QUARTERLY SEDIMENTATION POND INSPECTION REPORT

CDMR Rule 4.05.9(17)

Mine: New Elk
NPDES ID. No.: Pond #1
Inspection Period: First Quarter 2018
Inspection Date: 03/27/18

General Description or Reference to Site Plan:

This Pond lies West of the Industrial Building and serves as a mine water settleing and water storage pond.

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 ✓
At the principal spillway inlet? Yes _____ No ✓

4). Erosion of the downstream toe of the embankment? Yes _____ No ✓
Cause of erosion can be attributed to: _____

5). Is seepage occurring through the dam? Yes _____ No ✓
Could this seepage cause potential instability? _____
Pond is lined.

PRINCIPAL SPILLWAY

1). Is the principal spillway system in working order? Yes ✓ No _____

2). Is the inlet free of debris and restrictive material? Yes ✓ No _____

3). Is the discharge outlet free of restrictive material? Yes ✓ No _____

4). Is erosion occurring at the discharge outlet? Yes _____ No ✓
Evaluate the severity: Extensive Moderate Just starting None

New Elk Mine
3/27/2018
Pond # 1

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 ✓

Describe extent: No Discharge since start of operations

SEDIMENT STORAGE CAPACITY

1). Has the design storage capacity of the reservoir been surpassed?
Yes _____ No ✓

Explain: No capacity design standard

OTHER OBSERVATIONS

No inflow other than direct precipitation. Water level is slowly decreasing due to evaporation.

Ronald G Thayer
MSHA Trained Impoundment Inspector
03/27/18

QUARTERLY SEDIMENTATION POND INSPECTION REPORT

CDMR Rule 4.05.9(17)

Mine: New Elk
NPDES ID. No.: Pond #4
Inspection Period: First Quarter 2018
Inspection Date: 03/27/18

General Description or Reference to Site Plan:

This sediment control pond lies west of the Development Waste Pile. The majority of run-off from this waste pile flows to this pond. It has never received sufficient inflow to discharge.

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 ✓
At the principal spillway inlet? Yes _____ No ✓

4). Erosion of the downstream toe of the embankment? Yes _____ No ✓
Cause of erosion can be attributed to: _____

5). Is seepage occurring through the dam? Yes _____ No ✓
Could this seepage cause potential instability? _____

PRINCIPAL SPILLWAY

1). Is the principal spillway system in working order? Yes ✓ No _____

2). Is the inlet free of debris and restrictive material? Yes ✓ No _____

3). Is the discharge outlet free of restrictive material? Yes ✓ No _____

4). Is erosion occurring at the discharge outlet? Yes _____ No ✓
Evaluate the severity: Extensive Moderate Just starting None

New Elk Mine
3/27/2018
Pond # 4

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 ✓

Describe extent: _____

SEDIMENT STORAGE CAPACITY

1). Has the design storage capacity of the reservoir been surpassed?
Yes _____ No ✓

Explain: Visual observation

OTHER OBSERVATIONS

Only recent inflow has been pumping water from Pond 8 to Pond 6 and/or Pond 4. Thus pond contains a minor amount of water

Ronald G Thompson
MSHA Trained Impoundment Inspector
03/27/18

QUARTERLY SEDIMENTATION POND INSPECTION REPORT

CDMR Rule 4.05.9(17)

Mine: New Elk
NPDES ID. No.: Pond #7
Inspection Period: First Quarter 2018
Inspection Date: 03/27/18

General Description or Reference to Site Plan:

This sediment control pond lies east of the preparation plant and pond #6. It receives run-off from the majority of the active surface facilities area lying south of State Highway 12.

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 ✓
At the principal spillway inlet? Yes _____ No ✓

4). Erosion of the downstream toe of the embankment? Yes _____ No ✓
Cause of erosion can be attributed to: _____

5). Is seepage occurring through the dam? Yes _____ No ✓
Could this seepage cause potential instability? _____

PRINCIPAL SPILLWAY

1). Is the principal spillway system in working order? Yes ✓ No _____

2). Is the inlet free of debris and restrictive material? Yes ✓ No _____

3). Is the discharge outlet free of restrictive material? Yes ✓ No _____

4). Is erosion occurring at the discharge outlet? Yes _____ No ✓
Evaluate the severity: Extensive Moderate Just starting None

New Elk Mine
3/27/2018
Pond # 7

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 ✓
Describe extent: _____

SEDIMENT STORAGE CAPACITY

1). Has the design storage capacity of the reservoir been surpassed?
Yes _____ No ✓
Explain: Pond was cleaned of sediment in 2017.

OTHER OBSERVATIONS

Water level is about a foot below base of staff gage and lowest hole of the primary discharge riser.

Ronald G Thompson
MSHA Trained Impoundment Inspector
03/27/18

QUARTERLY SEDIMENTATION POND INSPECTION REPORT

CDMR Rule 4.05.9(17)

Mine: New Elk
NPDES ID. No.: Pond #8
Inspection Period: First Quarter 2018
Inspection Date: 03/27/18

General Description or Reference to Site Plan:

This pond lies north of Highway 12 at the base of the refuse disposal area. The pond receives run-off from the refuse disposal area.

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 ✓
At the principal spillway inlet? Yes _____ No ✓

4). Erosion of the downstream toe of the embankment? Yes _____ No ✓
Cause of erosion can be attributed to: _____

5). Is seepage occurring through the dam? Yes _____ No ✓
Could this seepage cause potential instability? _____

PRINCIPAL SPILLWAY

1). Is the principal spillway system in working order? Yes ✓ No _____

2). Is the inlet free of debris and restrictive material? Yes ✓ No _____

3). Is the discharge outlet free of restrictive material? Yes ✓ No _____

4). Is erosion occurring at the discharge outlet? Yes _____ No ✓
Evaluate the severity: Extensive Moderate Just starting None

New Elk Mine
3/27/2018
Pond # 8

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 ✓
Describe extent: _____

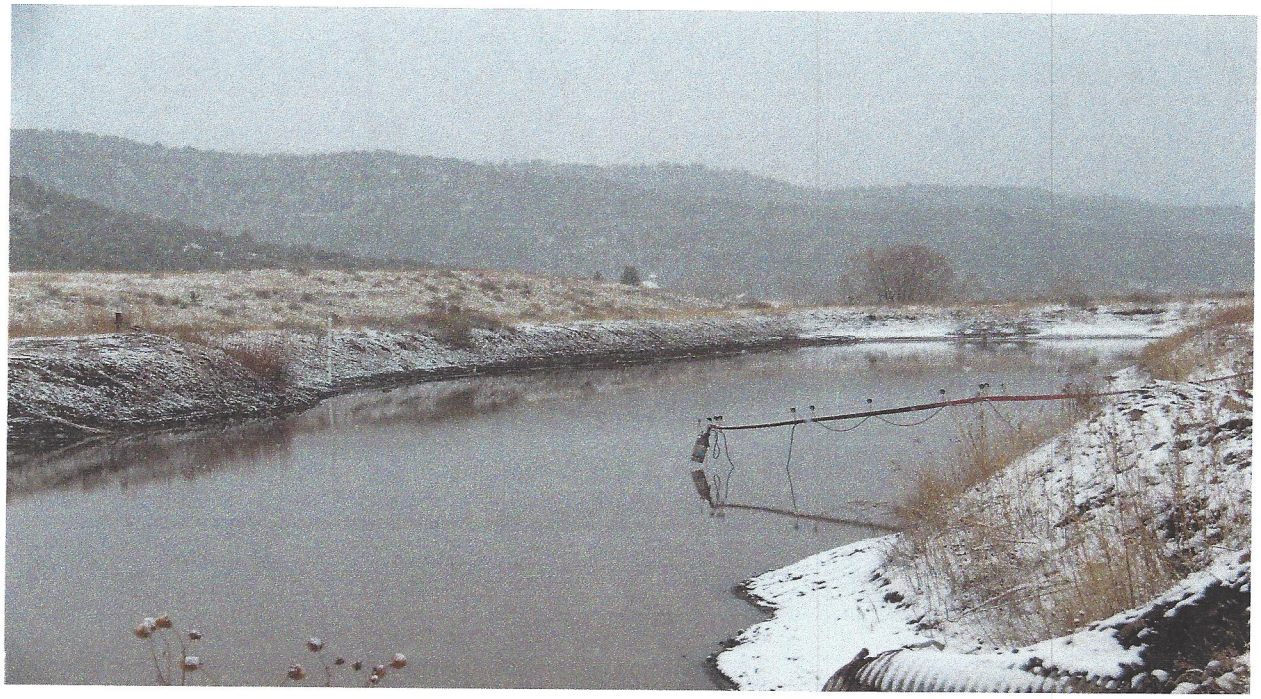
SEDIMENT STORAGE CAPACITY

1). Has the design storage capacity of the reservoir been surpassed?
Yes ✓ No _____
Explain: Visual Observation - pond water is being pumped To pond 6/Pond 4 for scheduled April Clean-out

OTHER OBSERVATIONS

Minor snow cover. Pond water level is several feet below staff gage based.

Ronald A Thayer
MSHA Trained Impoundment Inspector
03/27/18



New Elk Pond 7 - March 27, 2018

New Elk Pond 8 – March 27, 2018

QUARTERLY SEDIMENTATION POND INSPECTION REPORT

CDMR Rule 4.05.9(17)

Mine: New Elk Pond 6
NPDES ID. No.: None
Inspection Period: First Quarter 2018
Inspection Date: 03/27/18

General Description or Reference to Site Plan:
Pond 6 is a non-discharging facility designed to contain plant processing water. The plant has been idle since 1996 and the pond is now used to dewater other ponds prior to clean-out.

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 _____

4). Erosion of the downstream toe of the embankment? Yes _____ No ✓
Cause of erosion can be attributed to: _____

5). Is seepage occurring through the dam? Yes _____ No ✓
Could this seepage cause potential instability? _____

SEDIMENT STORAGE CAPACITY

1). Has the design storage capacity of the reservoir been surpassed?
Yes _____ No ✓
Explain: No design standard; operator controls water level by pumping to Pond 4 as needed.

OTHER OBSERVATIONS:

Ronald G Thompson
MSHA Trained Impoundment Inspector
3/27/2018

QUARTERLY SEDIMENTATION POND INSPECTION REPORT

CDMR Rule 4.05.9(17)

Mine: New Elk WP Containment #1
NPDES ID. No.: None
Inspection Period: First Quarter 2018
Inspection Date: 03/27/18

General Description or Reference to Site Plan:
This containment basin is a non-discharging facility designed to contain run-off from the West Portal Warehouse area.

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 ✓

4). Erosion of the downstream toe of the embankment? Yes _____ No ✓
Cause of erosion can be attributed to: _____

5). Is seepage occurring through the dam? Yes _____ No ✓
Could this seepage cause potential instability? _____

SEDIMENT STORAGE CAPACITY

1). Has the design storage capacity of the reservoir been surpassed?
Yes _____ No ✓
Explain: Visual Observation

OTHER OBSERVATIONS: Minor amount of water as ice and a light snow cover.

Randall G Thompson
MSHA Trained Impoundment Inspector
3/27/18

QUARTERLY SEDIMENTATION POND INSPECTION REPORT

CDMR Rule 4.05.9(17)

Mine: New Elk WP Containment #2
NPDES ID. No.: None
Inspection Period: First Quarter 2018
Inspection Date: 03/27/18

General Description or Reference to Site Plan:
This containment basin is a non-discharging facility designed to contain run-off from the West Portal airshaft and manway areas.

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 ✓

4). Erosion of the downstream toe of the embankment? Yes _____ No ✓
Cause of erosion can be attributed to: _____

5). Is seepage occurring through the dam? Yes _____ No ✓
Could this seepage cause potential instability? _____

SEDIMENT STORAGE CAPACITY

1). Has the design storage capacity of the reservoir been surpassed? Yes _____ No ✓

Explain: Visual observation

OTHER OBSERVATIONS: Containment basin is dry.

Ronald L Thompson
MSHA Trained Impoundment Inspector
3/27/2018

QUARTERLY SEDIMENTATION POND INSPECTION REPORT

CDMR Rule 4.05.9(17)

Mine: New Elk RDA Containment North
NPDES ID. No.: None
Inspection Period: First Quarter 2018
Inspection Date: 02/21/17

General Description or Reference to Site Plan:
This incised containment basin is a non-discharging facility designed to contain run-off from the RDA belt conveyor area north of highway 12.

EMBANKMENT / incized with no 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 ✓

4). Erosion of the downstream toe of the embankment? Yes _____ No ✓
Cause of erosion can be attributed to: _____

5). Is seepage occurring through the dam? Yes _____ No ✓
Could this seepage cause potential instability? _____

SEDIMENT STORAGE CAPACITY

1). Has the design storage capacity of the reservoir been surpassed?
Yes _____ No ?
Explain: _____

OTHER OBSERVATIONS: Significant remaining capacity. water held in pond is frozen with light snow cover.

Randall G Thompson
MSHA Trained Impoundment Inspector
31-27/2018

QUARTERLY SEDIMENTATION POND INSPECTION REPORT

CDMR Rule 4.05.9(17)

Mine: New Elk RDA Containment SE
NPDES ID. No.: None
Inspection Period: First Quarter 2018
Inspection Date: 03/27/18

General Description or Reference to Site Plan:
This partially incised containment basin is a non-discharging facility designed to contain run-off from the area east of the RDA belt conveyor and south of highway 12.

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 ✓

4). Erosion of the downstream toe of the embankment? Yes _____ No ✓
Cause of erosion can be attributed to: _____

5). Is seepage occurring through the dam? Yes _____ No ✓
Could this seepage cause potential instability? _____

SEDIMENT STORAGE CAPACITY

1). Has the design storage capacity of the reservoir been surpassed? Yes _____ No ✓
Explain: Visual Observation

OTHER OBSERVATIONS:

Containment dry with no maintenance required at this time

Ronald G Long
MSHA Trained Impoundment Inspector
3/27/2018

QUARTERLY SEDIMENTATION POND INSPECTION REPORT

CDMR Rule 4.05.9(17)

Mine: New Elk RDA Containment SW
NPDES ID. No.: None
Inspection Period: First Quarter 2018
Inspection Date: 03/27/18

General Description or Reference to Site Plan:
This partially incised containment basin is a non-discharging facility designed to contain run-off from the area west of the RDA belt conveyor and south of highway 12.

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 ✓

4). Erosion of the downstream toe of the embankment? Yes _____ No ✓
Cause of erosion can be attributed to: _____

5). Is seepage occurring through the dam? Yes _____ No ✓
Could this seepage cause potential instability? _____

SEDIMENT STORAGE CAPACITY

1). Has the design storage capacity of the reservoir been surpassed? Yes _____ No ✓
Explain: Visual Observation

OTHER OBSERVATIONS:

Containment is dry; No Maintenance needed at this time.

Ronald G Thompson
MSHA Trained Impoundment Inspector
3/27/2018