

November 7, 2024

Frank Leone Jr. Leone Sand & Gravel LLC 2400 E Main Street Trinidad, CO 81082

#### RE: Leone Huerfano Gravel Pit - File No. M-2010-004, Technical Revision No. 2 (TR2), Adequacy Review No. 1

Dear Frank Leone Jr:

The Division of Reclamation, Mining and Safety (Division) is in the process of reviewing the above referenced Technical Revision in order to ensure that it adequately satisfies the requirements of the Colorado Mined Land Reclamation Act (§ § 34-32.5-101-34-32.5-125) (Act) and the Rules and Regulations for the Extraction of Construction Materials (Rules). During review of the material submitted, the Division determined that the following issues of concern need to be adequately addressed before the Technical Revision can be considered for approval:

- 1. Please clarify for the record that the processing area is currently within the east side of the "current operation site" labeled on the Mine Plan Map submitted with the TR2 application. Also please clarify whether the processing area will remain in its current location for the foreseeable future; and commit to submitting a new mine plan narrative and map if the processing area location is planned to change.
- 2. Please clarify for the record that only the portions of County Road 611.1 that are located adjacent to the current disturbance onsite have been moved at this time.
- 3. Enclosed is an updated cost estimate to account for the highwall and disturbance acreage changes proposed in the TR2 application. If you have any questions or comments, please send them by November 14, 2024 to <u>amber.gibson@state.co.us</u> or call me at 720-836-0967. If no questions are received, the Division may issue a surety increase notice for the difference in amount from what is currently held by the Division. The Operator will have 60 days from the date of the surety increase notice to submit and obtain acceptance of the increase in financial warranty from the Division in accordance with Rule 4.2.1(2).



Please submit your responses to the above listed issues at least three days prior to the decision date in order to allow the Division sufficient time for review. If you cannot address the above issues by this date, please request an extension to the decision due date to ensure adequate time for the Division to review materials. If any adequacy issues remain by the decision due date the Division may deny your request.

If you have any questions, please send me an email at <u>amber.gibson@state.co.us</u>, or call me at 720-836-0967.

Sincerely,

Amber M. Gibson Environmental Protection Specialist

*Enclosures: 2024 TR2 Updated Reclamation Cost Estimate* 

# COST SUMMARY WORK

Тε	ask description:	<b>Reclamation Co</b>	st Summary				
Site:	Leone Huerfano Grav		rmit Action:	2024 Inspection TR2	n &	Permit/Job	#: <u>M2010004</u>
<u>PR</u>	OJECT IDENTIFIC	CATION					
	Task #:         000           Date:         11/7/2024           User:         AMG	State: County:	Colorado Huerfano			Abbreviation: Filename:	None M004-000
	Agency or organi	zation name: <u>DR</u>	RMS				
TA	<u>SK LIST (DIRECT</u>	<u>COSTS)</u>					
Task	Description			Form Used	Fleet Size	Task Hours	Cost
001	Grade out shorter hig	hwalls to 3H:1V		DOZER	1	0.12	\$25
002	Grade out highwalls	to 3H:1V		DOZER	1	27.97	\$6,085
003	Spread Topsoil 6-in c	over 26.05 acres		DOZER	1	71.46	\$15,526
004	Revegetation of 27 ac	cres		REVEGE	1	27.00	\$57,293
004b	Re-seeding and weed	control on 5 acres		REVEGE	1	5.00	\$3,932
005	Mob/Demob			MOBILIZE	1	5.56	\$4,139
				<u>SUBT(</u>	DTALS:	137.11	\$87,000

#### **INDIRECT COSTS**

#### OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$1,757
Performance bond:	1.05	Total =	\$914
Job superintendent:	68.56	Total =	\$5,434
Profit:	10.00	Total =	\$8,700
		TOTAL O & P =	\$16,805
		CONTRACT AMOUNT (direct + O & P) =	\$103,805

#### LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs):	\$500	Total =	\$500
Engineering work and/or contract/bid preparation:	4.25	Total =	\$4,412
Reclamation management and/or administration:	<u>5.00</u>	Total =	\$5,190
CONTINGENCY:	0.00		\$0
		TOTAL INDIRECT COST =	\$26,907
TOTAL BO	ND AI	MOUNT (direct + indirect) =	\$113,907

#### BULLDOZER WORK

		Grade	out shorter i	5	to 3H:1V		
: _	Leone Huerfano Grav	el Pit	Permit	Action:	2024 inspection & TR2	Permit/Job#:	M2010004
P	ROJECT IDENTIFI	CATION	N				
	Task #: 001		State: (	Colorado		Abbreviation:	None
	Date: 11/7/2024			Huerfano		Filename:	1
	User: AMG						
	Agency or organ	ization na	me: DRM	S			
Ē	IOURLY EQUIPME	NT COS	T				
	Basic Machine: Cat	D7R DS 2	XR Series II				
	Horsepower: 240						
	<i>v</i> 1	ni-Univers					
		ank rippe	r				
		er day					
	Data Source: (CR	.G)			_		
<u>C</u>	ost Breakdown:						
					Utilization %		
	Ownership Cost/Hour:			\$90.24	NA		
_	Operating Cost/Hour:			\$78.95	100		
R	ipper own. Cost/Hour:			\$9.25	NA		
	Ripper op. Cost/Hour:			\$0.52	10		
	Operator Cost/Hour:			\$38.59	NA		
Т	otal Fleet Cost/Hour:	\$217.55					
N	IATERIAL QUANT	<u>ITIES</u>					
N	Initial Volume: <u>68</u>						
N	Initial Volume: <u>68</u> Swell factor: <u>1.12</u> 4	1					
N	Initial Volume: <u>68</u>	1					
S	Initial Volume: <u>68</u> Swell factor: <u>1.12</u> 4	4 CY ne:			8' high north side		
S S	Initial Volume: $68$ Swell factor: $1.124$ Loose volume: $76$ Loose volume	4 CY ne: _ factor: _	Highwall 13		8' high north side		
S S <u>H</u> A	Initial Volume: $68$ Swell factor: $1.124$ Loose volume: $76$ Loose volume: $76$ Loose volume	4 CY ne: _ factor: _ ' <u>10N</u> _ 50	Highwall 13	ok	8' high north side		
S S <u>H</u> U	Initial Volume: 68 Swell factor: 1.124 Loose volume: 76 Loo ource of estimated volum ource of estimated swell IOURLY PRODUCT	4 CY factor: YION tion:	Highwall 13 Cat Handbo 0 feet ,022.9 LCY/ł	ok nr	8' high north side		
S S A U N A	Initial Volume: 68 Swell factor: 1.124 Loose volume: 76 Lo ource of estimated volum ource of estimated swell IOURLY PRODUCT verage push distance: Jnadjusted hourly produc	4 CY factor: YION tion:	Highwall 13 Cat Handbo 0 feet Compacte	ok nr			
S S E A U M A A	Initial Volume: 68 Swell factor: 1.124 Loose volume: 76 Lo ource of estimated volum ource of estimated swell IOURLY PRODUCT Average push distance: Inadjusted hourly produc Materials consistency deserved	4 CY factor:	Highwall 13 Cat Handbo 0 feet ,022.9 LCY/r Compacte et	ok nr			
S S A U M A A N	Initial Volume: 68 Swell factor: 1.124 Loose volume: 76 Loose ource of estimated volum ource of estimated swell IOURLY PRODUCT Average push distance: Inadjusted hourly produce faterials consistency dese verage push gradient: average site altitude:	4 CY factor: TON tion: cription: 6,200 fe 2,900 lb	Highwall 13 Cat Handbo 0 feet ,022.9 LCY/r Compacte et	ok nr ed fill or er			
S S E A U M A A V V	Initial Volume: 68 Swell factor: 1.124 Loose volume: 76 Lo ource of estimated volum ource of estimated swell IOURLY PRODUCT verage push distance: Inadjusted hourly produc faterials consistency dese verage push gradient: verage site altitude: faterial weight:	4 CY factor: factor: TON  tion: cription:  6,200 fe 2,900 lb Sand and	Highwall 13 Cat Handbo 0 feet ,022.9 LCY/h Compacte et s/LCY	ok nr ed fill or er			
S S A U N A A N V	Initial Volume: 68 Swell factor: 1.124 Loose volume: 76 Lo ource of estimated volum ource of estimated swell IOURLY PRODUCT Average push distance: Inadjusted hourly produc Materials consistency dese Average push gradient: Average site altitude: Material weight: Veight description: DD Condition Correction Operator S	4 CY factor: factor: TON  tion: cription:  6,200 fe 2,900 lb Sand and Factor Skill:	Highwall 13 Cat Handbo 0 feet ,022.9 LCY/h Compacte et s/LCY	ok nr ed fill or en - - y	mbankment 0.9		
S S M U M A A N V	Initial Volume: 68 Swell factor: 1.124 Loose volume: 76 L0 ource of estimated volum ource of estimated swell IOURLY PRODUCT Average push distance: Inadjusted hourly produc Materials consistency dese verage push gradient: Average site altitude: Material weight: Veight description: DD Condition Correction Operator S Material consiste	4 CY factor: factor: 10N 50 10N 51 50 50 50 50 50 50 50 50 50 50	Highwall 13 Cat Handbo 0 feet ,022.9 LCY/r Compacte et s/LCY d gravel - Dr 0.75 0.90	ok 11 			
S S M U M A A N V	Initial Volume: 68 Swell factor: 1.124 Loose volume: 76 Lo ource of estimated volum ource of estimated swell IOURLY PRODUCT Average push distance: Inadjusted hourly produc Materials consistency dese Average push gradient: Average site altitude: Material weight: Veight description: DD Condition Correction Operator S	4 CY factor: factor: factor: COM factor: factor: Sand and Factor Skill: cncy: hod:	Highwall 13 Cat Handbo 0 feet ,022.9 LCY/h Compacte et s/LCY d gravel - Dr 0.75	ok nr d fill or en - - y 0 0 0			

Task # 001

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.900	(SSD-FC)
Push gradient:	1.329	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.6377	
Adjusted unit production: 65	2.30 LCY/hr	
Adjusted fleet production: 65	2.3 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.334/LCY

Total job time:	<b>0.12</b> Hours
Total job cost:	\$25

#### BULLDOZER WORK

	cription:	Gra	de out highw	alls to 3H:1	V		
: <u>Leone</u>	Huerfano	Gravel Pit	Perr	nit Action:	2024 inspection & TR2	Permit/Job#:	M2010004
<b>PROJE</b>	CT IDEN	TIFICATI	ON				
Task # Date User	e: 11/7/2	024	State: County:	Colorado Huerfano		Abbreviation: Filename:	None 2
	Agency or	organization	name: DR	MS			
HOURI	LY EOUII	PMENT CO	OST				
	Machine:		S XR Series	II			
	sepower:	240	5 m Senes				
	ide Type:	Semi-Univ	ersal		_		
Atta	achment:	3-shank rip	per				
Sh	ift Basis:	1 per day					
Data	a Source:	(CRG)					
Cost Brea	akdown						
COST DIE	<u>1KUUW11</u> .				Utilization %		
Owners	hip Cost/He	our:		\$90.24	NA		
	ing Cost/Ho			\$78.95	100		
	wn. Cost/He			\$9.25	NA		
	op. Cost/H			\$0.52	10		
	tor Cost/H			\$38.59	NA		
Initial V Swel	Volume: 1 factor:	ANTITIES 18,041 1.124					
Initial V Swel	Volume:	18,041					
Initial V Swel Loose v Source of	Volume: 1 factor: volume: f estimated	18,041 1.124 <b>20,271</b> LCY	Highwall		x 40' throughout pit		
Initial V Swel Loose v Source of Source of	Volume: l factor: volume: f estimated f estimated	18,041 1.124 <b>20,271</b> LCY volume:	Highwall		x 40' throughout pit		
Initial V Swel Loose v Source of Source of <b>HOURL</b> Average p	Volume: l factor: volume: f estimated f estimated	18,041 1.124 <b>20,271</b> LCY volume: swell factor: <u>UCTION</u> ce:	Highwall	book	x 40' throughout pit		
Initial V Swel Loose v Source of Source of <u>HOURL</u> Average J Unadjuste	Volume: l factor: volume: f estimated f estimated <b>_Y PROD</b> push distan ed hourly p	18,041 1.124 <b>20,271</b> LCY volume: swell factor: <u>UCTION</u> ce:	Highwall Cat Hand 50 feet 1,022.9 LC	book Y/hr	<u>x 40' throughout pit</u>		
Initial V Swel Loose v Source of Source of <b>HOURI</b> Average p Unadjuste Materials Average p	Volume: l factor: volume: f estimated f estimated <b>_Y PROD</b> push distan ed hourly p	18,041         1.124         20,271 LCY         volume:         swell factor:         UCTION         ce:         roduction:         y description         nt:      15 %	Highwall Cat Hand 50 feet 1,022.9 LC a: Compar	book Y/hr			
Initial V Swel Loose v Source of Source of <b>HOURI</b> Average p Unadjuste Materials Average p	Volume: l factor: volume: f estimated f estimated <b>_Y PROD</b> push distan ed hourly p consistenc push gradie site altitude	18,041         1.124 <b>20,271</b> LCY         volume:         swell factor:         UCTION         ce:         roduction:         y description         nt:       -15 %         :       6,200	Highwall Cat Hand 50 feet 1,022.9 LC a: Compar	book Y/hr			
Initial V Swel Loose v Source of Source of <b>HOURL</b> Average p Unadjuste Materials Average p Average s	Volume: l factor: volume: f estimated f estimated <b>_Y PROD</b> push distan ed hourly p consistenc push gradie site altitude	18,041         1.124 <b>20,271</b> LCY         volume:         swell factor: <b>UCTION</b> ce:         roduction:         y description         nt:       -15 %         -       6,200         2,900	Highwall Cat Hand 50 feet 1,022.9 LC a: Compa- 6 0 feet	book Y/hr 			
Initial V Swel Loose v Source of Source of <b>HOURL</b> Average p Unadjuste Materials Average p Average s Material v	Volume: l factor: volume: f estimated f estimated <b>_Y PROD</b> push distan ed hourly p consistenc push gradie site altitude weight: escription:	18,041         1.124 <b>20,271</b> LCY         volume:         swell factor: <b>UCTION</b> ce:         roduction:         y description         nt:       -15 %         6,200         2,900         Sand	Highwall Cat Hand 50 feet 1,022.9 LC a: Compa- 6 0 feet 0 lbs/LCY and gravel - 1	book Y/hr 	mbankment 0.9		
Initial V Swel Loose v Source of Source of <b>HOURL</b> Average p Unadjuste Materials Average p Average s Material v	Volume: l factor: volume: f estimated f estimated <b><u>LY PROD</u></b> push distan ed hourly p consistenc push gradie site altitude weight: escription: <u>lition Corre</u>	18,041         1.124 <b>20,271</b> LCY         volume:         swell factor: <b>UCTION</b> ce:         roduction:         y description         nt:       -15 %         6,200         2,900         Sand         ction Factor	Highwall Cat Hand 50 feet 1,022.9 LC an: Compa 6 0 feet 0 lbs/LCY and gravel - 1	Y/hr cted fill or en	mbankment 0.9		
Initial V Swel Loose v Source of Source of <b>HOURL</b> Average p Unadjuste Materials Average p Average s Material v Weight de Job Cond	Volume: l factor: volume: f estimated f estimated <b><u>LY PROD</u></b> push distan ed hourly p consistenc push gradie site altitude weight: escription: <u>lition Corre</u>	18,041         1.124         20,271 LCY         volume:         swell factor:         UCTION         ce:         roduction:         y description         nt:       -15 %	Highwall Cat Hand 50 feet 1,022.9 LC 1: Compa- 6 0 feet 0 lbs/LCY and gravel - 1 0.	book Y/hr 	mbankment 0.9		
Initial V Swel Loose v Source of Source of <b>HOURL</b> Average p Unadjuste Materials Average p Average s Material v Weight de Job Cond	Volume: 1 factor: volume: f estimated f estimated <b><u>LY PROD</u></b> push distan ed hourly p consistenc push gradie site altitude weight: escription: <u>lition Corre</u> Oper Material co	18,041         1.124         20,271 LCY         volume:         swell factor:         UCTION         ce:         roduction:         y description         nt:       -15 %	<u>Highwall</u> Cat Hand 50 feet 1,022.9 LCV and gravel - 1 0 lbs/LCY and gravel - 1 0.	book Y/hr cted fill or en Dry 750			

Task # 002

Job efficience	cy: 0.830	(1 SHIFT/DAY)
Spoil pi	le: 1.000	(DOZ-OC)
Push gradie	nt: 1.329	(CAT HB)
Altitud	le: 1.000	(CAT HB)
Material Weig	ht: 0.793	(CAT HB)
Blade ty	be: 1.000	(PAT)
Net correction	on: 0.7085	
Adjusted unit production:	724.72 LCY/hr	
Adjusted fleet production:	724.72 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.300/LCY

Total job time:	27.97 Hours
Total job cost:	\$6,085

#### BULLDOZER WORK

	Fask description:	Spread T	opson o	-in over 26.	05 acres		
:	Leone Huerfano Grave	el Pit	Pern	nit Action:	2024 inspection & TR2	Permit/Job#:	M2010004
ŀ	PROJECT IDENTIFI	CATION					
	Task #: 003		State:	Colorado		Abbreviation:	None
	Date: 11/7/2024	C	ounty:	Huerfano		Filename:	3
	User: AMG						
	Agency or organi	ization nam	e: DR	MS			
ŀ	HOURLY EQUIPMEN	NT COST					
	Basic Machine: Cat I	D7R DS XF	R Series I	Ι			
	Horsepower: 240						
	Blade Type: Sem	i-Universal					
	Attachment: 3-sha	ank ripper					
	Shift Basis: 1 per	r day					
	Data Source: (CR						
0	Cost Breakdown:						
					Utilization %		
	Ownership Cost/Hour:			\$90.24	NA		
	Operating Cost/Hour:			\$78.95	100		
F	Ripper own. Cost/Hour:			\$9.25	NA		
	Ripper op. Cost/Hour:			\$0.26	5		
	Operator Cost/Hour:			\$38.59	NA		
_	=	¢017.00					
	Fotal unit Cost/Hour:	\$217.29					
1	Total Fleet Cost/Hour:	\$217.29					
Ν	MATERIAL QUANTI	TIES					
	Initial Volume: 21,01	1					
	Swell factor: 1.000						
				_			
		ALOW					
		4 LCY					
		ne: 2	6.05 acre at Handl		cre total dist. needs tops	oil	
S	Loose volume: <b>21,01</b> Source of estimated volum Source of estimated swell	ne: <u>2</u> factor: <u>C</u>			acre total dist. needs tops	oil	
<u>S</u>	Loose volume: 21,01 Source of estimated volum	te: <u>2</u> factor: <u>C</u>			ere total dist. needs tops	oil	
5 <u>1</u> /	Loose volume: 21,01 Source of estimated volum Source of estimated swell	ne: <u>2</u> factor: <u>C</u> <u>ION</u> _300	at Handl	book	cre total dist. needs tops	oil	
S <u>I</u> A U	Loose volume: 21,01 Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance:	tion: $\frac{2}{C}$	at Handl feet .1 LCY/I	n	stockpile 1.1	<u>oil</u>	
S H A U N	Loose volume: 21,01 Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency desc Average push gradient:	tion: $\frac{2}{0\%}$	feet 1 LCY/I Partly c	n		<u>oil</u>	
S H A U N A A	Loose volume: 21,01 Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency desc Average push gradient: Average site altitude:	tion: $\frac{2}{C}$	feet 1 LCY/I Partly c	n		<u>oil</u>	
S J J J J J J J J J J J J J J J J J J J	Loose volume: 21,01 Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency desc Average push gradient: Average site altitude:	he: $2$ factor: $C$ <b>ION</b> tion: $310$ cription: $0\%$ 6,200 feet 1,600 lbs/	feet 1 LCY/I Partly c	n		<u>oil</u>	
S H A U N A A V	Loose volume: 21,01 Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency desc Average push gradient: Average site altitude: Material weight: Weight description:	tion: <u>300</u> tion: <u>311</u> tription: <u>0%</u> 6,200 feet 1,600 lbs/1 Top Soil	feet 1 LCY/I Partly c	n	stockpile 1.1	<u>oil</u>	
S H A U N A A V	Loose volume: 21,01 Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Jnadjusted hourly product Materials consistency desc Average push gradient: Average site altitude: Material weight: Weight description:	ne: <u>2</u> factor: <u>C</u> ION tion: <u>300</u> tion: <u>311</u> cription: <u>0%</u> 6,200 feet 1,600 lbs/1 Top Soil Factor	feet 1 LCY/I Partly c	nr onsolidated	stockpile 1.1	<u>oil</u>	
S H A U N A A V	Loose volume: 21,01 Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency desc Average push gradient: Average site altitude: Material weight: Weight description: Lob Condition Correction I Operator S	ne: <u>2</u> factor: <u>C</u> ION tion: <u>300</u> tion: <u>311</u> cription: <u>0%</u> 6,200 feet 1,600 lbs/ Top Soil Factor kill:	feet 1 LCY/I Partly c	nr onsolidated		<u>oil</u>	
S H A U N A A N V	Loose volume: 21,01 Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency desc Average push gradient: Average site altitude: Material weight: Weight description: Iob Condition Correction I Operator S Material consistent	ne: <u>2</u> factor: <u>C</u> ION tion: <u>300</u> tion: <u>311</u> cription: <u>0%</u> 6,200 feet 1,600 lbs/1 Top Soil Factor kill:	feet 1 LCY/I Partly c	nr onsolidated		<u>oil</u>	
S H A U N A A N V	Loose volume: 21,01 Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency desc Average push gradient: Average site altitude: Material weight: Weight description: Lob Condition Correction I Operator S	ne:       2         factor:       C         ION       300         tion:       311         cription:       -         0 %       -         6,200 feet       1,600 lbs/1         Top Soil       -         Factor       -         kill:       -         ncy:       -         hod:       -	feet .1 LCY/I Partly c LCY 0.7 1.1	nr onsolidated		<u>oil</u>	

Task # 003

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:	1.438	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.9453	
Adjusted unit production: 2	94.08 LCY/hr	
Adjusted fleet production: 2	94.08 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.739/LCY

Total job time:	71.46 Hours
Total job cost:	\$15,526

# **REVEGETATION WORK**

Task de	escription:	Revegetation of	27 acres			
Site: <u>Leon</u>	1e Huerfano Grav		rmit Action:	2024 inspection & TR2	Permit/Jol	o#: <u>M2010004</u>
<u>PROJE</u>	CT IDENTIFIC	CATION				
Tasl	k #: 004	State:	Colorado		Abbreviation:	None
D	ate: 11/7/2024	County:	Huerfano		Filename:	M004-004

#### TILLING

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
Weed control spraying (MEANS 31 31 16.13 3100)	\$338.80
Total Tilling Cost/Acre	\$456.41

## **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Blue Grama - Native	0.90	14.69	\$19.19
Indian Ricegrass - Native	0.60	1.94	\$10.38
Little Bluestem - Native	0.40	2.39	\$6.16
Sideoats Grama - Vaughn	1.10	3.61	\$27.05
Galleta	0.20	0.73	\$11.09
Needle and Thread	1.10	2.90	\$89.57
Western Wheatgrass - Native	4.80	12.12	\$43.23
Needlegrass, Green - Lodorm	0.50	2.08	\$4.32
Totals Seed Mix	9.60	40.46	\$210.98

#### 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
Power mulcher (MEANS 32 91 13.16 0350)		\$157.25
	<b>Total Mulch Application Cost/Acre</b>	\$242.63

Estimate *Selected Replanti	No. of Acres: ed Failure Rate: ng Work Items:	15%	Cost /Acre: Cost /Acre*:	
Initial Job Cost:	\$55,544.33			
Reseeding Job Cost:	\$1,749.08		—	
Total Job Cost:	\$57,293			
Job Hours:	27.00		—	

# **REVEGETATION WORK**

Task descri	ption:	Re-seeding and	weed control	l on 5 acres		
te: <u>Leone H</u>	uerfano Grav		rmit Action:	2024 inspection & TR2	Permit/Jol	o#: <u>M2010004</u>
PROJECT	IDENTIFIC	ATION				
Task #:	004B	State:	Colorado		Abbreviation:	None
Date:	11/7/2024	County:	Huerfano		Filename:	4b
User:	AMG					

#### TILLING

Description	Cost /Acre
Weed control spraying (MEANS 31 31 16.13 3100)	\$338.80
Total Tilling Cost/Acre	\$338.80

#### **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Blue Grama - Native	0.90	14.69	\$19.19
Indian Ricegrass - Native	0.60	1.94	\$10.38
Little Bluestem - Native	0.40	2.39	\$6.16
Sideoats Grama - Vaughn	1.10	3.61	\$27.05
Galleta	0.20	0.73	\$11.09
Needle and Thread	1.10	2.90	\$89.57
Western Wheatgrass - Native	4.80	12.12	\$43.23
Needlegrass, Green - Lodorm	0.50	2.08	\$4.32
Totals Seed Mix	9.60	40.46	\$210.98

#### **Application**

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

	No. of Acres:	5	Cost /Acre:	\$786.42
Estimate	ed Failure Rate:	10%	Cost /Acre*:	\$0.00
*Selected Replanti	ng Work Items:	NONE		
Initial Job Cost:	\$3,932.10			
Reseeding Job Cost:	\$0.00			
Total Job Cost:	\$3,932			
Job Hours:	5.00			

# EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description:	Mo	b/Demob					
: _Leone Huerfa	no Gravel Pit	Permit	Action: 2024 	Inspection		Permit/Job#: <u>M</u>	2010004
PROJECT IDE	NTIFICATI	<u>ON</u>					
Task #:         005           Date:         11/           User:         AM	7/2024		lorado Ierfano			eviation: <u>None</u> ilename: <u>5</u>	
Agency of	or organization	name: DRMS					
EQUIPMENT T	<b>RANSPOR</b>	T RIG COST					
Truck	Tractor Desc	ription: GENE	RIC ON HIGH		Shift ba Cost Data Sou		ta
		-		400 HP	(2ND HALF,	2006)	
Trucl	k Trailer Desc	ription: G			SENECK, DF 25T, 50T, AN	ROP DECK EQU	IPMENT
Cost Breakdown:						(2 1001)	
Available Rig C	apacities	0-25 Tons	26-50 Tons	51+	Tons		
	Cost/Hour:	\$10.44	\$22.18		3.94		
	Cost/Hour:	\$26.48	\$54.55		5.65		
	Cost/Hour:	\$22.52	\$22.52		2.52		
	Cost/Hour: Cost/Hour:	\$0.00 \$59.44	\$23.53 \$122.78		3.53 25.64		
NON ROADAB		I	¢122.70	ψī			
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 Perm Cost/ fleet
Cat D7R DS Series II LGP	38.49	\$99.49	\$122.78	1	\$222.27	\$122.78	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$41.02	\$59.44	2	\$200.92	\$118.88	\$250.00
Power Mulcher (Bowie LD-90)	6.00	\$27.21	\$59.44	1	\$86.65	\$59.44	\$250.00
				Subtotals:	\$509.84	\$301.10	\$750.00

Subtotals: \$509.84

# \$301.10

#### **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.	\$97.64	1	\$97.64	\$97.64
	\$97.64	\$97.64		

## **EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region:	PUEBLO	
Total one-way travel distance:	49.00	miles
Average Travel Speed:	55.00	mph
Total Non-Roadable Mob/Demob Cost * '* two round trips with haul rig:	\$3,964.63	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$173.98	

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.89	0.89
Return Time (Hours):	0.89	0.89
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	2.78	1.78

#### JOB TIME AND COST

Total job time: **5.56** Hours

Total job cost: **\$4,139**