

# Hodstradt Lake

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Land & Water Conservation Department

*Jean Hansen, County Conservationist  
Michele Sadauskas, AIS Coordinator  
Jonna Stephens Jewell, Program Assistant*

Oneida County Courthouse  
P O Box 400, Rhinelander, Wisconsin 54501  
Phone (715) 369-7835 Fax (715) 369-6268

## **Hodstradt Lake AIS Monitoring and Water Clarity Report**

WBIC: 990700  
Previous AIS Findings: Chinese Mystery Snails  
New AIS Findings: None  
Field Date: July 30, 2014  
Field Crew: Stephanie Boismenu and Sara Mills, AIS Project Assistants,  
Oneida County Land and Water Conservation Department  
Report by: Sara Mills

Stephanie and I monitored Hodstradt Lake with the assistance of Shelley Lehman on 7/30/2014. We started by doing a 100 foot visual survey of the boat landing (Site 1 on Figure 1). This area was very sandy with very little amount of vegetation. We found empty shells of Chinese Mystery Snails, which we already knew that the lake had.

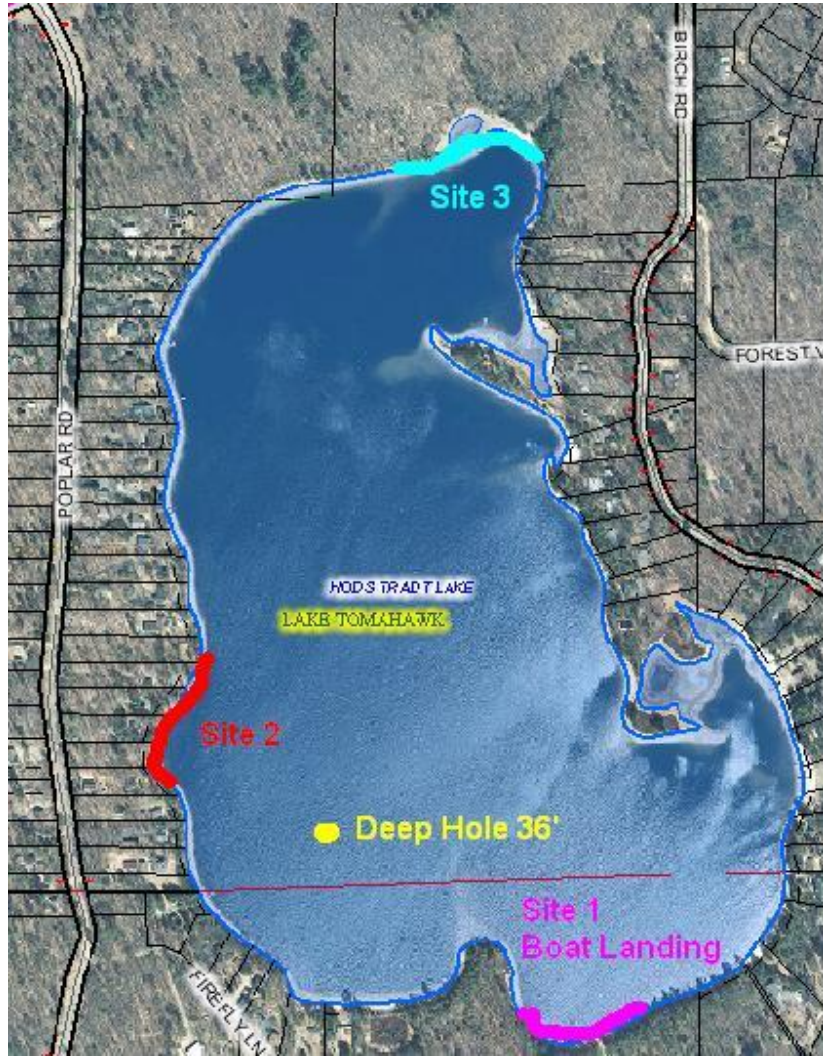
Next we went to the deep hole site (Figure 1) to measure with the secchi disk and the d/o meter. The secchi disk measured the water clarity to be between 15 and 19 feet. The amount of dissolved oxygen is reported below in Table 1.

Our second visual survey for about 100 feet was along the West side of the lake (Site 2 on Figure 1) where there are a lot of private docks. This area seemed to be the same as the first site where it was very sandy with little vegetation. The legs of the docks didn't have anything attached to them and there didn't appear to be any Chinese Mystery Snails in the area.

Our third visual survey was at a beach on the North East corner of the lake (Site 3 on Figure 1) located on the American Legion State Forest. This site also had a few Chinese Mystery Snails and was very sandy. It has more vegetation than the other sites, and all of it is native vegetation.

We also retrieved the zebra mussel plate that we had attached to the dock at the boat landing 2-3 weeks prior. It came out of the water fairly clean with no indication of zebra mussels being in the lake.

Overall, the lake seemed very clean and healthy with no signs of any additional invasive species.



**Figure 1.** A map of Hodstradt Lake with lines representing the approximate locations of our visual surveys and a dot representing the deep hole site.

**Table 1.** The amount of dissolved oxygen and temperature readings in Hodstradt Lake at the deep hole site.

<b>Depth</b>	<b>Dissolved Oxygen Level</b>	<b>Temperature</b>
1'	8.71 mg/L	72.6°F
4'	8.65 mg/L	72.2°F
7'	8.64 mg/L	72.0°F
10'	8.63 mg/L	71.9°F
13'	8.60 mg/L	71.8°F
16'	8.56 mg/L	71.7°F
19'	8.52 mg/L	71.7°F
22'	8.49 mg/L	71.6°F
25'	8.42 mg/L	71.5°F