

Simmons - DNR, Leigh <leigh.simmons@state.co.us>

M2013023, Sharp Pit #2, 2024 Inspection Report

Simmons - DNR, Leigh <leigh.simmons@state.co.us> To: riversideaggregatesllc@gmail.com

Thu, Aug 1, 2024 at 12:41 PM

Mr Carrigan,

I'm so sorry, I just realized that I had the incorrect spelling of your name. I corrected the inspection report - please find attached.

Leigh Simmons Environmental Protection Specialist



P 720.220.1180 1313 Sherman Street, Room 215, Denver, CO 80203 leigh.simmons@state.co.us | https://drms.colorado.gov

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M2013023 2024 Inspection Report with RCE.pdf 2898K



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:
Sharp Pit #2	M-2013-023	Gravel and sand	Bent
INSPECTION TYPE:	WEATHER: Clear	INSP. DATE:	INSP. TIME:
Monitoring		April 16, 2024	16:00
OPERATOR:	OPERATOR REPRESENTATIVE:	TYPE OF OPERA	TION:
Riverside Aggregates, LLC	Mark Carrigan	110c - Construction	Limited Impact
REASON FOR INSPECTION:	BOND CALCULATION TYPE:	BOND AMOUNT:	
Normal I&E Program	Complete Bond	\$24,800.00	
DATE OF COMPLAINT:	POST INSP. CONTACTS:	JOINT INSP. AGE	ENCY:
NA	None	None	
INSPECTOR(S):	INSPECTOR'S SIGNATURE:	SIGNATURE DAT	ΓE:
Leigh Simmons	100	August 1, 2024	
	His		

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:** Please review the attached Reclamation Cost Estimate and respond with comments within 30 days. After 30 days the Division will initiate a separate Surety Increase notice to increase the financial warranty. The operator will have 60 days from the date on the Surety Increase notice to post the additional financial warranty.

CORRECTIVE ACTION DUE DATE: 8/30/24

COLUMBA

PERMIT #: M-2013-023 INSPECTOR'S INITIALS: LDS INSPECTION DATE: April 16, 2024

OBSERVATIONS

This inspection was conducted as part of the normal monitoring program established by the Colorado Division of Reclamation, Mining and Safety (Division). The inspection was conducted by Leigh Simmons of the Division, and accompanied by Mark Carrigan of Riverside Aggregates, LLC.

The Sharp Pit #2 is a 110(c) operation with a total permit area of 9.9 acres, located on private land approximately four miles south-east of the city of McClave. The pit is accessed from County Rd LL, east of the intersection with County Road 33.

The locations of photos taken during the inspection are shown on the screenshot of the field map.

Financial Warranty:

The Division currently holds a reclamation bond of \$24,800 for the site. As is customary, the Reclamation Cost Estimate (RCE) for the site was re-evaluated with current unit costs as of 7/31/2024. The new RCE is attached to this inspection report - note that the tasks were not changed except to update obsolete equipment as necessary. The total required bond amount, including indirect costs, has increased to \$38,495 meaning that the current financial warranty is insufficient; a problem has been cited above. (If some progress has been made toward reclaiming the site, it may not be necessary to increase the bond held.)

Gen. Compliance With Mine Plan:

Some stockpiled material was on site, but had apparently already been sold. A loader and a screen with a single conveyor section was on site (there was no crusher). To mine material an excavator is brought to the site to break up material before the loader feeds it to the screen. Mr Carrigan estimated that material would continue to be extracted for a couple of months before the eastern limit of the pit would be reached. He expected reclamation to begin in the summer and seeding to take place in the autumn.

Revegetation:

The site was fairly well vegetated, despite not having been seeded. The site was surrounded by irrigated cropland, and was completely fenced, preventing any livestock grazing (in stark contrast to most of the other sites in the county).

Signs and Markers:

The Mine ID sign was in place. The permit boundary was marked with steel well casing at the corners and a barbed wire fence.

Topsoil:

Topsoil had been stockpiled and was adequately vegetated.

PHOTOGRAPHS

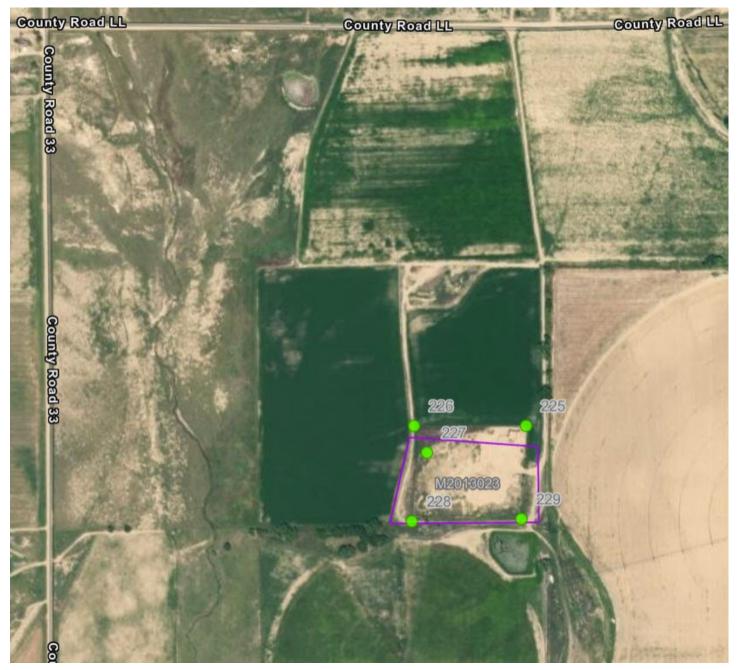


Figure 1: Screenshot of inspection map, with approximate permit boundary in purple and inspection features in green



Figure 2: Eastern boundary of permit area (225)



Figure 3: Northern boundary of permit area, screen and conveyor (225)



Figure 4: Pit area, with seedbed material in center of frame (227)



Figure 5: Stockpiled material in pit (227)



Figure 6: Western edge of permit area (228)



Figure 7: Southern edge of permit area (229)



Figure 8: Eastern edge of permit area, with stockpiled rock

PERMIT #: M-2013-023 INSPECTOR'S INITIALS: LDS INSPECTION DATE: April 16, 2024

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 PB	(RD) ROADS <u>N</u>
(HB) HYDROLOGIC BALANCE <u>N</u>	(BG) BACKFILL & GRADING <u>N</u>	(EX) EXPLOSIVES <u>N</u>
(PW) PROCESSING WASTE/TAILING <u>N</u>	(SF) PROCESSING FACILITIES N	(TS) TOPSOIL <u>Y</u>
(MP) GENL MINE PLAN COMPLIANCE- <u>Y</u>	(FW) FISH & WILDLIFE <u>N</u>	(RV) REVEGETATION <u>Y</u>
(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 N	(ST) STIPULATIONS <u>N</u>
(AT) ACID OR TOXIC MATERIALS <u>N</u>	(OD) OFF-SITE DAMAGE <u>N</u>	

Inspection Contact Address

Mark Carrigan Riverside Aggregates, LLC 1750 County Road HH Lamar, CO 81052

Enclosure: 2024 Inspection Reclamation Cost Estimate

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

COST SUMMARY WORK

Task description:	RCE	E update with 2024	costs				
ite: Sharp Pit #2		Permit A	ction:	2024 Inspection	1	_ Permit/Job	#: <u>M2013023</u>
PROJECT IDEN	TIFICATIO	<u>ON</u>					
Task #: 000		State: Colo	rado			Abbreviation:	None
Date: 8/1/2		County: Bent				Filename:	M023-000
User: LDS							
Agency or	rorganization	name: DRMS					
TASK LIST (DII	RECT COST	<u>ΓS)</u>					
nsk B				Form	Fleet	Task	
Description				Used	Size	Hours	Cost
1 Grade highwa				DOZER	1	1.25	\$260
2 Replace 6" to		es		SCRAPER1	1	9.88	\$11,578
Revegetate 7				REVEGE	1	7.00	\$11,132
4 Mobilization/	Demobilization	n		MOBILIZE	1	5.00	\$7,044
INDIRECT COS	<u>TS</u>						
OVERHEAD AND	PROFIT:						
Liability	insurance:	2.02				Total = \$6	06
		1.05					15
Job supe	rintendent:	11.57					17
	Profit:	10.00				Total = \$3	,001
							,840
		C	ONTF	ACT AMOUNT	(direct -	$+ O \& P) = _{3}$	4,854
LEGAL - ENGINE	ERING - PRO	JECT MANAGEM	ENT:				
		ng (legal/related cos		\$0	_	Total = \$0	
0 0		ontract/bid preparati	_	4.25	_		,481
Reclamation	n management	and/or administrati	ion:	6.20	_	_ \$2	,161
		CONTINGEN	CY:	0.00		Total =\$0	<u> </u>
				TOTAL IN	NDIREC	T COST = \$8	,482
		тота	BON.	ND AMOUNT (d	lirect + i	indirect) = \$3	8,496

BULLDOZER WORK

Task description:		e highwall t				
: Sharp Pit #2		Perr	nit Action:	2024 Inspection	Permit/Job#:	M2013023
PROJECT IDE	NTIFICATIO	<u>ON</u>				
Task #: 001		State:	Colorado		Abbreviation:	None
	2024	County:	Bent		Filename:	023-001
User: LDS		,			-	
Agency	or organization	name: DR	RMS			
HOURLY EQU	IPMENT CO	<u>ost</u>				
Basic Machine:		S Series II LO	GP	<u> </u>		
Horsepower:						
Blade Type:						
Attachment:				<u> </u>		
Shift Basis:						
Data Source:	(CRG)			<u> </u>		
<u>Cost Breakdown</u> :				Ī		
				<u>Utilization %</u>		
Ownership Cost/			\$90.24	NA		
Operating Cost/			\$78.95	100		
Ripper own. Cost/			\$0.00 \$0.00	NA 0		
Ripper op. Cost/				-		
Operator Cost/	nour.		\$38.59	NA		
MATERIAL Q	694		<u> </u>			
Swell factor:	1.250		_			
Loose volume:	868 LCY		_			
Source of estimate Source of estimate		10' H x 7 Cat Hand		V to 3H:1V slope		
	ed swell factor:			V to 3H:1V slope		
HOURLY PRO Average push dist	ed swell factor: DUCTION ance:	Cat Hand 50 feet	book	V to 3H:1V slope		
Source of estimate HOURLY PRO	ed swell factor: DUCTION ance:	Cat Hand	book	V to 3H:1V slope		
HOURLY PRO Average push dist	bd swell factor: DUCTION ance: production:	Cat Hand 50 feet 800.0 LCY/	book	v to 3H:1V slope		
HOURLY PRO Average push dist Unadjusted hourly	DUCTION ance: production: ncy description: lient:5 %	Cat Hand 50 feet 800.0 LCY/	book			
HOURLY PRO Average push dist Unadjusted hourly Materials consiste Average push grad	bd swell factor: DUCTION ance: production: ncy description: dient: de: 3,800	Cat Hand 50 feet 800.0 LCY/	book			
HOURLY PRO Average push dist Unadjusted hourly Materials consiste Average push grad Average site altitu	DUCTION ance: production: ncy description: lient: de: 3,800 2,650	Cat Hand 50 feet 800.0 LCY/ Compar	hr cted fill or e	mbankment 0.9		
HOURLY PRO Average push dist Unadjusted hourly Materials consiste Average push grad Average site altitu Material weight: Weight description Job Condition Con	bd swell factor: DUCTION ance: production: ncy description: de: 3,800 2,650 n: Decomprection Factor	Cat Hand 50 feet 800.0 LCY/ Comparing feet lbs/LCY mposed rock	hr cted fill or e	mbankment 0.9 , 75% Earth Source		
HOURLY PRO Average push dist Unadjusted hourly Materials consiste Average push grad Average site altitu Material weight: Weight description Job Condition Con Op	bd swell factor: DUCTION ance: production: ncy description: de: 3,800 2,650 n: Decom	Cat Hand 50 feet 800.0 LCY/ Comparing feet lbs/LCY nposed rock	hr cted fill or e	mbankment 0.9		
HOURLY PRO Average push dist Unadjusted hourly Materials consiste Average push grac Average site altitu Material weight: Weight description Op Material	DUCTION ance: production: ncy description: de: 3,800 2,650 n: Decomperator Skill:	Cat Hand 50 feet 800.0 LCY/ Comparing feet lbs/LCY nposed rock 1.0	hr cted fill or e	mbankment 0.9 , 75% Earth Source (EXCL.)		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	1.000	(DOZ-OC)
Push gradient:	1.115	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.868	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.8676

Adjusted unit production: 694.08 LCY/hr
Adjusted fleet production: 694.08 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.299/LCY

Total job time: Total job cost: 1.25 Hours \$260

SCRAPER TEAM WORK

Task description:	Replace 6	" topsoil	on 7 acre	es			
Site: Sharp Pit #2		Permi	t Action:	2024 Inspection	Per	mit/Job#: <u>M201</u>	3023
PROJECT IDE	ENTIFICATION						
Task #: 002		State:	Colorado		Abbre	viation: None	
		ounty:	Bent		Fil	lename: 023-00)2
User: LDS	<u> </u>						
Agency	or organization name	: DRM	IS				
HOURLY EQU	JIPMENT_			COSTS	hift basis: 1 per d	l <u>ay</u>	
				ent Description			
	-	Scraper:	Cat 631	lG			
Cur	pport Equipment -Lo	-Dozer:	NA Cat D7	R DS Series II LC	lD		
Ծ ալ		np Area:	NA	K D5 Selies II Le)1		
Road	Maintenance –Motor	Grader:	CAT 1				
	-Wate	r Truck:	Water	Γanker, 2,500 Gal			
Cost Breakdown	: Scraper Wo	ork Team		Support Equip	ament	Maintenance	Fauinment
Cost Dicardown	Scraper	Do	zer	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machin	-		NA	50	NA	100	50
Ownership cost/hou	r: \$442.19		NA	\$90.24	NA	\$129.81	\$11.65
Operating cost/hou			NA	\$39.48	NA	\$89.13	\$11.23
%Utilization-rippe	r: NA		NA	NA	NA	50	NA
Ripper own. cost/hou	r: NA		NA	\$0.00	NA	\$5.75	\$0.00
Ripper op. cost/hou	r: NA		NA	\$0.00	NA	\$2.09	\$0.00
Operator cost/hou	r: \$30.90		NA	\$38.59	NA	\$27.76	\$0.00
Unit Subtotal	s: \$725.98		NA	\$168.30	NA	\$254.54	\$22.88
Number of Unit	s: 1		0	1	0	1	1
Group Subtotal	s: Work:	\$72	5.98	Support:	\$168.30	Maint:	\$277.42
Total work team of MATERIAL Q	ost/hour: \$1,171.70						
Initial volum Loose volum			CCY LCY	Swell fact	tor: 1.215		
	•						
	Source of estimated vote of estimated swell	_	7 acres d	listurbed x 6" dep dbook	th replacement		
Source	ce of estimated swen	1401.	Cat Hair	uook			
HOURLY PRO	<u>DUCTION</u>						
				Scraper Bo	owl (volume) Bas	is:	
Material weigh	nt: 1,600 lbs/LCY			Struck	Volume: 24.00	L	CY
Material descriptio				Heaped			CY
Rated Payloa Payload Capacit				Average	Volume: 29.00 Papacity: 29.00		CY CY
Pavioad Canacit	v. SLUULKY			Aduisted (anacity. Zy IIII	1	A Y

Site Altitude: 3800 feet

~		— :	
Cyc	اما	Tin	na
CVC.	IC.	1111	uc.

 $\begin{array}{lll} \text{Scraper Loading Time:} & \underline{0.80} \text{ Minutes} \\ \text{Maneuver and Spread Time:} & \underline{0.70} \text{ Minutes} \\ \end{array}$

Job Condition Correction:

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

Travel Time:

Road Condition: Firm, smooth, rolling, dirt/lt. surfaced, watered, maintained 3.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res	Total Res	Velocity (fpm)	Travel Time (min)
1	300.00	2.50	3.00	5.50	1069	0.32

Haul Time: ______ 0.32 ___ minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	300.00	-2.50	3.00	0.50	2937	0.26

Return Time: **0.26** minutes Total Scraper team cycle time: 2.08 minutes Adjusted for job conditions: 694.33 LCY/Hour Selected Number of Scrapers: Scraper(s) 1 Adjusted single scraper team (unit) hourly production: 694.33 LCY/Hour Adjusted multiple scraper team (fleet) hourly production: 694.33 LCY/Hour

Unadjusted unit production/hour: 836.54 LCY/Hour Optimal Number of Scrapers per push dozer:

JOB TIME AND COST

Fleet size:	1	_ Team(s)	Total job time:	9.88	Hours
Unit cost:	\$1.688	_ /LCY	Total job cost:	\$11,578	

REVEGETATION WORK

OJECT IDENTIFICATION	r Cillit P	Action: 2024	Inspection		Permit/Job#	: <u>M2013023</u>
Task #: 003	State: Col	orado		Ab	breviation:	None
	ounty: Ben					023-003
User: LDS	, <u></u>			<u> </u>		020 000
Agency or organization name	: DRMS					
RTILIZING						
terials						
Deservingtion		Units /	T124	Cos	st / Unit	Cost /Acre
Description		Acre	Unit	Cos	ot / Unit	Cost /Acre
				\$		\$
				Tot	tal Fertilizer Materials Cost/Acre	\$0.00
						\$
		Total	Fertilizer	Applicatio	on Cost/Acre	\$0.00
LLING						
						Cost /Acre
Description	32 91 13.23 <i>6</i>	5100)				Cost /Acre \$117.61
	32 91 13.23 6	5100)				Cost /Acre \$117.61
Description	32 91 13.23 6	5100)	1	otal Tillin	ng Cost/Acre	
Description	32 91 13.23 6	5100)	7	otal Tillin	ng Cost/Acre	\$117.61
Description Disc harrowing, 6" deep (MEANS) EDING	32 91 13.23 6	5100)	1	otal Tillin Rate –		\$117.61 \$117.61
Description Disc harrowing, 6" deep (MEANS	32 91 13.23 6	5100)	1	Rate – PLS LBS /	Seeds per SQ. FT	\$117.61
Description Disc harrowing, 6" deep (MEANS) EDING Seed Mix	32 91 13.23 6	5100)	7	Rate – PLS LBS / Acre	Seeds per SQ. FT	\$117.61 \$117.61 Cost /Acre
Description Disc harrowing, 6" deep (MEANS) EDING Seed Mix Blue Grama - Lovington	32 91 13.23 6	5100)	7	Rate – PLS LBS / Acre	Seeds per SQ. FT	\$117.61 \$117.61 Cost /Acre
Description Disc harrowing, 6" deep (MEANS EDING Seed Mix Blue Grama - Lovington Indian Ricegrass - Paloma	32 91 13.23 6	5100)	1	Rate – PLS LBS / Acre 0.30 0.40	Seeds per SQ. FT 4.90 1.29	\$117.61 \$117.61 Cost /Acre \$8.33 \$8.21
Description Disc harrowing, 6" deep (MEANS) EDING Seed Mix Blue Grama - Lovington	32 91 13.23 6	5100)	1	Rate – PLS LBS / Acre	Seeds per SQ. FT	\$117.61 \$117.61 Cost /Acre

Application

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

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$492.78	\$985.56
Total Mulch Materials Cost/Acre				\$985.56

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$85.37
	Total Mulch Application Cost/Acre	\$85.37

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Totals 1	Nursery Stoc	k Cost / Acre	\$0.00

JOB TIME AND COST

	~=== n ~			
Estimated Failure Rate:	30%	Cost /Acre*:	\$309.01	
No. of Acres:	7	Cost /Acre:	\$1,497.55	

*Selected Replanting Work Items: SEEDING

Initial Job Cost: \$10,482.85

Reseeding Job Cost: \$648.92

Total Job Hours: \$11,132

7.00

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description: Mo	bilization/Demol	bilization			
ite: Sharp Pit #2	Permit	t Action: 2024 In	spection	Permit/Job#	e: <u>M2013023</u>
PROJECT IDENTIFICATI	<u>ION</u>				
Task #: 004	State: C	olorado	Al	obreviation:	None
Date: 8/1/2024 User: LDS	County: B	ent		Filename:	023-004
Agency or organization	n name: DRMS	S			
EQUIPMENT TRANSPOR	T RIG COST				
			Shif	t basis:	per day
			Cost Data S		RG Data
Truck Tractor Desc	eription: GENI	ERIC ON-HIGHW	AY TRUCK TRAC 400 HP (2ND HA)		IESEL POWERED,
Truck Trailer Desc	cription:	GENERIC FOLDIN	IG GOOSENECK,		EQUIPMENT
		TR	AILER (25T, 50T,	AND 100T)	
Cost Breakdown:					
Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons	=	
Ownership Cost/Hour:	\$10.44	\$22.18	\$23.94	-	
Operating Cost/Hour:	\$26.48	\$54.55	\$55.65	-	
Operator Cost/Hour:	\$22.52	\$22.52	\$22.52	=	
Helper Cost/Hour:	\$0.00	\$23.53	\$23.53		

NON ROADABLE EQUIPMENT:

Total Unit Cost/Hour:

\$59.44

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 D7R DS	34.57	\$90.24	\$122.78	1	\$213.02	\$122.78	\$250.00
Series II LGP							
Cat 631G	52.50	\$442.19	\$125.64	1	\$567.83	\$125.64	\$250.00
CAT 14M	23.57	\$135.56	\$59.44	1	\$195.00	\$59.44	\$250.00
Drill/Broadcast	25.00	\$41.02	\$59.44	1	\$100.46	\$59.44	\$250.00
Seeder with							
Tractor							

\$122.78

\$125.64

Subtotals: \$1,076.31 \$367.30 \$1,000.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Water Tanker, 2,500 Gal.	\$34.10	1	\$34.10	\$34.10

Subtotals:	\$34.10	\$34.10

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:

Total one-way travel distance:

Average Travel Speed:

LAMAR

miles

50.00

mph

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.25	0.25
Return Time (Hours):	0.25	0.25
Loading Time (Hours):	1.00	NA
Unloading Time (Hours):	1.00	NA
Subtotals:	2.50	0.50

JOB TIME AND COST

Total job cost: 5.00 Hours

Total job cost: \$7,044