QUARTERLY SEDIMENTATION POND INSPECTION REPORT

CDMR Rule 4.05.9(17)

Mine: Lorencito

NPDES ID. No.: Pond #5

Inspection Period: Fourth Quarter 2019

Inspection Date: 11/26/2019

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?_____

_____

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.: 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__

SEDMIMENT STORAGE CAPACITY

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

   YES_____ NO__X__

   Explain: Sediment in pond does not appear to be over capacity by visual inspection.

OTHER OBSERVATIONS

Pond is empty.

Vince Massaro

MSHA CERTIFIED IMPOUNDMENT INSPECTOR

Date: 11-26-2019

QUARTERLY SEDIMENTATION POND INSPECTION REPORT

CDMR Rule 4.05.9(17)

Mine: Lorencito

NPDES ID. No.: Pond #6

Inspection Period: Fourth Quarter 2019

Inspection Date: 11/26/2019

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]

NPDES ID. No.: 6

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

SEDMIMENT STORAGE CAPACITY

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

   YES_____ NO X

   Explain: Visual observation

OTHER OBSERVATIONS

Pond is holding a small amount of water. Water level is well below the decant.

Vince Massaratti

MSHA CERTIFIED IMPOUNDMENT INSPECTOR

Date: 11-26-2019

QUARTERLY SEDIMENTATION POND INSPECTION REPORT

CDMR Rule 4.05.9(17)

Mine: Lorencito

NPDES ID. No.: Pond #7

Inspection Period: Fourth Quarter 2019

Inspection Date: 11/26/2019

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]

NPDES ID. No.: 7

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__

SEDMIMENT 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.

Vince Massaro

MSHA CERTIFIED IMPOUNDMENT INSPECTOR

Date: 11-26-2019

QUARTERLY SEDIMENTATION POND INSPECTION REPORT

CDMR Rule 4.05.9(17)

Mine: Lorencito

NPDES ID. No.: Pond #8

Inspection Period: Fourth Quarter 2019

Inspection Date: 11/26/2019

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]

NPDES ID. No.: 8

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__

SEDMIMENT 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.

Vince Massaro III

MSHA CERTIFIED IMPOUNDMENT INSPECTOR

Date: 11-26-2019

QUARTERLY SEDIMENTATION POND INSPECTION REPORT

CDMR Rule 4.05.9(17)

Mine: Lorencito

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

Inspection Period: Fourth Quarter 2019

Inspection Date: 11/26/2019

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]

NPDES ID. No.: 9A

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__

SEDMIMENT STORAGE CAPACITY

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

   YES_____ NO__X__

   Explain: Visual observation

OTHER OBSERVATIONS

Pond was holding no water at time of inspection.

Vinn Massaro

MSHA CERTIFIED IMPOUNDMENT INSPECTOR

Date: 11-20-2019

QUARTERLY SEDIMENTATION POND INSPECTION REPORT

CDMR Rule 4.05.9(17)

Mine: Lorencito

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

Inspection Period: Fourth Quarter 2019

Inspection Date: 11/26/2019

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__

SEDMIMENT 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.

Vince Marsilli

MSHA CERTIFIED IMPOUNDMENT INSPECTOR

Date: 11-26-2019

QUARTERLY SEDIMENTATION POND INSPECTION REPORT
Lorencito Canyon Mine- November 26, 2019

Pond 6

Pond 8

Pond 9a

Pond 9