

QUARTERLY SEDIMENTATION POND INSPECTION REPORT

CDMR Rule 4.05.9(17)

Mine: New Elk
NPDES ID. No.: Pond #1
Inspection Period: First Quarter 2019
Inspection Date: 03/29/19 5:50 10:40 AM

General Description or Reference to Site Plan:

This Pond lies West of the Industrial Building and serves as a mine water settling 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? _____

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

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: _____

OTHER OBSERVATIONS

Water level continues to decline due to
evaporation - no water has been pumped
to storage pond during the quarter



MSHA Trained Impoundment Inspector
03/29/19

QUARTERLY SEDIMENTATION POND INSPECTION REPORT

CDMR Rule 4.05.9(17)

Mine: New Elk
NPDES ID. No.: Pond #4
Inspection Period: First Quarter 2019
Inspection Date: 03/29/19 5:50 @ 1030 AM

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?
Evaluate the severity: Extensive Moderate Just starting None Yes _____ No ✓

New Elk Mine
3/29/2019
Pond # 4

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
- Describe extent: _____

SEDIMENT STORAGE CAPACITY

- 1). Has the design storage capacity of the reservoir been surpassed?
Yes _____ No X
- Explain: by visual observation

OTHER OBSERVATIONS

water is being pumped to pond 4 from Pond 8
by way of Ponds 6 and 7.

water is accumulating at base of pond
but is well below primary inlet.

Ronald A. Thompson
MSHA Trained Impoundment Inspector
03/29/19

QUARTERLY SEDIMENTATION POND INSPECTION REPORT

CDMR Rule 4.05.9(17)

Mine: New Elk
NPDES ID. No.: Pond #7
Inspection Period: First Quarter 2019
Inspection Date: 03/29/19 56° @ 1151
Windy.

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

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

*Pond has been maintained nearly dry - water
is pumped to Pond 4.*

Ronald L. Thompson

MSHA Trained Impoundment Inspector
03/29/19

QUARTERLY SEDIMENTATION POND INSPECTION REPORT

CDMR Rule 4.05.9(17)

Mine: New Elk
NPDES ID. No.: Pond #8
Inspection Period: First Quarter 2019
Inspection Date: 03/29/19 5:30 PM 9:50 AM

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 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?
None observed - pond nearly dry & being
pump

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
- Describe extent: _____

SEDIMENT STORAGE CAPACITY

- 1). Has the design storage capacity of the reservoir been surpassed?
Yes _____ No X
- Explain: _____
Water level by differential level 17+ ft below primary

OTHER OBSERVATIONS

No significant increase in sediment deposition.
No sediment deltas observed to be forming at
base of down-drains


MSHA Trained Impoundment Inspector
03/29/19

QUARTERLY SEDIMENTATION POND INSPECTION REPORT

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Mine: New Elk Pond 6
NPDES ID. No.: None
Inspection Period: First Quarter 2019
Inspection Date: 03/29/19

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?
Cause of erosion can be attributed to: Yes _____ No ✓

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

SEDIMENT STORAGE CAPACITY

- 1). Has the design storage capacity of the reservoir been surpassed?
Explain: No design capacity when plant is not operating Yes _____ No ✓

OTHER OBSERVATIONS:

water level is maintained by pumping excess water to pond 4

Ronald L. Thompson
MSHA Trained Impoundment Inspector
3/29/2019

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 2019
Inspection Date: 03/29/19

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:

No evidence of inflow since last quarter. Sediment
containment basin was dry at inspection with
established grasses covering interior of containment basin.

Ronald H. Thompson
MSHA Trained Impoundment Inspector
3/29/2019

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 2019
Inspection Date: 03/29/19

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?
Cause of erosion can be attributed to: Yes _____ No ✓

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

SEDIMENT STORAGE CAPACITY

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

OTHER OBSERVATIONS: Minimal water held at the lowest elevation of sediment basin within containment facility. No evidence of significant inflow during the quarter.

Ronald M. Thompson
MSHA Trained Impoundment Inspector
3/29/2019

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 2019
Inspection Date: 03/29/19 5:50 PM

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?
Cause of erosion can be attributed to: _____

- 5). Is seepage occurring through the dam? Yes _____ No ✓
Could this seepage cause potential instability?
No embankment - an incised facility

SEDIMENT STORAGE CAPACITY

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

OTHER OBSERVATIONS:

Minimal sediment accumulation - grasses growing on pond bottom.

Ronald H. Tinger
MSHA Trained Impoundment Inspector
3/29/2019

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 2019
Inspection Date: 03/29/19 5:50 @ 10:10 PM

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?
 No embankment - this is an incised containment basin.

SEDIMENT STORAGE CAPACITY

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

OTHER OBSERVATIONS:

Containment is dry

MSHA Trained Impoundment Inspector
3/29/19

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 2019
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

- 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
- 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?
 Containment is incised - thus no embankment

SEDIMENT STORAGE CAPACITY

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

OTHER OBSERVATIONS:

Containment is nearly dry and
any sediment could be excavated this spring if
conditions remain favorable

Ronald H. Hays
MSHA Trained Impoundment Inspector
3/29/2019