

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

# Tierra Piedra Ranch- AM-1 Adequacy Review #2

1 message

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

Wed, Sep 3, 2025 at 8:19 AM

To: Nathan Barton <NABarton@wastelineinc.net>

Cc: Ryan Clark <ryan@petrox-resources.com>, trent@coxinet.net, Jared Ebert - DNR <jared.ebert@state.co.us>

Good morning,

Attached to this email is a pdf of the Division's Adequacy Review #2 letter and Reclamation Cost Estimate for the Amendment Application (AM-1) for the Tierra Piedra Gravel Pit, permit number M-2009-081.

A hard copy will not be sent unless requested. Please feel free to reach out if you have any questions or concerns.

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

TierraPiedra\_AM1\_AdequacyReview2\_M2009081.pdf

TierraPiedra\_CostEstimate2025\_M2009081.pdf 228K



September 3, 2025

Ryan Clark Tierra Piedra Ranch, LLC 12600 W. Colfax, Ste C440 Lakewood, CO 80215

Re: Tierra Piedra Gravel Pit, Permit No. M-2009-081

**Receipt of 110c Construction Materials Amendment Application** 

**Adequacy Review #2** 

Dear Ryan Clark:

On July 1, 2025, the Division of Reclamation, Mining and Safety ("Division" or "DRMS") received your 110c Construction Materials Reclamation Amendment Application Package for the Tierra Piedra Ranch Gravel Pit, permit no. M-2009-081. The Application was deemed complete on July 21, 2025. The Division sent a Preliminary Adequacy Review Letter on August 11, 2025, and received a response from the Operator on August 20, 2025. Based on review of the material submitted, the Division has identified the following items must be addressed before the application can be approved. Please submit a cover letter responding to each of the items listed below. Please submit revised Exhibits as necessary.

### **Rule 6.3.2- Exhibit B- Site Description:**

1. A wildlife statement prepared by the Colorado Parks and Wildlife (CPW) is not required for 110c operations. However, the application states that the area is abundant in wildlife, including mule deer. Review of CPW's Mule Deer Severe Winter HPHD mapping tool indicates that the permit area is located within a Mule Deer Severe Winter Range, which are defined as part of the overall winter range where 90% of individuals are located when the annual snowpack is at its maximum and/or temperatures are at a minimum in the two worst winters out of ten. These areas provide crucial wintering habitat during both severe and mild winters by providing ideal forage, vegetation, and topographic features for both species. Regardless of weather patterns, winter is the most stressful period for ungulates due to the challenges winter poses for forage availability. CPW recommends not constructing during the winter season (December 1 to April 30).

**Operator Response**: We understand the information you provided, as stated. Thank you. This was also, we believe, addressed by CPW (then CDOW, as we recall) in comments in 2009. We also note that you did not request any action on our part in this item. Was that overlooked? Please let us know. We did contact the



local CPW representative this year and verified that the proposed expansion would not significantly impact habitats or species.

**Division Response**: The Division is seeking clarification that the Operator will abide by CPW recommendations of not constructing during the winter season (December 1 to April 30).

## Rule 6.3.3- Exhibit C- Mining Plan:

- 2. Item 22 indicates the Operator intends to accept clean materials for backfill and stabilization in accordance with DRMS rules, including broken cement and borrow materials. To import backfill inert structural fill material generated outside the permit area, the Operator will need to submit a request for the importation of inert fill to the Division (see attached enclosure). Alternatively, the Operator could also provide the Division with a notice of the proposed backfill activity at a later date through a Technical Revision when the request is forthcoming, which this notice should include the following:
  - a. A narrative that describes the approximate location of the proposed activity
  - b. The approximate volume of inert material to be backfilled
  - c. A signed affidavit certifying that the material is clean and inert as defined in Rule 1.1(22)
  - d. The approximate dates the proposed activity will commence and end
  - e. An explanation of how the backfilled site will result in a post-mining configuration that is compatible with the approved post-mining land use
  - f. A general engineering plan stating how the material will be placed and stabilized in a manner to avoid unacceptable settling and voids

**Operator Response**: In past applications, the original or amendment applications have been assumed to be a request for importation, and no special request or Technical Revision has been required for this purpose either for processing/recycling or for beneficial backfill for reclamation. This is the first time we have been aware of a special form. At present, we cannot specify even an approximate location(s) for using off-site material of the approximate volume, but the standard procedures always include requiring a statement that the material is clean and inert in accordance with all local, State, tribal, and federal requirements. This is because the availability of such material varies (based on customer and project needs) and cannot be predicted, including during what part of mining/reclamation the material will be available. The use of the term "affidavit" implies that such a statement needs to be notarized: is that now required of those who may bring materials? We understand that the interpretation of the rules and regulations does not change, but we are unaware of any change in this requirement in the last several years (since last obtaining a permit). The requirement to file and pay for a technical revision is, to the best

of our knowledge and belief, new and requires information that has not been required in the past. Has guidance been published on this new requirement?

**DRMS Response**: In accordance with Rule 6.3.3, the description of the mining plan must be adequate to satisfy the requirements of Rule 3.1 and demonstrate compliance with Rule 3. Rule 3.1.5(9) requires an operator/applicant to provide the Office with a notice if structural fill generated outside of the permit area will be used for backfill; and that such a notice shall include specific information cited in the rule and listed above. As indicated in DRMS's initial Adequacy Review Letter, the Operator can submit the previously provided TR form to import inert backfill material when they have a better idea of the nature and backfill location of the imported inert backfill material in accordance with Rule 3.1.5(1)(9). Rule 3.1.5(9)(c) requires that a signed affidavit certifying that the imported material is clean and inert; however, the rule does not require the affidavit be notarized. The Operator will be required to submit both these items if they intend to import structural fill from outside the permit area. If the Operator commits to submitting a TR and signed affidavit before importation of structural fill material from outside the permit area, then no further action is needed. Please note if the Operator imports structural fill material generated outside the permit area without submitting a signed affidavit and TR to the DRMS beforehand, this could result in a Notice of Possible Violation and a Board Hearing in accordance with Rules 3.2(3) and 3.2(4).

#### **Rule 6.3.4- Exhibit D – Reclamation Plan:**

3. Item 3d states that the landowner may decide to monocrop alfalfa instead of the proposed reclamation seed mix. Monocropping alfalfa would not be sufficient to establish a diverse, vegetative cover from species native to the region pursuant to Rule 3.1.10(1), and not suitable for a post-mine land use of grazing/wildlife habitat. The applicant would need to submit an Amendment to revise the post mine land use to cropland.

### **Rule 6.3.9- Exhibit I- Proof of Filing with County Clerk:**

**4.** In accordance with Rule 1.6.2(1)(c), any changes to the application must be reflected in the public review copy which was placed with the Archuleta County Clerk and Recorder. In accordance with Rule 6.3.9, please provide our office with an affidavit or receipt indicating the date the revised application pages were placed with the Archuleta County Clerk and Recorder.

**Operator Response:** As discussed in both the review letter and by phone, the

Division considers the twenty-some items to be matters of clarification and not to be amendments to the application. Therefore, we do not believe that Rule 1.6.2(1)(c) is applicable or appropriate in this situation.

**DRMS Response**: While DRMS did express that many of the adequacy items were clarifications and questions rather than revisions to the amendment application, any changes to the application, including the Adequacy Review Response, revised exhibit text, revised figures, new figures, etc., must be placed with the Archuleta County Clerk and Recorder in accordance with Rule 1.6.2(2) until final agency action on the application. After the revised and/or new material is submitted to the county clerk, please provide our office with an affidavit or receipt indicating the date the revised application pages were placed with the Archuleta County Clerk and Recorder pursuant to 1.6.2(2).

### **Financial Warranty:**

**5.** Enclosed is the reclamation cost estimate for the Amendment Application. Please review the estimate and let us know if you concur.

### **Response to Inspection Report Response:**

Item 1: Thank you for the clarification regarding the date of last activity, please include an accurate date of last activity in future Annual Report submittals. This inspection problem is considered abated, as the Operator has provided notice of the resumption of mining operations, which will occur before the corrective action due date of October 13, 2025.

Item 2: DRMS provides approval of an extension to October 13, 2025 to place new boundary markers at the site.

Item 3: Acknowledged, thank you for the clarification. A revised Inspection Report will be issued.

Item 4: Acknowledged.

Item 5: Acknowledged.

This concludes the Division's second adequacy review of the amendment application package. This letter shall not be construed to mean that there are no other adequacy deficiencies in the application package. Please note the Division is required to issue a decision regarding the

application on **September 12, 2025**. If all adequacy deficiencies have not been addressed before this date, please request an extension of time to allow for continued review of the application. Please be aware that the Division may deny the application if outstanding adequacy issues remain when the decision date arrives and/or inadequate time is provided for the Division to review the response to the adequacy issues.

If you have any questions, please contact me by telephone at (720) 793-3041, or by email at <a href="mailto:chris.girardi@state.co.us">chris.girardi@state.co.us</a>.

Sincerely,

Chris M. Girardi

**Environmental Protection Specialist** 

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CC: Jared Ebert, DRMS

Nathan Barton, WASTELINE, INC.

Mary Buck, EXOK, Inc.

**Enclosure: DRMS Reclamation Cost Estimate** 

### **COST SUMMARY WORK**

Tierra P	iedra Gravel Pit	Per	rmit Action:	2025 Update	Permit/Jol	b#: <u>M2009081</u>
'ROJECT	IDENTIFICA	TION				
Task #:	000	State:	Colorado		Abbreviation:	None
Date:	9/2/2025	County:	Archuleta		Filename:	M081-000
User:	CMG					

### TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Finish grade along pond banks	EXCAVATE	1	45.50	\$7,138
002	Topsoil replacement around pond, rip compaction	DOZER	1	6.96	\$2,414
003	Revegetation	REVEGE	1	3.00	\$2,156
004	Mob/ Demob	MOBILIZE	1	4.86	\$4,486
		60.32	\$16,194		

### **INDIRECT COSTS**

### OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$327
Performance bond:	1.05	Total =	\$170
Job superintendent:	30.16	Total =	\$2,266
Profit:	10.00	Total =	\$1,619

 $TOTAL O \& P = \underbrace{\$4,382}$   $CONTRACT AMOUNT (direct + O \& P) = \underbrace{\$20,576}$ 

### LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs):	\$0	Total =	\$0
Engineering work and/or contract/bid preparation:	4.25	Total =	\$875
Reclamation management and/or administration:	5.00	_	\$1,029

CONTINGENCY: 0.00 Total = \$0

TOTAL INDIRECT COST = \$6,286

TOTAL BOND AMOUNT (direct + indirect) = \$22,480

# HYDRAULIC EXCAVATOR WORK

Task description:	_Fir	nish grade a	long pond			
Tierra Piedra	Gravel Pit	Permi	t Action:	2025 Update	Permit/Job#:	M2009081
PROJECT IDENT	TIFICATIO	<u>N</u>				
Task #: 001		State:	Colora	do	Abbreviation:	None
	2025	County:	Archul	leta	Filename:	M081-001
User: CM	G	-				
Agency or organi	zation name:	<u></u>	DRMS			
<b>HOURLY EQUIP</b>	MENT COS	<u>ST</u>				
Basic Machine:	Cat 3	20D L 9'-6'	" Stick	Horsepower:	148	
Attachment 1:	ROP	S Cab		Weight (MT):	21.55	
				Shift Basis:	1 per day	/
				Data Source:	(CRG)	
Cost Breakdown:						
	_	<b></b>		Utilization %		
Ownership Cost/H Operating Cost/H		\$60.46 \$37.10		NA 100		
Operator Cost/Ho		\$59.31		NA		
Total Unit Cost/H		\$156.87				
Total Fleet Cost/F	lour:	\$156.87				
MATERIAL QUA	NTITIES					
Initial volume:	12,500		CCY	Swell factor:	1.165	
Loose volume:	14,563		LCY			
Source of estimat	ed volume:		Divis	ion of Reclamation, M	lining & Safety	
Source of estimat		or:		landbook		
HOURLY PRODU	ICTION					
HOURET TRODE	<u> </u>					
Excavator Cycle Ti	me (load buc	ket, swing lo	oaded, dun	np bucket, swing empt	<u>ty):</u>	
Basic Job Conditi	on Description	on:			AVERAGE	
Secondary Job Co			cription:		AVERAGE	
Cycle Time Value	<b>::</b>				0.284	minutes
Load Bucket Capac	itv					
	<del></del>		Buc	ket Size Class:	_ La	arge
Rated Capacity:	2	.08	LCV	(heaped)		
Bucket Fill Factor		.975			ist aggregates (95-100%	5) 0.975
Adjusted Capacity		.03	LCY			
Job Condition Corr	ection Factor	rs Site Alti	tude: <u>6200</u>	feet		
			Source			
Altitude Adj:	0.90		(CAT HI			
Job Efficiency:	0.83		(1 shift/d			
Net Correction:	0.75		multiplie	r		

Unadjusted Hourly Unit Production:	428.45	LCY/Hour
Adjusted Hourly Unit Production:	320.05	LCY/Hour
Adjusted Hourly Fleet Production:	320.05	LCY/Hour

# JOB TIME AND COST

Fleet size:	1	Excavator	Total job time:	45.50	Hours
Unit cost:	\$0.490	/LCY	Total job cost:	\$7.138	

## BULLDOZER WORK

Tierra P	iedra Grav	el Pit	Permi	t Action:	2025 Update	Permit/Job#:	M2009081
PROJECT I	DENTIFIC	CATIO	N				
		J. 1 1 1 U					
Task #:	002		State:	Colorado		Abbreviation:	None
Date:	8/12/202	5	County:	Archuleta		Filename:	M081-002
User:	CMG		_				
Agency or	organizatio	name:		DRMS			
<u>IOURLY E</u>	QUIPMEN	T COS	<u>ST</u>				
Basic Mach	nine: C	at D8T	- 8SU				
Horsepowe		10			_		
Blade Type		emi-Uni			_		
Attachmen		shank r			_		
Shift Basis: Data Source		per day CRG)	<u> </u>		_		
Data Source		JKG)			_		
Cost Breakdo	<u>own</u> :				Utilization %		
Ownership	Cost/Hour:	\$17	9.60		NA		
Operating (			0.45		100		
Ripper owr							
Cost/Hour:		\$15			NA		
Ripper op.		\$3.6			40		
Operator C	ost/Hour:	\$38	3.02		NA		
Total unit (	Cost/Hour:	\$34	7.00				
Total Fleet	Cost/Hour:		7.00				
MATERIAI	L OUANTI	TIES					
Initial Volu Swell facto		20					
Loose volu	-	40 LCY	Y				
				<del></del>			
	estimated vo		(3acres)	)(43560sq.ft./a	(0.5'D)/27 = 24	420 CY	
factor:	estimated sv	ell	Cat Hai	ndbook			
HOURLY P	RODUCT	<u>ON</u>					
Average nu	ısh distance	•	200 feet				
Unadjusted		•	491.9 LC	Y/hr	<del></del>		
production							
Materials c			Loos	e stockpile 1.2			
	•						
description	•						
Average pugradient:		0 %	, ,				

Material weight: 1,600 lbs/LCY

Weight description: \_\_Top Soil

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:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.8593

Adjusted unit production: 422.69 LCY/hr

Adjusted fleet production: 422.69 LCY/hr

### **JOB TIME AND COST**

 Fleet size:
 1 Dozer(s)

 Unit cost:
 \$0.821/LCY

Total job time: 6.96 Hours
Total job cost: \$2,414

### **REVEGETATION WORK**

Task description	: <u>R</u>	evegetation						
Tierra Piedra	Gravel Pit	Permit A	Action:	2025	Update	P	ermit/Job#:	M2009081
PROJECT IDEN	TIFICATIO	<u>ON</u>						
Task #:00	3	State:	Colorado	)		Abbrev	iation:	None
	2/2025	_ County:	Archulet	a		Filenan	ne:	M081-003
User: <u>CN</u>	/IG	_						
Agency or organ	nization name	e: <u>DR</u>	MS					
FERTILIZING								
Materials			1	Units /				
Description				Acre	Unit	Cos	t / Unit	Cost /Acre
						\$		\$
							15 49	
							al Fertilizer terials	
							t/Acre	\$0.00
Description								Cost /Acre
								\$
Total Fertilize	er Application	on Cost/Acre						\$0.00
<u> FILLING</u>								
Description								Cost /Acre
								\$
Total Tilling	Cost/Acre							\$0.00
<u>SEEDING</u>								
						Rate –		
Seed Mix						PLS	Seeds	Cost /Acre
						LBS / Acre	per SQ. FT	
Crested Wheat		lard				3.00	13.77	\$16.54
Smooth Brome	e - Lincoln				-	4.00	13.31	\$19.89

2.00

5.00

14.00

9.64

2.18

38.91

\$6.11

\$18.92

\$61.46

## Application

Alfalfa - NK Spredor 3 (creeping)

Sainfoin - Remont

**Totals Seed Mix** 

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

### **MULCHING and MISCELLANEOUS**

### Materials

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

Application

Description	Cost /Acre
Weed spray, hand, aquatic area, nox. [DMG]	\$203.77
Total Mulch Application Cost/Acre	\$203.77

### **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:	3	Cost /Acre:	\$507.53	
Estimated Failure Rate:	25%	Cost /Acre*:	\$303.76	
*Selected Replanting Work Items:	SEEDING			

\*Selected Replanting Work Items: SEEDING

Initial Job Cost: \$1,522.59

Reseeding Job Cost: \$227.82

Total Job Cost: \$1,750

Job Hours: 3.00

### EQUIPMENT MOBILIZATION/DEMOBILIZATION

	Task descr	iption: Mo	b/ Demob				
Site:	Tierra I	Piedra Gravel Pit	Permit	Action:	2025 Update	Permit/Job#	: <u>M2009081</u>
]	PROJECT	IDENTIFICATION	<u>N</u>				
	Task #:	004	State:	Colorado		Abbreviation:	None
	Date:	9/2/2025	County:	Archuleta		Filename:	M081-004
	User:	CMG					
	Agency or	organization name:	DF	RMS			
]	EQUIPME	NT TRANSPORT	RIG COST				
	Shift ba	asis:				_1	per day
	Cost Dat	ta Source:					RG Data
	Truck 7	Γractor Description:		ENERIC ON- 0 HP (2ND H		RUCK TRACTOR, 6X4	DIESEL POWERED,
	Truck Tı	railer Description:				NECK, DROP DECK E	OUIPMENT
	1100011 11	and Description			, 50T, AND 10		Q 0 11 11121 (1
<u>.</u>	Cost Breakd	lown:					
=	Available	Rig Capacities	0-25 Tons	26-50 T	ons 51+	Tons	
-	Ownership	Cost/Hour:	\$21.47	\$38.32	\$48	.96	
-	Operating	Cost/Hour:	\$31.47	\$60.11	\$65	.86	
-	Operator C	Cost/Hour:	\$22.52	\$22.52	\$22	.52	

### **NON-ROADABLE EQUIPMENT:**

\$0.00

\$75.46

Helper Cost/Hour:

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	1	\$354.47	\$159.59	\$250.00
Drill/Broadcast	25.00	\$5.99	\$75.46	2	\$162.90	\$150.92	\$250.00
Seeder with							
Tractor							
Cat 320D L 9'-	23.70	\$60.46	\$75.46	1	\$135.92	\$75.46	\$250.00
6" Stick							

\$22.25

\$159.59

Subtotals: \$653.29 \$385.97 \$750.00

### **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
Lube Truck, 4x2, 190 HP	\$40.52	1	\$40.52	\$40.52

\$22.25

\$143.20

Subtotals:	\$60.63	\$60.63

### **EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region:	PAGOSA SPRINGS	
Total one-way travel distance:	28.00	miles
Average Travel Speed:	60.00	mph
Total Non-Roadable Mob/Demob Cost *	\$4,429.85	
'* two round trips with haul rig:	ψτ,τ29.03	
Total Roadable Mob/Demob Cost **	\$56.59	
** one round trip, no haul rig:	φ30.33	

# <u>Transportation Cycle Time:</u>

	Non- Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.47	0.47
Return Time (Hours):	0.47	0.47
Loading Time (Hours):	0.75	NA
Unloading Time (Hours):	0.75	NA
Subtotals:	2.43	0.93
Suototais.	2.13	0.75

### JOB TIME AND COST

Total job time:	4.87	Hours
Total job cost:	\$4,486	