Mine:		Lorencito		-			
NPDES	SID. No.:	Pond #5		-			
Inspec	tion Period:	First Quarter 20	20	2			
Inspec	tion Date:	3/5/2020		-			
Genera	al Description or R	eference to Site P	lan:				
bedroc	ond is located West ck and the embank rges south into Cov	ment keyed into b	ning scheduled for pedrock. Side slope: e.	2001-2002. The s are less than 2	pond is partially i H:1V. The primary	ncised int	ю.
EMBA	NKMENT						
1. 2. 3.	Erosion forming Is wave action ca On the	ausing erosion: upstream embank	ment?	Excellent Extensive Yes	Moderate Some	Few Few No	Poor None
	At the p	orincipal spillway in	nlet?	Yes		No	Х
4.	Erosion of the do	ownstream toe of	the embankment?	Yes		No	
	Cause o	f erosion can be a	ttributed to:				
5.	Is seepage occur	ring through the d	lam?	Yes	a	No	X
	Could th	nis seepage cause	potential instability	/?			
	8-						
PRINICI	PAL SPILLWAY						
1. 2. 3. 4.	Is the inlet free o Is the discharge o Is erosion occurri	oillway system in v f debris and restri- outlet free of restr ng at the discharg	ctive material? ictive material? se outlet?	Yes Yes Yes	X X X	No No No	X
	Evaluate the seve	erity:	Extensive	Moderate	Just Starting	None	

IERG	ENCY SPILLWAY		
1.	Does it appear that the emergency spillwa	y has discharged water since t	he last inspection?
		YES	NOX
2.	Is erosion occurring at any section of the e	mergency spillway?	
		YES	NOX
DMII	MENT STORAGE CAPACITY		
1.	Has the design storage capacity of the rese	ervoir been surpassed? YES	NOX
	Explain: Sediment in pond does not appea	r to be over capacity by visual	inspection.
	-		
HER	OBSERVATIONS		
	Pond is empty.		
	<u></u>		

NPDES ID. No.: 5

Mine:		Lorencito					
NPDE	S ID. No.:	Pond #6					
Insped	ction Period:	First Quarter 2	020				
Insped	ction Date:	3/5/2020					
Gener	al Description or R	eference to Site	Plan:				
into b	ond is located soutl edrock and the eml rges south into Jeff	bankment keyed	into bedrock. Side	for 2001-2002. The slopes are less th	e pond is partiall nan 2H:1V. The p	y incised rimary	
EMBA	NKMENT						
1.	Adequacy of the	vegetative cove	r:	Excellent	Moderate	Few	Poor
2.				Extensive	Some	Few	None
3.							
		upstream embar				No	Х
	At the p	rincipal spillway	inlet?	Yes	<u> </u>	No	X
4.	Erosion of the do	wnstream toe o	f the embankmen	t? Yes		No	Х
	Cause o	f erosion can be	attributed to:				
	1						
5.	ls seepage occurr	ing through the	dam?	Yes		No	X
	Could th	is seepage cause	e potential instabil	ity?			
PRINICI	PAL SPILLWAY						
1.	Is the principal sp	illway system in	working order?	Yes	X	No	
2.	Is the inlet free of	debris and rest	rictive material?	Yes	X		
3.	Is the discharge o			Yes	X		
4.	Is erosion occurri	ng at the dischar	ge outlet?	Yes		No	X
	Evaluate the seve	rity:	Extensive	Moderate	Just Starting	None	

1. Does it appear that the emergency spillway has discharged water since the last inspection?  YES							
2. Is erosion occurring at any section of the emergency spillway?  YES					ENCY SPILLWAY	EMERGE	
2. Is erosion occurring at any section of the emergency spillway?  YES	Does it appear that the emergency spillway has discharged water since the last inspection?						
SEDMIMENT STORAGE CAPACITY  1. Has the design storage capacity of the reservoir been surpassed? YES		Х	NO	YES			
1. Has the design storage capacity of the reservoir been surpassed?  YES NOX  Explain: Visual observation  OTHER OBSERVATIONS				mergency spillway?	Is erosion occurring at any section of	2.	
Has the design storage capacity of the reservoir been surpassed?  YES		Х	NO	YES			
Explain: Visual observation  OTHER OBSERVATIONS					MENT STORAGE CAPACITY	SEDMIM	
Explain: Visual observation  OTHER OBSERVATIONS		Х	NO		Has the design storage capacity of the	1.	
Pond is holding water. Water level is well below the decant.							
			<del></del> %	pelow the decant.	Pond is holding water. Water level is		
					2		

NPDES ID. No.: 6

Mine:			Lorencito						
NPDES	ID. No.:		Pond #7		-				
Inspect	ion Period	d:	First Quarter 202	20	-				
Inspect	ion Date:		3/5/2020		_				
Genera	l Descript	ion or Re	ference to Site P	lan:					
into be	drock and	the emb		ning scheduled fo nto bedrock. Side s					
EMBAN	IKMENT								
1. 2.	Erosion	forming G			Excellent Extensive	Mod	derate ne	Few Few	Poor None
3.	is wave	On the u	using erosion: pstream embank incipal spillway ir			es es		No No	X
4.	Erosion	of the dov	wnstream toe of	the embankment?	Y	es		No	X
		Cause of	erosion can be a	ttributed to:					
5.	Is seepa	ge occurri	ing through the d	am?	Υ	es		No	Х
		Could thi	s seepage cause	potential instabilit	y?				
		-							
PRINICI	PAL SPILL	WAY							
1. 2. 3. 4.	Is the inle	et free of charge ou	illway system in v debris and restri utlet free of restr ng at the discharg	ctive material? ictive material?	Y	es X es X es X		No No	X
7.		the sever	=	Extensive	Moderate			None None	

			NPDES ID. No.:	7
EMERG	ENCY SPILLWAY			
1.	Does it appear that the emergency spillway has disch	narged water since the last	inspection?	
		YES	NOX	_
2.	Is erosion occurring at any section of the emergency	spillway?		
		YES	NOX	_
SEDMI	MENT STORAGE CAPACITY			
1.	Has the design storage capacity of the reservoir beer	surpassed? YES	NOX	_
	Explain: Visual observation			_
	9			-
OTHER	OBSERVATIONS			
	Pond empty at time of inspection.			_
				_

Mine:		Lorencito		<del>-</del>			
NPDES	S ID. No.:	Pond #8		<del></del>			
Inspec	tion Period:	First Quarter 202	20	-			
Inspec	tion Date:	3/5/2020		-			
Genera	al Description or R	Reference to Site P	lan:				
into be	edrock and the em	h of the area of mi bankment keyed ir f Canyon drainage.	nto bedrock. Side s				
EMBAN	NKMENT						
1.		vegetative cover:		Excellent	Moderate	Few	Poor
2.	Erosion forming			Extensive	Some	Few	None
3.	Is wave action ca	ausing erosion:					
	On the	upstream embank	ment?	Yes		No	Χ
	- At the	orincipal spillway ir	nlet?			No	Х
4.	Erosion of the de	ownstream toe of	the embankment?	Yes		No	X
	Cause o	of erosion can be a	ttributed to:				
	<del>a=</del>						
5.	Is seepage occur	ring through the d	am?	Yes		No	Χ
	Could ti	his seepage cause	potential instabilit	y?			
PRINICI	PAL SPILLWAY						
4	la alea materia de la	-:!!			.,		
1.		pillway system in w	-	Yes	X	No	
2.		of debris and restric		Yes	X	No	
3.	_	outlet free of restri		Yes	X	No	
4.	Is erosion occurr	ing at the discharg	e outlet?	Yes		No	Χ
	Evaluate the seve	erity:	Extensive	Moderate	Just Starting	None	

		NPDES ID. No.: 8
MERGENCY SPILLWAY		
1. Does it appear that the emo	gency spillway has discharged water since	the last inspection?
	YES	NOX
2. Is erosion occurring at any	ction of the emergency spillway?	
	YES	NOX
EDMIMENT STORAGE CAPACITY		
1. Has the design storage capa	ty of the reservoir been surpassed? YES	NOX
Explain: Visual observation		
-		<del></del>
THER OBSERVATIONS		
Pond empty at time of inspe	tion.	

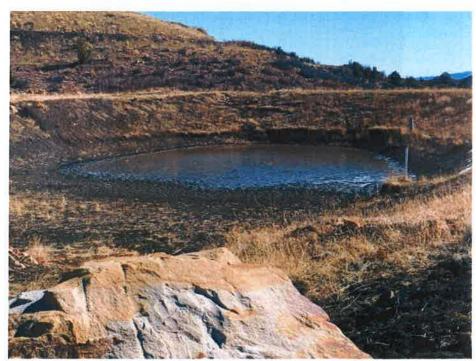
Mine:		Lorencito					
NPDES	ID. No.:	Pond #9A (South)					
Inspec	tion Period:	First Quarter 2020					
Inspec	tion Date:	3/5/2020					
This po	ond is located sout	Reference to Site Plan: th of the area of mining subankment keyed into be					
uiscriai	iges south into ter	т сапуоп.					
EMBAN	NKMENT						
1. 2.	Erosion forming			ccellent ctensive	Moderate Some	Few Few	Poor None
3.		ausing erosion: upstream embankment? principal spillway inlet?	<b>&gt;</b>			No No	X
4.		ownstream toe of the en	nbankment?			No	х
	Cause o	of erosion can be attribut	ted to:				
	·						
5.	ls seepage occui	rring through the dam?		Yes		No	X
	Could t	his seepage cause poten	tial instability?_				
	4	1					
PRINICI	IPAL SPILLWAY						
1. 2.		pillway system in workin of debris and restrictive r	_	Yes Yes	X		
3.		outlet free of restrictive		Yes	X	No	
4.	-	ring at the discharge outl		Yes		No	Х
	Evaluate the sev	verity: Exten	nsive Mo	oderate	Just Starting	None	

		NPDE:	S ID. No.:	9A
EMERG	ENCY SPILLWAY			
1.	Does it appear that the emergency spillway has discharged water since the la	st inspec	tion?	
	YES	NO	X	-
2.	Is erosion occurring at any section of the emergency spillway?			
	YES	NO	X	
SEDMIN	MENT STORAGE CAPACITY			
1.	Has the design storage capacity of the reservoir been surpassed?  YES	NO	X	<u> </u>
	Explain: Visual observation			į
				-
OTHER	OBSERVATIONS			
	Pond was not holding water at time of inspection.		29	-
				-

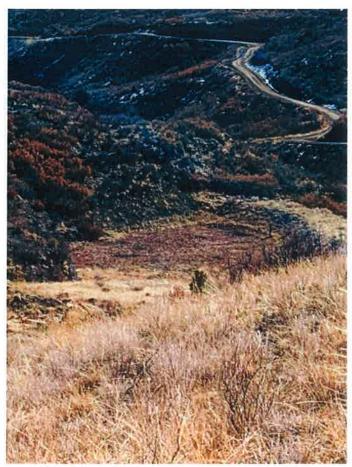
Mine:		Lorencito	)	_			
NPDES	ID. No.:	Pond #9 (	North)	_			
Inspec	tion Period	d: <u>First Quar</u>	ter 2020	_			
Inspec	tion Date:	3/5/2020		_			
Genera	al Descript	ion or Reference to	Site Plan:				
into be	drock and		a of mining scheduled for eyed into bedrock. Side led drainage.				
EMBAN	NKMENT						
1.	Adequa	cy of the vegetative	cover:	Excellent	Moderate	Few	Poor
2.	Erosion	forming Gullies:		Extensive	Some	Few	None
3.	Is wave a	action causing erosi					
		On the upstream e		Yes		No	
		At the principal spi	llway inlet?	Yes		No	Χ
4.	Erosion	of the downstream	toe of the embankment	? Yes		No	Х
		Cause of erosion ca	n be attributed to:	0			
5.	ls seepag	ge occurring throug	n the dam?	Yes		No	X
		Could this seepage	cause potential instabil	ity?			
PRINICI	PAL SPILL	WAY					
1.	Is the pri	ncipal spillway syste	em in working order?	Yes	X	No	
2.			restrictive material?	Yes	X	(C)()(A)	
3.			of restrictive material?	Yes	X	No	
4.		n occurring at the d		Yes		No	X
	Evaluate	the severity:	Extensive	Moderate	Just Starting	None	

			NPDES I	ID. No.:_	9
EMERG	ENCY SPILLWAY				
1.	Does it appear that the emergency spillway has disch	narged water since the last	inspection	on?	
		YES	NO	X	_
2.	Is erosion occurring at any section of the emergency	spillway?			
		YES	NO	Х	-
SEDMI	MENT STORAGE CAPACITY				
1.	Has the design storage capacity of the reservoir beer	n surpassed? YES	NO	х	-
	•				<del></del>
					_
OTHER	OBSERVATIONS				
	Pond empty at time of inspection.				
	/ <u></u>				<u></u>
OTHER				-	-

# QUARTERLY SEDIMENTATION POND INSPECTION REPORT Lorencito Canyon Mine- March 5, 2020



Pond 6



Pond 7



Pond 8



Pond 9



Pond 9a

#### Certification

This inspection was conducted by Vince Massarotti, a qualified professional and MSHA certified inspector of earth and rock-fill embankments, waste banks and impoundments, under the direction of Mr. Charles McGlothlin, a registered professional engineer licensed in the State of Colorado.

This is to certify, to the best of my knowledge and belief, that maintenance, since the previous certification and as determined during this inspection and discussions with mine personnel, is in accordance with designs as approved by the Division of Reclamation, Mining and Safety.

Inspector

Date

Charles W. McGlothin

**Professional Engineer** 

Inspections completed in compliance with Rule 4.09.1(11)(b) must be submitted to the Division within two weeks of completion.