QUARTERLY SEDIMENTATION POND INSPECTION REPORT

CDMR Rule 4.05.9(17)

Mine: Lorencito

NPDES ID. No.: Pond #5

Inspection Period: Third Quarter 2022

Inspection Date: 8/10/2022

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 was nearly empty at time of inspection, just a small puddle of water by decant.

QUARTERLY SEDIMENTATION POND INSPECTION REPORT

CDMR Rule 4.05.9(17)

Mine: Lorencito

NPDES ID. No.: Pond #6

Inspection Period: Third Quarter 2022

Inspection Date: 8/10/2022

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 was holding water but not discharging at time of inspection.

QUARTERLY SEDIMENTATION POND INSPECTION REPORT

CDMR Rule 4.05.9(17)

Mine: Lorencito

NPDES ID. No.: Pond #7

Inspection Period: Third Quarter 2022

Inspection Date: 8/10/2022

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 was holding water but not discharging at time of inspection.

QUARTERLY SEDIMENTATION POND INSPECTION REPORT

CDMR Rule 4.05.9(17)

Mine: Lorencito

NPDES ID. No.: Pond #8

Inspection Period: Third Quarter 2022

Inspection Date: 8/10/2022

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 was holding water and barely discharging at time of inspection.

QUARTERLY SEDIMENTATION POND INSPECTION REPORT

CDMR Rule 4.05.9(17)

Mine: Lorencito

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

Inspection Period: Third Quarter 2022

Inspection Date: 8/10/2022

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 was holding water and discharging very slowly at time of inspection.

QUARTERLY SEDIMENTATION POND INSPECTION REPORT

CDMR Rule 4.05.9(17)

Mine: Lorencito

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

Inspection Period: Third Quarter 2022

Inspection Date: 8/10/2022

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

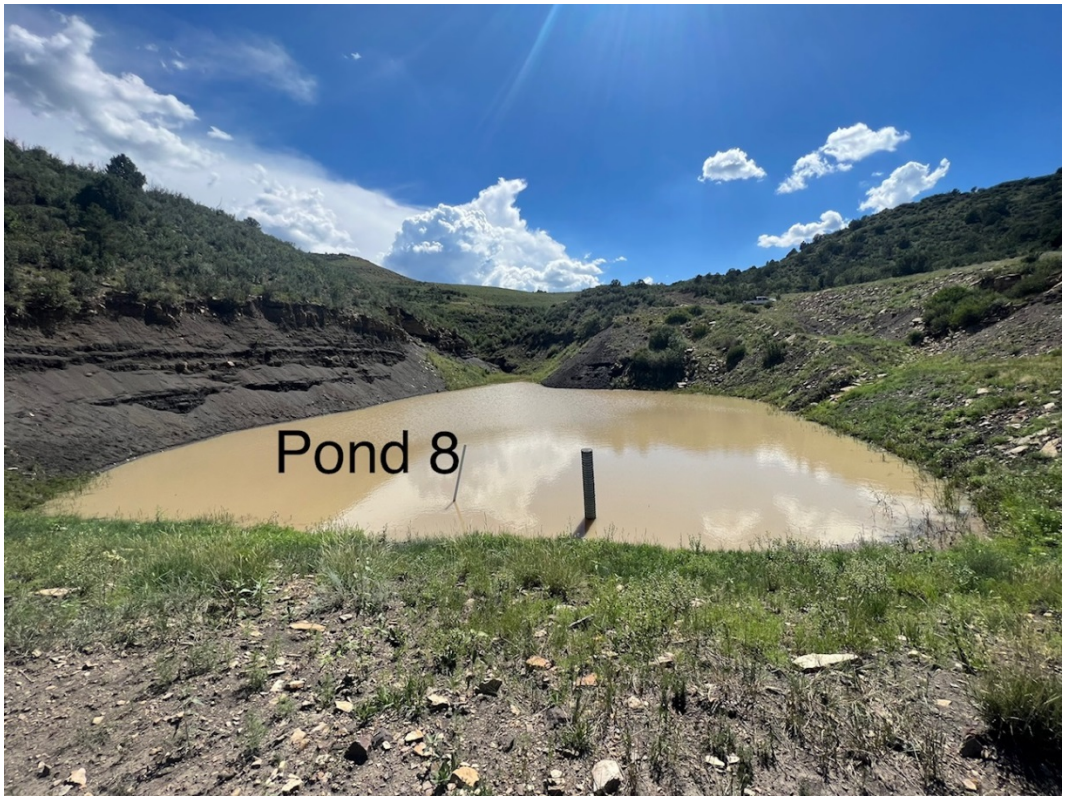
OTHER OBSERVATIONS

Pond was holding water, but not dischargining at time during inspection.

QUARTERLY SEDIMENTATION POND INSPECTION REPORT
Lorencito Canyon Mine- August 10, 2022

Pond 6

Pond 7



Pond 8

Pond 8 Discharging

Pond 9

Pond 9 Discharging

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. Stormes, 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.

Vince Massarotti
Inspector

8-10-2022
Date

COLORADO LICENSED
ALEXANDER STORMES
39057
PROFESSIONAL ENGINEER

Professional Engineer

9-21-2022
Date

Inspections completed in compliance with Rule ~~4.09.1(1)~~(b) must be submitted to the Division within two weeks of completion.
4.05.9(17)