

# Schlecht Lake

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Page 1: AIS Monitoring and Water  
Clarity Report of August 9<sup>th</sup>, 2017



Land & Water Conservation Department

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## Schlecht Lake AIS Monitoring and Water Clarity Report

Field Date: August 9<sup>th</sup>, 2017  
WBIC: 1016100  
Previous AIS Findings: None  
New AIS Findings: None  
Field Crew: Aubrey Nycz, AIS Project Leader, and Thomas Boisvert, AIS Project Assistant, Oneida County Land and Water Conservation Department  
Report By: Thomas Boisvert

On August 9<sup>th</sup>, 2017, Aubrey and I went to Schlecht Lake to implement AIS monitoring along with water clarity and quality assessments. Schlecht Lake is a very small 24 acre oligotrophic lake located in Oneida County, and does have public access. The entire property around the lake is owned by the WDNR, and the lake is surrounded by the Schlecht Lake ski and hiking trails which are open to the public. According to the WDNR, the lake has a maximum depth of 22 feet, however, Aubrey and I had our sonar unit show a depth of 26 feet. The WDNR also reports that the substrate is 55% sand, 15% gravel, 10% rock, and 20% muck. Schlecht Lake is reported to have only largemouth bass and panfish present, and we observed this firsthand as large bluegills and largemouth bass were spotted along the shorelines.

The weather while conducting research on Schlecht Lake was fair. The outside temperature was 70 degrees Fahrenheit, the sky was cloudy, there was light wind, and the water clarity was good. There was no adverse weather to impede our measurements in any way.

When conducting our AIS lake survey, Aubrey and I did a complete shoreline scan while meandering in and out between different depths. We looked on the shoreline itself and also in the water, noting the plants and animals we had observed in the process. When possible, we got in the water and used the aquascopes to have a closer look at the bottom composition.

To observe the water clarity and quality of Schlecht Lake, Aubrey and I found a deep hole in the middle of the lake. There was no bathymetric map available for Schlecht Lake, so we had to find the deepest

point with our sonar unit. After locating the deep hole with our sonar unit, we used a Secchi disk to measure clarity and a dissolved oxygen meter to measure water health. Oxygen is needed for a healthy fish population, and also for plants to respire at night as well. The measurements from the dissolved oxygen meter can tell us if the organisms in the lake would be under stress. Thankfully, both of these measurements were relatively average in nature, and there should be no concern for the health of Schlecht Lake. The Secchi disk reading was 9 feet, and the dissolved oxygen readings can be found in table 2.

Aubrey and I did not observe any invasive species while out on Schlecht Lake. The lake seems to be healthy, and many native plants were present and thriving. The three most common native plants we observed were Water Shield, White Water Lily, and Water Smartweed. These plants can be seen below in table 1.

**Findings:** Taken 2:30 p.m. – 4:00 p.m. on August 9<sup>th</sup>, 2017

Aquatic Invasive Species: We did not find any new invasive species along the perimeter of Schlecht Lake.

Secchi: The Secchi reading on this lake was 9 feet out of a 26 foot maximum depth. The water color was a brownish color, and was clear when glancing across the lake.

Dissolved Oxygen: These measurements can be seen in Table 2.

**Figure 1.** Map of Oneida County, WI with Schlecht Lake circled in red (approximate location)

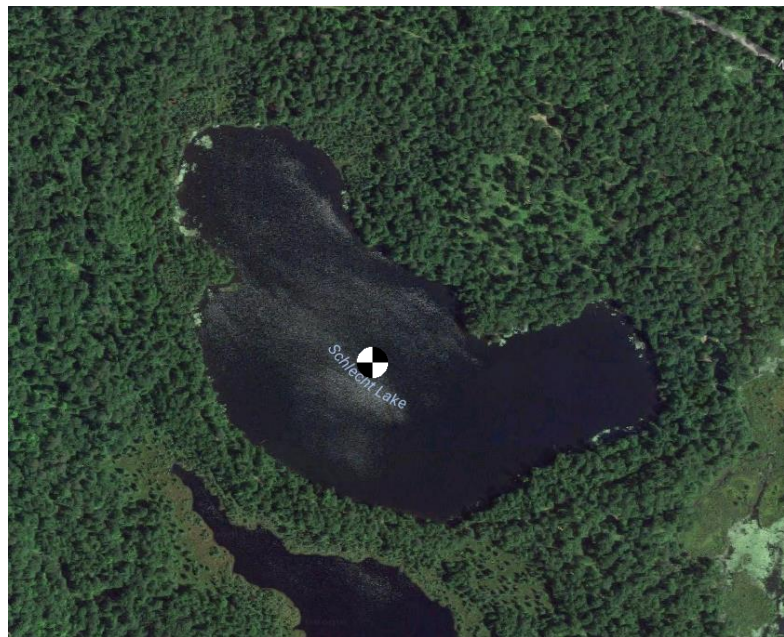


**Figure 2.** Map of Schlecht Lake with the location of Secchi disk reading labeled.






Deep hole & location of Secchi disk reading

Secchi Disk Readings:  
Schlecht Lake - Deep Hole  
Coordinates - Not Available



**Table 1.** Plants found in Schlecht Lake when monitoring.

<p><b>Common Name</b> <b>Scientific Plant Name</b></p>	<p><b>Description</b></p>	<p><b>Image</b></p>
<p>White Water Lily <i>Nymphaea odorata</i></p>	<p>An aquatic plant that has large, round leaves that can grow to be 12 inches in diameter. White water lilies also have large, white flowers with many petals. This plant is native.</p>	 <p><i>Photo Credit: Joseph A. Marcus</i></p>
<p>Water Smartweed <i>Persicaria amphibia</i></p>	<p>An aquatic, floating plant with swollen leaf nodes. Leaves tend to be smooth and rounded. Water smartweed has pink flowers that are raised a few inches above the water. This plant is native.</p>	 <p><i>Photo Credit: Superior National Forest/CCSA</i></p>
<p>Water Shield <i>Brasenia schreberi</i></p>	<p>An aquatic plant with stems up to 2 meters long. This plant has small floating leaves and reddish purple flowers that have 6-8 petals. This plant is native.</p>	 <p><i>Photo Credit: Shannon Sharp</i></p>

**Table 2.** Dissolved oxygen levels and temperatures at the deep hole.

<b>Depth (Feet)</b>	<b>Dissolved Oxygen Levels (mg/L)</b>	<b>Temperature (F)</b>	<b>Percent Dissolved Oxygen</b>
2	8.09	73.4°	99.4%
4	7.91	72.4°	96.2%
6	7.92	72.1°	96.0%
8	7.91	71.9°	95.6%
10	7.67	70.7°	91.1%
12	7.23	67.8°	83.7%