

QUARTERLY SEDIMENTATION POND INSPECTION REPORT

CDMR Rule 4.05.9(17)

Mine: Lorencito
NPDES ID. No.: Pond #6
Inspection Period: Fourth Quarter 2023
Inspection Date: 12/13/2023

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 was holding water and was frozen at time of inspection, not near the bottom of the decant. Ground Covered in Snow and was snowing during inspection.



CDMR Rule 4.05.9(17)

Mine: Lorencito

NPDES ID. No.: Pond #5

Inspection Period: Fourth Quarter 2023

Inspection Date: 12/13/2023

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 <u> X </u> | No <u> </u> |
| 2. | Is the inlet free of debris and restrictive material? | Yes <u> X </u> | No <u> </u> |
| 3. | Is the discharge outlet free of restrictive material? | Yes <u> X </u> | No <u> </u> |
| 4. | Is erosion occurring at the discharge outlet? | Yes <u> </u> | No <u> X </u> |

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

OTHER OBSERVATIONS

Pond was empty at time of inspection. Ground Covered in Snow and was snowing during inspection.



QUARTERLY SEDIMENTATION POND INSPECTION REPORT

CDMR Rule 4.05.9(17)

Mine: Lorencito

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

Inspection Period: Fourth Quarter 2023

Inspection Date: 12/13/2023

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: | <u>Excellent</u> | Moderate | Few | Poor |
| 2. Erosion forming Gullies: | Extensive | Some | Few | <u>None</u> |
| 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 <u> X </u> | No <u> </u> |
| 2. Is the inlet free of debris and restrictive material? | Yes <u> X </u> | No <u> </u> |
| 3. Is the discharge outlet free of restrictive material? | Yes <u> X </u> | No <u> </u> |
| 4. Is erosion occurring at the discharge outlet? | Yes <u> </u> | No <u> X </u> |

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 was holding some water and was Frozen at time of inspection. Not near the level of the decant. Ground Covered in Snow and was snowing during inspection.



QUARTERLY SEDIMENTATION POND INSPECTION REPORT

CDMR Rule 4.05.9(17)

Mine: Lorencito
NPDES ID. No.: Pond #8
Inspection Period: Fourth Quarter 2023
Inspection Date: 12/13/2023

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: | <u>Excellent</u> | Moderate | Few | Poor |
| 2. Erosion forming Gullies: | <u>Extensive</u> | <u>Some</u> | <u>Few</u> | <u>None</u> |
| 3. Is wave action causing erosion: | | | | |
| On the upstream embankment? | <u>Yes</u> | | <u>No</u> | <u>X</u> |
| At the principal spillway inlet? | <u>Yes</u> | | <u>No</u> | <u>X</u> |
| 4. Erosion of the downstream toe of the embankment? | <u>Yes</u> | | <u>No</u> | <u>X</u> |

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? | <u>Yes</u> | <u>X</u> | <u>No</u> |
| 2. Is the inlet free of debris and restrictive material? | <u>Yes</u> | <u>X</u> | <u>No</u> |
| 3. Is the discharge outlet free of restrictive material? | <u>Yes</u> | <u>X</u> | <u>No</u> |
| 4. Is erosion occurring at the discharge outlet? | <u>Yes</u> | | <u>No</u> <u>X</u> |

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 X NO

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 was holding water and was frozen at the time of inspection. Appears to have not discharged recently. Ground Covered in Snow and was snowing during inspection.



QUARTERLY SEDIMENTATION POND INSPECTION REPORT

CDMR Rule 4.05.9(17)

Mine: Lorencito

NPDES ID. No.: Pond #7

Inspection Period: Fourth Quarter 2023

Inspection Date: 12/13/2023

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 <u> X </u> | No <u> </u> |
| 2. Is the inlet free of debris and restrictive material? | Yes <u> X </u> | No <u> </u> |
| 3. Is the discharge outlet free of restrictive material? | Yes <u> X </u> | No <u> </u> |
| 4. Is erosion occurring at the discharge outlet? | Yes <u> </u> | No <u> X </u> |

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 was holding a small amount of water and was frozen at time of inspection. Not discharging. Ground Covered in Snow and was snowing during inspection.



CDMR Rule 4.05.9(17)

Mine: Lorencito

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

Inspection Period: Fourth Quarter 2023

Inspection Date: 12/13/2023

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: | <div>Excellent</div> | Moderate | Few | Poor |
| 2. Erosion forming Gullies: | Extensive | Some | Few | <div>None</div> |
| 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 <u> X </u> | No <u> </u> |
| 2. Is the inlet free of debris and restrictive material? | Yes <u> X </u> | No <u> </u> |
| 3. Is the discharge outlet free of restrictive material? | Yes <u> X </u> | No <u> </u> |
| 4. Is erosion occurring at the discharge outlet? | Yes <u> </u> | No <u> X </u> |

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 was holding water and was frozen at time of inspection. Does not appear to have recently discharged. Ground Covered in Snow and was snowing during inspection.



CERTIFICATION

This inspection was conducted by John Terry, a qualified professional and MSHA certified inspector of earth and rock-fill embankments, waste banks and impoundments, under the direction of Mr. Steve Miller, 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.

John Terry
Inspector

12/13/23
Date



12/20/2023
Date

Inspections completed in compliance with Rule 4.09.1(11)(b) must be submitted to the Division within 90 days of Completion