

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

Rio Grande Bentonite- June 2025 Inspection Report and Cost Estimate

1 message

Girardi - DNR, Chris <chris.girardi@state.co.us>
To: Larry Mondragon <riograndebentonite@gmail.com>
Cc: Jared Ebert - DNR <jared.ebert@state.co.us>

Wed, Jul 23, 2025 at 1:10 PM

Good afternoon,

Attached to this email is the Division's Inspection Report and Reclamation Cost Estimate based on the inspection conducted on June 16, 2025 for the Rio Grande Bentonite, permit number M-2002-106.

A hard copy will also be delivered. Regarding the Cost Estimate, please provide any feedback within two weeks of this email. Otherwise, a Surety Increase will be issued for the permit.

Please feel free to contact me if you have any questions.

Thanks,

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



RioGrandeBentonite_2025CostEstimate_M2002106.pdf



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:
Rio Grande Bentonite		M-2002-106	Bentonite	Conejos
INSPECTION TYPE:		WEATHER: Clear	INSP. DATE:	INSP. TIME:
Monitoring			June 16, 2025	13:30
OPERATOR:		OPERATOR REPRESENTATIVE:	TYPE OF OPERA	ATION:
Larry Mondragon,		Larry Mondragon	110c - Construction	n Limited Impact
REASON FOR INSPECTION:		BOND CALCULATION TYPE:	BOND AMOUNT	:
Normal I&E Program		Complete Bond	\$7,345	
DATE OF COMPLAINT:		POST INSP. CONTACTS:	JOINT INSP. AG	ENCY:
NA		None	None	
INSPECTOR(S):	INSPE	CCTOR'S SIGNATURE:	SIGNATURE DA	TE:
Chris Girardi	Ch	ris Diradi	July 23, 2025	

GENERAL INSPECTION TOPICS

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

(AR) RECORDS <u>N</u>	(FN) FINANCIAL WARRANTY <u>Y</u>	(RD) ROADS <u>N</u>
(HB) HYDROLOGIC BALANCE <u>N</u>	(BG) BACKFILL & GRADING <u>Y</u>	(EX) EXPLOSIVES <u>N</u>
(PW) PROCESSING WASTE/TAILING N	(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 <u>Y</u>
(ES) OVERBURDEN/DEV. WASTE <u>N</u>	(SC) EROSION/SEDIMENTATION \underline{Y}	(ST) STIPULATIONS <u>N</u>
(AT) ACID OR TOXIC MATERIALS <u>N</u>	(OD) OFF-SITE DAMAGE <u>Y</u>	

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

PERMIT #: M-2002-106 INSPECTOR'S INITIALS: CMG INSPECTION DATE: June 16, 2025

OBSERVATIONS

The Rio Grande Bentonite permit was inspected on June 16, 2025 at by Chris Girardi with the Division of Reclamation, Mining, and Safety (DRMS). The inspection was completed as part of the DRMS's routine monitoring inspection program. The site was last inspected on May 15, 2017. Larry Mondragon (Operator) was present during the inspection. The weather sunny and hot.

The Rio Grande Bentonite permit is a 110c bentonite mining operation that is permitted for 3 acres and is located approximately 14 miles east of Antonito, CO. The approved post-mining land use is developed water resources. The surrounding land use is rangeland.

The site is accessed using Punche Valley Road, then turning east using an access road. The site is then accessed using a gate. A mine identification sign was located at the entrance to the site in compliance with Rule 3.1.12 (see Photo 1). The permit boundary is enclosed with a fence on the south and west sides and delineated using metal barrels on the north side.

General Compliance With Mine Plan:

The site is located within Punche Valley and located approximately a half mile west of the Rio Grande River. At the time of the inspection, the Operator was actively mining the pit slope. The site consists of a small pit less than one acre in size and approximately 8-10 feet in depth, with material stockpiles located on the pit floor (see Photo 2). Overburden material is stockpiled north of the pit. The pit maintains an almost vertical highwall at 1:1 horizontal/vertical configuration, although the toe of the pit slope is more relaxed. No erosion of the pit was observed. Topsoil is stockpiled along the eastern permit boundary. The undisturbed portion of the permit area contains dense vegetative cover, consisting of Indian ricegrass, Bottlebrush squirreltail, Sagebrush, and Kochia (see Photos 5-7). Kochia is an invasive species, but not a noxious weed and not considered a problem at this time. No fuel is being stored within the permit area.

Historical Google Earth Imagery indicates the Operator had previously been mining a pit to the east and has been mining to the west since 2019. Previous inspection reports have indicated the presence of pre-permit and historic disturbances directly to the north and southwest of the permit area. However, this area exhibits significant vegetative cover and is not easily discernable from unaffected lands outside the permit area (see Photo 5 and Figure 1).

A pair of wheel loaders were located near the pit (see Photo 3). The Operator has also begun reclaiming a former pit along the southeast portion of the permit area, which has been graded and seeded (see Photo 4). Revegetation has moderately established on the former pit floor, but the slope has struggled to regrow vegetation. In addition, minor rilling erosion of the reclaimed pit slope was observed. The DRMS noted that if increased erosion of the south pit slopes occurs, then stabilization measures will be necessary to remain in compliance with Rule 3.1.6(3) of the Construction Materials Rules and Regulations governing erosion of affected land.

According to the Operator, they intend to submit an amendment application to increase the permit acreage from 4 acres to around 9 acres. They are in the process of hiring a consultant to conduct a survey of the expansion area, which would expand the permit area to the east and northeast, where overburden thickness is only one (1) to three (3) feet, as opposed to the current permit area where overburden thickness is

PERMIT #: M-2002-106 INSPECTOR'S INITIALS: CMG INSPECTION DATE: June 16, 2025

approximately six (6) feet in thickness. An amendment application should also consider a change of the reclamation plan and post-mine land use, which is currently developed water resources.

Financial Warranty:

The Division currently holds a reclamation bond in the amount of \$4,462. for this operation. The Division has estimated the reclamation liability at the site, and found it to be \$7,345. This is an increase of \$2,883 from the bond currently held. The Operator will have 14 days (August 6, 2025), from the issuance of this report to submit any questions regarding the updated cost estimate. If no questions are received, the Division may issue a Surety Increase notice for the difference. 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).

PHOTOGRAPHS



Photo 1: Mine entrance sign, facing east.



Photo 2: Active pit area with material stockpiles on the pit floor, facing west.



Photo 3: View of mining equipment.



Photo 4: View of reclaimed pit slope in the southeast portion of the permit, facing south.



Photo 5: View of undisturbed portion of parcel and potential amendment expansion area, facing north.



Photo 6: View of undisturbed portion of permit containing vegetation, as well as the disturbed portion of the permit area, facing southeast.

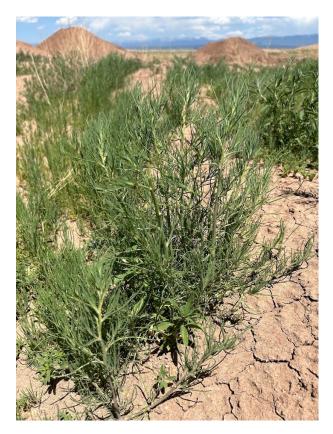


Photo 7: Kochia weed within the undisturbed portion of the permit area.

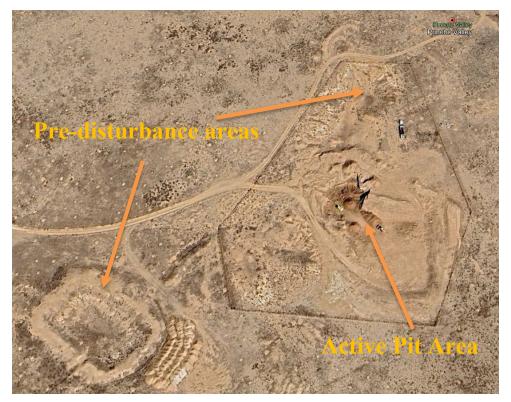


Figure 1: This map was generated using Google Earth to show areas of pre-disturbance unrelated to the current mining plan.

PERMIT #: M-2002-106 INSPECTOR'S INITIALS: CMG INSPECTION DATE: June 16, 2025

<u>Inspection Contact Address</u> Larry Mondragon, Son

Larry Mondragon, Son Larry Mondragon 9451 U.S. Hwy. 285 S Alamosa, CO 81101

Enclosure- 2025 Reclamation Cost Estimate

CC:

Jared Ebert, DRMS

COST SUMMARY WORK

	Task description:	Reclmation of the permit				
Site:	Rio Grande Bentonite	Permit Action:	2025 Update		Permit/Job	#: <u>M2002106</u>
<u>P</u>	ROJECT IDENTIFICA	<u>ATION</u>				
	Task #: 000 Date: 6/26/2025 User: CMG Agency or organiza	State: Colorado County: Conejos tion name: DRMS			Abbreviation: Filename:	None M106-000
<u>T</u>	ASK LIST (DIRECT C	OSTS)				
Task	Description		Form Used	Fleet Size	Task Hours	Cost
001 002	General site grading Spread topsoil		DOZER DOZER	1 1	2.72 3.22	\$325 \$385
003 004	Revegetate affected lan Haul reclamation equip	ment to and from job site	REVEGE MOBILIZE	1 1	3.33	\$2,958 \$1,937
			SUBTO	OTALS:	10.27	\$5,605
<u>II</u>	NDIRECT COSTS					
<u>O</u>	VERHEAD AND PROFIT:	<u>-</u>				
	Liability insurance Performance bond Job superintenden Profi	d: 1.05 t: 5.14		TOTAI	Total =	13 59 886 660 ,118
		CONTI	RACT AMOUNT	Γ (direct +	$O \& P) = _{86}$	5,723
L	EGAL - ENGINEERING -	PROJECT MANAGEMENT:	:			
	Engineering work and/	ressing (legal/related costs): or contract/bid preparation: ment and/or administration:	\$0 4.25 5.00			286 236

CONTINGENCY: 0.00

Total = \$0

TOTAL INDIRECT COST = \$1,740

TOTAL BOND AMOUNT (direct + indirect) = \$7,345

BULLDOZER WORK

Task description:	Ge	neral site gi	rading			
Rio Grande Bent	onite	Permi	t Action:	2025 Update	Permit/Job#:	M2002106
PROJECT IDENTII	FICATION	<u>N</u>				
Task #: 001 Date: 6/26/2	025	State: County:	Colorado Conejos		Abbreviation: Filename:	None 000
User: CMG						
Agency or organizat	tion name:		DRMS			
HOURLY EQUIPM	ENT COS	<u>5T</u>				
Basic Machine: Horsepower: Blade Type: Attachment: Shift Basis:	Cat D5N 296 Power An 3-shank rid 1 per day	igle Tilt				
Data Source:	(CRG)			_		
Cost Breakdown:				Utilization %		
Ownership Cost/Hor				NA		
Operating Cost/Hou Ripper own. Cost/Hour:	r: \$33. \$4.0			100 NA		
Ripper op. Cost/Hou				10		
Operator Cost/Hour	: \$38.	.02		NA		
Total unit Cost/Hou Total Fleet Cost/Hou						
MATERIAL QUAN	<u>TITIES</u>					
	806					
	1.000 806 LCY					
Loose volume:	800 LCY					
Source of estimated Source of estimated factor:		Cat Har		$(0.5^{\circ}D) / 27 = 806 G$	cy	
HOURLY PRODUC	TION					
Average push distant Unadjusted hourly production:	ice:	50 feet 464.3 LC	Y/hr			
Materials consistent description:	у	Loos	e stockpile 1.	2		
Average push gradient:	-5 %	ó 0				
Average site altitude	e: 7,60	0 feet				
Material weight:	2.40	00 lbs/LCY				

Weight description:	Sand - Dry, loose	
W CIGHT GCSCHDHOH.	Sand - Div. 100sc	

ob Condition Correction Fac	etor 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:	0.800	(FND-RF)
Push gradient:	1.115	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.958	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.6383	
Adjusted unit production:	296.36 LCY/hr	
Adjusted fleet production:	296.36 LCY/hr	

JOB TIME AND COST

Fleet size:	1 Dozer(s)
Unit cost:	\$0.403/LCY
Total job time:	2.72 Hours
Total job cost:	\$325

BULLDOZER WORK

	Task description	on:	Spi	read topsoil				
	Rio Grande	e Benton	ite	Permit	t Action:	2025 Update	Permit/Job#:	M2002106
P	ROJECT IDI	ENTIFIC	CATION	<u>N</u>				
	Task #:(002		State:	Colorado		Abbreviation:	None
		6/26/202	5	County:	Conejos		Filename:	000
	User:	CMG						
	Agency or org	ganizatio	n name:	_ D	RMS			
E	IOURLY EQI	UIPMEN	NT COS	<u>T</u>				
	Basic Machine			LGP - 5P		_		
	Horsepower:	9				<u> </u>		
	Blade Type:		ower An			_		
	Attachment:		-shank ri	pper		_		
	Shift Basis: Data Source:		per day CRG)			_		
	Data Soutce.	_(JNO)			_		
<u>C</u>	Cost Breakdown	<u>n</u> :				<u>Utilization %</u>		
	Ownership Co	ost/Hour:	\$44.	.09		NA		
	Operating Cos		\$33.			100		
	Ripper own.		\$4.0			NA		
	Cost/Hour:	-						
	Ripper op. Co					10		
	Operator Cost	/Hour:	\$38.	.02		NA		
	Total unit Cos	st/Hour	\$119) 54				
	Total Fleet Co							
1	MATERIAL Q)[]A NTI	-					
14	Initial Volume							
	Swell factor:		000					
	Loose volume		6 LCY					
	Source of esting Source of esting factor:			(1ac)(43 Cat Han		(0.5°D) / 27 = 806 c	y	
<u> F</u>	IOURLY PRO	ODUCT	<u>ION</u>					
	Average push	distance	:	50 feet				
	Unadjusted ho production:		-	464.3 LCY	Y/hr			
	Materials considescription:	sistency		Loose	stockpile 1.2			
	Average push gradient:		0 %					
	Average site a	ıltitude:	7,60	0 feet				

Material weight:	2,550 lbs/LCY
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Weight description: Earth - Dry packed

Job Condition Correction 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: 0.800(FND-RF) Push gradient: 1.000 (CAT HB) Altitude: 1.000 (CAT HB) Material Weight: 0.902(CAT HB) Blade type: 1.000 (PAT)

Net correction: 0.5390

Adjusted unit production:

Adjusted fleet production:

250.26 LCY/hr

250.26 LCY/hr

JOB TIME AND COST

Fleet size:	1 Dozer(s)
Unit cost:	\$0.478/LCY

Total job time: 3.22 Hours
Total job cost: \$385

REVEGETATION WORK

	Permit Action:	_2025	Update	Po	ermit/Job#:	M2002106
ROJECT IDENTIFICAT	ΓΙΟΝ					
Task #: 003	State: Color	rado		Abbrev	iation:	None
Date: 6/26/2025	County: Cone			Filenan	_	000
User: CMG	, 	J		_	_	
Agency or organization na	me: DRMS					
<u>ERTILIZING</u>						
laterials						1
D		Units /	TT *4		. / TI •4	G . / /
Description		Acre	Unit	Cos	t / Unit	Cost /Acre
				\$		\$
				Mat	al Fertilizer terials t/Acre	\$0.00
pplication Description						Cost /Acre
						Cost /Acre
	ation Cost/Acre					
Description	ation Cost/Acre					\$
Description Total Fertilizer Applica	ation Cost/Acre					\$
Description Total Fertilizer Applica	ation Cost/Acre					\$ \$0.00
Description Total Fertilizer Applica						\$ \$0.00
Description Total Fertilizer Applica ILLING Description						\$ \$0.00 Cost /Acre
Description Total Fertilizer Applica ILLING Description Total Tilling Cost/Acree				Rate – PLS LBS / Acre	Seeds per SQ. FT	\$ \$0.00 Cost /Acre
Description Total Fertilizer Applica ILLING Description Total Tilling Cost/Acree				PLS		\$ \$0.00 Cost /Acre \$ \$0.00
Description Total Fertilizer Applica ILLING Description Total Tilling Cost/Acre EEDING Seed Mix Sand Dropseed Crested Wheatgrass - Sta				PLS LBS / Acre	per SQ. FT	\$ \$0.00 Cost /Acre \$ \$0.00
Description Total Fertilizer Applica ILLING Description Total Tilling Cost/Acre EEDING Seed Mix Sand Dropseed				PLS LBS / Acre	per SQ. FT 14.33	\$ \$0.00 Cost /Acre \$ \$0.00 Cost /Acre

Description	Cost /Acre
Drill Seeding (DRMS Survey Cost)	\$242.30
Total Seed Application Cost/Acre	\$242.30

MULCHING and MISCELLANEOUS

Materials

	Units /			
Description	Acre	Unit	Cost / Unit	Cost /Acre
Hay, delivered	2.00	TON	\$504.56	\$1,009.12
Herbicide - Curtail @ 4.0 pt/ac	1.00	ACRE	\$38.14	\$38.14
Total Mulch Materials Cost/Acre				\$1,047.25

Application

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$239.35
Power mulcher (MEANS 32 91 13.16 0350)	\$141.57
Weed spray, truck, non-aquatic area, nox. [DMG]	\$249.08
Total Mulch Application Cost/Acre	\$630.00

NURSERY STOCK PLANTING

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

JOB TIME AND COST

No. of Acres:	1	Cost /Acre:	\$1,972.20
Estimated Failure Rate:	50%	Cost /Acre*:	\$1,972.20
*Selected Replanting Work Items:	SEEDING, MULC	CHING	

Initial Job Cost: \$1,972.20

Reseeding Job Cost: \$986.10

Total Job Cost: \$2,958

Job Hours: 1.00

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description: Ha	ul reclamation e	quipment to an	d from job site		
te: Rio Grande Bentonite	Permi	t Action:2025	Update	Permit/Job	#: <u>M2002106</u>
PROJECT IDENTIFICAT	<u>ION</u>				
Task #: 004 Date: 6/26/2025 User: CMG		Colorado Conejos			None M106-004
Agency or organization	n name: DRM	S			
EQUIPMENT TRANSPOR	T DIC COST				
EQUITMENT TRANSFOR	I RIG COST				
					per day
			Cost Data	a Source: Ch	RG Data
Truck Tractor Desc	cription: GENI	ERIC ON-HIGH	WAY TRUCK TRA 400 HP (2ND H		IESEL POWERED,
Truck Trailer Desc	eription:	GENERIC FOLD	OING GOOSENEC		EOUIPMENT
11 4011 11 4111 2 650	p.nom		ΓRAILER (25T, 50		z Q o i i i i i i i
Cost Breakdown:			,	-	
Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons		
Ownership Cost/Hour:	\$21.47	\$38.32	\$48.96		
Operating Cost/Hour:	\$31.47	\$60.11	\$65.86		
Operator Cost/Hour:	\$22.52	\$22.52	\$22.52		
Helper Cost/Hour:	\$0.00	\$22.25	\$22.25		
Total Unit Cost/Hour	\$75.46	\$143.20	\$159.59		

NON-ROADABLE EQUIPMENT:

Machine Description	Weight/ Unit (TONS)	Owner ship Cost/hr/ unit	Haul Rig Cost/hr/unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
Cat D5N LGP - 5P	12.10	\$48.10	\$75.46	1	\$123.56	\$75.46	\$250.00
Drill/Broadcast	25.00	\$5.99	\$75.46	2	\$162.90	\$150.92	\$250.00
Seeder with							
Tractor							

Subtotals: \$286.46 \$226.38 \$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, 4x2, 1/2 T.	\$20.11	1	\$20.11	\$20.11

Subtotals: **\$20.11 \$20.11**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	ANTONITO	
Total one-way travel distance:	15.00	miles
Average Travel Speed:	45.00	mph

Total Non-Roadable Mob/Demob Cost *

'* two round trips with haul rig:
Total Roadable Mob/Demob Cost **

\$1,914.81

\$13.41

disk to the terminal	
** one round trip, no haul rig:	
one round dip, no nadi rig.	

<u>Transportation Cycle Time:</u>

ation Cycle Time:		
	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.33	0.33
Return Time (Hours):	0.33	0.33
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.67	0.67

JOB TIME AND COST

Total job time: _	3.33	Hours
Total job cost:	\$1,928	