CDMR Rule 4.05.9(17)

Mine:		Lorencito		-			
NPDES	ID. No.:	Pond #5		_			
Inspect	tion Period:	Second Quarter	2019	_			
Inspect	tion Date:	6/19/2019		_			
	al Description or R		Plan: ining scheduled fo	r 2001-2002. The	pond is partially	inciséd in	to
	k and the embank ges south into Cov	•	bedrock. Side slope ge.	es are less than 2	H:1V. The primar	У	
EMBAN	NKMENT						
1.	Adequacy of the	vegetative cover	•	Excellent	Moderate	Few	Poor
2.	Erosion forming	-	•	Extensive	Some	Few	None
3.	Is wave action ca						
	On the	upstream emban	kment?	Yes		No	Χ
	At the p	orincipal spillway	inlet?	Yes		No	X
4.	Erosion of the do	ownstream toe of	f the embankment	? Yes		No	Х
	Cause o	f erosion can be	attributed to:	8			
5.	Is seepage occur	ring through the	dam?	Yes		No	Х
	Could th	nis seepage cause	e potential instabili	ty?			
PRINICI	PAL SPILLWAY						
1.	Is the principal s	oillway system in	working order?	Yes	X	No	
2.	Is the inlet free o			Yes	X	No	
3.	Is the discharge			Yes	X	No	
4.	Is erosion occurr			Yes		No	X
	Evaluate the seve	erity:	Extensive	Moderate	Just Starting	None	

		NPDES ID. No.: 5
EMERGENCY SPILLWAY		
1. Does it appear that the emergency spillway has	discharged water since	the last inspection?
	YES	NOX
Is erosion occurring at any section of the emerg	gency spillway?	
		NO V
	YES	NOX
SEDMIMENT STORAGE CAPACITY		
Has the design storage capacity of the reservoir	r been surpassed? YES	NOX
Explain: Pond will be surveyed next quarter.		- T
		-
OTHER OBSERVATIONS		
Pond has some sediment and will be surveyed in	next quarter to ensure st	orage capacity is not
surpassed. Pond is empty.		
-		n n
Vina Massurati		
MSHA CERTIFIED IMPOUNDMENT INSPECTOR		

Page 2 of 2

Date: 6-20-2019

CDMR Rule 4.05.9(17)

Mine:	:	Lorencito					
NPDE	S ID. No.:	Pond #6		— 3			
Inspe	ction Period:	Second Quarte	r 2019				
Inspec	ction Date:	6/19/2019		_			
Gener	ral Description or R	eference to Site	Plan:				
into b	ond is located sout edrock and the em arges south into Jefi	bankment keyed	into bedrock. Side	or 2001-2002. Th slopes are less ti	e pond is partially han 2H:1V. The pi	/ incised rimary	
EMBA	NKMENT						
1.	Adequacy of the	vegetative cover	r:	Excellent	Moderate	Few	Poor
2.		-		Extensive	Some	Few	None
3.	Is wave action ca	ausing erosion:					
	On the	upstream emban	kment?	Yes		No	Х
	At the p	rincipal spillway	inlet?			No	Х
4.	Erosion of the do	ownstream toe of	f the embankment	? Yes		No	Х
	Cause o	f erosion can be	attributed to:	<i>1</i> 22			
5.	Is seepage occur					No	
	Codia ti	ns seepage cause	e potential instabili	ty			
PRINIC	IPAL SPILLWAY						
1.	Is the principal sp	oillway system in	working order?	Yes	X	No_	
2.	Is the inlet free o		_	Yes	X	No	
3.	Is the discharge of	utlet free of rest	rictive material?	Yes	X	No	
4.	ls erosion occurri	ng at the dischar	ge outlet?	Yes		No	Χ
	Evaluate the seve	erity:	Extensive	Moderate	Just Starting	None	

			NPDES	S ID. No.: 6
EMERG	ENCY SPILLWAY			
1.	Does it appear that the emergency spillway has dis	charged water since the las	st inspec	tion?
		YES	NO	X
2.	Is erosion occurring at any section of the emergence	cy spillway?		
		YES	NO	X
SEDMII	MENT STORAGE CAPACITY			
1.	Has the design storage capacity of the reservoir be	en surpassed? YES	NO	Х
	Explain: Visual observation			
OTHER	OBSERVATIONS Holding a small amount of water.			

MSHA CERTIFIED IMPOUNDMENT INSPECTOR

Date: 6-20-2019

Page 2 of 2

CDMR Rule 4.05.9(17)

Mine:		Lorencito		_			
NPDES	ID. No.:	Pond #7					
Inspect	tion Period:	Second Quarte	r 2019	_			
Inspect	tion Date:	6/19/2019		_			
Genera	al Description or R	eference to Site	Plan:				
into be		bankment keyed	nining scheduled fo into bedrock. Side e.				
EMBAN	KMENT						
1.	Adequacy of the	vegetative cover	r:	Excellent	Moderate	Few	Poor
2.	Erosion forming	Gullies:		Extensive	Some	Few	None
3.	Is wave action ca	_					
		upstream emban		Yes		No	X
	At the p	rincipal spillway	inlet?	Yes		No	X
4.	Erosion of the do	ownstream toe o	f the embankment	? Yes		No	Х
	Cause o	f erosion can be	attributed to:	-			
5.	Is seepage occur	ring through the	dam?	Yes		No	X
	Could th	nis seepage cause	e potential instabil	ity?			
	-						
PRINICI	PAL SPILLWAY						
4	In the materature	-111			.,		
1.	Is the principal sp		_	Yes	X	No	
2.	Is the inlet free o			Yes	<u>X</u>	No	
3.	Is the discharge of			Yes	X	No	.,
4.	Is erosion occurri	ing at the dischar	ge outlet?	Yes		No	X
	Evaluate the seve	erity:	Extensive	Moderate	Just Starting	None	

			NPDES	ID. No.:7				
EMERG	ENCY SPILLWAY							
1.	. Does it appear that the emergency spillway has discharged water since the last inspection?							
		YES	NO	Χ				
2.	Is erosion occurring at any section of the emergency	y spillway?						
		YES	NO	Χ				
SEDMIN	MENT STORAGE CAPACITY							
1.	Has the design storage capacity of the reservoir bee		NO	X				
	Explain: Visual observation							
OTHER (OBSERVATIONS							
	Pond empty at time of inspection.			-				

MSHA CERTIFIED IMPOUNDMENT INSPECTOR

Date: 6-20-2019

Page 2 of 2

CDMR Rule 4.05.9(17)

Λ	/line:		Lorencito							
N	IPDES	ID. No.:	Pond #8							
Ir	nspec	tion Period:	Second Quarte	er 2019						
Ir	nspect	tion Date:	6/19/2019		_ s					
G	enera	al Description or R	eference to Site	Plan:						
in	This pond is located south of the area of mining scheduled for 2001-2002. The pond is partially incised into bedrock and the embankment keyed into bedrock. Side slopes are less than 2H:1V. The primary discharges south into Jeff Canyon drainage.									
EI	MBAN	NKMENT								
	1.	Adequacy of the	_	r:	Excellent	Moderate	Few	Poor		
	2.	Erosion forming			Extensive	Some	Few	None		
	3.	Is wave action ca	iusing erosion: upstream embar	alema a mai C	V					
			upstream empar Irincipal spillway				No			
		At the p	ппстраг эршичаў	inieti	res	=1/2	No	X		
	4.	Erosion of the do	wnstream toe o	f the embankment	? Yes		No	X		
		Cause o	f erosion can be	attributed to:						
	5.	ls seepage occurr	ring through the	dam?	Yes		No	X		
		Could th	nis seepage caus	e potential instabili	ity?					
PR	INICI	PAL SPILLWAY								
	1.	Is the principal sp	oillway system in	working order?	Yes	Χ	No			
	2.	Is the inlet free of			Yes	X	No			
	3.	Is the discharge o			Yes	X	-			
	4.	Is erosion occurri	ng at the discha	rge outlet?	Yes	-	No	X		
		Evaluate the seve	erity:	Extensive	Moderate	Just Starting	None			

			NPDES ID. No.: 8
/IERG	ENCY SPILLWAY		
1.	Does it appear that the emergency spillway has	discharged water since th	ne last inspection?
		YES	NOX
2.	Is erosion occurring at any section of the emerg	gency spillway?	
		YES	NOX
DMI	MENT STORAGE CAPACITY		
1.	Has the design storage capacity of the reservoir		NOX
	Explain: Visual observation		
HER	OBSERVATIONS		
	Pond empty at time of inspection.		
	y		

MSHA CERTIFIED IMPOUNDMENT INSPECTOR

Date: 6-20-2019

Page 2 of 2

CDMR Rule 4.05.9(17)

Mine:		Lorencito		_			
NPDES	ID. No.:	Pond #9 (North)	_			
Inspect	tion Period:	Second Quarter	r 2019	<u> </u>			
Inspect	tion Date:	6/19/2019		——————————————————————————————————————			
Genera	al Description or R	eference to Site I	Plan:				
into be		bankment keyed i	nining scheduled fo into bedrock. Side rainage.				
EMBAN	NKMENT						
1.	Adequacy of the	vegetative cover	:	Excellent	Moderate	Few	Poor
2.	Erosion forming	_		Extensive	Some	Few	None
3.	Is wave action ca						
		upstream emban	kment?	Yes		No	Χ
	At the p	rincipal spillway i	inlet?	1000000		No	Х
4.	Erosion of the do	ownstream toe of	f the embankment	? Yes		No	Х
	Cause o	f erosion can be a	attributed to:	i .			
5.,	Is seepage occurr					-	X
	Could th	nis seepage cause	potential instabili	ty?			
	2						
PRINICI	PAL SPILLWAY						
1.	Is the principal sp	oillway system in	working order?	Yes	X	No	
2.	Is the inlet free o			Yes	X	No	
3.	Is the discharge of	outlet free of rest	rictive material?	Yes	X	No	
4.	Is erosion occurri			Yes		No	Х
	Evaluate the seve	erity:	Extensive	Moderate	Just Starting	None	

			NPDES ID. No.:
ERG	SENCY SPILLWAY		
1.	Does it appear that the emergency spillwa	ay has discharged water since t	he last inspection?
		YES	NOX
2.	Is erosion occurring at any section of the	emergency spillway?	
		YES	NOX
MII	MENT STORAGE CAPACITY		
1.	Has the design storage capacity of the res	ervoir been surpassed? YES	NOX
	Explain: Visual observation		
IER	OBSERVATIONS Pond empty at time of inspection.		
IER			

Page 2 of 2

Date: 6-20-2019

CDMR Rule 4.05.9(17)

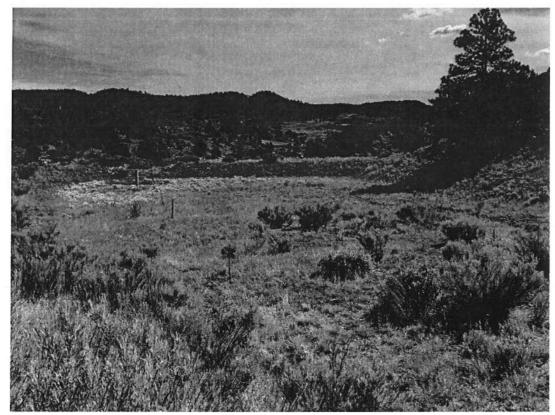
Mine:		Lorencito					
NPDES	ID. No.:	Pond #9A (Sout	:h)				
Inspec	tion Period:	Second Quarter	r 2019	_			
Inspec	tion Date:	6/19/2019		_			
Genera	al Description or R	eference to Site	Plan:				
into be		bankment keyed i	nining scheduled fo into bedrock. Side				
EMBAN	NKMENT						
1.	Adequacy of the	vegetative cover	:	Excellent	Moderate	Few	Poor
2.				Extensive	Some	Few	None
3.	Is wave action ca	ausing erosion:					
	On the	upstream emban	kment?	Yes		No	Χ
	At the p	orincipal spillway	inlet?	Yes		No	X
4.	Erosion of the do	ownstream toe of	f the embankment	? Yes		No	Х
	Cause o	of erosion can be a	attributed to:	*			
5.	Is seepage occur	ring through the	dam?	Yes		No	X
	Could t	his seepage cause	potential instabili	ity?			
PRINICI	PAL SPILLWAY				į i		
1.	Is the principal s	pillway system in	working order?	Yes	X	No	
2.		of debris and restr	_	Yes	X		
3.	Is the discharge	outlet free of rest	rictive material?	Yes	X		
4.	ls erosion occurr	ing at the dischar	ge outlet?	Yes		No	X
	Evaluate the seve	erity:	Extensive	Moderate	Just Starting	None	

		NPDES ID. No.: 9A
EMERG	ENCY SPILLWAY	
1.	Does it appear that the emergency spillway has discharged water since the	ne last inspection?
	YES	NOX
2.	Is erosion occurring at any section of the emergency spillway?	
	YES	NOX
SEDMII	MENT STORAGE CAPACITY	
1.	Has the design storage capacity of the reservoir been surpassed? YES	NOX
	Explain: Visual observation	
	,	
OTHER	OBSERVATIONS	
	Pond empty at time of inspection.	
	6	
Vin	ne Massurati	
MSHA (CERTIFIED IMPOUNDMENT INSPECTOR	

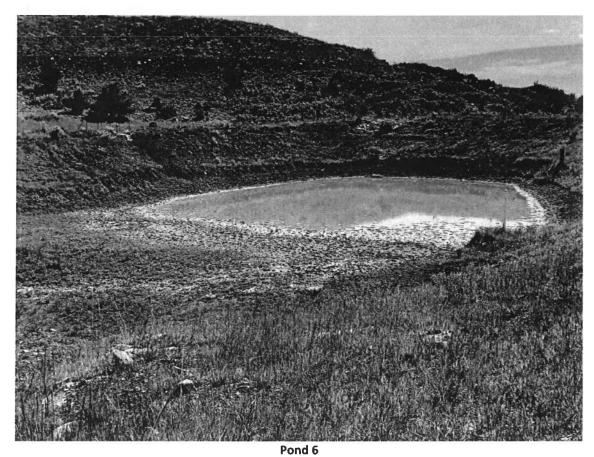
Page 2 of 2

Date: 6-20-2019

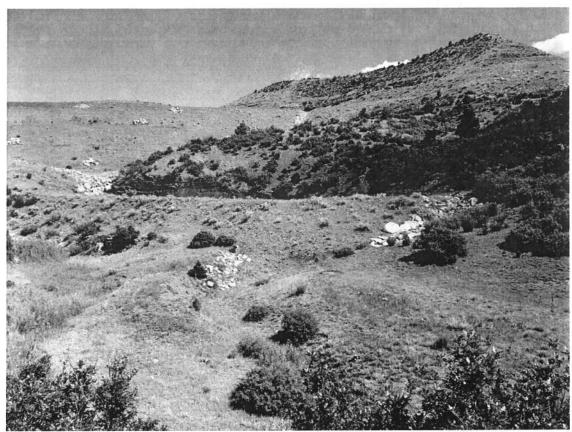
QUARTERLY SEDIMENTATION POND INSPECTION REPORT Lorencito Canyon Mine- June 19, 2019



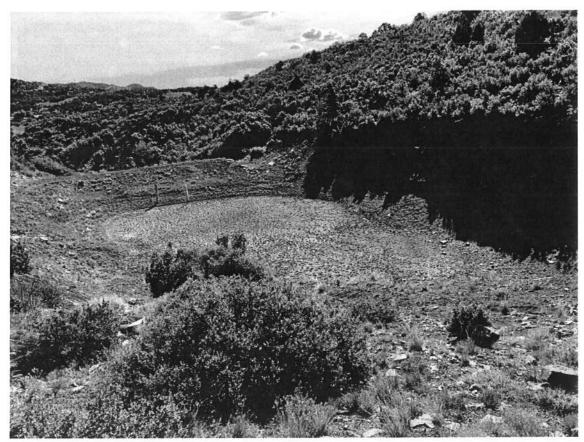
Pond 5



Page 1 of 3



Pond 7

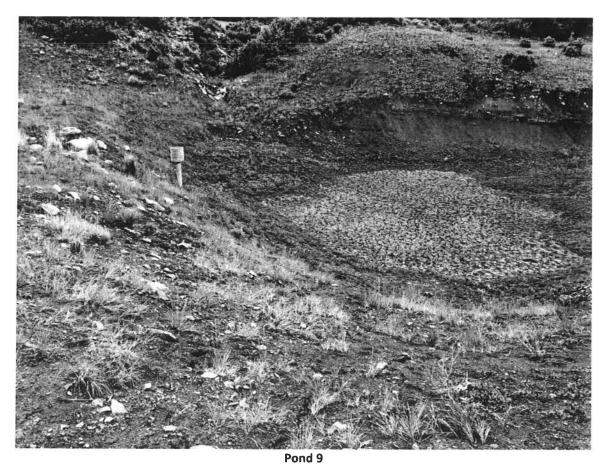


Pond 8

Page 2 of 3



Pond 9a



Page 3 of 3