58
LLING Description	32 91 13.23 0250)	Total			on Cost/Acre	\$ \$0.00 Cost /Acre \$1,328.58
LLING Description	32 91 13.23 0250)	Total				\$ \$0.00 Cost /Acre \$1,328.58
LLING Description Hand raking (MEANS 3	32 91 13.23 0250)	Total			ng Cost/Acre	\$ \$0.00 Cost /Acre \$1,328.58 \$1,328.58
LLING Description Hand raking (MEANS 3	32 91 13.23 0250)	Total		otal Tillir	ng Cost/Acre	\$ \$0.00 Cost /Acre \$1,328.58
LLING Description Hand raking (MEANS 3	32 91 13.23 0250)	Total		Rate – PLS LBS /	ng Cost/Acre	\$ \$0.00 Cost /Acre \$1,328.58 \$1,328.58
LLING Description Hand raking (MEANS 3) EEDING Seed Mix		Total		Rate – PLS LBS / Acre	Seeds per SQ. FT	\$0.00 Cost /Acre \$1,328.58 \$1,328.58
LLING Description Hand raking (MEANS 3 EDING Seed Mix Russian Wildrye - Bozo	oisky	Total		Rate – PLS LBS / Acre 8.00	Seeds per SQ. FT	\$0.00 Cost /Acre \$1,328.58 \$1,328.58 Cost /Acre
LLING Description Hand raking (MEANS 3 EEDING Seed Mix Russian Wildrye - Bozo Yellow Sweet Clover - 3	oisky Madrid	Total		Rate – PLS LBS / Acre 8.00 1.00	Seeds per SQ. FT 32.14 5.97	\$0.00 Cost /Acre \$1,328.58 \$1,328.58 Cost /Acre \$50.64 \$2.83
Description Hand raking (MEANS 3 EEDING Seed Mix Russian Wildrye - Bozo Yellow Sweet Clover - Slender Wheatgrass - N	oisky Madrid	Total		Rate – PLS LBS / Acre 8.00 1.00 6.00	Seeds per SQ. FT 32.14 5.97 21.90	\$0.00 Cost /Acre \$1,328.58 \$1,328.58 Cost /Acre \$50.64 \$2.83 \$16.92
LLING Description Hand raking (MEANS 3 EEDING Seed Mix Russian Wildrye - Bozo Yellow Sweet Clover - Slender Wheatgrass - N Siberian Wheatgrass	oisky Madrid ative	Total		Rate – PLS LBS / Acre 8.00 1.00 6.00 28.00	Seeds per SQ. FT 32.14 5.97 21.90 70.71	\$0.00 Cost /Acre \$1,328.58 \$1,328.58 Cost /Acre \$50.64 \$2.83 \$16.92 \$111.16
Description Hand raking (MEANS 3 EEDING Seed Mix Russian Wildrye - Bozo Yellow Sweet Clover - Slender Wheatgrass - N	oisky Madrid ative	Total		Rate – PLS LBS / Acre 8.00 1.00 6.00	Seeds per SQ. FT 32.14 5.97 21.90	\$0.00 Cost /Acre \$1,328.58 \$1,328.58 Cost /Acre \$50.64 \$2.83 \$16.92
LLING Description Hand raking (MEANS 3 EEDING Seed Mix Russian Wildrye - Bozo Yellow Sweet Clover - Slender Wheatgrass - N Siberian Wheatgrass	oisky Madrid ative	Total		Rate – PLS LBS / Acre 8.00 1.00 6.00 28.00	Seeds per SQ. FT 32.14 5.97 21.90 70.71	\$0.00 Cost /Acre \$1,328.58 \$1,328.58 Cost /Acre \$50.64 \$2.83 \$16.92 \$111.16

Application

Description		Cost /Acre
Broadcast seeding [DMG]		\$267.22
	Total Seed Application Cost/Acre	\$267.22

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 Nursery Stock Cost / Acre					\$0.00

JOB TIME AND COST

No. of Acres:	0.72	Cost /Acre:	\$1,887.51
Estimated Failure Rate:	0%	Cost /Acre*:	\$0.00

*Selected Replanting Work Items: NONE

Initial Job Cost: \$1,359.01

Reseeding Job Cost: \$0.00

Total Job Cost: Job Hours: \$8.00

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description: Ini	tial mobilization	and early fall pla	nting	
te: Powell's Gravel Pit	Permit	t Action: TR-1	Permit/J	ob#: <u>M1995012</u>
PROJECT IDENTIFICAT	<u>ION</u>			
Task #: 05A	State: C	colorado	Abbreviation:	None
Date: 2/7/2017 User: ACY	County: N	Ioffat	Filename:	M012-05a
Agency or organizatio	n name: DRMS	S		
EQUIPMENT TRANSPOR	RT RIG COST			
<u> </u>	1110 0001		Shift basis:	1 per day
			Cost Data Source:	CRG Data
Truck Tractor Desc	cription: GENI	ERIC ON-HIGHW	AY TRUCK TRACTOR, 6X4 400 HP (2ND HALF, 2006)	, DIESEL POWERED,
Truck Trailer Desc	cription: C	GENERIC FOLDIN	NG GOOSENECK, DROP DE	CK EQUIPMENT
		TR	AILER (25T, 50T, AND 100T	Γ)
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	

NON ROADABLE EQUIPMENT:

Total Unit Cost/Hour:

\$88.67

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
Cat D8T - 8SU	53.08	\$91.36	\$125.45	1	\$216.81	\$125.45	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$30.65	\$88.67	1	\$119.32	\$88.67	\$250.00

\$117.55

\$125.45

Subtotals: \$336.13 \$214.12 \$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.	\$33.81	1	\$33.81	\$33.81

Subtotals: \$33.81 \$33.81

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:

Total one-way travel distance:

Average Travel Speed:

DINOSAUR

miles

5.00

mph

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.14	0.14
Return Time (Hours):	0.14	0.14
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.29	0.29

JOB TIME AND COST

Total job cost: 2.57 Hours

Total job cost: \$1,839

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description: La	te fall planting m	obilization		
te: Powell's Gravel Pit	Permit	t Action: TR-1	Permit/J	Tob#: M1995012
PROJECT IDENTIFICAT	<u>ION</u>			
Task #: 05B	State: C	colorado	Abbreviation	: None
Date: 2/7/2017 User: ACY	County: N	Ioffat	Filename	: M012-05b
Agency or organizatio	n name: DRMS	S		
EQUIPMENT TRANSPOR	T RIG COST			
	1110 0001		Shift basis:	1 per day
			Cost Data Source:	CRG Data
Truck Tractor Desc	cription: GENI	ERIC ON-HIGHW	AY TRUCK TRACTOR, 6X ⁴ 400 HP (2ND HALF, 2006)	, DIESEL POWERED,
Truck Trailer Desc	cription: C	GENERIC FOLDIN	IG GOOSENECK, DROP DE	CK EQUIPMENT
		TR	AILER (25T, 50T, AND 100	Γ)
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	

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		
Drill/Broadcast	25.00	\$30.65	\$88.67	1	\$119.32	\$88.67	\$250.00
Seeder with							
Tractor							
Power Mulcher	6.00	\$6.72	\$88.67	1	\$95.39	\$88.67	\$250.00
(Reinco M90)							

\$117.55

\$125.45

Subtotals: \$214.71 \$177.34 \$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.	\$33.81	1	\$33.81	\$33.81

Subtotals:	\$33.81	\$33.81

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:

Total one-way travel distance:

Average Travel Speed:

DINOSAUR

miles

5.00

mph

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.14	0.14
Return Time (Hours):	0.14	0.14
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.29	0.29

JOB TIME AND COST

Total job cost: 2.57 Hours

Total job cost: \$1,551

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description: Se	econdary Seeding	Mobilization		
ite: Powell's Gravel Pit	Permi	t Action: TR-1	Permit/Jo	b#: <u>M1995012</u>
PROJECT IDENTIFICAT	<u> TION</u>			
Task #: 06A	State: C	Colorado	Abbreviation:	None
Date: 2/7/2017	County: N	/loffat	Filename:	M012-06a
User: ACY				
Agency or organizati	on name: DRM	S		
rigency or organizati				
EQUIPMENT TRANSPO	RT RIG COST			
EQUI MENT THE IST	KI KIG COSI			
				1 per day
			Cost Data Source:	CRG Data
Truck Tractor De	scription: GEN	ERIC ON-HIGHW	AY TRUCK TRACTOR, 6X4,	DIESEL POWERED.
	•		400 HP (2ND HALF, 2006)	•
Truck Trailer De	scription:	GENERIC FOLDI	NG GOOSENECK, DROP DEC	K EQUIPMENT
	-	T	RAILER (25T, 50T, AND 100T)	_
Cook Book 1 do no				
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	

NON ROADABLE EQUIPMENT:

Total Unit Cost/Hour:

\$88.67

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	\$30.65	\$88.67	1	\$119.32	\$88.67	\$250.00

\$125.45

\$117.55

Subtotals: \$119.32 \$88.67 \$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.	\$33.81	1	\$33.81	\$33.81

Subtotals:	\$33.81	\$33.81
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EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:

Total one-way travel distance:

Average Travel Speed:

DINOSAUR

miles

5.00

mph

Total Non-Roadable Mob/Demob Cost *
 '* two round trips with haul rig:
 Total Roadable Mob/Demob Cost **
 ** one round trip, no haul rig:

\$798.07

\$9.66

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.14	0.14
Return Time (Hours):	0.14	0.14
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.29	0.29

JOB TIME AND COST

Total job time:	2.57	Hours
Total job cost:	\$808	