

Girardi - DNR, Chris <chris.girardi@state.co.us>

North River Pit- August 2025 Inspection Report

1 message

Girardi - DNR, Chris <chris.girardi@state.co.us>

Mon, Sep 8, 2025 at 9:12 AM

To: "Weimer, Sara (APC Construction)" <shaggstrom@apc.us.com>, PFM Consulting <pfmconsultingcompany@gmail.com> Cc: Jared Ebert - DNR <jared.ebert@state.co.us>

Good morning,

Attached to this email is a pdf of the Division's Inspection Report for the inspection conducted on August 26th, 2025 in response to a Succession of Operator request submitted by Oldcastle SW Group, Inc..

Also attached to this email is a pdf of the Division's Reclamation Cost Estimate. If you have any questions or comments regarding the cost estimate, please let me know.

Hard copies will not be sent unless requested.

Sincerely,

Chris Girardi

Environmental Protection Specialist



P: (720) 793-3041

Physical: 1313 Sherman Street, Room 215, Denver, CO 80203

Mailing: DRMS Room 215, 1001 E 62nd Ave, Denver, CO 80216

chris.girardi@state.co.us | https://drms.colorado.gov/

2 attachments



NorthRiverPit_InspectionReport_August2025_SO1_M1999005.pdf 5004K





MINE NAME.

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.

MINERAL

COUNTY.

MINE/PROSPECTING ID#.

MIINE NAME:		MIINE/FROSFECTING ID#;	WIINERAL:	COUNTY
North River Pit		M-1999-005	Sand and gravel	Otero
INSPECTION TYPE:		WEATHER: Cloudy	INSP. DATE:	INSP. TIME:
Monitoring		-	August 26, 2025	11:30am
OPERATOR:		OPERATOR REPRESENTATIVE:	TYPE OF OPERA	TION:
All-Rite Paving & Redi-Mix, Inc.		Jodi Schreiber	112c - Construction	Regular Operation
REASON FOR INSPECTION:		BOND CALCULATION TYPE:	BOND AMOUNT:	
Succession of Operator Request		Complete Bond	\$639,008.00	
DATE OF COMPLAINT:		POST INSP. CONTACTS:	JOINT INSP. AGE	NCY:
NA		None	None	
INSPECTOR(S):	INSPE	CTOR'S SIGNATURE:	SIGNATURE DAT	E:
Chris Girardi	Ch	nir Diradi	September 8, 2025	
			1	

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: Acid And Toxic Materials

PROBLEM: A fuel spill has occurred at the site which has impacted soils, surface water or groundwater.

CORRECTIVE ACTIONS: The Operator shall immediately remediate the spill and submit a final report to the Division containing at least the following information:

- 1.) A description of how the spill was cleaned up containing at a minimum the appropriate maps, volumes removed, sample locations, analytical data, and photo documentation.
- 2.) Evidence in the form of a receipt that the contaminated soil was disposed of by an approved method (such as sent to an approved landfill, land farming, recycling center, etc.).

CORRECTIVE ACTION DUE DATE: 10/8/25

INSPECTION TOPIC: Hydrologic Balance

PROBLEM: The Operator's substitute water supply plan for the exposed groundwater was valid through March 31, 2025. The Division has not received evidence that the plan was renewed. 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 demonstrate compliance with the Office of the State Engineer (SEO) by submitting documentation indicating that the substitute water supply plan has been renewed.

CORRECTIVE ACTION DUE DATE: 10/8/25

PERMIT #: M-1999-005 INSPECTOR'S INITIALS: CMG INSPECTION DATE: August 26, 2025

INSPECTION TOPIC: Revegetation

PROBLEM: Tamarisk (salt cedar) trees are present within or have volunteered into the permit area and are becoming established. This is a problem for failure to employ weed control methods for a 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: The Operator shall implement the approved Weed Control Plan and provide proof to the Division this has been completed. The Division approved a Technical Revision (TR-3) on 2/6/2020, which was a Weed Control Plan. According to the approved plan, if weeds have been identified, the Operator is required to mechanically remove Tamarisk and burn onsite, followed by application of herbicide approved by the Otero County Extension Agent. Please provide a written response to the Division that identifies a timeline for implementation of the approved Weed Control Plan submitted via TR-3.

CORRECTIVE ACTION DUE DATE: 10/8/25

OBSERVATIONS

The North River Pit permit was inspected on August 26, 2025, by Chris Girardi and with the Division of Reclamation, Mining, and Safety ("DRMS" or "Division") in response to a Succession of Operator (SO) application submitted by Oldcastle SW Group, Inc. (Applicant) to transfer the permit from All-Rite Paving & Redi-Mix, Inc. (Operator). The site was last inspected on January 28, 2020. Sara Weimer represented the Applicant during the inspection. Jodi Schreiber represented the Operator during the inspection. The weather was cloudy and cool.

The North River Pit is a 112c sand and gravel wet mining operation with a permitted acreage of 275.50 acres and an affected area of approximately 48 acres. The site is located approximately 2 miles northeast of La Junta, CO. The current land surrounding the site is industrial and the approved post-mining land use is rangeland on the south side and wildlife habitat on the north side.

A mine identification sign was located at the entrance to the site in compliance with Rule 3.1.12 (see Photo 1). Access to the primary mining area is via a dirt road, which contains a scale house (see Photo 2). T-post permit boundary markers were observed and appear to be in compliance.

General Compliance With Mine Plan:

The site is located along the Arkansas River, with the river bisecting the permit area into a North Area and a South Area. Dominant vegetation observed includes Blue grama, Little barley, Cottonwood trees, sunflowers, Kochia, and Salt cedar (see Photos 14-15). The current affected area is approximately 48 acres, with the North Area having disturbed 29 acres, while the South Area has 18 acres of disturbance. The mining plan is a phased approach with a total of 5 distinct phase acres within the North Area. Mining has only been conducted in the Phase 1 and 2 area, as well as the disturbance in the South Side Area.

The Operator is approved to conduct wet mining into the water table in the North Area, as excavations have created two groundwater ponds (see Photos 3-4, Figure 1). The approved reclamation includes leaving unlined, open groundwater ponds in the North Area, to which the Operator has been bonded by the DRMS for backfilling of the current open groundwater ponds. Advancement into the subsequent mining phases will create additional exposed groundwater ponds. The groundwater pond shorelines have been mined to gentle slopes of less than 3H:1V configuration (see Photo 3). The larger pond also contains a floating pump station for dewatering (see Photo 3). Along the southeast shoreline of the groundwater pond, a significant amount of imported material has been placed, predominantly recycled concrete, asphalt, rock slabs, and bricks (see Photo 4). All material observed appears to be inert material, as the Operator was approved to import clean, inert material from outside the permit via a Technical Revision (TR-2).

The North Area also contained several stockpiles of material (see Photos 5, 8-9). The operation was inactive at the time of the inspection. According to the Operator, the groundwater pond hasn't been mined for several years, as they only conduct processing of aggregate using the wash plant. The equipment observed includes a dragline, a wash plant, conveyers, a grizzly screener, and a wheel loader (see Photos 5-10). Within this area, the DRMS observed an empty fuel tank that displayed evidence of leaked fuel oil within and near the horse trough (see Photos 9-10). The soil observed exhibited hydrocarbon staining and odor. This has been cited as a problem. The DRMS requests that the Operator remediate the spill and document how the spill was cleaned up, including maps, volumes, photo documentation, as well as evidence in the form of a receipt that the

contaminated soil was disposed of by an approved method. The North Area also contained a laydown area with old equipment and materials, including conveyers, an old cane, a few tires, and several empty barrels that showed no evidence of spills (see Photos 11-13).

The South Area has not been disturbed in several years and was not observed during this inspection due to difficulty gaining access. Wet mining is not conducted in this area. Historical Google Earth Imagery indicates this area has not been mined for at least 10 years, as the Operator previously mined several highwall areas.

In order to conduct wet mining into the groundwater table and remain in compliance with the Office of the State Engineer (SEO), the Operator has maintained a Substitute Water Supply Plan to account for evaporative loss of groundwater. The 2024 Substitute Water Supply Plan accounted for 7.24 acres of exposed groundwater. As previously stated in this report, the Operator maintains a reclamation bond that accounts for the backfilling of the exposed groundwater ponds. However, the Operator's substitute water supply plan was valid through March 31, 2025. The Division has not received documentation indicating that the plan was renewed. This is cited as 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. The Operator shall demonstrate compliance with the Office of the State Engineer (SEO) by submitting documentation that the substitute water supply plan has been renewed.

The Division observed a significant amount of Salt Cedar trees along the north side of the Arkansas River, as well as sporadic patches within the undisturbed area on the north side (see Photos 14-15). This has been cited as a problem. In accordance with Rule 3.1.10(6) of the Construction Materials Rules and Regulations governing weed control, the DRMS will require the Operator to initiate the weed control plan approved in TR-3 to control the current infestation.

Financial Warranty:

The Division currently holds a reclamation bond in the amount of \$431,039. for this operation. The Division has estimated the reclamation liability at the site and found it to be \$639,008. This is an increase of \$207,969 from the bond currently held. The Applicant will be required to post a financial warranty in the amount of \$639,008 in order to complete the permit transfer. If the Applicant elects not to complete the permit transfer, then a Surety Increase will be submitted by the Division and the Operator will have 60 days from the date of the notice to submit and obtain acceptance of the increase in financial warranty from the Division in accordance with Rule 4.2.1(2).

This concludes the Division's inspection report; a subset of photos was taken during the time of the inspection are included below. If you need additional information or have any questions, please contact me at the Division of Reclamation, Mining, and Safety, 1313 Sherman Street, Room 215, Denver, CO 80203, by telephone at (720) 793-3041 or by email at chris.girardi@state.co.us.

PHOTOGRAPHS



Photo 1: Mine entrance sign, facing south.

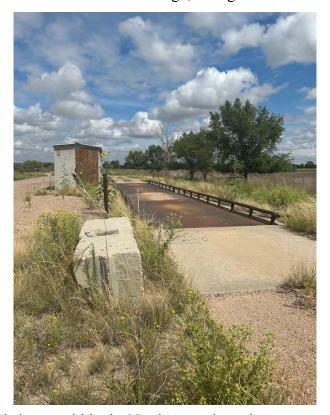


Photo 2: Scale house within the North Area along the access road, facing north.



Photo 3: View of the open groundwater pond within the North Area, including the floating pump station and a pile of imported concrete material, facing northeast.



Photo 4: View along the groundwater pond of the concrete and other inert material imported from outside the permit area, facing east.



Photo 5: View of the dragline and stockpiles with the North Area, facing south.



Photo 6: View of a CAT 950G wheel loader with the North Area.



Photo 7: View of a Grizzley screener and conveyers, facing west.



Photo 8: View of the wash plant and material stockpiles with the North Area adjacent to the west of the groundwater pond, facing west.



Photo 9: View of a porta potty, rusty structure, and a storage tank, facing northeast.



Photo 10: View of a storage tank within a horse trough, with observed hydrocarbon staining and odor, facing west.



Photo 11: View of old mining equipment and conveyers within the North Area near the northwest permit boundary, facing east.



Photo 12: Old mining equipment, conveyers, and tires within the North Area, facing south.



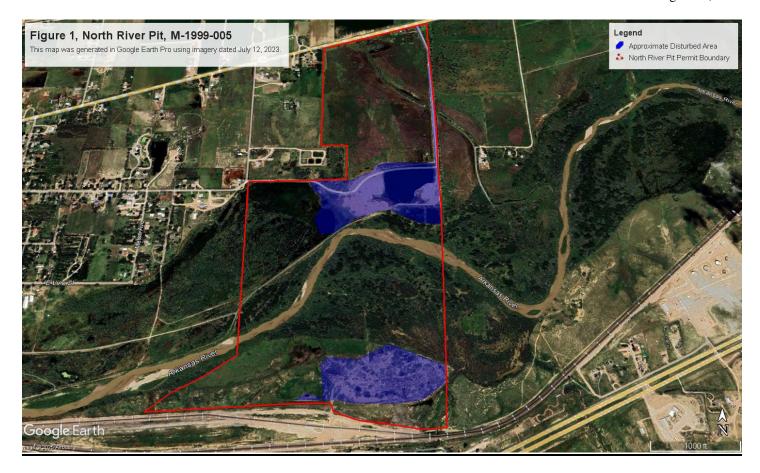
Photo 13: View of old mining equipment and empty plastic barrels, facing east.



Photo 14: View of Salt cedar adjacent to the south of the groundwater pond within the North Area, facing south.



Photo 15: View of Salt cedar and Kochia adjacent to the south of the groundwater pond within the North Area, facing south.



PERMIT #: M-1999-005 INSPECTOR'S INITIALS: CMG INSPECTION DATE: August 26, 2025

GENERAL INSPECTION TOPICS

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

(AR) RECORDS <u>N</u>	(FN) FINANCIAL WARRANTY <u>Y</u>	(RD) ROADS <u>N</u>
(HB) HYDROLOGIC BALANCE <u>PB</u>	(BG) BACKFILL & GRADING <u>N</u>	(EX) EXPLOSIVES <u>N</u>
(PW) PROCESSING WASTE/TAILING <u>N</u>	(SF) PROCESSING FACILITIES \underline{Y}	(TS) TOPSOIL <u>Y</u>
(MP) GENL MINE PLAN COMPLIANCE- <u>Y</u>	(FW) FISH & WILDLIFE <u>Y</u>	(RV) REVEGETATION PB
(SM) SIGNS AND MARKERS <u>Y</u>	(SP) STORM WATER MGT PLAN N	(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 PB	(OD) OFF-SITE DAMAGE <u>N</u>	

Inspection Contact Address

Jodi Schreiber All-Rite Paving & Redi-Mix, Inc. P.O. Box 165 Canon City, CO 81215

Enclosure: DRMS Reclamation Cost Estimate

CC:

Jared Ebert, DRMS Sara Weimer, Oldcastle SW Group, Inc.

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

COST SUMMARY WORK

e: _	North Riv	ver Pit	Permit Action:	_2025 Bond Upo	date	Permit/Job#:	M19990	005
PR	OJECT II	DENTIFICATION	<u>N</u>					
Т	ask #:	000	State:	Colorado		Abbrevi	ation:	None
Γ	ate:	9/8/2025	County:	Otero		Filenam		M1999005
U	ser:	CMG						
		organization name:		MS				
				Form	Fleet	Task		
ask	Descrip	tion		Used	Size	Hours	Cost	
)1		ol of scale		DEMOLISH	1	8.00	\$2,025	
2	Grade h	ighwalls to 3H:1V	in South Side Area	DOZER	1	9.07	\$2,974	
3	Backfill	7.42 acres of expo	sed groundwater	SCRAPER1	2	93.18	\$340,745	
4	Replace	topsoil on 29 acres	s (N Side)	SCRAPER1	1	43.09	\$67,463	
5		topsoil on 18 acres		SCRAPER1] 1	13.86	\$21,706	
6		tate 29 acres (North		REVEGE	1	29.00	\$25,452	
7		tate 18 acres (South		REVEGE	1	18.00	\$15,798	
3	Mobiliza	ation/Demobilizati	on	MOBILIZE	1	8.24	\$33,336	
	SUBTO	OTALS:				222.44	\$509,499	
	DIRECT (COSTS				222.44	\$509,499	
OV	DIRECT O	COSTS AND PROFIT:						210.000
OV L	DIRECT (ERHEAD	COSTS AND PROFIT: urance:	2.02			Total =		\$10,292 \$5,250
OV L P	DIRECT (ERHEAD iability insection	AND PROFIT: urance: bond:	1.05			Total = Total =		\$5,350
OV L P Jo	DIRECT (ERHEAD iability insertormance bb superint	AND PROFIT: urance: bond:	1.05 111.22			Total = Total = Total =		\$5,350 \$8,356
OV L P Jo	DIRECT (ERHEAD iability insection	AND PROFIT: urance: bond:	1.05		TOTAL	Total = Total = Total = Total =		\$5,350
OV L P Jo	DIRECT (ERHEAD iability insertormance bb superint	AND PROFIT: urance: bond:	1.05 111.22 10.00	AMOUNT (direct + O		Total = Total = Total = Total =		\$5,350 \$8,356 \$50,950
OV L P Jo	ERHEAD iability insignation of the control of the c	AND PROFIT: urance: bond: endent:	1.05 111.22 10.00	•		Total = Total = Total = Total =		\$5,350 \$8,356 \$50,950 \$74,947
OV L P Jo P	DIRECT (ERHEAD iability insterformance ob superinterofit:	COSTS AND PROFIT: urance: e bond: endent: GINEERING - PRO	1.05 111.22 10.00 CONTRACT A	ENT:		Total = Total = Total = Total = O & P =		\$5,350 \$8,356 \$50,950 \$74,947 \$584,446
OV L P Jo P	DIRECT (ERHEAD iability insterformance ob superinterofit: GAL - ENG	AND PROFIT: urance: e bond: endent: GINEERING - PRO	1.05 111.22 10.00 CONTRACT A OJECT MANAGEMI (legal/related costs):	•		Total = Total = Total = Total =	1=	\$5,350 \$8,356 \$50,950 \$74,947
DV L P Jo P LE	DIRECT (ERHEAD iability insterformance ob superinterofit: GAL - ENG inancial wangineering	AND PROFIT: urance: e bond: endent: GINEERING - PRO	1.05 111.22 10.00 CONTRACT A OJECT MANAGEMI (legal/related costs): act/bid preparation:	ENT:\$500		Total = Total = Total = Total = O & P =	l =	\$5,350 \$8,356 \$50,950 \$74,947 \$584,446
OV LE PP JJ PP	DIRECT (ERHEAD iability insterformance ob superinterofit: GAL - ENG inancial wangineering	AND PROFIT: urance: e bond: endent: GINEERING - PRO arranty processing (work and/or contra	1.05 111.22 10.00 CONTRACT A OJECT MANAGEMI (legal/related costs): act/bid preparation:	\$500 4.25		Total = Total = Total = Total = O & P =	1 = 1 = 1 = 1 = 1	\$5,350 \$8,356 \$50,950 \$74,947 \$584,446 \$500 \$24,839
OV LE P Jo P	ERHEAD iability insignation in the control of the c	AND PROFIT: urance: e bond: endent: GINEERING - PRO arranty processing (work and/or contra	1.05 111.22 10.00 CONTRACT A OJECT MANAGEMI (legal/related costs): act/bid preparation:	\$500 4.25 5.00		Total = Total = Total = Total = Total = O & P = Tota		\$5,350 \$8,356 \$50,950 \$74,947 \$584,446 \$500 \$24,839 \$29,222

DEMOLITION WORK

	Task description:	Remov	al of scale					
Site:	North River Pit		Permit Action:	2025 Bond Update	Permit/J	ob#:	M1999005	
<u>PROJE</u>	CT IDENTIFICATION							
Task # Date: User:	9/8/2025 CMG	State: County:	Colorado Otero		oreviation: name:	Non M19	ne 999005	<u> </u>
Agenc	y or organization name:		DRMS					_

UNIT COSTS Location adjustment: 88.00 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Scale	92' x 10' x 3'	Plant (1C) demo./on-site disposal in existing pit or cut - Max. 200 ft. push	2,760.00	CF	\$0.74	\$2,055.92
Scale House	17' x 11 'x 10'	Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 200 ft. push	1,040.00	CF	\$0.24	\$244.92

Subtotal Cost (adjusted for Job Hours: 8.00 (unadjusted): \$2,300.84 location): \$2,024.74

BULLDOZER WORK

Task description:	Gra	ide highwa	lls to 3H:1V	in South Side Area		
North River Pit		Permi	t Action:	2025 Bond Update	Permit/Job#:	M1999005
ROJECT IDENTII	FICATION	<u>I</u>				
Task #: 002 Date: 9/8/202	25	State: County:	Colorado Otero		Abbreviation: Filename:	None M1999005
User: CMG		county.			1111111111111	1.11999000
Agency or organizat	ion name:	_I	ORMS			
OURLY EQUIPM	ENT COS	<u>r</u>				
Basic Machine: Horsepower: Blade Type:	Cat D8T - 310 Semi-Univ			_ _ _		
Attachment: Shift Basis:	NA 1 par day			<u> </u>		
Data Source:	1 per day (CRG)			<u> </u>		
Cost Breakdown:				TT: '' 0/		
Ownership Cost/Hor	ur: \$179	0.60		<u>Utilization %</u> NA		
Operating Cost/Hou				100		
Ripper own. Cost/Hour:	\$0.00	0		NA		
Ripper op. Cost/Hou				0		
Operator Cost/Hour	\$38.0	02		NA		
Total unit Cost/Hour						
Total Fleet Cost/Hor	ur: \$328	.07				
MATERIAL QUAN	<u>TITIES</u>					
Initial Volume:	4,625					
	1.250					
Loose volume:	5,781 LCY					
Source of estimated	volume	2 220 f	t total I v 15 t	t H, from 1H:1V= 4,6	25 CV	
Source of estimated factor:		Cat Hai			23 C 1	
HOURLY PRODUC	TION					
Average push distan Unadjusted hourly production:	ce:	50 feet 1,400.0 L	CY/hr			
Materials consistence description:	гу	Comp	pacted fill or e	embankment 0.9		
Average push gradient:	-5 %					
Average site altitude	e: 4,040) feet				
Material weight:	2 651) lbs/LCY				

Weight description:	Decomposed rock - 25% Rock, 75% Earth

Job Condition Correction Fa-	ctor Source		
Operator Skill:	0.750	(AVG.)	
Material consistency:	0.900	(CAT HB))	
Dozing method:	1.200	(SLOT)	
Visibility:	1.000	(AVG.)	
Job efficiency:	0.830	(1 SHIFT/DAY)	
Spoil pile:	0.700	(FND-MF)	
Push gradient:	1.115	(CAT HB)	
Altitude:	1.000	(CAT HB)	
Material Weight:	0.868	(CAT HB)	
Blade type:	1.000	(PAT)	
Net correction:	0.4555		
Adjusted unit production:	637.70 LCY/hr 637.7 LCY/hr		
Adjusted fleet production:			

JOB TIME AND COST

1 Dozer(s)
\$0.514/LCY
9.07 Hours
\$2,974

SCRAPER TEAM WORK

	Task description:	Backfill 7	Backfill 7.42 acres of exposed groundwater							
Site: North River Pit		I	Permit Action:		2025 Bond Update		Permit/Job#:		M1999005	
<u>]</u>	PROJECT IDENTII	FICATION								
	Task #: 003	State	: <u> </u>	Colorad	0	Abbrev	iation:	None		
	Date: 9/8/20 User: CMG	25 Coun	ity:	Otero		Filenan	ne:	M1999	005	
	User: CMG									
	Agency or organizat	tion name:	DRM	1S						
<u>]</u>	HOURLY EQUIPM	ENT CO	STShift b	oasis: 1	per day					
=	Equipment D	Description								
	-Scraper:			Cat 63						
=	-Dozer: Support Equipment	-Load Area:		NA	8T - 8SU					
=	-Dump Area:			NA						
	Road Maintenance -	-Motor Grader:		CAT		1				
=	-Water Truck:			water	Tanker, 2,500 Ga	11.				
(Cost Breakdown:	Scraper Wo	rk Team	Su	pport Equipment	Mainte	nance Equip	ment		
		Scraper	Dozer		Load Area	Dump Area	Motor	Grader	Water Truck	
%Utilizati	on-machine:	100	100		NA	NA	25		25	
Ownership	o cost/hour:	\$462.75	\$179.60	0	NA	NA	\$101.8	8	\$12.20	
Operating	cost/hour:	\$260.25	\$110.43	5	NA	NA	\$18.29		\$5.37	
%Utilizati		NA	NA		NA	NA	NA		NA	
	n. cost/hour:	NA	\$0.00		NA	NA	\$0.00		\$0.00	
	. cost/hour:	NA	\$0.00		NA	NA	\$0.00		\$0.00	
Operator o		\$59.78	\$38.02		NA	NA	\$60.00		\$0.00	
Unit Subto		\$782.78	\$328.07	7	NA	NA	\$180.1	7	\$17.57	
Number o		4	1	10	0	0	1		1	
Group Sul	ototals:	Work:	\$3,459.	.19	Support:	\$0.00	Maint:		\$197.74	
7	Γotal work team cost/	hour: \$3,656.93								
<u>1</u>	MATERIAL QUAN	<u>TITIES</u>								
	Initial volume:	214,557		CCY	Swell factor:	1.125				
	Loose volume:	241,377		LCY	Swell lactor.					
	Source of estimated		_		x avg 25' deep (u	ın-augmented)	1			
	Source of estimated	swell factor:	_	Cat Ha	ndbook					
]	HOURLY PRODUC	<u>CTION</u>								
	Scraper Bow	<u>d (volume) Basis:</u>								
N	Material weight:	2,650 lbs/LCY			Struck Volu	ume: 24	.00	L	CY	
	Material description:	Decomposed ro	ck - 25%	Rock,	Heaped Vo	lume: 34	.00	L	CY	
R	ated Payload:	75% Earth 81,600 pounds			Average Vo	olume: 20	0.00	т	CY	
10					11. cruge VV					

•	apacity: _	30.79 LCY			Adjusted Cap	pacity: 29.	00 LCY
ycle Tim	ne:						
	Loading Time er and Spread				0.80 Minutes 0.70 Minutes		
	ition Correcti		titude: 404	_	<u> </u>		
		Scrape	er	Push Dozer	Source		
Altitude Job Effic		1.000 0.830		1.000 0.830	(CAT E		
Net Com	rection:	0.830		0.830			
avel Tir	me:						
		on: <u>Hard, s</u>	smooth, sta	bilized, surfaced	d, watered, mai	ntained 2.0	
ul Rout Seg #	te: Haul Dist	ance (Ft)	Grade	Roll. Res	Total Res	Velocity	Travel Time
λς "	Tradi Dist	ance (1 t)	(%)	(%)	(%)	(fpm)	(min)
	350.00		1.00	2.00	3.00	2227	0.45
							<u>.</u>
· D				Haul '	Time:	0.45	minutes
	oute: Haul Dist	ance (Ft)	Grade	Haul	Time:	0.45 Velocity	
	Haul Dist	ance (Ft)	(%)	Roll. Res	Total Res	Velocity (fpm)	Travel Time
Seg#		ance (Ft)		Roll. Res	Total Res	Velocity	Travel Time
Seg#	Haul Dist	ance (Ft)	(%)	Roll. Res (%) 2.00	Total Res	Velocity (fpm)	Travel Time
Seg#	Haul Dist		(%) -1.00	Roll. Res (%) 2.00	Total Res (%) 1.00	Velocity (fpm) 2937	Travel Time (min)
Seg # Total S Adjust	Haul Dist 350.00 Scraper team ted for job con	cycle time:	(%) -1.00	Roll. Res (%) 2.00	Total Res (%) 1.00	Velocity (fpm) 2937 0.28 2.23 647.62	Travel Time (min) 0.28 minutes minutes LCY/Hour
Total S Adjust Selecte	Haul Dist 350.00 Scraper team ted for job cored Number of	cycle time: nditions: f Scrapers:	(%) -1.00	Roll. Res (%) 2.00	Total Res (%) 1.00	Velocity (fpm) 2937 0.28 2.23 647.62	minutes LCY/Hour Scraper(s)
Total S Adjust Selecte Adjust	Scraper team ted for job cored Number of ted single scra	cycle time: nditions: f Scrapers: aper team ((%) -1.00	Roll. Res (%) 2.00 Return y production:	Total Res (%) 1.00 n Time:	Velocity (fpm) 2937 0.28 2.23 647.62 2 1,295.2	minutes LCY/Hour Scraper(s) LCY/Hour
Total S Adjust Selecte Adjust	Scraper team ted for job cored Number of ted single scra	cycle time: nditions: f Scrapers: aper team ((%) -1.00	Roll. Res (%) 2.00	Total Res (%) 1.00 n Time:	Velocity (fpm) 2937 0.28 2.23 647.62	minutes LCY/Hour Scraper(s) LCY/Hour
Total S Adjust Selecte Adjust Adjust Jnadjus	Scraper team ted for job cored Number of ted single scra	cycle time: nditions: f Scrapers: aper team (acraper tean	unit) hourly	Roll. Res (%) 2.00 Return y production:	Total Res (%) 1.00 n Time:	Velocity (fpm) 2937 0.28 2.23 647.62 2 1,295.2	minutes LCY/Hour Scraper(s) LCY/Hour
Total S Adjust Selecte Adjust Adjust Jnadjus Jnadjus Joptimal	Scraper team ted for job cored Number of ted single scrated multiple steed unit products	cycle time: nditions: f Scrapers: aper team (scraper tean uction/hour Scrapers per	unit) hourly	Roll. Res (%) 2.00 Return y production: arly production:	Total Res (%) 1.00 n Time:	Velocity (fpm) 2937 0.28 2.23 647.62 2 1,295.2	minutes LCY/Hour Scraper(s) LCY/Hour
Adjust Selecte Adjust Adjust Unadjus Optimal dozer:	Scraper team ted for job cored Number of ted single scrated multiple stated unit production. Number of Stated Number of State	cycle time: nditions: f Scrapers: aper team (scraper tean uction/hour Scrapers per	unit) hourly	Roll. Res (%) 2.00 Return y production: arly production:	Total Res (%) 1.00 n Time:	Velocity (fpm) 2937 0.28 2.23 647.62 2 1,295.2	minutes LCY/Hour Scraper(s) LCY/Hour
Total S Adjust Selecte Adjust Adjust Unadjus Optimal dozer:	Scraper team ted for job cored Number of ted single scrated multiple steed unit producted Number of Steed unit producted Steed unit producted Number of Ste	cycle time: nditions: f Scrapers: aper team (acraper tean uction/hour scrapers per	unit) hourly (fleet) how	Roll. Res (%) 2.00 Return y production: arrly production: 780.27	Total Res (%) 1.00 n Time: LCY/Hour	Velocity (fpm) 2937 0.28 2.23 647.62 2 1,295.2 2,590.4	minutes LCY/Hour Scraper(s) LCY/Hour LCY/Hour LCY/Hour

SCRAPER TEAM WORK

Task description: Replace topsoil on 29 acres (North Side)									
Site: North River Pit		Permit Ac	tion:	2025 Bond U	Jpdate Peri	mit/Job#:	M1999005		
PROJECT IDENTI	FICATION								
Task #: 004 Date: 9/8/20 User: CMG			Colorado Otero	0	Abbreviat Filename:		ne 999005		
Agency or organization	ation name:	DRM	IS						
HOURLY EQUIPM	<u>1ENT</u> C	OSTShift b	oasis: 1	per da <u>y</u>					
Equipment	Description								
-Scraper:	•		Cat 63	1G					
Dozer: Support Equipmen	t Lond Areas		NA NA						
-Dump Area:	i -Load Alea.		NA						
Road Maintenance	-Motor Grader:		NA						
-Water Truck:			NA						
Cost Breakdown:	Scraper W	ork Team	Su	pport Equipment	Maintena	nce Equipment			
Cost Di Cardowii.	Scraper	Dozer	Su	Load Area	Dump Area	Motor Grade	er Water Truck		
%Utilization-machine:	100	NA		NA	NA	NA	NA		
Ownership cost/hour:	\$462.75	NA		NA	NA	NA	NA		
Operating cost/hour:	\$260.25	NA		NA	NA	NA	NA		
%Utilization-ripper:	NA	NA		NA	NA	NA	NA		
Ripper own. cost/hour:	NA	NA		NA	NA	NA	NA		
Ripper op. cost/hour:	NA	NA		NA	NA	NA	NA		
Operator cost/hour:	\$59.78	NA		NA	NA	NA	NA		
Unit Subtotals:	\$782.78	NA		NA	NA	NA	NA		
Number of Units:	2	0		0	0	0	0		
Group Subtotals:	Work:	\$1,565.	56	Support:	\$0.00	Maint:	\$0.00		
Total work team cost		<u>. </u>							
Initial volume: Loose volume:	46,777 56,834		CCY LCY	Swell factor:	1.215				
Source of estimated Source of estimated		<u>-</u>	29 acre Cat Hai	s x 1 foot depth					
HOURLY PRODU	<u>CTION</u>								
Scraper Boy	wl (volume) Basi	<u>s:</u>							
Material weight:	1,600 lbs/LCY	7		Struck Vol	ume: 24.0	0	LCY		
Material description:	Top Soil	-		Heaped Vo			LCY		

Return Route: Seg # Haul Distance (Ft) Grade Roll. Res Total Res (%) (%) (%) (fpm) 1	
Nameuver and Spread Time: 0.70 Minutes	
Net Correction: 1.000 1.	
Altitude Adj:	
Altitude Adj:	
Net Correction: 0.830 0.830	
Travel Time: Road Condition: Hard, smooth, stabilized, surfaced, watered, maintained 2.0	
Haul Route: Seg # Haul Distance (Ft) Grade (%) (%) (%) (%) (fpm) 1	
Haul Route: Seg # Haul Distance (Ft) Grade (%) (%) (%) (%) (fpm) 1	
Seg # Haul Distance (Ft) Grade (%) Roll. Res (%) Total Res (%) Velocity (fpm) 1 400.00 1.00 2.00 3.00 2227 Haul Time: 0.39 m Return Route: Seg # Haul Distance (Ft) Grade (%) Res Total Res (fpm) Velocity (fpm) Total Res (fpm)	
Seg # Haul Distance (Ft) Grade (%) Roll. Res (%) Total Res (%) Velocity (fpm) 1 400.00 1.00 2.00 3.00 2227 Haul Time: 0.39 m Return Route: Seg # Haul Distance (Ft) Grade (%) Res Total Res (fpm) Velocity (fpm) 1 400.00 -1.00 2.00 1.00 2937 Return Time: 0.30 m Total Scraper team cycle time: 2.19 Adjusted for job conditions: 659.45 Selected Number of Scrapers: 2 Adjusted single scraper team (unit) hourly production: 1,318.90 Adjusted multiple scraper team (fleet) hourly production: 1,318.90	
Columbia Columbia	Travel Time
Return Route:	(min)
Return Route: Seg # Haul Distance (Ft) Grade (%) (%) (%) (fpm) 1	0.39
Seg #Haul Distance (Ft)Grade (%)Roll. Res (%)Total Res (%)Velocity (fpm)1400.00-1.002.001.002937Return Time:0.30mTotal Scraper team cycle time:Adjusted for job conditions:659.45Selected Number of Scrapers:2Adjusted single scraper team (unit) hourly production:1,318.90Adjusted multiple scraper team (fleet) hourly production:1,318.90	ninutes
Seg #Haul Distance (Ft)Grade (%)Roll. Res (%)Total Res (%)Velocity (fpm)1400.00-1.002.001.002937Return Time:0.30mTotal Scraper team cycle time:Adjusted for job conditions:659.45Selected Number of Scrapers:2Adjusted single scraper team (unit) hourly production:1,318.90Adjusted multiple scraper team (fleet) hourly production:1,318.90	
Return Time: 0.30 n Total Scraper team cycle time: 2.19 Adjusted for job conditions: 659.45 Selected Number of Scrapers: 2 Adjusted single scraper team (unit) hourly production: 1,318.90 Adjusted multiple scraper team (fleet) hourly production: 1,318.90	Travel Time
Return Time: O.30 Total Scraper team cycle time: Adjusted for job conditions: Selected Number of Scrapers: Adjusted single scraper team (unit) hourly production: Adjusted multiple scraper team (fleet) hourly production: 1,318.90 1,318.90	(min)
Total Scraper team cycle time: Adjusted for job conditions: Selected Number of Scrapers: Adjusted single scraper team (unit) hourly production: Adjusted multiple scraper team (fleet) hourly production: 1,318.90 1,318.90	0.30
Adjusted for job conditions: Selected Number of Scrapers: Adjusted single scraper team (unit) hourly production: Adjusted multiple scraper team (fleet) hourly production: 1,318.90 1,318.90	ninutes
Adjusted for job conditions: Selected Number of Scrapers: Adjusted single scraper team (unit) hourly production: Adjusted multiple scraper team (fleet) hourly production: 1,318.90 1,318.90	minutes
Selected Number of Scrapers:2Adjusted single scraper team (unit) hourly production:1,318.90Adjusted multiple scraper team (fleet) hourly production:1,318.90	LCY/Hour
Adjusted multiple scraper team (fleet) hourly production: 1,318.90	Scraper(s)
	LCY/Hour
	LCY/Hour
Unadjusted unit production/hour: 794.52 LCY/Hour	
Optimal Number of Scrapers per push dozer:	
JOB TIME AND COST	
Fleet size: 1 Team(s) Total job time: 43.09	
Unit cost: \$1.187 /LCY Total job cost: \$67,463	Hours

SCRAPER TEAM WORK

	Task description:	Rep	olace topsoil on	18 acre	es (South Side)				
Site:	North River P	it	Permit Ac	tion:	2025 Bond U	pdate Po	ermit/Job#:	_M	1999005
<u>]</u>	PROJECT IDEN	FIFICATION	<u> </u>						
	Task #:005		State:	Colorad	0	Abbrev	iation:	None	
		2025	County:	Otero		Filenan	ne:	M1999	9005
	User: CM	G							
	Agency or organi	zation name:	DRM	IS					
<u>]</u>	HOURLY EQUIF	PMENT_	COSTShift b	oasis: 1	per day				
_	Equipmen	t Description							
	-Scraper:			Cat 63	31G				
=	-Dozer: Support Equipme	ent Lond Area	•	NA NA					
	-Dump Area:	iii -Loau Aica	•	NA					
-	Road Maintenand	e –Motor Gra	der:	NA					
=	-Water Truck:			NA					
	Cost Breakdown:	Scran	er Work Team	Su	pport Equipment	Mainter	nance Equip	ment	
•	Cost Di tunuo wii	Scraper	Dozer		Load Area	Dump Area		Grader	Water Truck
%Utilizati	ion-machine:	100	NA		NA	NA	NA		NA
Ownership	p cost/hour:	\$462.75	NA		NA	NA	NA		NA
Operating	cost/hour:	\$260.25	NA		NA	NA	NA		NA
%Utilizati	ion-ripper:	NA	NA		NA	NA	NA		NA
Ripper ow	vn. cost/hour:	NA	NA		NA	NA	NA		NA
Ripper op	. cost/hour:	NA	NA		NA	NA	NA		NA
Operator of	cost/hour:	\$59.78	NA		NA	NA	NA		NA
Unit Subto	otals:	\$782.78	NA		NA	NA	NA		NA
Number o	of Units:	2	0		0	0	0		0
Group Sul	btotals:	Work:	\$1,565.	56	Support:	\$0.00	Maint:		\$0.00
,	Total work team co	ost/hour: \$1,5 6	5.56						
1	MATERIAL QUA	ANTITIES							
		44.700		~~	~ 44.0				
	Initial volume: Loose volume:	14,520 17,642		CCY LCY	Swell factor:	1.215			
					(: 1				
	Source of estimate Source of estimate		r:		es x 6 inches depth ndbook	<u> </u>			
<u>]</u>	HOURLY PROD	<u>UCTION</u>							
	Scraper B	owl (volume)	Basis:						
λ	Material weight:	1,600 lbs	/I CV		Struck Vol	ıme: 24	.00	ī	.CY
	Naterial weight. Naterial descriptior		101		Heaped Vo		.00		.CY
R	Rated Payload:	81,600 pc			Average Vo	olume: 29	.00	I	.CY
P	ayload Capacity:	51.00 LC	Υ		Adjusted C	apacity: 29	.00	I	LCY

Cycle Time:

Job Condition Correction: Site Altitude: 4040 feet

	Scraper	Push Dozer	Source
Altitude Adj:	1.000	1.000	(CAT HB)
Job Efficiency:	0.830	0.830	(CAT HB)
Net Correction:	0.830	0.830	

Travel Time:

Road Condition: Hard, smooth, stabilized, surfaced, watered, maintained 2.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade	Roll. Res	Total Res	Velocity	Travel Time
		(%)	(%)	(%)	(fpm)	(min)
1	500.00	1.00	2.00	3.00	2227	0.43

Haul Time: 0.43 minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res	Total Res	Velocity (fpm)	Travel Time (min)
1	500.00	-1.00	2.00	1.00	2937	0.34

			Return Time:	0.34	minutes
Adjusted for Selected No Adjusted si Adjusted m	per team cycle tin or job conditions: number of Scraper ngle scraper tean nultiple scraper te nuit production/honber of Scrapers	s: n (unit) hourly pr am (fleet) hourly our:		2.27 636.21 2 1,272.42 1,272.42	minutes LCY/Hour Scraper(s) LCY/Hour LCY/Hour
Fleet size:	_1	Team(s)	Total job time:	13.86	Hours
Unit cost:	\$1.230	/LCY	Total job cost:	\$21,706	

REVEGETATION WORK

]	Гask descr	ription: Re	vegetate 29 a	cres (North S	Side)		
:	North R	River Pit	Permit	Action:	2025 Bond Update	Permit/Job#:	M1999005
Pl	ROJECT	IDENTIFICATIO	<u>N</u>				
,	Task #:	006	State:	Colorado		Abbreviation:	None
]	Date:	9/8/2025	County:	Otero		Filename:	M1999005
1	User:	CMG	-			-	
1	Agency or	organization name:	D	RMS			
Fl	ERTILIZ	ING					

Acre

40.00

40.00

Unit

pound

pound

Cost / Unit

Total Fertilizer Materials Cost/Acre

\$0.66

\$0.94

Cost /Acre

\$26.29

\$37.54

\$63.84

Application

Description

Ammonium nitrate, 33-0-0

Triple superphosphate, 0-46-0

Description	Cost /Acre
Tractor towed spreader (MEANS 32 01 90.13 0120)	\$46.17
Total Fertilizer Application Cost/Acre	\$46.17

TILLING

Description	Cost /Acre
	\$
Total Tilling Cost/Acre	\$0.00

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Switchgrass - Blackwell	1.00	8.93	\$13.54
Blue Grama - Lovington	0.30	4.90	\$8.53
Little Bluestem - Pastura	1.40	8.36	\$22.74
Sideoats Grama - El Reno	1.80	5.91	\$45.01
Galleta	0.40	1.46	\$22.71
Western Wheatgrass - Arriba	3.20	8.08	\$29.60
Totals Seed Mix	8.10	37.63	\$142.12

Application

Description	Cost /A ava
Description	Cost /Acre
Drill seeding (MEANS 32 92 19.13 0020)	\$472.00
Total Seed Application Cost/Acre	\$472.00

MULCHING and MISCELLANEOUS

Materials

	Units /			
Description	Acre	Unit	Cost / Unit	Cost /Acre
			S	\$
			Ψ	Ψ
Total Mulch Materials Cost/Acre				\$0.00

Application

Description	Cost /Acre
	\$
Total Mulch Application Cost/Acre	\$0.00

NURSERY STOCK PLANTING

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

JOB TIME AND COST

No. of Acres:	29	Cost /Acre:	\$724.13	
Estimated Failure Rate:	25%	Cost /Acre*:	\$614.12	
*Selected Replanting Work Items:	SEEDING			

*Selected Replanting Work Items: SEEDING

Initial Job Cost: \$20,999.77

Reseeding Job Cost: \$4,452.37

Total Job Cost: \$25,452

Job Hours: 29.00

REVEGETATION WORK

	c description	: Rev	egetate 18 a	cres (South S	Side)		
N	orth River	Pit	Permit	Action:	2025 Bond Update	Permit/Job#:	M1999005
PRO.	JECT IDEN	NTIFICATION	<u>1</u>				
Tasl	k #: 00	7	State:	Colorado		Abbreviation:	None
Date	e: 9/8	8/2025	County:	Otero		Filename:	M1999005
Use	r: CN	MG				•	

	Units /			
Description	Acre	Unit	Cost / Unit	Cost /Acre
Ammonium nitrate, 33-0-0	40.00	pound	\$0.66	\$26.29
Triple superphosphate, 0-46-0	40.00	pound	\$0.94	\$37.54
			Total Fertilizer	
			Materials	
			Cost/Acre	\$63.84

Application

Description	Cost /Acre
Tractor towed spreader (MEANS 32 01 90.13 0120)	\$46.17
Total Fertilizer Application Cost/Acre	\$46.17

TILLING

Description	Cost /Acre
	\$
Total Tilling Cost/Acre	\$0.00

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Switchgrass - Blackwell	1.00	8.93	\$13.54
Blue Grama - Lovington	0.30	4.90	\$8.53
Little Bluestem - Pastura	1.40	8.36	\$22.74
Sideoats Grama - El Reno	1.80	5.91	\$45.01
Galleta	0.40	1.46	\$22.71
Western Wheatgrass - Arriba	3.20	8.08	\$29.60
Totals Seed Mix	8.10	37.63	\$142.12

Application

Description	Cost /Acre
Drill seeding (MEANS 32 92 19.13 0020)	\$472.00
Total Seed Application Cost/Acre	\$472.00

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

Application

Description	Cost /Acre
	\$
Total Mulch Application Cost/Acre	\$0.00

NURSERY STOCK PLANTING

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

JOB TIME AND COST

No. of Acres:	18	Cost /Acre:	\$724.13
Estimated Failure Rate:	25%	Cost /Acre*:	\$614.12
*Selected Replanting Work Items:	SEEDING		

Initial Job Cost: \$13,034.34

Reseeding Job Cost: \$2,763.54

Total Job Cost: \$15,798

Job Hours: 18.00

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Tas	sk description: Mo	bilization/Dem	obilizatior	1		
Site: N	North River Pit	Permit A	ction:	2025 Bond Update	Permit/Job#:	M1999005
PRO	DJECT IDENTIFICATION	<u>N</u>				
Ta: Da Us		State: _ County: _	Colorado Otero		Abbreviation: Filename:	None M1999005
Ag	gency or organization name:	_DRM	MS			
<u>EQI</u>	UIPMENT TRANSPORT I	RIG COST				
(Shift basis: Cost Data Source:					er day G Data
	Truck Tractor Description:			HIGHWAY TRUCK	TRACTOR, 6X4, I	DIESEL POWERED,
Т	Гruck Trailer Description:	GEN	NERIC FOL	HALF, 2006) LDING GOOSENECH T, 50T, AND 100T)	K, DROP DECK EQ	UIPMENT
Cost	Breakdown:					
Av	vailable Rig Capacities	0-25 Tons	26-50	Tons 51+ Tons		
Ov	wnership Cost/Hour:	\$21.47	\$38.32	\$48.96		
Op	perating Cost/Hour:	\$31.47	\$60.11	\$65.86		
	perator Cost/Hour:	\$22.52	\$22.52	\$22.52		
He	elper Cost/Hour:	\$0.00	\$22.25	\$22.25		

NON-ROADABLE EQUIPMENT:

Total Unit Cost/Hour:

Machine	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return Trip	DOT Permit
Description	Unit	Cost/hr/ unit	Cost/hr/unit	Size	Cost/hr/	Cost/hr/ fleet	Cost/ fleet
	(TONS)				fleet		
Cat D8T - 8SU	53.08	\$194.88	\$159.59	2	\$708.94	\$319.18	\$500.00
CAT 14M	23.57	\$101.88	\$75.46	2	\$354.68	\$150.92	\$250.00
Cat 631G	52.50	\$462.75	\$159.59	4	\$2,489.36	\$638.36	\$500.00
Drill/Broadcast	25.00	\$5.99	\$75.46	2	\$162.90	\$150.92	\$250.00
Seeder with							
Tractor							

\$159.59

Subtotals: \$3,715.88 \$1,259.38 \$1,500.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/	Fleet Size	Haul Trip	Return Trip
	unit		Cost/hr/ fleet	Cost/hr/ fleet
Water Tanker, 2,500 Gal.	\$33.68	1	\$33.68	\$33.68
Light Duty Pickup, 4x4, 3/4 T.	\$22.72	1	\$22.72	\$22.72
Lube Truck, 4x2, 190 HP	\$40.52	1	\$40.52	\$40.52

\$143.20

\$75.46

Subtotals:	\$96.92	\$96.92

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	LA JUNTA	
Total one-way travel distance:	3.00	miles
Average Travel Speed:	50.00	mph
Total Non-Roadable Mob/Demob Cost *	\$33,324.07	
** two round trips with haul rig: Total Roadable Mob/Demob Cost **	\$11.63	
** one round trip, no haul rig:		

<u>Transportation Cycle Time:</u>

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.06	0.06
Return Time (Hours):	0.06	0.06
Loading Time (Hours):	2.00	NA
Unloading Time (Hours):	2.00	NA
Subtotals:	4.12	0.12

JOB TIME AND COST

Total job time:	8.24	Hours
Total job cost:	\$33,336	