

QUARTERLY SEDIMENTATION POND INSPECTION REPORT

CDMR Rule 4.05.9(17)

Mine: Lorencito

NPDES ID. No.: Pond #5

Inspection Period: Second Quarter 2019

Inspection Date: 6/19/2019

General Description or Reference to Site Plan:

This pond is located West 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 Cow Canyon drainage.

EMBANKMENT

1. Adequacy of the vegetative cover:	Excellent	Moderate	Few	Poor
2. Erosion forming Gullies:	Extensive	Some	Few	None
3. Is wave action causing erosion:				
On the upstream embankment?	Yes		No	X
At the principal spillway inlet?	Yes		No	X
4. Erosion of the downstream toe of the embankment?	Yes		No	X
Cause of erosion can be attributed to:				
5. Is seepage occurring through the dam?	Yes		No	X
Could this seepage cause potential instability?				

PRINCIPAL SPILLWAY

1. Is the principal spillway system in working order?	Yes	X	No	
2. Is the inlet free of debris and restrictive material?	Yes	X	No	
3. Is the discharge outlet free of restrictive material?	Yes	X	No	
4. Is erosion occurring at the discharge outlet?	Yes		No	X
Evaluate the severity:	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 _____ NO X _____

2. Is erosion occurring at any section of the emergency spillway?

YES _____ NO X _____

SEDIMENT STORAGE CAPACITY

1. Has the design storage capacity of the reservoir been surpassed?

YES _____ NO X _____

Explain: Pond will be surveyed next quarter.

OTHER OBSERVATIONS

Pond has some sediment and will be surveyed next quarter to ensure storage capacity is not

surpassed. Pond is empty.

Vino M. M. M.
MSHA CERTIFIED IMPOUNDMENT INSPECTOR

Date: 6-20-2019

QUARTERLY SEDIMENTATION POND INSPECTION REPORT

CDMR Rule 4.05.9(17)

Mine: Lorencito

NPDES ID. No.: Pond #6

Inspection Period: Second Quarter 2019

Inspection Date: 6/19/2019

General Description or Reference to Site Plan:

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.

EMBANKMENT

1. Adequacy of the vegetative cover:	Excellent	Moderate	Few	Poor
2. Erosion forming Gullies:	Extensive	Some	Few	None
3. Is wave action causing erosion:				
On the upstream embankment?	Yes		No	X
At the principal spillway inlet?	Yes		No	X
4. Erosion of the downstream toe of the embankment?	Yes		No	X
Cause of erosion can be attributed to:				
5. Is seepage occurring through the dam?	Yes		No	X
Could this seepage cause potential instability?				

PRINICIPAL SPILLWAY

1. Is the principal spillway system in working order?	Yes	X	No	
2. Is the inlet free of debris and restrictive material?	Yes	X	No	
3. Is the discharge outlet free of restrictive material?	Yes	X	No	
4. Is erosion occurring at the discharge outlet?	Yes		No	X
Evaluate the severity:	Extensive	Moderate	Just Starting	None

EMERGENCY SPILLWAY

1. Does it appear that the emergency spillway has discharged water since the last inspection?

YES
NO ☒
2. Is erosion occurring at any section of the emergency spillway?

YES
NO ☒

SEDIMENT STORAGE CAPACITY

1. Has the design storage capacity of the reservoir been surpassed?

YES
NO ☒
- Explain: Visual observation

OTHER OBSERVATIONS

Holding a small amount of water.



MSHA CERTIFIED IMPOUNDMENT INSPECTOR

Date: 6-20-2019

QUARTERLY SEDIMENTATION POND INSPECTION REPORT

CDMR Rule 4.05.9(17)

Mine: Lorencito

NPDES ID. No.: Pond #7

Inspection Period: Second Quarter 2019

Inspection Date: 6/19/2019

General Description or Reference to Site Plan:

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.

EMBANKMENT

1. Adequacy of the vegetative cover:

Excellent

Moderate

Few

Poor

2. Erosion forming Gullies:

Extensive

Some

Few

None

3. Is wave action causing erosion:

On the upstream embankment?

Yes

No

X

At the principal spillway inlet?

Yes

No

X

4. Erosion of the downstream toe of the embankment?

Yes

No

X

Cause of erosion can be attributed to:

5. Is seepage occurring through the dam?

Yes

No

X

Could this seepage cause potential instability?

PRINCIPAL SPILLWAY

1. Is the principal spillway system in working order?

Yes

X

No

2. Is the inlet free of debris and restrictive material?

Yes

X

No

3. Is the discharge outlet free of restrictive material?

Yes

X

No

4. Is erosion occurring at the discharge outlet?

Yes

No

X

Evaluate the severity:

Extensive

Moderate

Just Starting

None

EMERGENCY SPILLWAY

1. Does it appear that the emergency spillway has discharged water since the last inspection?

YES _____ NO X _____
2. Is erosion occurring at any section of the emergency spillway?

YES _____ NO X _____

SEDIMENT STORAGE CAPACITY

1. Has the design storage capacity of the reservoir been surpassed?

YES _____ NO X _____

Explain: Visual observation

OTHER OBSERVATIONS

Pond empty at time of inspection.



MSHA CERTIFIED IMPOUNDMENT INSPECTOR

Date: 6-20-2019

QUARTERLY SEDIMENTATION POND INSPECTION REPORT

CDMR Rule 4.05.9(17)

Mine: Lorencito

NPDES ID. No.: Pond #8

Inspection Period: Second Quarter 2019

Inspection Date: 6/19/2019

General Description or Reference to Site Plan:

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.

EMBANKMENT

1. Adequacy of the vegetative cover:	Excellent	Moderate	Few	Poor
2. Erosion forming Gullies:	Extensive	Some	Few	None
3. Is wave action causing erosion:				
On the upstream embankment?	Yes		No	X
At the principal spillway inlet?	Yes		No	X
4. Erosion of the downstream toe of the embankment?	Yes		No	X
Cause of erosion can be attributed to:				
5. Is seepage occurring through the dam?	Yes		No	X
Could this seepage cause potential instability?				

PRINCIPAL SPILLWAY

1. Is the principal spillway system in working order?	Yes	X	No	
2. Is the inlet free of debris and restrictive material?	Yes	X	No	
3. Is the discharge outlet free of restrictive material?	Yes	X	No	
4. Is erosion occurring at the discharge outlet?	Yes		No	X
Evaluate the severity:	Extensive	Moderate	Just Starting	None

EMERGENCY SPILLWAY

1. Does it appear that the emergency spillway has discharged water since the last inspection?

YES ☐

NO ☒
2. Is erosion occurring at any section of the emergency spillway?

YES ☐

NO ☒

SEDIMENT STORAGE CAPACITY

1. Has the design storage capacity of the reservoir been surpassed?

YES ☐

NO ☒

Explain: Visual observation

OTHER OBSERVATIONS

Pond empty at time of inspection.



MSHA CERTIFIED IMPOUNDMENT INSPECTOR

Date: 6-20-2019

QUARTERLY SEDIMENTATION POND INSPECTION REPORT

CDMR Rule 4.05.9(17)

Mine: Lorencito

NPDES ID. No.: Pond #9 (North)

Inspection Period: Second Quarter 2019

Inspection Date: 6/19/2019

General Description or Reference to Site Plan:

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 north into a small unnamed drainage.

EMBANKMENT

1. Adequacy of the vegetative cover:	Excellent	Moderate	Few	Poor
2. Erosion forming Gullies:	Extensive	Some	Few	None
3. Is wave action causing erosion:				
On the upstream embankment?	Yes		No	X
At the principal spillway inlet?	Yes		No	X
4. Erosion of the downstream toe of the embankment?	Yes		No	X
Cause of erosion can be attributed to:				
5. Is seepage occurring through the dam?	Yes		No	X
Could this seepage cause potential instability?				

PRINICIPAL SPILLWAY

1. Is the principal spillway system in working order?	Yes	X	No	
2. Is the inlet free of debris and restrictive material?	Yes	X	No	
3. Is the discharge outlet free of restrictive material?	Yes	X	No	
4. Is erosion occurring at the discharge outlet?	Yes		No	X
Evaluate the severity:	Extensive	Moderate	Just Starting	None

NPDES ID. No.: 9

EMERGENCY SPILLWAY

1. Does it appear that the emergency spillway has discharged water since the last inspection?

YES _____ NO X _____

2. Is erosion occurring at any section of the emergency spillway?

YES _____ NO X _____

SEDIMENT STORAGE CAPACITY

1. Has the design storage capacity of the reservoir been surpassed?

YES _____ NO X _____

Explain: Visual observation

OTHER OBSERVATIONS

Pond empty at time of inspection.



MSHA CERTIFIED IMPOUNDMENT INSPECTOR

Date: 6-20-2019

QUARTERLY SEDIMENTATION POND INSPECTION REPORT

CDMR Rule 4.05.9(17)

Mine: Lorencito

NPDES ID. No.: Pond #9A (South)

Inspection Period: Second Quarter 2019

Inspection Date: 6/19/2019

General Description or Reference to Site Plan:

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.

EMBANKMENT

1. Adequacy of the vegetative cover:	Excellent	Moderate	Few	Poor
2. Erosion forming Gullies:	Extensive	Some	Few	None
3. Is wave action causing erosion:				
On the upstream embankment?	Yes		No	X
At the principal spillway inlet?	Yes		No	X
4. Erosion of the downstream toe of the embankment?	Yes		No	X
Cause of erosion can be attributed to:				
5. Is seepage occurring through the dam?	Yes		No	X
Could this seepage cause potential instability?				

PRINICIPAL SPILLWAY

1. Is the principal spillway system in working order?	Yes	X	No	
2. Is the inlet free of debris and restrictive material?	Yes	X	No	
3. Is the discharge outlet free of restrictive material?	Yes	X	No	
4. Is erosion occurring at the discharge outlet?	Yes		No	X
Evaluate the severity:	Extensive	Moderate	Just Starting	None

EMERGENCY SPILLWAY

1. Does it appear that the emergency spillway has discharged water since the last inspection?

YES _____ NO X _____
2. Is erosion occurring at any section of the emergency spillway?

YES _____ NO X _____

SEDIMENT STORAGE CAPACITY

1. Has the design storage capacity of the reservoir been surpassed?

YES _____ NO X _____

Explain: Visual observation

OTHER OBSERVATIONS

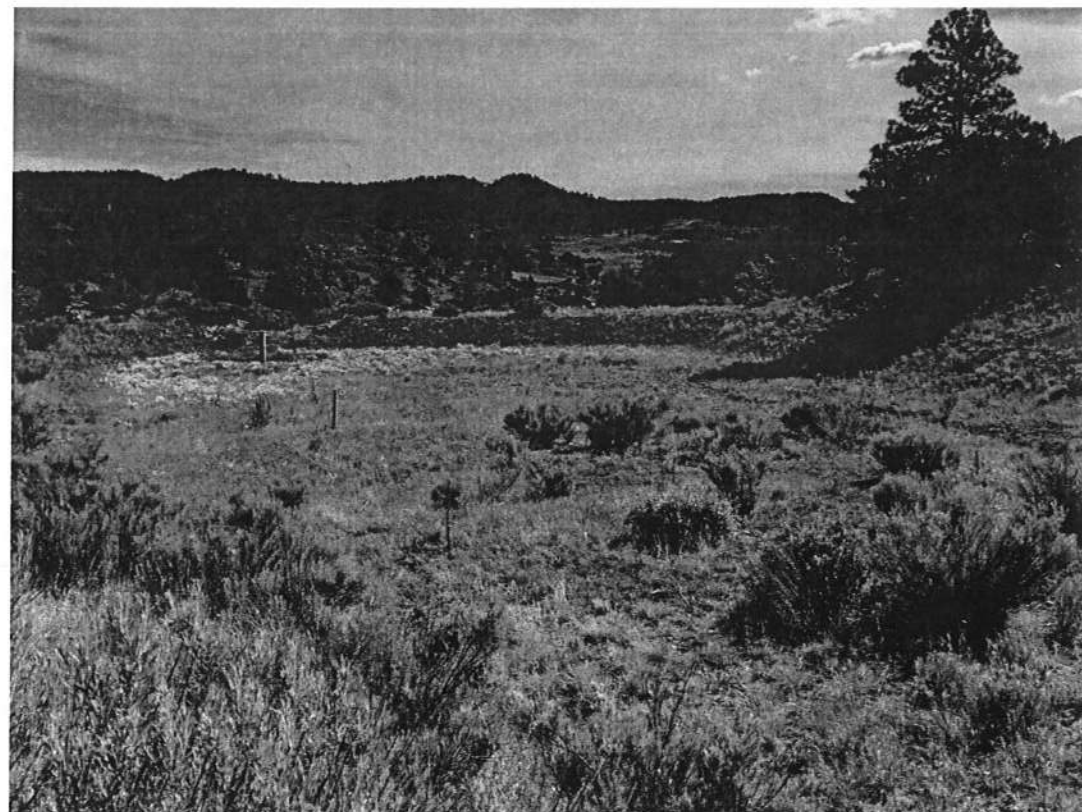
Pond empty at time of inspection.



MSHA CERTIFIED IMPOUNDMENT INSPECTOR

Date: 6-20-2019

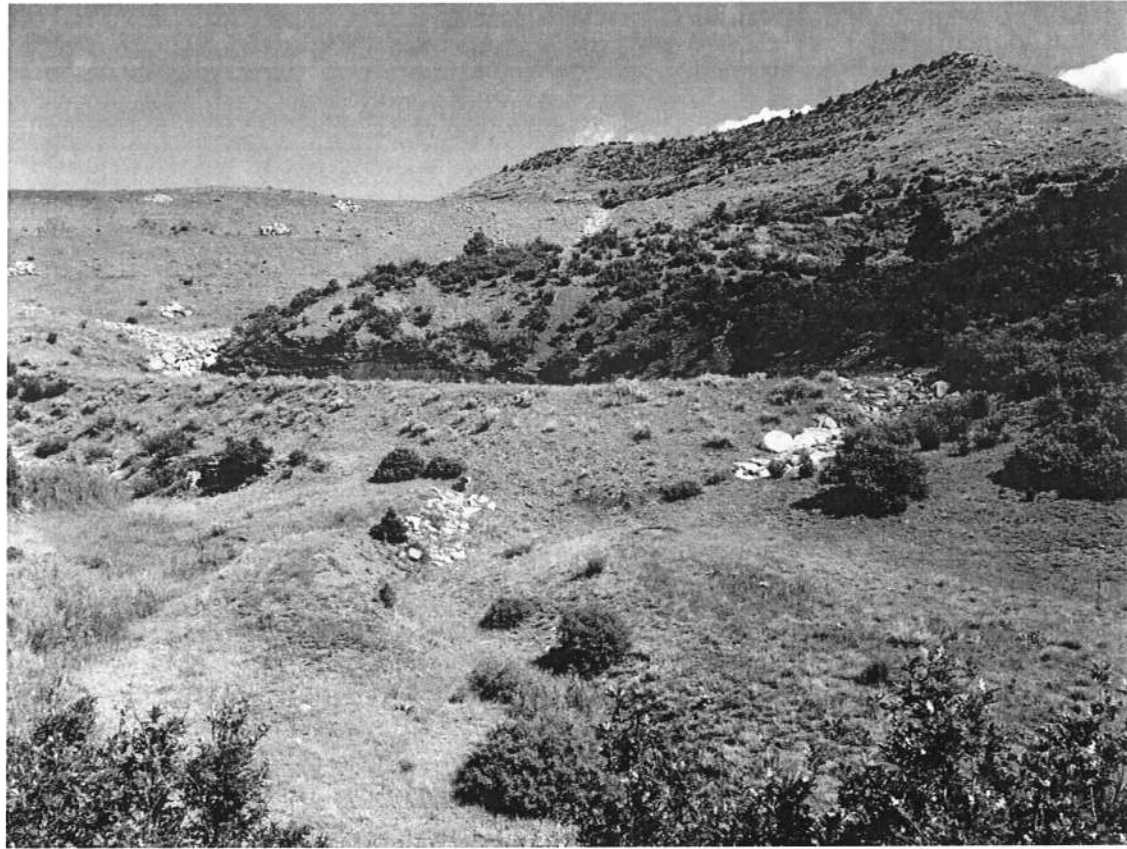
QUARTERLY SEDIMENTATION POND INSPECTION REPORT
Lorencito Canyon Mine- June 19, 2019



Pond 5



Pond 6



Pond 7



Pond 8



Pond 9a



Pond 9

