



WASHINGTON  
CONSERVATION  
DISTRICT

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## MEMORANDUM

**TO:** Neil Soltis, Administrator, City of Scandia

**FROM:** Jed Chesnut, Wetland/Natural Resource Specialist

**DATE:** December 28, 2015

**RE:** **Zavoral Mining and Reclamation Project – Monitoring and Inspection Report  
2015 Inspection #8 – November 19, 2015**

As per the contract (15-01) between the Washington Conservation District (WCD) and the City of Scandia (City), WCD staff performed site inspection and monitoring tasks pertaining to Technical Services of Exhibit B. This memorandum serves as a summary of applicable activities and reviews. The site inspection took place on November 19, 2015. Christina Morrison of Tiller Corporation (Tiller) was present and provided a descriptive tour of the project area. Each service area is listed below with a summary description of results.

1. Technical Service 3 – Erosion and Sediment Control Inspections
  - a. Task 1 – Site Inspection
    - i. The mine was active during the inspection; however there was no active hauling to the Scandia Mine due to extremely wetland conditions in the Zavoral mine pit.
    - ii. Some work on the screening berms on the west side of the pit had been done resulting in soil disturbance. The perimeter control on the outside of the mine pit was still fully functional and erosion control measures had been implemented on the steep slopes (see photo).
    - iii. Portions of ground within the Phase III mining area had been excavated, primarily on the eastern edge, just north of the driveway to the owner's cabin. The silt fence in this area was still fully functional and there was no disturbance of the vegetated buffer outside of the fenced-in mining area (see photo).
    - iv. Silt fence that had been installed in 2013 as per the stormwater pollution and prevention plan (SWPPP) was in good shape. The silt fence throughout the project area was still effective for perimeter control.
    - v. The actively mined areas now all drain internally.
2. Technical Service 4 – Threatened and Endangered Species
  - a. Task 1 – Conduct Site Reviews to Document Compliance with Blanding's Turtle SOP
    - i. The site was in compliance with the mitigation measures as listed in Appendix C of the Zavoral Mine FEIS.
  - b. Task 2 – Annual Inspection of Site and Monitor T&E Listing Status of Butternut Tree
    - i. The status of the butternut tree (*Juglans cinerea*) had been changed to "endangered" on August 19, 2013. As a result, removal of a butternut tree after August 19, 2013 would require permitting from the Department of Natural Resources. One non-diseased tree has been identified on the property, outside of the mine limits. WCD did not verify its presence during the November site review.
3. Technical Service 5: Reclamation Plan Review and Inspection
  - a. Task 2 – Conduct Site Inspections to Verify Implementation of the Restoration Plan
    - i. Grading of Reclamation Phase II was complete.

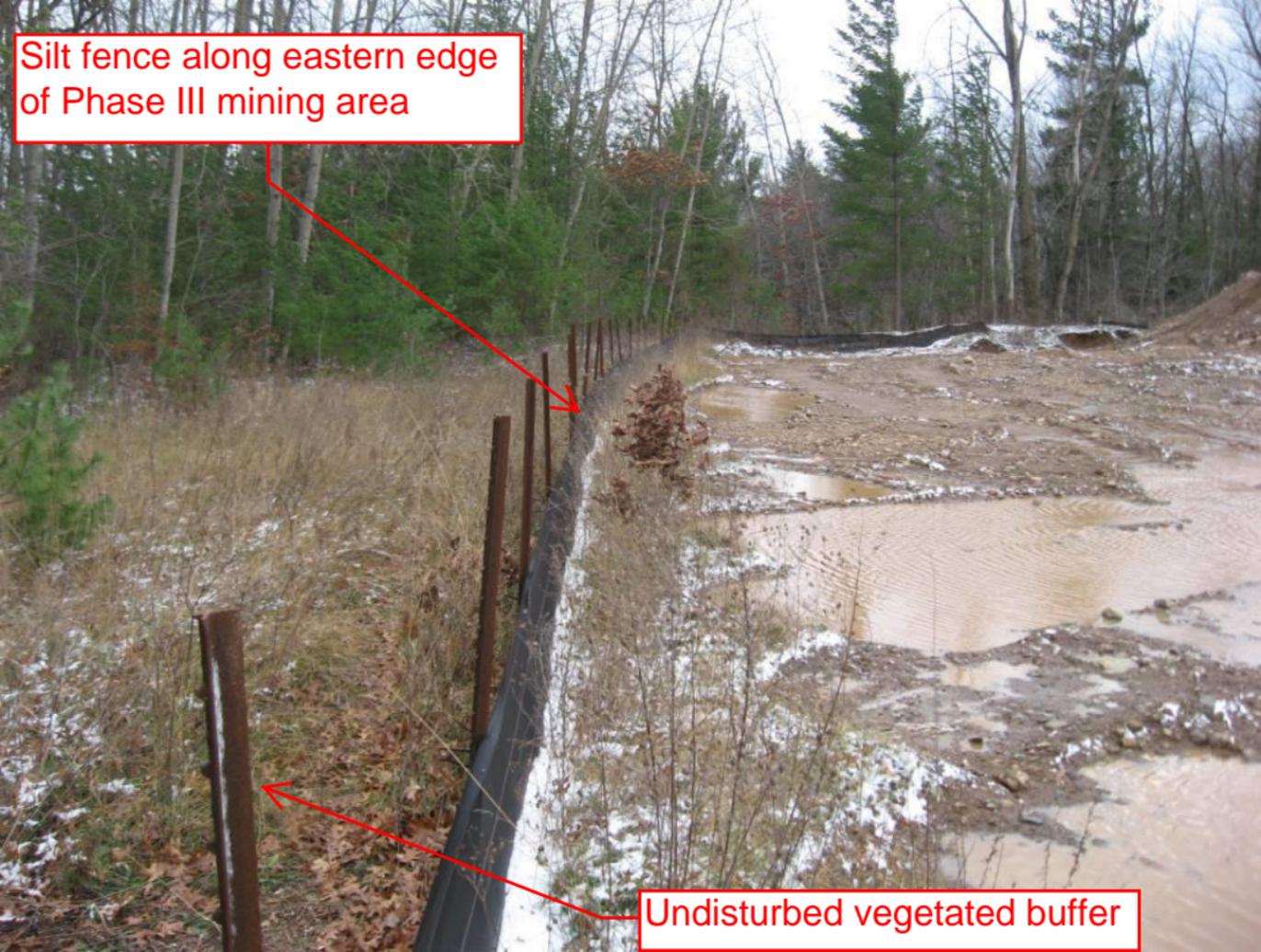
- ii. Most of the soil material for the 2016 reclamation areas had been mixed and prepared.
- iii. The reclaimed areas were dormant and were not closely inspected during the November review.

This ends the reporting of WCD's November 2015 monitoring activities. Overall, the site is performing well and in compliance with the applicable conditions of the permit. Please call me with any questions at 651-330-8220 x25.

Phase II  
reclamation area



Silt fence along eastern edge of Phase III mining area



Undisturbed vegetated buffer

Road to owner's cabin



New disturbed area of Phase III mining

Road to owner's cabin

Mine drains internally







Highway 95

Silt fence intact and functional.  
Runoff flows toward mine.





Silt fence intact

Runoff stays on site

