

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:	
Bennett's Gravel Pit	M-1979-166	Sand and gravel Delta		
INSPECTION TYPE:	INSPECTOR(S):	INSP. DATE: INSP. TIME:		
Monitoring	Robert Zuber, P.E.	August 17, 2021 07:00		
OPERATOR:	OPERATOR REPRESENTATIVE:	TYPE OF OPERATION:		
Elam Construction, Inc.	Jim Doody, Jon Mueller	112c - Construction Regular Operation		

REASON FOR INSPECTION:		BOND CALCULATION TYPE:	BOND AMOUNT:
Normal I&E Program		Complete Bond	\$147,436.09
DATE OF COMPLAINT:		POST INSP. CONTACTS:	JOINT INSP. AGENCY:
NA		None	None
WEATHER:	INSPE	CTOR'S SIGNATURE:	SIGNATURE DATE:
Clear			September 9, 2021
	The	4 D. ZL	

The following inspection topics were identified as having Problems or Possible Violations. OPERATORS SHOULD READ THE FOLLOWING PAGES CAREFULLY IN ORDER TO ASSURE COMPLIANCE WITH THE TERMS OF THE PERMIT AND APPLICABLE RULES AND REGULATIONS. If a Possible Violation is indicated, you will be notified under separate cover as to when the Mined Land Reclamation Board will consider possible enforcement action.

INSPECTION TOPIC: Financial Warranty

PROBLEM/POSSIBLE VIOLATION: Problem: The financial warranty is not adequate to reclaim the site in accordance with the approved reclamation plan. This is a failure to maintain the proper financial warranty amount to complete reclamation of the affected lands pursuant to C.R.S. 34-32.5-117(4)(b) of the Act.

CORRECTIVE ACTIONS: The operator shall review the enclosed update of the Reclamation Cost Estimate and write a letter to the Division listing any questions and/or comments regarding the details of the estimate. This letter must be received by the Division by the corrective action due date. If the letter is not received by that date, the Division will initiate the surety increase process, and the operator will have 60 days from the date on the surety increase notice to post the additional financial warranty.

CORRECTIVE ACTION DUE DATE: 11/05/21

INSPECTION TOPIC: Hydrologic Balance

PROBLEM/POSSIBLE VIOLATION: Problem: The Division has no evidence that the Operator has a substitute water supply plan or approved water augmentation plan for the exposed groundwater at the site. This is a problem related to 34-32.5-116(4)(h) of the Colorado Revised Statutes and 3.1.6(1)(a) of the Construction Materials Rules and Regulations governing injury to existing water rights.

CORRECTIVE ACTIONS: The Operator shall do one of the following by the corrective action date:

- Demonstrate that the operation is in compliance with the Office of the State Engineer.
- Post additional bond for backfilling the pits to at least two feet above the groundwater surface until an augmentation plan is approved.
- Submit a Technical Revision to install a slurry wall or clay liner. After approved, the structure will need to be constructed.

CORRECTIVE ACTION DUE DATE: 12/10/21

INSPECTION TOPIC: Gen. Compliance With Mine Plan

PROBLEM/POSSIBLE VIOLATION: Problem: Several cars and axels appear to be within the boundary of the site, by the entrance. Jon Mueller suggested that these are not within the boundary and that the Annual Report Map may be incorrect.

CORRECTIVE ACTIONS: There are three options to address this problem.

Have the vehicles and axels removed from the permit area.

Write a letter to the Division stating that removal of these vehicles should be included in the cost estimate for site reclamation.

Demonstrate (with photographs, maps, or other evidence) that the vehicles and axels are not in the actual permit area, and (as necessary) write a Technical Revision to update maps for the site, including the Mining Plan Map and the Reclamation Plan Map.

CORRECTIVE ACTION DUE DATE: 12/10/21

INSPECTION TOPIC: Roads

PROBLEM/POSSIBLE VIOLATION: Problem: A road between the pond (mining area) and the river has recently been improved. In addition to being a road, this structure acts as a berm between the river and the pond. This road is not shown on the Mining Plan Map, Exhibit C. The current mine plan needs to be updated and clarified pursuant to C.R.S. 34-32.5-112 (1)(c)(VI).

CORRECTIVE ACTIONS: The operator shall submit a Technical Revision (TR), with the required \$216 revision fee, to update and clarify the current approved mine plan to reflect existing and proposed activities by the corrective action date. This TR can be combined with any other TR submitted in relation to this inspection report (for example, a change in the permit boundary on associated maps).

CORRECTIVE ACTION DUE DATE: 12/10/21

INSPECTION TOPIC: Revegetation

PROBLEM/POSSIBLE VIOLATION: Problem: There are state-listed noxious weeds present on site. This is a problem for failure to employ weed control methods for state listed noxious weed species within the permitted area, and to reduce the spread of weeds to nearby areas as required by Section 3.1.10 (6) of the rule.

CORRECTIVE ACTIONS: Implement approved weed control plan and provide proof to the Division that this has been done.

CORRECTIVE ACTION DUE DATE: 12/10/21

INSPECTION TOPIC: Signs & Markers

PROBLEM/POSSIBLE VIOLATION: Problem: The affected area boundary markers were not observed per the

requirements of Rule 3.1.12.

CORRECTIVE ACTIONS: The boundaries of the affected area must be marked by monuments or other markers that are clearly visible and adequate to delineate such boundaries.

CORRECTIVE ACTION DUE DATE: 12/10/21

INSPECTION TOPIC: Topsoil

PROBLEM/POSSIBLE VIOLATION: Problem: The topsoil stockpiles do not have established vegetation on them and are therefore susceptible to erosion. Rule 3.1.9(1) states if topsoil is not replaced into the backfill area within a time short enough to avoid deterioration of the topsoil, vegetative cover or other means shall be employed so that the topsoil is protected from erosion.

CORRECTIVE ACTIONS: The operator shall seed the stockpiles with the seed mix that was submitted as part of the approved Reclamation Plan. If no seed mix has been provided, the operator shall submit a seed mix for approval as a technical revision to the permit along with the appropriate \$216 revision fee to the Division by the corrective action date. The Operator shall demonstrate compliance by submitting seed tags, a bill of sale or photographs of seeding activities. The Operator may also request a follow up inspection.

CORRECTIVE ACTION DUE DATE: 12/10/21

OBSERVATIONS

Rob Zuber of DRMS inspected Bennett's Gravel Pit on August 17, 2021. Two representatives of Elam Construction were present: Jim Doody and Jon Mueller. The site is a 112C operation (DRMS Permit Number M-1979-166) that is currently active. At the time of the inspection, the crushing equipment was operating.

The permit area is 32.6 acres. The approved area for disturbance is 29 acres.

The weather was clear except for smoke from Western U.S. wildfires, and the temperature was warm.

Availability Of Records:

Some issues with the records in the files for the Bennett's Gravel Pit were identified before and during the inspection. Per Jon Mueller, the map in the Annual Report is not accurate, namely the permit boundary may be off. If this is true, the correct map should be used in future annual reports.

Another issue is the Reclamation Plan Map (exhibit F from TR-1 in Division files). Because TR-1 was not approved by the Division, the Operator needs to send a letter to the Division indicating that this map illustrates accurately the current reclamation plan.

Financial Warranty:

The Division has updated the Reclamation Cost Estimate for the Bennett's Gravel Pit and is including it with this inspection report as an enclosure. The new estimate is \$237,023. The existing financial warranty of \$147,436 was not found to be adequate to complete reclamation at the site. The majority of the increase in the cost estimate is related to the addition of a new task to haul material to the pit slopes.

Hydrologic Balance:

There was no indication that runoff from the site is causing problems in the Gunnison River, which is less than 30 feet from the mining area.

Sufficient documentation was not found regarding exposed groundwater at the site. The Operator has documentation of a well permit, but a well permit does not convey a water right. During a Division search of records related to this permit, no augmentation plan was found. The Operator must address this problem as discussed in the Problems section of this report.

Gen. Compliance With Mine Plan:

Several cars and axels appear to be within the boundary of the site, by the entrance. Jon Mueller suggested that these are not within the boundary and that the Annual Report Map may be incorrect. This issue should be addressed as detailed in the list of problems section of this report.

Roads:

A road between the pond (mining area) and the river has recently been improved. In addition to being a road, this structure acts as a berm between the river and the pond. This road is not shown on the Mining Plan Map, Exhibit C. A Technical Revision is required to update the map.

Reclamation Success:

The reclaimed area near the southwest corner of the site is in acceptable condition except for the weeds mentioned in the Revegetation section of this report.

Revegetation:

Many weeds were seen around the site: knapweed, tamarisk, Russian olive, and mullein. These should be treated per the approved Weed Control Plan.

Support Facilities On-site:

There is no fuel storage at this site.

Signs and Markers:

Very few markers were seen around the affected area. These need to be installed.

Topsoil:

The topsoil pile south of the entrance is not protected with vegetation or BMPs. This problem needs to be addressed by Elam Construction.

PHOTOGRAPHS



Vehicles and car parts near the entrance to the site, next to soil piles



Mining area with pumps



Improved road between the pit and the Gunnison River



Reclaimed portion of pond slopes – note noxious trees and stockpiles of material on north side of pond

GENERAL INSPECTION TOPICS

The following list identifies the environmental and permit parameters inspected and gives a categorical evaluation of each

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

Inspection Contact Address

Jim Doody, Jon Mueller Elam Construction, Inc. 556 Struthers Ave. Grand Junction, CO 81501

Enclosure: Reclamation Cost Estimate

CC: Michael Cunningham, Clayton Wein, Travis Marshall, DRMS

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

Reclamation Cost Estimate

COST SUMMARY WORK

Ta	sk description:	Update of RCE for 20	021 Ins _l	oection			
ite:	Bennett's Gravel Pit	Permit A	Action: _	2021 Inspectio	n	Permit/Job#	#: <u>M1979166</u>
PR	OJECT IDENTIFICA	ATION					
	Task #: 001	State: Cole	orado			Abbreviation:	None
	Date: 9/1/2021	County: Delt			·	Filename:	M166-001
	User: RDZ						
	Agency or organization	ation name: DRMS					
TA	SK LIST (DIRECT O	COSTS)					
				Form	Fleet	Task	
sk	Description			Used	Size	Hours	Cost
A	Dewater Pit for Slope l			PUMPING	1	387.50	\$39,765
4	Haul backfill material	1 1		TRUCK1	1	223.51	\$82,836
3	Push Material to Backf	-		DOZER	2	73.12	\$34,568
A	Excavate and transport processing area	gravel from pit to		TRUCK1	1	18.53	\$6,868
4	Spread gravel over pro	cess / stockpile area		DOZER	1	21.80	\$5,153
A	Spread topsoil over pollevel	nd perimeter above water	er	DOZER	1	12.95	\$3,061
1	Revegetate flat surface	s of excavation area		REVEGE	1	8.00	\$1,688
	Revegetate pit slopes a			REVEGE	1	4.00	\$445
1	Mobilization			MOBILIZE	1	2.40	\$4,952
				SUBTO	OTALS:	751.81	\$179,336
<u>IN</u>	DIRECT COSTS						
<u>OV</u>	ERHEAD AND PROFIT	<u>':</u>					
	Liability insuranc	e: 2.02				Total = \$3.	,623
	Performance bon						883
	Job superintender						1,609
	Prof						7,934
					TOTA	L O & P =\$45	5,048
		(CONTR.	ACT AMOUNT	Γ (direct +	O & P = \$22	24,384
LEC	GAL - ENGINEERING -	PROJECT MANAGEM	MENT:				
	Financial warranty prod	cessing (legal/related co	osts):	\$500		Total = \$50	00
		or contract/bid preparate		0.00	_	Total =	
		ment and/or administrat		5.41	 _		2,139
		CONTINGEN	ICY:	0.00		Total =\$0	
				TOTAL I	NDIREC'	$\Gamma \text{ COST} = \$57$	7,687
		ТОТА	L BON	D AMOUNT (direct + i	ndirect) = \$23	37,023

PUMPING WORK

Task description:	Dewa	ter Pit for Slope Redu	ıction			
te: Bennett's Gravel Pit	Ī	Permit Action	: 2021 Inspection	Permit/Job#:	M1979166	
PROJECT IDENTIF	<u> [CATIO]</u>	<u>N</u>				
Task #: 01A		State: Colorado		Abbreviation: 1	None	
Date: $8/31/2021$		County: Delta			M166-01A	
User: RDZ		, <u> </u>		_		
Agency or orga	nization n	ame: DRMS				
HOURLY EQUIPME	ENT COS	 ST				
	Descrip			Quantity		
Make and Model:		ugal pump - 200M, 10	in	2	<u>—</u>	
Attachment 1:		n hose - 6 in. diam., 25		1		
Attachment 2:		rge hose - 6 in. D., 25		1		
Labor Unit 1:		pperator	11.	1	<u></u>	
Horsepower:	70	permor				
•	per day	<u> </u>				
Weight:	1.95	<u>—</u>				
	JS Tons)					
Cost Breakdown:	,					
_ Jos Diverso will			Utilization %			
Ownership Cost/	Hour:	\$37.86	NA			
Operating Cost/		\$37.08	100			
Operator Cost/		\$27.68	NA			
Total Unit Cost/		\$102.62				
Total Fleet Cost	/Hour	\$102.62				
		φ102.02				
PUMPING QUANTIT						
	Initial Pond Volume: 76,122,225.00			Conversion factor:	1.0000	
Final Pond Vol		76,122,225.00	gallons			
Total Pond Inflow Su	ırface			Unit inflow rate in		
	Area:	15,600	Sq. ft.	gph/sq. ft.:	0.3516	
Total Pond Inflow Vo	lume					
per l	Hour:	5,484.96	gallons			
Source of	of estimate	ed volume: Assume	9.5 acre pit with 26' de	ep water		
PUMPING TIME						
	zimum D	np Capacity:	200,000	anh/numn		
		uction Head:	25	gph/pump feet		
		charge Head:	15	feet		
Esti	U D180	Total Head:	40	feet		
	CPR Pur	mp Capacity:	90,000	gph/pump		
		Site Altitude:	4,930	feet		
			•			
Adius	ted Pumni	ng Capacity:	180,000	gph		
		mping Time:	422.90	hours		
	•	ial Pumping:	2,319,596	gallons		
		mping Time:	435.79	Hours		
		ment Factor:	0.9700	(3% rule)		
	•	iency Factor:	0.9167	(55 min./hr.)		
		mping Time:	387.50	hours		
JOB TIME AND COS	ST					
	_		Total job time	e: <u>387.50</u>	Hours	
** .	00.50-	(0.1)		**		
Unit cost: \$0.0	00507	/Gallon	Total job cos	t: \$39,765		

TRUCK/LOADER TEAM WORK

ite: Bennett's Grave	l Pit	Permit Act	ion: 2021 Inspe	ection	Permit/Job#: _	M1979166
PROJECT IDENT	<u> </u>					
Task #: 02A		State: Colora	ado	Abl	breviation: No	
Date: 9/2/20 User: RDZ)21 (County: Delta			Filename: M1	66-02A
	· .·	DDMG				
Agency or o	organization nan	ne: DRMS				
HOURLY EQUIP	MENT COST	-		Shift ba	sis: 1 per day	
	1 I 1 T		Equipment Descr	•		
11	ruck Loader Tea		ieric 12-18 cy, 6x T 966H high lift	<u></u>		
Suppo	rt Equipment -L	oad Area: NA				
Pood Mo	-Du intenance –Moto	imp Area: NA or Grader: NA				
Koau ivia		ter Truck: NA				
Cost Breakdown:	Truck/Loa Truck	der Team Loader	Support Load Area	Equipment Dump Area	Maintena Motor	nce Equipment Water Truck
	Truck	Loader	Load Area	Dump Area	Grader	vvator rrack
Utilization-machine:	100	100	NA	NA	NA	NA
Ownership cost/hour:	\$27.72	\$59.72	NA	NA	NA	NA
Operating cost/hour:	\$47.23	\$55.20	NA	NA	NA	NA
% Utilization-riper:	NA NA	0	NA	NA	NA	NA NA
pper own. cost/hour:	NA NA	\$0.00 \$0.00	NA NA	NA NA	NA NA	NA NA
Operator cost/hour:	\$32.54	\$40.71	NA NA	NA NA	NA NA	NA NA
Unit Subtotals:	\$107.49	\$155.63	NA NA	NA NA	NA NA	NA NA
Number of Units:	2	1	0	0	0	(
Group Subtotals:	Work:	\$370.61	Support:	\$0.00	Maint:	\$0.00
Total work team cost	/hour: \$370.61		**			
Total work team cost	7110u1. <u>\$370.01</u>					
MATERIAL QUA	NTITIES					
Initial volume:	101,606	CCY	Swell	factor: 1.000		
Loose volume:	101,60	D6 LCY				
Sou	rce of estimated	volume: Task	02A			
Source of	of estimated swe		Handbook			
	Material Purcha	ase Cost: $\frac{\$0.00}{\$0.00}$				
	10	παι Cost ψυ.υς	,			
HOURLY PROI	<u>DUCTION</u>					
Truck Capacity:						
Truck Payload (weigh				-		
Material w Descri		Dry, loose	Pounds/LCY	,		
Descri	puon. sana-	D1 y, 10030				

Pounds

50,300

Rated Payload:

Truck/Loader Worksheet C	on u	Task # UZA			rage 2 01 3	
Payload Capacity:	20.96	LCY				
Truck Bed (volume) Basis: Struck Volume: Heaped Volume: Average Volume: Adjusted Volume:	12.00 18.00 15.00 18.00	LCY LCY LCY LCY				
•				44.00		
	l Truck Volume	Based on Number of Lo	oader Passes:	13.88	LCY	
Loading Tool Capacity			Rucke	et Size Class: Na	٨	
Rated Capacity:	5.000	LCY (heaped)	Duck	t Size Class. 117	<u> </u>	
Bucket Fill Factor:	0.925	Loose material - 1	1/8" to 3/8" (90) - 95%) () 925		
Adjusted Capacity:		LCY	170 10 370 (50	7570) 0.725		
Job Condition Correction	<u>s:</u>	Site	Altitude (ft.):	<u>4930</u> feet		
	Truck	Loader	Source			
Altitude Adj:	1.000	1.000	(CAT HB)		
Job Efficiency:	0.830	0.830	(CAT HB)		
Net Correction:	0.830	0.830				
Looding Tool Cycle Time	1	Number of Loading To	ol Dossos Doss	ined to Eill		• 0 0 0 0 0
Loading Tool Cycle Time Excavators and Front Shov		Number of Loading To	oi Passes Requ	Truck:	3 I	passes
Machine Cycle Time Selected Value	vs. Job Condition within this Basi					
Track Loaders	 Material Descr 	iption:				
Cycle Time Elements (min.):					
Load: NA	N	Ianeuver: NA		Dump: 0.100	<u> </u>	
Wheel and Tra	ick Loaders - Una	ndjusted Basic Loader (•	- () ·	500 minu	tes
	ı		m	naneuver):		
Cycle Time Factor			1 0 00	Factor (min.)	Source	₽
Material Stockpile		nt - factor not applicab nt - factor not applicab		0.000	(Cat HB)	-
Truck Ownership		nership of trucks and l			(Cat HB)	
Truck Ownership	0.04	mership of trucks allu l	oaders -	-0.040	(Cat HB)	
Operation		eration -0.04		-0.040	(Cat HB)	
Dump Target				0.040	(Cat HB)	
		Net Cycle Time	Adjustment:	-0.040	minutes	
		Adjusted Loader (0.460	minutes	
		Net Load Time	e per Truck: _	1.020	minutes	

TIUCK CYCIC TIME	Truck	Cycle	Time:
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Truck Exchange Time:	0.50	Minutes	Adjusted for site altitude:	0.500	Minutes
Truck Load Time:	1.020	Minutes	Adjusted for site altitude:	1.020	Minutes
Truck Maneuver and Dump Time:	0.90	Minutes	Adjusted for site altitude:	0.900	Minutes

Truck Travel (Haul & Return) Time:

Road Condition: Firm, smooth, rolling, dirt/lt. surfaced, watered,

maintained 3.0

	_
LIOIN	Route:
паш	Noute.

Seg #	Haul Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel
	(Ft)		(%)	(%)	(fpm)	Time
	. ,		` ′	, ,	, ,	(min)
1	200.00	0.00	3.00	3.00	2824	0.232
2	200.00	0.00	3.00	3.00	2824	0.071

Haul Time: 0.303 minutes

Return Route:

Keturn Kot	iic.					
Seg#	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	200.00	0.00	3.00	3.00	2874	0.105
2	200.00	0.00	3.00	3.00	2874	0.070

Return Time: 0.175 minutes
Total Truck Cycle Time: 2.898 minutes

Loading Tool unit

Production Truck Unit Production 287.27 LCY/Hour Adjusted for job efficiency: 454.59 LCY/Hour Adjusted for job efficiency: 238.43 LCY/Hour

Optimal No. of Trucks: 2 Truck(s) Selected Number of Trucks: 2 Truck(s)

Adjusted hourly truck team production: 476.86 LCY/Hour Adjusted single truck/loader team production: 454.59 LCY/Hour Adjusted multiple truck/loader team production: 454.59 LCY/Hour

JOB TIME AND COST

 Fleet size:
 1
 Team(s)
 Total job time:
 223.51
 Hours

 Unit cost:
 \$0.815
 /LCY
 Total job cost:
 \$82,836

BULLDOZER WORK

Bennett's Gravel Pit	D _O :	rmit Action:	2021 Inspection	Permit/Io	b#: M1979166
Denneu 3 Graver Fit		mit Activil.	2021 Hispeediuli	1 CHIII/ JO	Om. 1V117/7100
PROJECT IDENTIFIC	<u>CATION</u>				
Task #: 02B	State:	Colorado		Abbreviation:	None
Date: 9/2/2021	County:	Delta		Filename:	M166-02B
User: RDZ					
Agency or organ	ization name: DF	RMS			
Agency of organi	ization name	UVID			
IOURLY EQUIPMEN	NT COST				
Basic Machine: Cat	D8T - 8SU		_		
Horsepower: 310)		_		
Blade Type: Sen	ni-Universal		_		
Attachment: NA	•		_		
Shift Basis: 1 pe	er day		_		
Data Source: (CR			_		
Cost Breakdown:			_		
			<u>Utilization %</u>		
Ownership Cost/Hour:		\$97.46	NA		
Operating Cost/Hour:	-	\$97.63	100		
Ripper own.		\$0.00	NA		
Cost/Hour:		\$0.00	0		
Ripper op. Cost/Hour:		\$41.30			
Operator Cost/Hour:		\$41.30	NA		
Total unit Cost/Hour:	\$236.39				
Total Fleet Cost/Hour:	\$472.78				
Total Ticot Copy Hour.	ψ172170				
MATERIAL QUANTI	TIES				
Initial Volume: 101,0					
Swell factor: 1.110	0	<u></u>			
Loose volume: 112,	783 LCY				
Source of estimated volu	me Division	of Reclamation	on, Mining & Safety		
Source of estimated void			on, winning & Sarcty		
factor:	1 Cat Hand	JUUUK			
ractor.					
IAIDI V DDADIICTI	ION				
HOURLY PRODUCT					
Average push distance:	50 feet				
Unadjusted hourly	1,400.0 LC	Y/hr			
production:					
Materials consistency des	scription: Partly	consolidated	stockpile 1.1		
Average push	-10 %				
gradient:	10 /0				
Average site altitude:	4,930 feet	_			
Average site attitude.	T,230 ICCI				
-					
Material weight:	2,800 lbs/LCY				
Material weight:	2,800 lbs/LCY				
Material weight: Weight description:	2,800 lbs/LCY Clay - Natural bec	1			

Operator Skill:	0.750	(AVG.)
Material consistency:	1.100	(CAT HB)
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.225	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.821	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.5509

Adjusted unit production:
Adjusted fleet 771.26 LCY/hr

production: 1542.52 LCY/hr

JOB TIME AND COST

Fleet size: 2 Dozer(s)
Unit cost: \$0.307/LCY

Total job time: 73.12 Hours
Total job cost: \$34,568

TRUCK/LOADER TEAM WORK

-	el Pit	Perm	it Actio	n: 2021 Inspe	ection	Permit/Job#:	M1979166	;
PROJECT IDEN	NTIFICATION							
Task #: 03A			Colorad	0	Abl		None	
Date: 9/1/ User: RD2		County:]	Delta			Filename: N	M166-03A	
	r organization nar	ne: DRM	15					
Ç ,			15					
HOURLY EQUI	PMENT COST	_	_			sis: 1 per day		
-	Truck Loader Tea	m -Truck:		uipment Descr ric 12-18 cy, 6x				
	Truck Loader Tea	-Loader:		966H high lift	. 			
Supp	oort Equipment -L		NA					
Road N	-Dı Iaintenance –Moto	mp Area:	NA NA					
Road IV		ter Truck:	NA					
				~				
Cost Breakdown:	Truck/Loa Truck	der Team Loader	1	Support Load Area	Equipment Dump Area	Mainte Motor	nance Equipr Water Tr	
	Truck	Louder		Loud Theu	Bump / trea	Grader	***************************************	
Itilization-machine:	100		100	NA	NA	N/	A	NA
wnership cost/hour:	\$27.72	\$59	9.72	NA	NA	N/A	A	NA
perating cost/hour:	\$47.23	\$53	5.20	NA	NA	N/		N/
% Utilization-riper:	NA	¢.	0	NA NA	NA NA	NA NA		NA
per own. cost/hour:	NA NA		0.00	NA NA	NA NA	NA NA		NA NA
Operator cost/hour:	\$32.54		0.71	NA NA	NA NA	NA NA		NA
Unit Subtotals:	\$107.49	\$15:		NA	NA	N/A		NA
Number of Units:	2		1	0	0	()	(
Group Subtotals:	Work:	\$370.61		Support:	\$0.00	Maint	: \$0.00	
Total work team co	st/hour: \$370.61							
	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>							
MATERIAL QU	<u>ANTITIES</u>							
Initial volum	e: 6,722		CCY	Swell	factor: 1.060			
Loose volum	e: 7,12	5	LCY					
	ource of estimated	_			on, Mining & Sa	fety		
Source	e of estimated swe Material Purch		Cat Ha \$0.00	ndbook			.	
		tal Cost: _	\$0.00					
		_						
HOURLY PRO	<u>DUCTION</u>							
Truck Capacity:								
Truck Payload (we	ght) Basis: weight: 3,250			Pounds/LCY	7			
Matamal				TOUHUS/LC I				

Pounds

Rated Payload:

50,300

Payload Capacity: 15.48	Truck/Loader Worksheet Co	orksheet Cont'd Task # 03A				Page 2 of 3
Struck Volume: 12.00	Payload Capacity:	15.48	LCY			
Heaped Volume: 18.00	Truck Bed (volume) Basis:					
Average Volume: 15.00	Struck Volume:	12.00	LCY			
Adjusted Volume 15.48	Heaped Volume:	18.00	LCY			
Final Truck Volume Based on Number of Loader Passes: 13.13 LCY	Average Volume:	15.00	LCY			
Bucket Size Class: NA	Adjusted Volume:	15.48	LCY			
Rated Capacity: 5.000 LCY (heaped)	Final	Truck Volume	Based on Number of I	Loader Passes:	13.13	LCY
Rated Capacity: 5.000 LCY (heaped)	Loading Tool Canacity					
Rated Capacity: 5.000 LCY (heaped) Bucket Fill Factor: 0.875 Blasted rock - well blasted (80 - 95%) 0.875 Adjusted Capacity: 4.375 LCY Adjusted Capacity: 4.375 LCY	Loading 1001 Capacity			ъ 1	, C' C1 N	
Bucket Fill Factor: Adjusted Capacity: 4.375 LCY Adjusted Capacity: Adjusted Capacity:			1	Buci	ket Size Class: N	A
Adjusted Capacity: Author				11.1.1	0.50() 0.055	
Site Altitude (ft.): 4930 feet				vell blasted (80) - 95%) 0.875	
Altitude Adj: 1.000	Adjusted Capacity:	4.375	LCY			
Altitude Adj: 1.000						
Altitude Adj: 1.000 1.000 (CAT HB) Job Efficiency: 0.830 0.830 (CAT HB) Net Correction: 0.830 0.830 (CAT HB) Net Correction: 0.830 0.830 (CAT HB) Loading Tool Cycle Time: Number of Loading Tool Passes Required to Fill Truck: 3 Excavators and Front Shovels: Truck: Machine Cycle Time vs. Job Condition Rating: NA Selected Value within this Basic Rating: NA NA Track Loaders - Material Description: Cycle Time Elements (min.): Load: NA Maneuver: NA Dump: 0.100 Wheel and Track Loaders - Unadjusted Basic Loader Cycle Time (load, dump, maneuver): 0.500 minutes Material: Material: Material 6" and over diameter 0.03 0.030 (Cat HB) Stockpile: Dumped by truck 0.02 0.020 (Cat HB) Truck Ownership: Independently owned trucks 0.04 0.040 (Cat HB) Operation: Constant operation -0.04 -0.040 (Cat HB) Dump Target: Nominal target 0.00 Net Cycle Time Adjustment: 0.050 minutes minutes Adjusted Loader Cycle Time: 0.050 minutes minutes	Job Condition Correction	<u>s:</u>	Sit	te Altitude (ft.):	<u>4930</u> feet	
Net Correction: 0.830 0.830 (CAT HB)		Truck	Loader	Source	!	
Net Correction: Description: Description: Number of Loading Tool Passes Required to Fill Truck:	Altitude Adj:	1.000	1.000	(CAT H	B)	
Number of Loading Tool Passes Required to Fill 3	Job Efficiency:	0.830	0.830	(CAT H	B)	
Number of Loading Tool Passes Required to Fill 3	Net Correction:	0.830	0.830			
Excavators and Front Shovels: Machine Cycle Time vs. Job Condition Rating: Selected Value within this Basic Rating: Track Loaders – Material Description: Cycle Time Elements (min.): Load: NA Maneuver: NA Dump: 0.100 Wheel and Track Loaders - Unadjusted Basic Loader Cycle Time (load, dump, maneuver): Cycle Time Factors Cycle Time Factors Material: Material 6" and over diameter 0.03 0.030 (Cat HB) Stockpile: Dumped by truck 0.02 0.020 (Cat HB) Truck Ownership: Independently owned trucks 0.04 0.040 (Cat HB) Operation: Constant operation -0.04 0.040 (Cat HB) Dump Target: Nominal target 0.00 0.000 (Cat HB) Net Cycle Time Adjusted Loader Cycle Time: 0.050 minutes Adjusted Loader Cycle Time: 0.050 minutes minutes						
Machine Cycle Time vs. Job Condition Rating: NA Selected Value within this Basic Rating: NA NA	Loading Tool Cycle Time	<u>:</u>	Number of Loading T	ool Passes Req		3 passes
Selected Value within this Basic Rating: NA Track Loaders – Material Description: Cycle Time Elements (min.): Load: NA	Excavators and Front Shov	els:			Iruck:	
Track Loaders – Material Description: Cycle Time Elements (min.): Load: NA	Machine Cycle Time	vs. Job Conditio	n Rating: NA			
Cycle Time Elements (min.): Load: NA Maneuver: NA Dump: 0.100 Wheel and Track Loaders - Unadjusted Basic Loader Cycle Time (load, dump, maneuver): Cycle Time Factors Factors Factor (min.) Source Material: Material 6" and over diameter 0.03 0.030 (Cat HB) Stockpile: Dumped by truck 0.02 0.020 (Cat HB) Truck Ownership: Independently owned trucks 0.04 0.040 (Cat HB) Operation: Constant operation -0.04 -0.040 (Cat HB) Dump Target: Nominal target 0.00 0.000 (Cat HB) Net Cycle Time Adjustment: 0.050 minutes Adjusted Loader Cycle Time: 0.550 minutes	Selected Value	within this Basi	ic Rating: NA			
Cycle Time Elements (min.): Load: NA Maneuver: NA Dump: 0.100 Wheel and Track Loaders - Unadjusted Basic Loader Cycle Time (load, dump, maneuver): Cycle Time Factors Factors Factor (min.) Source Material: Material 6" and over diameter 0.03 0.030 (Cat HB) Stockpile: Dumped by truck 0.02 0.020 (Cat HB) Truck Ownership: Independently owned trucks 0.04 0.040 (Cat HB) Operation: Constant operation -0.04 -0.040 (Cat HB) Dump Target: Nominal target 0.00 0.000 (Cat HB) Net Cycle Time Adjustment: 0.050 minutes Adjusted Loader Cycle Time: 0.550 minutes	Track Loaders	– Material Desci	ription:			
Load:NAManeuver:NADump:0.100Wheel and Track Loaders - Unadjusted Basic Loader Cycle Time (load, dump, maneuver):0.500minutesCycle Time FactorsFactor (min.)SourceMaterial:Material 6" and over diameter 0.030.030(Cat HB)Stockpile:Dumped by truck 0.020.020(Cat HB)Truck Ownership:Independently owned trucks 0.040.040(Cat HB)Operation:Constant operation -0.04-0.040(Cat HB)Dump Target:Nominal target 0.000.000(Cat HB)Net Cycle Time Adjustment:0.050minutesAdjusted Loader Cycle Time:0.550minutes			•			
Wheel and Track Loaders - Unadjusted Basic Loader Cycle Time (load, dump, maneuver): Cycle Time Factors Factor Factor Material: Material 6" and over diameter 0.03 0.030 (Cat HB) Stockpile: Dumped by truck 0.02 0.020 (Cat HB) Truck Ownership: Independently owned trucks 0.04 0.040 (Cat HB) Operation: Constant operation -0.04 -0.040 (Cat HB) Dump Target: Nominal target 0.00 0.000 (Cat HB) Net Cycle Time Adjustment: 0.050 minutes Adjusted Loader Cycle Time: 0.550 minutes	Cycle Time Elements (IIIII.).				
Cycle Time Factors Factor (min.) Source Material: Material 6" and over diameter 0.03 0.030 (Cat HB) Stockpile: Dumped by truck 0.02 0.020 (Cat HB) Truck Ownership: Independently owned trucks 0.04 0.040 (Cat HB) Operation: Constant operation -0.04 -0.040 (Cat HB) Dump Target: Nominal target 0.00 0.000 (Cat HB) Net Cycle Time Adjustment: 0.050 minutes Adjusted Loader Cycle Time: 0.550 minutes	Load: NA	N	Ianeuver: NA		Dump: 0.100)
Material: Material 6" and over diameter 0.03 0.030 (Cat HB) Stockpile: Dumped by truck 0.02 0.020 (Cat HB) Truck Ownership: Independently owned trucks 0.04 0.040 (Cat HB) Operation: Constant operation -0.04 -0.040 (Cat HB) Dump Target: Nominal target 0.00 0.000 (Cat HB) Net Cycle Time Adjustment: 0.050 minutes Adjusted Loader Cycle Time: 0.550 minutes	Wheel and Tra	ck Loaders - Un	adjusted Basic Loader	•	- ()	.500 minutes
Material: Material 6" and over diameter 0.03 0.030 (Cat HB) Stockpile: Dumped by truck 0.02 0.020 (Cat HB) Truck Ownership: Independently owned trucks 0.04 0.040 (Cat HB) Operation: Constant operation -0.04 -0.040 (Cat HB) Dump Target: Nominal target 0.00 0.000 (Cat HB) Net Cycle Time Adjustment: 0.050 minutes Adjusted Loader Cycle Time: 0.550 minutes	Cycle Time Factors	3			Factor (min.)	Source
Stockpile: Dumped by truck 0.02 0.020 (Cat HB) Truck Ownership: Independently owned trucks 0.04 0.040 (Cat HB) Operation: Constant operation -0.04 -0.040 (Cat HB) Dump Target: Nominal target 0.00 0.000 (Cat HB) Net Cycle Time Adjustment: 0.050 minutes Adjusted Loader Cycle Time: 0.550 minutes	·		and over diameter 0.0	3	` '	
Truck Ownership: Independently owned trucks 0.04 0.040 (Cat HB) Operation: Constant operation -0.04 -0.040 (Cat HB) Dump Target: Nominal target 0.00 0.000 (Cat HB) Net Cycle Time Adjustment: 0.050 minutes Adjusted Loader Cycle Time: 0.550 minutes				<u>-</u>		
Operation:Constant operation -0.04-0.040(Cat HB)Dump Target:Nominal target 0.000.000(Cat HB)Net Cycle Time Adjustment:0.050minutesAdjusted Loader Cycle Time:0.550minutes						
Dump Target:Nominal target 0.000.000(Cat HB)Net Cycle Time Adjustment:0.050minutesAdjusted Loader Cycle Time:0.550minutes						· · · · · · · · · · · · · · · · · · ·
Net Cycle Time Adjustment: 0.050 minutes Adjusted Loader Cycle Time: 0.550 minutes	-					
Adjusted Loader Cycle Time: 0.550 minutes	1 5			e Adjustment:		
• • • • • • • • • • • • • • • • • • • •			•	•		
						—

TIUCK CYCIC TIME	Truck	Cycle	Time:
------------------	-------	-------	-------

Truck Exchange Time:	0.50	Minutes	Adjusted for site altitude:	0.500	Minutes
Truck Load Time:	1.200	Minutes	Adjusted for site altitude:	1.200	Minutes
Truck Maneuver and Dump	0.90	Minutes	Adjusted for site altitude:	0.900	Minutes

<u>Truck Travel (Haul & Return) Time:</u> Road Condition: <u>Soft, rutted dirt, no maintenance or water, 4" tire penetration 8.0</u>

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	200.00	-15.00	8.00	-7.00	2367	0.126
2	400.00	0.00	8.00	8.00	1381	-0.571

Haul Time: _______ minutes

Return Route:

11010111111101						
Seg#	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	400.00	0.00	8.00	8.00	2202	0.204
2	200.00	15.00	8.00	23.00	768	0.363

Return Time: 0.567 minutes
Total Truck Cycle Time: 2.722 minutes

Loading Tool unit

Production 463.24 LCY/Hour Adjusted for job efficiency: 384.49 LCY/Hour Truck Unit Production

289.31 LCY/Hour Adjusted for job efficiency: 240.13 LCY/Hour

Optimal No. of Trucks: 2 Truck(s) Selected Number of Trucks: 2 Truck(s)

Adjusted hourly truck team production: 480.25 LCY/Hour Adjusted single truck/loader team production: 384.49 LCY/Hour Adjusted multiple truck/loader team production: 384.49 LCY/Hour

JOB TIME AND COST

 Fleet size:
 1
 Team(s)
 Total job time:
 18.53
 Hours

 Unit cost:
 \$0.964
 /LCY
 Total job cost:
 \$6,868

BULLDOZER WORK

Task description:	Spreau grav	rel over process /	•		
Bennett's Gravel Pit		Permit Action:	2021 Inspection	Permit/Jo	b#: <u>M1979166</u>
PROJECT IDENTIFI	<u>CATION</u>				
Task #: 04A	Sta	ite: Colorado		Abbreviation:	None
Date: 9/1/2021	Coun	ty: Delta		Filename:	M166-04A
User: RDZ					
Agency or organ	ization name:	DRMS			
HOURLY EQUIPMEN	NT COST				
Basic Machine: Cat	D8T - 8SU				
Horsepower: 310			_		
V 1	ni-Universal		_		
Attachment: NA			-		
	er day		=		
Data Source: (CF	RG)		=		
Cost Breakdown:		1			
0		007.46	<u>Utilization %</u>		
Ownership Cost/Hour:		\$97.46	NA 100		
Operating Cost/Hour:		\$97.63	100		
Ripper own. Cost/Hour:		\$0.00	NA		
Ripper op. Cost/Hour:		\$0.00	0		
Operator Cost/Hour:		\$41.30	NA		
IATERIAL QUANTI Initial Volume: 6,72					
Swell factor: $\frac{0.72}{1.00}$					
	2 LCY				
Source of estimated volu			on, Mining & Safety		
Source of estimated swel	II Cat I	Handbook			
factor:					
TOTINI W PROPINCE	ION				
HOURLY PRODUCT	<u>10N</u>				
Average push distance:	100 fee	et			
Unadjusted hourly		LCY/hr			
production:					
•	-				
Materials consistency de	scription: Lo	ose stockpile 1.2			
Average push	0 %				
gradient:					
Average site altitude:	4,930 feet				
Matarial waights	2 850 lba/I C	v			
Material weight:	2,850 lbs/LC	1			
Weight description:	Gravel - Dry	(1/4""-2""diam.)			
ob Condition Correction I	Factor_		Source		

Operator Skill:	0.750	(AVG.)
Material consistency:	1.200	(CAT HB)
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.600	(FND-SF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.807	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3617

Adjusted unit production:
Adjusted fleet

308.39 LCY/hr

308.39 LCY/hr

JOB TIME AND COST

production:

Fleet size: 1 Dozer(s)

Unit cost: \$0.767/LCY

Total job time: 21.80 Hours

Total job cost: \$5,153

BULLDOZER WORK

		rimeter above water l		
Bennett's Gravel Pit	Permit Action:	2021 Inspection	Permit/Jol	o#: <u>M1979166</u>
PROJECT IDENTIFIC	<u>CATION</u>			
Task #: 05A Date: 9/1/2021 User: RDZ	State: Colorado County: Delta		Abbreviation: Filename:	None M166-05A
Agency or organ	ization name: DRMS			
HOURLY EQUIPMEN	NT COST			
Basic Machine: Cat	D8T - 8SU			
Horsepower: 310				
• • • • • • • • • • • • • • • • • • • •	ni-Universal			
Attachment: NA		_		
	er day	<u> </u>		
Data Source: (CR	(G)	_		
Cost Breakdown:	ı			
Oumarchia Cast/II	007.46	<u>Utilization %</u>		
Ownership Cost/Hour: Operating Cost/Hour:	\$97.46 \$97.63	NA 100		
Ripper own.				
Cost/Hour:	\$0.00	NA		
Ripper op. Cost/Hour:	\$0.00	0		
Operator Cost/Hour:	\$41.30	NA		
MATERIAL QUANTI Initial Volume: 2,899	5			
Swell factor: 1.000 Loose volume: 2,893	0 5 LCY			
Source of estimated volu	me: Division of Reclamati	ion, Mining & Safety		
Source of estimated swel	1 Cat Handbook			
factor:				
HOURLY PRODUCT	ION			
Average push distance: Unadjusted hourly	350 feet 233.3 LCY/hr			
production:	233.3 LC 1/III			
Production.	-			
Materials consistency des	scription: Loose stockpile 1.2			
Average push	-5 %			
gradient:				
Average site altitude:	4,930 feet			
Material weight:	1,600 lbs/LCY			
Weight description:	Top Soil			

Operator Skill:	0.750	(AVG.)
Material consistency:	1.200	(CAT HB)
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.115	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.9582

Adjusted unit production: 223.55 LCY/hr

Adjusted fleet production: 223.55 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$1.057/LCY

Total job time: 12.95 Hours
Total job cost: \$3,061

REVEGETATION WORK

	ennett's Gravel Pit	Per	mit Action: 202	Inspection		Permit/Job#	: <u>M1979166</u>
RO.	JECT IDENTIFICAT	ΓΙΟΝ					
	ask #: 06A	State:	Colorado		Ab	obreviation:	None
	Date: 9/1/2021 User: RDZ	_ ~	Delta		_		M166-06A
	Agency or organization	on nama: DR	MS				
	Agency of organization	on name. Dr	AVIS				
ER'	<u> FILIZING</u>						
atei	rials						
De	escription		Units / Acre	Unit	Cos	st / Unit	Cost /Acre
					\$		\$
					То	tal Fertilizer Materials Cost/Acre	\$0.00
De	escription						Cost /Acre
De	escription						Cost /Acre
De	escription		Tota	l Fertilizer	Applicatio	on Cost/Acre	
	escription ANG		Tota	l Fertilizer	Applicatio	on Cost/Acre	\$
(LI	<u>ING</u>		Tota	l Fertilizer	Applicatio	on Cost/Acre	\$
ILI De		IEANS 32 91 13		l Fertilizer	Application	on Cost/Acre	\$ \$0.00
ILI De	<u>JNG</u>	IEANS 32 91 13				on Cost/Acre	\$ \$0.00 Cost /Acre
De Di	<u>JNG</u>	IEANS 32 91 13					\$ \$0.00 Cost /Acre \$114.56
De Di	LING escription sc harrowing, 6" deep (M	IEANS 32 91 13			Rate – PLS LBS /		\$ \$0.00 Cost /Acre \$114.56
De Di	LING escription sc harrowing, 6" deep (M	IEANS 32 91 13			Rate – PLS LBS / Acre	Seeds per SQ. FT	\$0.00 Cost /Acre \$114.56 \$114.56
De Di	ING escription sc harrowing, 6" deep (M DING ed Mix kali Sacaton	IEANS 32 91 13			Rate – PLS LBS / Acre	Seeds per SQ. FT	\$0.00 Cost /Acre \$114.56 \$114.56 Cost /Acre
Di See	LING escription sc harrowing, 6" deep (M DING ed Mix kali Sacaton nd Dropseed				Rate – PLS LBS / Acre 0.50 0.20	Seeds per SQ. FT 19.51 23.88	\$0.00 Cost /Acre \$114.56 \$114.56 Cost /Acre \$14.24 \$1.95
De Di See Al Saa Cr	ING escription sc harrowing, 6" deep (M DING ed Mix kali Sacaton				Rate – PLS LBS / Acre	Seeds per SQ. FT	\$0.00 Cost /Acre \$114.56 \$114.56 Cost /Acre

Description

Cost /Acre

Drill Seeding (DRMS Survey Cost)		\$232.00
	Total Seed Application Cost/Acre	\$232.00

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre 1.00	Unit	Cost / Unit	Cost /Acre
Total Mulch Materials Cost/Acre	1.00		ψ0.00	\$0.00

Application

Description		Cost /Acre
Weed spray, truck, 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	
					\$	
	\$0.00					

JOB TIME AND COST

No. of Acres: 3 Constituted Failure Rate: *Selected Replanting Work Items: 25% Constitution Cons Cost /Acre: \$450.14 Cost /Acre*: \$450.14

Initial Job Cost: **\$1,350.42** Reseeding Job Cost: \$337.61 Total Job Cost: **\$1,688** Job Hours: **8.00**

REVEGETATION WORK

Bennett's Gravei Pit	ett's Gravel Pit Permit Action: 2021 Inspection Permit/Job#					#: <u>M1979166</u>
Task #: 07A Date: 9/1/2021	State:	Colorado		Ab	obreviation:	None M166-07A
Date: 9/1/2021 User: RDZ	County:	Delta			Filename:	M1100-U/A
Agency or organization	ation name: DR	RMS				
ERTILIZING						
aterials		Units /				
Description		Acre	Unit	Cos	st / Unit	Cost /Acre
				\$		\$
				To	tal Fertilizer Materials Cost/Acre	\$0.00
						\$
		Total	l Fertilizer	Application	on Cost/Acre	\$0.00
LLING		Total	l Fertilizer	Application	on Cost/Acre	
		Total	l Fertilizer	Application	on Cost/Acre	\$0.00
LLING Description Disc harrowing, 6" deep	(MEANS 32 91 13		l Fertilizer	Application	on Cost/Acre	
Description	(MEANS 32 91 13				on Cost/Acre	\$0.00 Cost /Acre
Description Disc harrowing, 6" deep	(MEANS 32 91 13					\$0.00 Cost /Acre \$114.56
Description Disc harrowing, 6" deep CEDING	(MEANS 32 91 13			Fotal Tillin	ng Cost/Acre	\$0.00 Cost /Acre \$114.56 \$114.56
Description Disc harrowing, 6" deep	(MEANS 32 91 13			Fotal Tillin Rate – PLS	Seeds	\$0.00 Cost /Acre \$114.56
Description Disc harrowing, 6" deep	(MEANS 32 91 13			Rate – PLS LBS /	ng Cost/Acre	\$0.00 Cost /Acre \$114.56 \$114.56
Description Disc harrowing, 6" deep EEDING	(MEANS 32 91 13			Fotal Tillin Rate – PLS	Seeds	\$0.00 Cost /Acre \$114.56 \$114.56 Cost /Acre \$2.36
Description Disc harrowing, 6" deep EEDING Seed Mix				Rate – PLS LBS / Acre	Seeds per SQ. FT	\$0.00 Cost /Acre \$114.56 \$114.56 Cost /Acre
Description Disc harrowing, 6" deep EEDING Seed Mix Red Top		3.23 6100)		Rate – PLS LBS / Acre 0.30	Seeds per SQ. FT	\$0.00 Cost /Acre \$114.56 \$114.56 Cost /Acre \$2.36
Description Disc harrowing, 6" deep EEDING Seed Mix Red Top Reed Canarygrass - VNS		3.23 6100)	,	Rate – PLS LBS / Acre 0.30 5.30	Seeds per SQ. FT 34.37 61.57	\$0.00 Cost /Acre \$114.56 \$114.56 Cost /Acre \$2.36 \$26.24
Description Disc harrowing, 6" deep EEDING Seed Mix Red Top		3.23 6100)	,	Rate – PLS LBS / Acre 0.30 5.30	Seeds per SQ. FT 34.37 61.57	\$0.00 Cost /Acre \$114.56 \$114.56 Cost /Acre \$2.36 \$26.24

Total Seed Application Cost/Acre	\$267.22

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre 1.00	Unit	Cost / Unit	Cost /Acre
Total Mulch Materials Cost/Acre	1.00		ψ0.00	\$0.00

Application

Description	Cost /Acre
Weed spray, hand, aquatic area, nox. [DMG]	\$183.16
Total Mulch Application Cost/Acre	\$183.16

NURSERY STOCK PLANTING

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

JOB TIME AND COST

 No. of Acres:
 0.75
 Cost /Acre:
 \$593.54

 Estimated Failure Rate:
 0%
 Cost /Acre*:
 \$593.54

*Selected Replanting Work Items: TILLING, SEEDING, MULCHING

Initial Job Cost: \$445.16

Reseeding Job Cost: 50.00

Total Job Cost: Job Hours: 4.00

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description: Mo	bilization				
e: Bennett's Gravel Pit	Permit	Action: 2021	Inspection	Permit/Job	b#: <u>M1979166</u>
PROJECT IDENTIFICATI	<u>ION</u>				
Task #: 08A Date: 9/1/2021		olorado elta	A	bbreviation: Filename:	None M166-08A
User: RDZ		<u> </u>		T Homanic.	111100 0011
Agency or organization	n name: DRMS	S			
<u>EQUIPMENT TRANSPOR</u>	T RIG COST		Shif Cost Data S		1 per day CRG Data
Truck Tractor Desc	eription: GENI	ERIC ON-HIGHV	VAY TRUCK TRAC 400 HP (2ND HA		DIESEL POWERED,
Truck Trailer Desc	eription:		ING GOOSENECK RAILER (25T, 50T		-
Cost Breakdown:					
Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons	_	
Ownership Cost/Hour:	\$21.28	\$37.94	\$47.67	_	
Operating Cost/Hour:	\$26.55	\$50.48	\$56.21	=	
Operator Cost/Hours	\$20.54	\$20.54	\$20.54		

NON ROADABLE EQUIPMENT:

Total Unit Cost/Hour:

Helper Cost/Hour:

\$0.00

\$68.37

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 D8T - 8SU	47.71	\$97.46	\$132.49	2	\$459.90	\$264.98	\$500.00
CAT 966H	25.80	\$59.72	\$68.37	1	\$128.09	\$68.37	\$250.00
Centrifugal pump -	1.95	\$18.13	\$68.37	2	\$173.00	\$136.74	\$500.00
200M, 10 in.							
Drill/Broadcast	25.00	\$7.98	\$68.37	1	\$76.35	\$68.37	\$250.00
Seeder with							
Tractor							

\$23.53

\$132.49

\$23.53

\$147.95

Subtotals: \$837.34 \$538.46 \$1,500.00

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.	\$12.93	1	\$12.93	\$12.93

Subtotals:	\$12.93	\$12.93

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:

Total one-way travel distance:

Average Travel Speed:

DELTA

miles

4.00

mph

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.10	0.10
Return Time (Hours):	0.10	0.10
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.20	0.20

JOB TIME AND COST

Total job cost: 2.40 Hours

Total job cost: \$4,952