

## MINERALS PROGRAM INSPECTION REPORT PHONE: (303) 866-3567

The Division of Reclamation, Mining and Safety has conducted an inspection of the mining operation noted below. This report documents observations concerning compliance with the terms of the permit and applicable rules and regulations of the Mined Land Reclamation Board.

MINE NAME:		MINE/PROSPECTING ID#:	MINERAL:	COUNTY:
West Rifle Pit		M-1981-006	Sand and gravel	Garfield
<b>INSPECTION TYPE:</b>		WEATHER: Clear	INSP. DATE:	INSP. TIME:
Monitoring			February 14, 2024	09:00
OPERATOR:		<b>OPERATOR REPRESENTATIVE:</b>	TYPE OF OPERAT	FION:
Central Aggregates, Inc.		William Lee	112c - Construction	Regular Operation
<b>REASON FOR INSPECTION:</b>		BOND CALCULATION TYPE:	<b>BOND AMOUNT:</b>	
Normal I&E Program		Complete Bond	\$40,834.00	
DATE OF COMPLAINT:		POST INSP. CONTACTS:	JOINT INSP. AGE	NCY:
NA		None	None	
INSPECTOR(S):	INSPE	CTOR'S SIGNATURE:	SIGNATURE DAT	Е:
Todd Jesse			March 5, 2024	
	Tale	Gesse		

#### **GENERAL INSPECTION TOPICS**

This list identifies the environmental and permit parameters inspected and gives a categorical evaluation of each. No problems or possible violations were noted during the inspection. The mine operation was found to be in full compliance with Mineral Rules and Regulations of the Colorado Mined Land Reclamation Board for the Extraction of Construction Materials and/or for Hard Rock, Metal and Designated Mining Operations. Any person engaged in any mining operation shall notify the office of any failure or imminent failure, as soon as reasonably practicable after such person has knowledge of such condition or of any impoundment, embankment, or slope that poses a reasonable potential for danger to any persons or property or to the environment; or any environmental protection facility designed to contain or control chemicals or waste which are acid or toxic-forming, as identified in the permit.

(AR) RECORDS <u>N</u>	(FN) FINANCIAL WARRANTY <u>N</u>	(RD) ROADS <u>N</u>
(HB) HYDROLOGIC BALANCE <u>Y</u>	(BG) BACKFILL & GRADING <u>Y</u>	(EX) EXPLOSIVES <u>N</u>
(PW) PROCESSING WASTE/TAILING <u>N</u>	(SF) PROCESSING FACILITIES $\underline{Y}$	(TS) TOPSOIL <u>N</u>
(MP) GENL MINE PLAN COMPLIANCE- <u>Y</u>	(FW) FISH & WILDLIFE Y	(RV) REVEGETATION Y
(SM) SIGNS AND MARKERS <u>Y</u>	(SP) STORM WATER MGT PLAN <u>N</u>	(RS) RECL PLAN/COMP N
(ES) OVERBURDEN/DEV. WASTE <u>N</u>	(SC) EROSION/SEDIMENTATION Y	(ST) STIPULATIONS <u>N</u>
(AT) ACID OR TOXIC MATERIALS <u>N</u>	(OD) OFF-SITE DAMAGE <u>N</u>	

Y = Inspected / N = Not inspected / NA = Not applicable to this operation / PB = Problem cited / PV = Possible violation cited

## **OBSERVATIONS**

This inspection report was conducted as part of the normal monitoring program established by the Colorado Division of Reclamation, Mining and Safety's Active Mines Program. The West Rifle Pit is a 112c Operation operated by the Grand Junction Concrete Pipe Co. The permit is located adjacent to the Colorado River 1mile west of Rifle, CO at an elevation of approximately 5,500 feet. The site consists of 29.39 acres to be reclaimed for the post mine land use of industrial/commercial and recreation. The Division currently holds a Financial Warranty in the amount of \$40,834.00 for the site. William Lee, a representative of Central Aggerates Inc., was present for the inspection.

Mining has been conducted according to the approved mine plan. The required mine identification signage was posted at an entrance to the site. Permit boundaries are clearly marked with berms and posts. The berms also control stormwater on site. No active mining was observed during the inspection. The on-site support facilities consist of an office and hop buildings with fuel storage. Fuel is stored within secondary containment. Used oil is also stored within secondary containment. Screening equipment is present in the center of the Stockpile Area but was not in use at the time of the inspection. There are multiple product stockpiles around the screening equipment. The site produces various sizes of river rock as a principal product.

The general configuration of the permit area matches the approved Reclamation Map. The slopes of the ponds appear to be at reclamation grade and the banks are vegetated with volunteer species – no seeding has been conducted. Geese were seen on the pond and signs of beaver were also observed. The current mining area is in the northeast corner of the permit boundary. The site displays good housekeeping and is orderly. No state listed noxious species were identified within the permit boundary. Thistle and cheat grass were identified outside of the permit boundary adjacent to the site. The operator stated that they frequently remove noxious weeds from the site. The Division recommends that the operator reach out to Garfield County Vegetation Management to develop a Weed Management Plan (970 945-1377 ext. 4305).

The Division currently holds a financial warranty in the amount of \$40,834.00 for this site. In an effort to ensure the Financial Warranty adequately reflects the actual current cost of fulfilling the requirements of the approved reclamation plan the Division updated the reclamation cost estimate. The current bond is found to be sufficient. A copy of the Reclamation Cost Estimate is attached to this report.

No problems or possible violations were noted. Photos that show the conditions observed during the inspection are included at the end of this report.

All responses to this report should be directed to Todd Jesse with the Division's Active Mines Program at DRMS, Room 215, 1001 E 62<sup>nd</sup> Ave. Denver, CO 80216. Direct contact can be made at the Division's Grand Junction Field Office, by phone at 720-688-0626 or by email at todd.jesse@state.co.us.

#### PERMIT #: M-1981-006 INSPECTOR'S INITIALS: TJ1 INSPECTION DATE: February 14, 2024

## **PHOTOGRAPHS**



View to the south of proper Mine ID signage at the entrance to the site.



View to the southwest of proper boundary marker.



View to the northeast of the mining area



View to the west of processing equipment



View to the northwest of slope along pond



View to the east of fuel storage in secondary containment.

#### Inspection Contact Address William Lee

William Lee Central Aggregates, Inc. P.O. Box 1877 Rifle, CO 81650

CC: Travis Marshall, DRMS

## COST SUMMARY WORK

West Ri	fle Pit	Per	mit Action:	2024	Permit/Jo	b#: <u>M1981006</u>
PROJECT	<b>IDENTIFICA</b>	<u>TION</u>				
Task #:	000	State:	Colorado		Abbreviation:	None
Date:	3/5/2024	County:	Garfield		Filename:	M006-000
User:	TJ1					

## TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Pump pit in Parcel D to allow reclamation grading	PUMPING	1	35.85	\$1,745
002	Grade banks of lake in parcel D	DOZER	1	4.59	\$1,956
003	Placement of topsoil over disturbed areas	DOZER	1	5.13	\$2,189
004	Reveg lake shoreline 0.47 ac	REVEGE	1	8.00	\$1,204
005	Backfill pond in parcel D	DOZER	1	11.87	\$5,064
006	Initial Mobilization to site	MOBILIZE	1	2.32	\$2,846
007	Secondary Mobilization to site	MOBILIZE	1	2.32	\$714
		<u>SUBTO</u>	TALS:	70.08	\$15,718

#### **INDIRECT COSTS**

## OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$318
Performance bond:	1.05	Total =	\$165
Job superintendent:	35.04	Total =	\$2,280
Profit:	10.00	Total =	\$1,572
		TOTAL O & P =	\$4,335
		CONTRACT AMOUNT (direct + O & P) = $\frac{1}{2}$	\$20,053

#### LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): Engineering work and/or contract/bid preparation:	\$500 0.00	Total = Total =	\$500 \$0
Reclamation management and/or administration:	5.00		\$1,003
CONTINGENCY:	3.00	Total =	\$472
	ТО	TAL INDIRECT COST =	\$6,309
TOTAL BO	ND AMO	UNT (direct + indirect) =	\$22,027

#### PUMPING WORK

Task description:	Pump pit in Parcel D to all	low reclamation grading		
: West Rifle Pit	Permit Action	: _ 2024	Permit/Job#:	M1981006
<b>PROJECT IDENTIFICA</b>	ATION			
Task #:         001           Date:         3/5/2024           User:         TJ1	State: Colorado County: Garfield		Abbreviation: Filename:	None M006-001
Agency or organiza	tion name: DRMS			
HOURLY EQUIPMENT	COST			
Make and Model: S Attachment 1: S Attachment 2: D Labor Unit 1: P Horsepower: 95	Description ubmersible pump - 460v, 8 uction hose - 6 in. diam., 25 vischarge hose - 6 in. D., 25 ump operator	i ft.	Quantity           1           2           2           1	
Shift Basis: <u>1 per 6</u> Weight: <u>0.76</u> (US Te	)			
Cost Breakdown: Ownership Cost/Hou Operating Cost/Hou Operator Cost/Hou Total Unit Cost/Hou	r: \$4.04 r: \$27.68	Utilization % NA 100 NA		
Total Fleet Cost/Hot <u>PUMPING QUANTITIE</u> Initial Pond Volume Final Pond Volume	25 20.00 20.00 20.00	gallons	Conversion factor:	325850.5800
Total Pond Inflow Surfac Area Total Pond Inflow Volum per Hour	a: <u>8,000</u>	Sq. ft. gallons	Unit inflow rate in gph/sq. ft.:	0.1758
Source of ea	stimated volume: <u>Mine M</u>	laps		
Estim Estimate	um Pump Capacity: ated Suction Head: ed Discharge Head: Total Head: PB Pump Capacity: Site Altitude:	170,000         10         5         15         168,000         5,300	gph/pump feet feet gph/pump feet	
Initial Unadjus Inflow duri Net Unadjus Altitude Pump Total Adjus	Pumping Capacity:         ted Pumping Time:         ng Initial Pumping:         ted Pumping Time:         Adjustment Factor:         D Efficiency Factor:         ted Pumping Time:	168,000         38.79         54,557         39.12         1.0000         0.9167         35.86	gph hours gallons Hours (3% rule) (55 min./hr.) hours	
JOB TIME AND COST Unit cost: \$0.00026	6 /Gallon	Total job time Total job cost		Hours

# BULLDOZER WORK

Task description:	Grade banks of	f lake in parce	l D		
: West Rifle Pit	Pe	ermit Action:	2024	Permit/Job#:	M1981006
PROJECT IDENT	<b>IFICATION</b>				
Task #: 002	State	Colorado		Abbreviation:	None
Date: $3/5/2024$				Filename:	M006-002
User: TJ1				-	
Agency or or	ganization name: <u> </u>	DRMS			
HOURLY EQUIPM	<u>IENT COST</u>				
	Cat D8T - 8SU		_		
	<u>310</u>		_		
* I	Semi-Universal				
	NA l per day		_		
	CRG)				
Cost Breakdown:	· · · · ·		_		
		<b>AAAAAAAAAAAAA</b>	<u>Utilization %</u>		
Ownership Cost/Hou		\$241.38	NA		
Operating Cost/Hou Ripper own. Cost/Hou		\$143.92 \$0.00	100 NA		
Ripper op. Cost/Hou		\$0.00	0		
Operator Cost/Hou		\$41.30	NA		
Swell factor: 1.	861 060 <b>033</b> LCY				
Source of estimated vo Source of estimated sw			ll at 1.5:1 -> 3:1		
	en neveen our nu				
		lubbok			
HOURLY PRODU		lubbok			
	:50 feet				
HOURLY PRODU	: 50 feet duction: 1,400.0 L	CY/hr	nbankment 0.9		
HOURLY PRODU Average push distance Unadjusted hourly prov Materials consistency of Average push gradient	:50 feet duction:1,400.0 L/ description:Comp :5 %	CY/hr	nbankment 0.9		
HOURLY PRODU Average push distance Unadjusted hourly prod Materials consistency of Average push gradient Average site altitude:	: 50 feet duction: 1,400.0 L description: Comp	CY/hr	nbankment 0.9		
HOURLY PRODU Average push distance Unadjusted hourly prod Materials consistency of Average push gradient Average site altitude:	: <u>50 feet</u> duction: <u>1,400.0 Lu</u> description: <u>Comp</u> : <u>-15 %</u> <u>5,300 feet</u>	CY/hr pacted fill or en	nbankment 0.9		
HOURLY PRODUC Average push distance Unadjusted hourly pro- Materials consistency of Average push gradient Average site altitude: Material weight: Weight description: Job Condition Correcti	: <u>50 feet</u> duction: <u>1,400.0 L</u> description: <u>Comp</u> : <u>-15 %</u> <u>5,300 feet</u> <u>2,900 lbs/LCY</u> <u>Sand and gravel</u> on Factor	CY/hr pacted fill or en	Source		
HOURLY PRODUC Average push distance Unadjusted hourly pro- Materials consistency of Average push gradient Average site altitude: Material weight: Weight description: Job Condition Correction	: <u>50 feet</u> duction: <u>1,400.0 L</u> description: <u>Comp</u> : <u>-15 %</u> <u>5,300 feet</u> <u>2,900 lbs/LCY</u> <u>Sand and gravel</u> on Factor or Skill:	CY/hr pacted fill or en  - Dry 0.750	Source (AVG.)		
HOURLY PRODUC Average push distance Unadjusted hourly prod Materials consistency of Average push gradient Average site altitude: Material weight: Weight description: Job Condition Correction Operate Material cons	: <u>50 feet</u> duction: <u>1,400.0 L</u> description: <u>Comp</u> : <u>-15 %</u> <u>5,300 feet</u> <u>2,900 lbs/LCY</u> <u>Sand and gravel</u> on Factor or Skill: istency:	CY/hr bacted fill or en 	Source (AVG.) (CAT HB))		
HOURLY PRODU Average push distance Unadjusted hourly prod Materials consistency of Average push gradient Average site altitude: Material weight: Weight description: Job Condition Correction Operate Material cons Dozing to	: <u>50 feet</u> duction: <u>1,400.0 L</u> description: <u>Comp</u> : <u>-15 %</u> <u>5,300 feet</u> <u>2,900 lbs/LCY</u> <u>Sand and gravel</u> on Factor or Skill: istency: <u></u> method: <u>50 feet</u>	CY/hr pacted fill or en  - Dry 0.750	Source (AVG.)		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.329	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.4724	
.j	51.36 LCY/hr	
Adjusted fleet production: <b>66</b>	<b>51.36</b> LCY/hr	

Fleet size:	1 Dozer(s)	
Unit cost:	\$0.645/LCY	
Total ich times	4 50 Hours	

Total job time:	<b>4.59</b> Hours
Total job cost:	\$1,956

# BULLDOZER WORK

		1 lacemen	t of tops	soil over dis	sturbed a	areas		
: West Rifle Pit			Pern	nit Action:	2024		Permit/Job#	M1981006
PROJECT IDE	<u>NTIFI</u>	CATION						
Task #:         003           Date:         3/5/2           User:         TJ1	2024		State:	Colorado Garfield			Abbreviation: Filename:	None M006-003
Agency	or organi	ization name	: <u>DR</u>	MS				
HOURLY EQU	JIPME	NT COST						
Basic Machine:	-	D8T - 8SU						
Horsepower:								
Blade Type:		i-Universal						
Attachment:	-							
Shift Basis: Data Source:		r day						
	. <u>(CR</u>	J)						
Cost Breakdown:								
o				<b>AA A A A</b>	<u>I</u>	<u>Jtilization %</u>		
Ownership Cost/				\$241.38		NA		
Operating Cost/				\$143.92		100		
Ripper own. Cost/				\$0.00		NA		
Ripper op. Cost/	-			\$0.00		0		
Operator Cost/	Hour:			\$41.30		NA		
Total unit Cost/Ho Total Fleet Cost/H		\$426.60 <b>\$426.60</b>						
	Hour:	\$426.60						
Total Fleet Cost/H	Iour:	\$426.60 <u>TIES</u>						
Total Fleet Cost/H <u>MATERIAL Q</u> Initial Volume: Swell factor:	Hour:	\$426.60 TIES .CY .e: _0.	47 ac. @ at Handb		pth			
Total Fleet Cost/H MATERIAL Q Initial Volume: Swell factor: Loose volume: Source of estimate	Hour:             572            1.000            572 L           ed volumed         swell	\$426.60 TIES CY le: <u>0.</u> factor: <u>C</u>			pth			
Total Fleet Cost/H MATERIAL O Initial Volume: Swell factor: Loose volume: Source of estimate Source of estimate HOURLY PRO Average push dist	Hour: $\frac{572}{1.000}$ 572 L ed volumed swell $\frac{572}{1.000}$	\$426.60 TIES .CY le: 0. factor: C: ION 500	at Handt feet	book	pth			
Total Fleet Cost/H MATERIAL Q Initial Volume: Swell factor: Loose volume: Source of estimate Source of estimate HOURLY PRO	Hour: $\frac{572}{1.000}$ 572 L ed volumed swell $\frac{572}{1.000}$	\$426.60 TIES .CY le: 0. factor: C: ION 500	at Handł	book	oth			
Total Fleet Cost/H MATERIAL O Initial Volume: Swell factor: Loose volume: Source of estimate Source of estimate HOURLY PRO Average push dist	Hour: $\frac{572}{1.000}$ 572 L 572 L ed volumed swell $\frac{572}{2}$	\$426.60 TIES CY ee: 0. factor: C: ION ion: 500 129.	at Handt feet 7 LCY/I	book				
Total Fleet Cost/H MATERIAL Q Initial Volume: Swell factor: Loose volume: Source of estimate Source of estimate HOURLY PRO Average push dist Unadjusted hourly	Hour:	\$426.60 TIES CY ee: 0. factor: C: ION ion: 500 129.	at Handt feet 7 LCY/I	n				
Total Fleet Cost/H MATERIAL Q Initial Volume: Swell factor: Loose volume: Source of estimate Source of estimate MOURLY PRO Average push dist Unadjusted hourly Materials consiste Average push grac Average site altitu	Hour:	\$426.60 TIES CY e: 0. factor: C: ION ion: 129. ription: _ 0 %	at Handt feet 7 LCY/I Loose s	n				
Total Fleet Cost/H MATERIAL Q Initial Volume: Swell factor: Loose volume: Source of estimate Source of estimate HOURLY PRO Average push dist Unadjusted hourly Materials consiste Average push grad	Hour:	\$426.60 TIES CY he: 0. factor: C: ION ion: 129. ription: _ 0 % 5,300 feet	at Handt feet 7 LCY/I Loose s	n				
Total Fleet Cost/H MATERIAL Q Initial Volume: Swell factor: Loose volume: Source of estimate Source of estimate MOURLY PRO Average push dist Unadjusted hourly Materials consiste Average push grad Average site altitu Material weight: Weight description Job Condition Cor	Iour:          572          1.000       572 L         ed volum          ed volum          ed swell          DDUCT          ency desc          dient:          ide:          n:          rrection I	\$426.60 TIES CY he: 0. factor: C: ION ion: 129. ription:	at Handt feet 7 LCY/I Loose s	n		Source		
Total Fleet Cost/H MATERIAL Q Initial Volume: Swell factor: Loose volume: Source of estimate Source of estimate Source of estimate Muterials consiste Average push dist Unadjusted hourly Materials consiste Average site altitu Material weight: Weight description Job Condition Con Op	Iour:          UANTI           572          1.000          572          1.000          572          1.000          572          1.000          572         ed volume       swell         object       1.000         DUCT       1.000         oncy desc       1.000         dient:       1.000         ide:       1.000         in:       1.000         perator S       1.000	\$426.60 TIES CY he: 0. factor: C: 100 factor: C: 100 129. ription:	at Handt feet 7 LCY/I Loose s CY 0.7	nr tockpile 1.2		(AVG.)		
Total Fleet Cost/H MATERIAL Q Initial Volume: Swell factor: Loose volume: Source of estimate Source of estimate MOURLY PRO Average push dist Unadjusted hourly Materials consiste Average push grad Average site altitu Material weight: Weight description Job Condition Cor Op Material	Hour:          UANTI          572          1.000       572 L         ed volumed          ed volumed          object	\$426.60 TIES CY e: 0. factor: C: ION ion: 500 ion: 129. ription: _ 0 % 5,300 feet 1,600 lbs/I Top Soil Factor kill: ncy:	at Handt feet 7 LCY/I Loose s .CY 0.7 1.2	2000k		(AVG.) (CAT HB)		
Total Fleet Cost/H MATERIAL O Initial Volume: Swell factor: Loose volume: Source of estimate Source of estimate MOURLY PRO Average push dist Unadjusted hourly Materials consiste Average push grad Average site altitu Material weight: Weight description Job Condition Cor Op Material	Iour:          UANTI           572          1.000          572          1.000          572          1.000          572          1.000          572         ed volume       swell         object       1.000         DUCT       1.000         oncy desc       1.000         dient:       1.000         ide:       1.000         in:       1.000         perator S       1.000	\$426.60 TIES CY e: 0. factor: C: ION ion: 129. ription: 0 % 5,300 feet 1,600 lbs/L Top Soil Factor kill: ncy: nod:	at Handt feet 7 LCY/I Loose s CCY 0.7 1.2 1.0	nr tockpile 1.2		(AVG.)		

Adjusted unit production:	111.45 LCY/hr
Adjusted fleet production:	111.45 LCY/hr

Fleet size:	1 Dozer(s)
Unit cost:	\$3.828/LCY

Total job time:	<b>5.13</b> Hours
Total job cost:	\$2,189

# **REVEGETATION WORK**

Site: West Rifle	Pit	Permit Ac	ction: _2024	Permit/Job	o#: <u>M1981006</u>
PROJECT II					
	004 3/5/2024	State: <u>Colo</u> County: Garfi		Abbreviation: Filename:	None M006-004
	TJ1	County:			111000 004

## **FERTILIZING**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Ammonium nitrate, 33-0-0	147.10	pound	\$0.62	\$91.69
Muriate of potash, 0-0-60	41.70	pound	\$0.28	\$11.68
			Total Fertilizer Materials Cost/Acre	\$103.36

## Application

Description	Cost /Acre
Tractor towed spreader (MEANS 32 01 90.13 0120)	\$41.82
Total Fertilizer Application Cost/Acre	\$41.82

# **TILLING**

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$112.82
Weed control spraying (MEANS 31 31 16.13 3100)	\$338.80
Total Tilling Cost/Acre	\$451.62

## **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Ryegrass, Perennial - Belramo	6.00	34.02	\$10.80
Crested Wheatgrass - Standard	4.50	20.66	\$18.68
Hard Fescue - Brigade	2.25	29.18	\$7.71
Yellow Sweet Clover - Madrid	2.25	13.43	\$6.36
Pubescent Wheatgrass - VNS	9.00	18.60	\$28.35
Streambank Wheatgrass - Sodar	6.00	19.56	\$34.20
Totals Seed Mix	30.00	135.45	\$106.09

#### Application

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$232.00
	<b>Total Seed Application Cost/Acre</b>	\$232.00

## **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - 2,4D @ 1.0 pt/ac	1.00	ACRE	\$4.01	\$4.01
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$429.79	\$859.57
Total Mulch Materials Cost/Acre				\$863.58

#### Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$74.46
Weed spray, truck, aquatic area, nox. [DMG]		\$62.72
	Total Mulch Application Cost/Acre	\$137.18

## NURSERY STOCK PLANTING

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

	No. of Acres:	0.47	Cost /Acre:	\$1,935.65
Estimate	ed Failure Rate:	35%	Cost /Acre*:	\$1,790.47
*Selected Replanti	ng Work Items:	TILLING,SEEDIN	G,MULCHING	
Initial Job Cost:	\$909.76			
Reseeding Job Cost:	\$294.53			
Total Job Cost:	\$1,204			
Job Hours:	8.00			

# BULLDOZER WORK

Task description:	Backfill pond in parcel D			
West Rifle Pit	Permit Action	n: <u>2024</u>	Permit/Job#:	M1981006
PROJECT IDENTI	FICATION			
Task #:         005           Date:         3/5/2024           User:         TJ1	State: Colorad County: Garfield		Abbreviation: Filename:	None M006-005
Agency or orga	anization name: DRMS			
HOURLY EQUIPM	ENT COST			
	at D8T - 8SU			
Horsepower: 31				
×1	mi-Universal			
Attachment: <u>N</u> Shift Basis: 1	A per day			
	(RG)			
	100 <i>/</i>			
Cost Breakdown:		TT/11 .1 Cf		
Ownership Cost/Hour:	\$241.3	8 <u>Utilization %</u> NA		
Operating Cost/Hour: Operating Cost/Hour:	\$241.30			
Ripper own. Cost/Hour:				
Ripper op. Cost/Hour:	\$0.0			
Operator Cost/Hour:	\$41.3			
MATERIAL QUAN				
Initial Volume:7,4Swell factor:1.0Loose volume: <b>7,8</b>				
Source of estimated volu		vegyation		
Source of estimated void				
HOURLY PRODUC	TION			
Average push distance:	50 feet			
Unadjusted hourly produ	action: <u>1,400.0 LCY/hr</u>			
Materials consistency de	escription: <u>Compacted fill o</u>	r embankment 0.9		
Materials consistency de Average push gradient: Average site altitude:	escription: <u>Compacted fill o</u> <u>-15 %</u> <u>5,300 feet</u>	r embankment 0.9		
Average push gradient: Average site altitude:	-15 %	r embankment 0.9		
Average push gradient: Average site altitude:	<u>-15 %</u> 5,300 feet	r embankment 0.9		
Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correctio	-15 % 5,300 feet 2,900 lbs/LCY Sand and gravel - Dry n Factor	Source		
Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correctio Operator	<u>-15 %</u> <u>5,300 feet</u> <u>2,900 lbs/LCY</u> <u>Sand and gravel - Dry</u> <u>n Factor</u> Skill: <u>0.750</u>	Source (AVG.)		
Average site altitude: Material weight: Weight description: Job Condition Correctio Operator Material consis	<u>-15 %</u> <u>5,300 feet</u> <u>2,900 lbs/LCY</u> <u>Sand and gravel - Dry</u> <u>n Factor</u> Skill: <u>0.750</u> tency: <u>0.900</u>	Source (AVG.) (CAT HB))		
Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correctio Operator Material consis Dozing m	<u>-15 %</u> <u>5,300 feet</u> <u>2,900 lbs/LCY</u> <u>Sand and gravel - Dry</u> <u>n Factor</u> Skill: <u>0.750</u> tency: <u>0.900</u>	Source (AVG.)		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.329	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.4724	
Adjusted unit production: 66	51.36 LCY/hr	
Adjusted fleet production: <b>66</b>	61.36 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.645/LCY

Total job time:	<b>11.87</b> Hours
Total job cost:	\$5,064

# EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task descript	ion: Ini	tial Mobilization	to site				
West Rifle	West Rifle Pit		Permit Action: 2024		1	1981006	
PROJECT I	DENTIFICAT	ION					
Date:	006 3/5/2024 TJ1		olorado urfield			eviation: <u>None</u> lename: <u>M006</u>	i-006
Agen	ncy or organizatio	n name: DRMS					
EQUIPMEN	T TRANSPOR	<u>RT RIG COST</u>					
	ruck Tractor Desc Fruck Trailer Desc	-	ENERIC FOLD	WAY TRU 400 HP DING GOO	(2ND HALF, SENECK, DF	rce: CRG Da DR, 6X4, DIESEI 2006) ROP DECK EQU	ta L POWERED,
			r	FRAILER	(25T, 50T, AN	ND 100T)	
Cost Breakdow Available Ri		0-25 Tons	26-50 Tons	51.	- Tons		
	ship Cost/Hour:	\$20.26	\$36.04		7.05		
	ting Cost/Hour:	\$39.51	\$76.08		32.85		
	ator Cost/Hour:	\$22.52	\$22.52		22.52		
	lper Cost/Hour:	\$0.00	\$23.53		23.53		
	Unit Cost/Hour:	\$82.29	\$158.17		75.95		
NON ROAD	ABLE EQUIP	MENT:					
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
Cat D8T - 8SU	(TONS) J 47.71	\$241.38	t \$158.17	1	fleet \$399.55	\$158.17	\$250.00
Drill/Broadcas Seeder with		\$6.73	\$138.17 \$82.29	1	\$399.55 \$89.02	\$138.17 \$82.29	\$250.00
Tractor							
	0.80	\$24.16	\$82.29	1	\$106.45	\$82.29	\$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, 1 T. Crew	\$55.12	1	\$55.12	\$55.12
		Subtotals:	\$55.12	\$55.12

## **EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region: Total one-way travel distance: Average Travel Speed:	RIFLE, CO 2.00 25.00	miles mph
Total Non-Roadable Mob/Demob Cost * '* two round trips with haul rig:	\$2,836.88	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$8.82	

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.08	0.08
Return Time (Hours):	0.08	0.08
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.16	0.16

## JOB TIME AND COST

Total job time: 2.32 Hours

Total job cost: \$2,846

# EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description	: Sec						
: <u>West Rifle Pi</u>	t	Permit	Action: <u>2024</u>		1	Permit/Job#:	M1981006
PROJECT IDE	NTIFICATI	ON					
Task #:       00         Date:       3/5         User:       TJ	5/2024		olorado arfield			eviation: <u>Non</u> ilename: <u>M00</u>	ie 06-007
Agency EQUIPMENT	U	n name: <u>DRMS</u>					
	k Tractor Desc		RIC ON-HIGH	WAY TRU	Shift ba Cost Data Sour JCK TRACTO (2ND HALF,	rce: <u>CRG I</u> OR, 6X4, DIESI	Data
Tmi	alt Trailar Daga	mintion.	ENEDIC EOL		· · ·	/	UDMENT
Cost Breakdown:	ck Trailer Desc	·		DING GOO FRAILER	SENECK, DF (25T, 50T, A)	ROP DECK EQ	UIPMENT
Cost Breakdown: Available Rig (	Capacities	0-25 Tons	26-50 Tons	DING GOO FRAILER 51+	SENECK, DF (25T, 50T, A) Tons	ROP DECK EQ	UIPMENT
Cost Breakdown: Available Rig ( Ownershi	C <b>apacities</b> p Cost/Hour:	0-25 Tons \$20.26	<b>26-50 Tons</b> \$36.04	DING GOO TRAILER 51+ \$4	SENECK, DF (25T, 50T, AN Tons 7.05	ROP DECK EQ	UIPMENT
Cost Breakdown: Available Rig ( Ownershi Operatin	C <b>apacities</b> p Cost/Hour: g Cost/Hour:	0-25 Tons \$20.26 \$39.51	<b>26-50 Tons</b> \$36.04 \$76.08	DING GOO <u>FRAILER</u> 51+ \$4 \$8	SENECK, DF (25T, 50T, AN Tons 7.05 (2.85	ROP DECK EQ	UIPMENT
<u>Cost Breakdown:</u> Available Rig ( Ownershi Operatin Operato	C <b>apacities</b> p Cost/Hour: g Cost/Hour: or Cost/Hour:	0-25 Tons \$20.26 \$39.51 \$22.52	<b>26-50 Tons</b> \$36.04 \$76.08 \$22.52	DING GOO <u>FRAILER</u> 51+ \$4 \$8 \$2	SENECK, DF (25T, 50T, A) Tons 7.05 (2.85 (2.52)	ROP DECK EQ	UIPMENT
Cost Breakdown: Available Rig ( Ownershi Operatin Operato Helpe	Capacities p Cost/Hour: g Cost/Hour: or Cost/Hour: er Cost/Hour:	0-25 Tons \$20.26 \$39.51 \$22.52 \$0.00	<b>26-50 Tons</b> \$36.04 \$76.08 \$22.52 \$23.53	DING GOO <u>FRAILER</u> 51+ \$4 \$8 \$2 \$2 \$2 \$2 \$2 \$2 \$ \$ \$ \$ \$ \$ \$ \$ \$	SENECK, DF (25T, 50T, AN 7.05 (2.85 (2.52) (3.53)	ROP DECK EQ	UIPMENT
Cost Breakdown: Available Rig ( Ownershi Operatin Operato Helpe Total Uni NON ROADAF Machine	Capacities p Cost/Hour: g Cost/Hour: or Cost/Hour: it Cost/Hour: it Cost/Hour: BLE EQUIPM Weight/	0-25 Tons           \$20.26           \$39.51           \$22.52           \$0.00           \$82.29           MENT:           Owner ship	26-50 Tons \$36.04 \$76.08 \$22.52 \$23.53 \$158.17 Haul Rig	DING GOO FRAILER 51+ \$4 \$4 \$8 \$2 \$2 \$1 \$1 Fleet	SENECK, DF (25T, 50T, AN 7.05 2.85 2.52 3.53 75.95 Haul Trip	ROP DECK EQ	DOT Permit
Cost Breakdown: Available Rig ( Ownershi Operatin Operato Helpe Total Uni	Capacities p Cost/Hour: g Cost/Hour: or Cost/Hour: it Cost/Hour: it Cost/Hour: BLE EQUIPM Weight/ Unit	0-25 Tons \$20.26 \$39.51 \$22.52 \$0.00 \$82.29 MENT:	<b>26-50 Tons</b> \$36.04 \$76.08 \$22.52 \$23.53 \$158.17	DING GOO FRAILER 51+ \$4 \$8 \$2 \$2 \$2 \$1	SENECK, DF (25T, 50T, AN 7.05 2.85 2.52 3.53 75.95 Haul Trip Cost/hr/	ROP DECK EQ ND 100T) Return Trip	DOT Permit
Cost Breakdown: Available Rig ( Ownershi Operatin Operato Helpe Total Uni NON ROADAF Machine	Capacities p Cost/Hour: g Cost/Hour: or Cost/Hour: it Cost/Hour: it Cost/Hour: BLE EQUIPM Weight/	0-25 Tons           \$20.26           \$39.51           \$22.52           \$0.00           \$82.29           MENT:           Owner ship	26-50 Tons \$36.04 \$76.08 \$22.52 \$23.53 \$158.17 Haul Rig Cost/hr/uni	DING GOO FRAILER 51+ \$4 \$4 \$8 \$2 \$2 \$1 \$1 Fleet	SENECK, DF (25T, 50T, AN 7.05 2.85 2.52 3.53 75.95 Haul Trip	ROP DECK EQ ND 100T) Return Trip	DOT Permit

## **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	\$55.12	1	\$55.12	\$55.12
		Subtotals:	\$55.12	\$55.12

## **EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region:	RIFLE, CO	
Total one-way travel distance:	2.00	miles
Average Travel Speed:	25.00	mph
Total Non-Roadable Mob/Demob Cost *	\$705.45	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$8.82	

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.08	0.08
Return Time (Hours):	0.08	0.08
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.16	0.16

## JOB TIME AND COST

Total job time: 2.32 Hours

Total job cost: \_\_\_\_\_\_\$714