

# Flannery Lake

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Page 1: AIS Monitoring and Water  
Clarity Report on August 1st,  
2018



Land & Water Conservation Department

*Michele Sadauskas, County Conservationist  
Stephanie Boismenu, AIS Coordinator  
Jonna Stephens Jewell, Program Assistant*

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

## Flannery Lake AIS Monitoring and Water Clarity Report

Field Date: August 1st, 2018  
WBIC: 985300  
Previous AIS Findings: None  
New AIS Findings: None  
Field Crew: Aubrey Nycz, AIS Project Leader, Tom Boisvert, AIS Project Assistant,  
and Jody Partin, AIS Project Assistant, Oneida County Land and Water  
Conservation Department  
Report By: Jody Partin

On August 1st, 2018, Aubrey, Tom, and I went to Flannery Lake to implement AIS monitoring along with water clarity and quality assessments. Flannery Lake is a 107 acre oligotrophic lake located in Oneida County and can be accessed by one public boat launch. Flannery Lake is connected to Velvet Lake by a wide channel. The shoreline along Flannery Lake is composed of private owners. The lake has a maximum depth of 35 feet, and the substrate is reported to be 10% sand, 4% gravel, 6% rock, and 80% muck. However, we did not observe a large amount of plant life, and it appeared to be slightly more rock and considerably less muck to us. Along with reporting the depth and substrate, the Wisconsin Department of Natural Resources also reports that the lake has largemouth bass and panfish present.

The weather while conducting research on Flannery Lake was cloudy with occasional light rain. The outside temperature was in the low 70 degrees Fahrenheit, the wind was slight, and despite the rain, the water clarity was still good. The slightly adverse weather did not impede our measurements other than the fact that we did not observe one small bay because we heard thunder and decided to exit the lake.

When conducting our AIS lake survey, the AIS team did a 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.

To observe the water clarity and quality of Flannery Lake, the AIS team went to the deep hole and used a Secchi disk to measure water clarity. Due to another lake association using our dissolved oxygen meter to measure water health, we had to conduct this lake monitoring without our DO meter. The Secchi disk reading was 10 feet.

The AIS team was glad to see that no invasive species were present at this time. The lake seems to be healthy, and some native plants were present and thriving. The three most common native plants we observed were Watershield, Water Smartweed, and Bladderwort. These plants, along with others, can be seen below in table 1.

**Findings:** Taken 10:00 am – 12:00 p.m. on August 1st, 2018

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

Secchi: The Secchi reading on this lake was 10 feet out of a 35 foot maximum depth. The water color was a brownish color, and appeared clear when glancing across the lake.

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



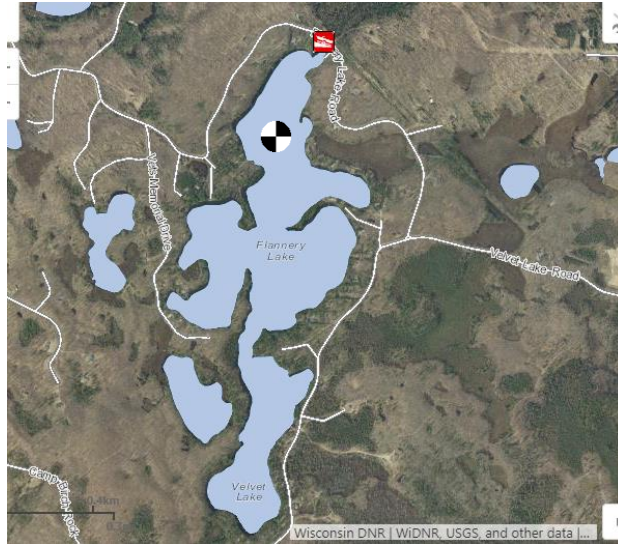
**Figure 2.** Map of Flannery Lake with boat landing and location of Secchi disk reading labeled.





Public boat landing





Deep hole & location of Secchi disk reading



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

Common Plant Name Scientific Plant Name	Description	Image
<p>Water Shield</p> <p><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>Photo Credit: Shannon Sharp</p>
<p>Water Smartweed</p> <p><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>Photo Credit: Superior National Forest/CCSA</p>

<p>Bladderwort</p> <p><i>Utricularia spp.</i></p>	<p>An aquatic plant with leaves containing small sacks that trap small invertebrates. This plant usually has unrooted stems that easily tangle with other plants. In the water, this plant tends to look cloudy or slimy. This plant is native.</p>	 <p>Photo Credit: frenchhill.org</p>
<p>White Water Lily</p> <p><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>Photo Credit: Joseph A. Marcus</p>