

Mining Facility Inspection Report

The information contained within this document is supplemental to the inspection record(s) for this facility located online. A link to the online record is provided at the end of this document.

Inspector: Bonnie Craighead

Inspection start date and time: March 27, 2023 10:30 AM

Inspection end date and time: March 27, 2023 12:30 PM

NOTE: Provided times are local to the inspected facility. If inspection spanned multiple days, inspection may not have been continuous between start and end dates.

Facility location: 36.48853, -84.01996

Does this facility currently have an NPDES permit? Yes

NPDES permit number: TN0070408

NPDES Permit type: Individual

Inspection type: Follow-up

Was this an EPA 106 inspection? No

INSPECTION RESULTS: Out of Compliance

Site Observations

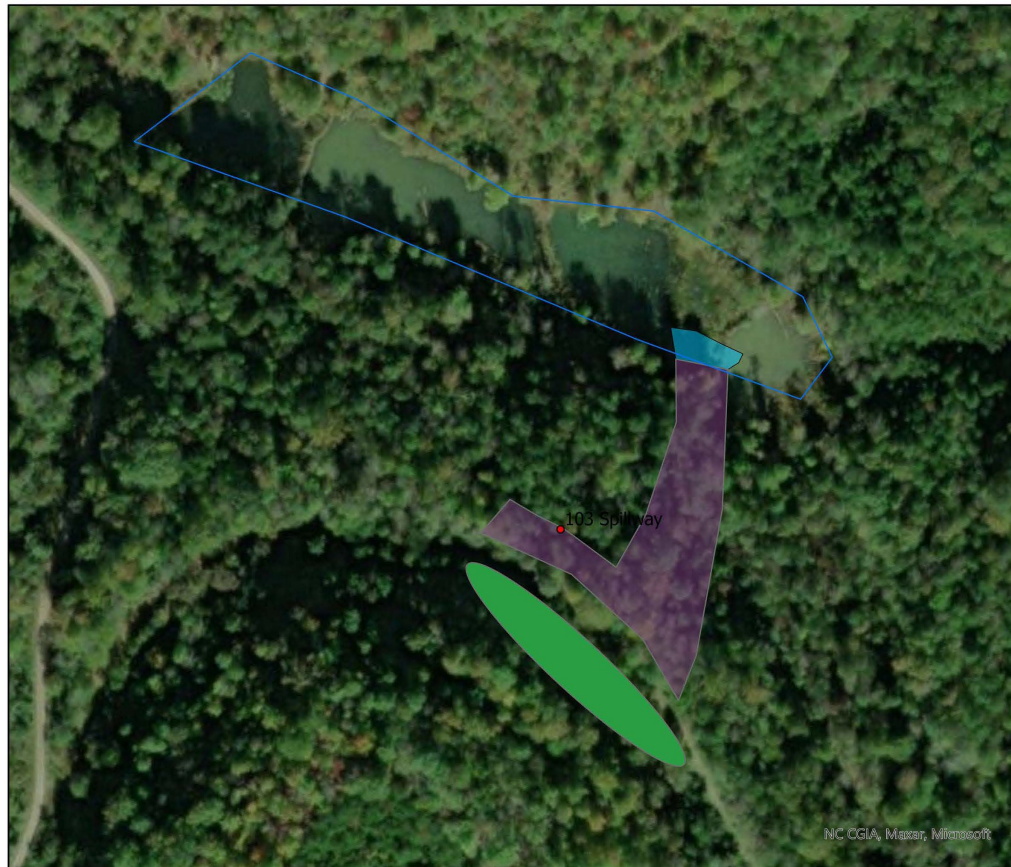
Criteria Applicable to All Inspections	Yes/ No / N/A
Facility has Permit	Yes
Site Currently Active	No
DMRs Submitted as Required	Yes
DMRs in Compliance	Yes
All Activity within Permit Boundary	Yes
Facility as Described in Permit	Yes
Sediment Basins as Planned	Yes
All Discharge Points Permitted	No
All Discharge Points Located Accurately	No
Wastewater Discharge Occurring	No
Storm Water Discharge Occurring	Yes
All Drainage Controlled through Basins or BMPs	No
Diversion Ditches Adequate	No
Stream Buffers Maintained	No

Inspection Narrative

A slide investigation was conducted on March 27, 2023 in response to a notification received by OSMRE. The slide area begins on the outslope of the road and embankment of pond 103. At the pond a 315 ft wide segment of the road outslope slid 30 ft down the slope before settling on an old roadbed, leaving a 30 ft sheer face on the outslope. A 100 ft wide section of the right descending side of the landslide continued to move past the roadbed and down the slope until it reached a jurisdictional water feature that has been impounded into cells by beavers. The landslide created a delta 100 ft wide and extending thirty feet into the feature, with material accumulations reaching a depth of four ft along the bank of the feature and thinning as the material extended into the water. The slide's length from the road to the jurisdictional feature is 350 ft. Along with material accumulations being deposited into the feature, the sediment entering the feature was creating a color contrast of the feature. This feature drains into Hogcamp Branch, which is listed on the TDEC 2022 303(d) list of impaired waters as impaired for sedimentation/siltation due to impacts from abandoned mine lands.

At the time of inspection pond 103 was receiving inflow but was not discharging. This condition was previously documented in an inspection on 8/22/22. Approximately 60 ft below the haulroad elevation and 30 ft below the pond floor water was seeping out of the pond outslope in the landslide area. These factors indicate that the pond floor was leaking, sending water laterally to the outslope and saturating the outslope, likely causing the landslide.

Landslide at TN0070408
Alden Resources, LLC - Area 6



- Legend**
- Impact to Jurisdictional Waters Feature
 - Landslide
 - Pond 103 Spillway
 - Pond 103
 - Jurisdictional Waters Feature

0 50 100 200 Miles



Item 1. Map of affected area. This map is an approximation of the slide area. The slide area is represented in purple, with the portion impacting the jurisdictional feature in blue.



36.48758, -84.01998 2023/03/227

Item 2: Photo of pond 103. The pond was receiving storm water at the time of inspection but not discharging, indicating the pond is leaking. This was documented on the previous inspection conducted 8/22/2022.



36.48749, -84.02008 2023/03/27

Item 3: Pond 103 receiving storm water inflow.



36.48818, -84.02076 2022/06/01

Item 4: Photo of the outslope depicted in item 3 before the landslide occurred. Photo taken on August 4, 2022.

Date/Time: 2023-03-27 10:32:14-04:00
Location: 36.48824°N 084.02045°W ± 7 m WGS84
Altitude: 487 m ± 13 m
Direction: W (T)
Address: Unavailable
Alden Resources Area 6



36.48824, -84.02045 2023/03/27

Item 5: Photo of the landslide looking at the left descending side. Pond 103's rocklined spillway (fractured from the landslide) is pictured in the photo. The landslide has caused the outslope of the road to slide approximately 30 feet down the slope before settling.



36.59921, -84.02034 2023/03/27

Item 6: Photo of the landslide of the right descending side. The landslide has caused the outer embankment of the road to migrate approximately 30 feet down the slope.



36.48848, -84.02000 2023/03/27

Item 7: Photo of the width of the landslide that extends down the slope and into the jurisdictional feature



2023/03/27

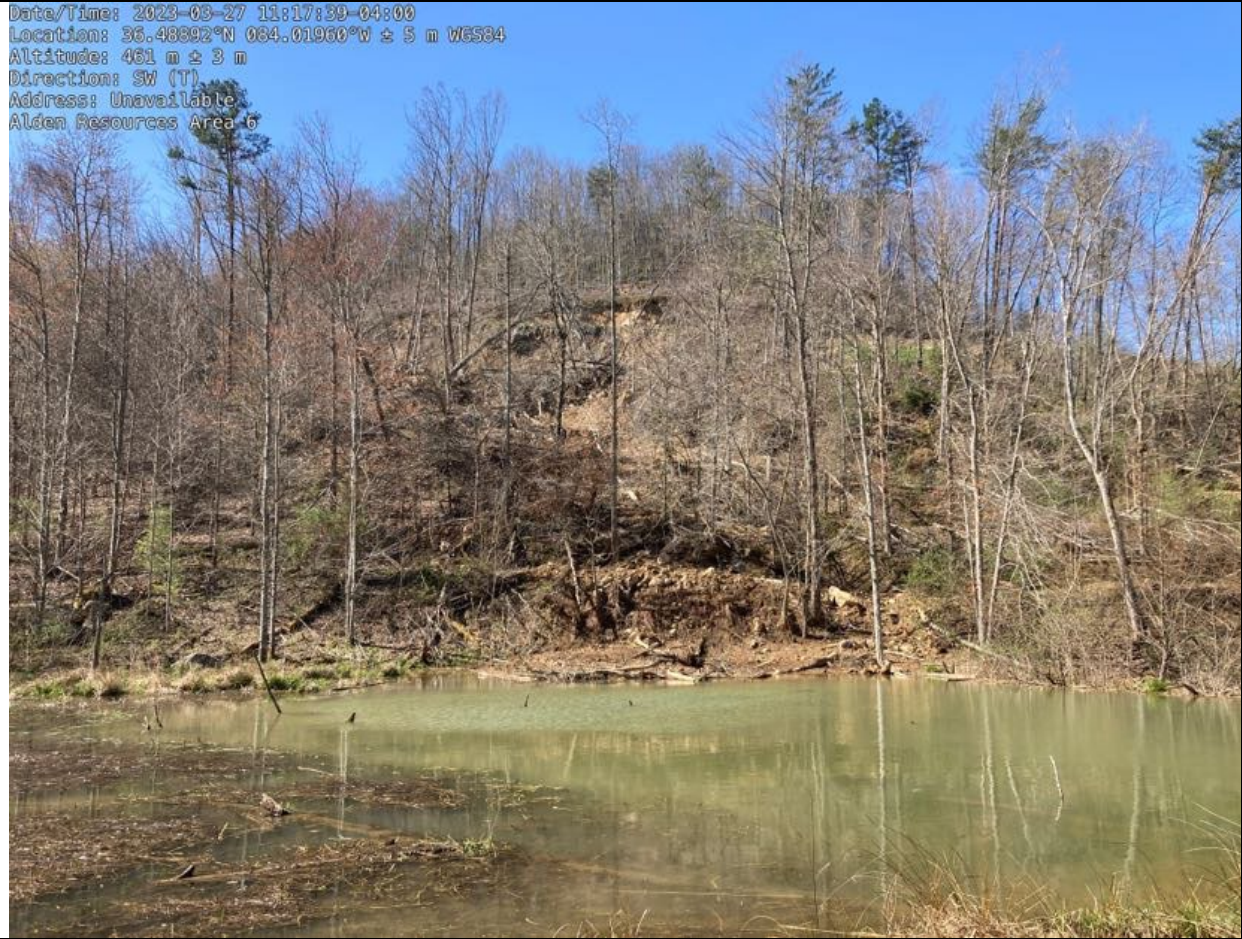
Item 8: Photo of water seeping from the slide 60 feet below the elevation of the road and 30 feet below the bottom elevation of pond 103. The seep is directly below pond 103 and likely originates from the pond.



36.48808, -84.01971 2023/03/27

Item 9: Photo of an area directly west of the right descending side of the slide. In this area a two foot thick strip of fresh soil with water weeping out of indicates that this section of the outslope has started to slide and may continue to do so.

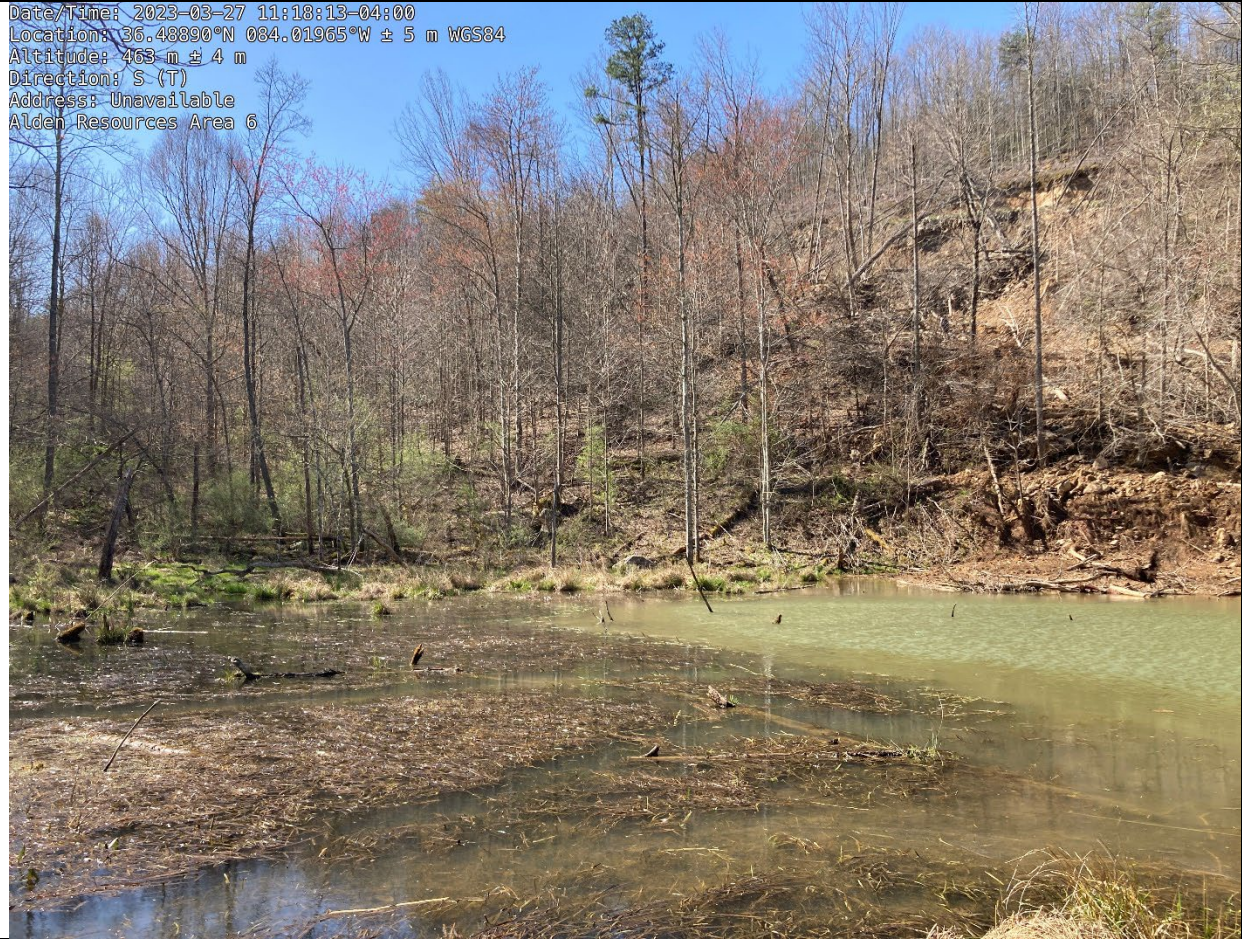
Date/Time: 2023-03-27 11:17:39-04:00
Location: 36.48892°N 84.01960°W ± 5 m WGS84
Altitude: 461 m ± 3 m
Direction: SW (T)
Address: Unavailable
Alden Resources Area 6



36.48892, -84.01960 2023/03/27

Item 10: Photo of the landslide extending from the road outslope at pond 103 down the slope and into the jurisdictional feature.

Date/Time: 2023-03-27 11:18:13-04:00
Location: 36.48890°N 084.01965°W ± 5 m WGS84
Altitude: 463 m ± 4 m
Direction: S-(T)
Address: Unavailable
Alden Resources Area 6



36.48890, -84.01965 2023/03/27

Item 11: Photo of the jurisdictional feature upstream of and at the landslide. The water is clear as the stream enters the first cell impounded by beavers, but becomes cloudy once it encounters the sediment from the landslide. The landslide is causing a color contrast to the receiving stream.



36.48880, -84.01966 2023/03/27

Item 12: Photo of the landslide entering the jurisdictional feature. Photo taken from the right descending bank.



36.48891, -84.02001 2023/03/27

Item 13: Photo of material from the landslide extending out into the second beaver cell at the jurisdictional feature. Photo of the left descending side of the landslide.

Signature of TDEC inspector



Name of TDEC Inspector:

Bonnie Craighead

The complete permit record, including inspection data, may be found on the TDEC Public Dataviewer here:

https://dataviewers.tdec.tn.gov/dataviewers/f?p=2005:34051:3506451321854:::34051:P34051_PERMIT_NUMBER:TN0076736

Alternately, you may scan the following QR code with your smartphone:



If you have any questions, you may contact your inspector. You may also contact the Mining Section at **865-594-6035** or **TDEC.Mining@tn.gov**.

Thank you for helping to protect Tennessee's waters!