

Clawson Lake

Page 1: AIS Monitoring and Water
 Clarity Report of June 21st, 2016



Land & Water Conservation Department

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Clawson Lake AIS Monitoring and Water Clarity Report

Field Date: June 21st, 2016
WBIC: 976900
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 June 21, 2017, Aubrey and I went to Clawson Lake to implement AIS monitoring along with water clarity and quality assessments. Clawson Lake is a small 21 acre mesotrophic lake located in Oneida County, and does not have a public boat launch. The lake is said to have a maximum depth of 29ft, and a substrate of 20% sand, 5% gravel, 0% rock, and 75% muck. Along with reporting the depth and substrate, the Wisconsin Department of Natural Resources also reports that the lake has largemouth bass, panfish, and northern pike present. We observed many bluegill, crappie, and bass firsthand, and the fish numbers seem to be healthy.

The weather while conducting research on Clawson Lake was fair. The outside temperature was 72 degrees Fahrenheit, the sky was partly cloudy, and there was a slight chop on the water surface. 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.

To observe the water clarity and quality of Clawson Lake, Aubrey and I went to the deepest hole we could find with our sonar unit. We then 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, and thankfully both of these measurements were relatively average in nature. These measurements mean there should be no concern for the health of Clawson Lake. The Secchi disk reading was 12 feet, and the dissolved oxygen readings can be found in table 2. Graphs displaying water quality can also be viewed below (graphs 1-3).

Aubrey and I unfortunately did find one invasive species present on Clawson Lake. The invasive that we had found was purple loosestrife, and there were approximately 6 plants along the Eastern shoreline (see lake map). We were unsure what to expect as this was the first time Clawson Lake has ever been monitored, and it was not a good sign seeing purple loosestrife present. Besides the few plants of purple loosestrife, the lake seems to be healthy and many native plants were present and thriving. Blue Flag Iris, Large Purple Bladderwort, and Purple Loosestrife were some of the plants Aubrey and I had seen while on Clawson Lake. These plants can be seen below in table 1.

Findings: Taken 1:30 – 2:30 p.m. June 21, 2017

Aquatic Invasive Species: Purple Loosestrife was found along the Eastern shoreline of Clawson Lake.

Secchi: The Secchi reading on Clawson Lake was 12 feet out of a 26 foot maximum depth. The water color was a bluish color, and appeared clear when glancing across the lake.

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

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



Figure 2. Map of Clawson Lake with boat landing, Secchi disk/Dissolved oxygen site, and purple loosestrife area all labeled below



Public boat landing



Deep hole & location of Secchi disk reading

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



Purple Loosestrife

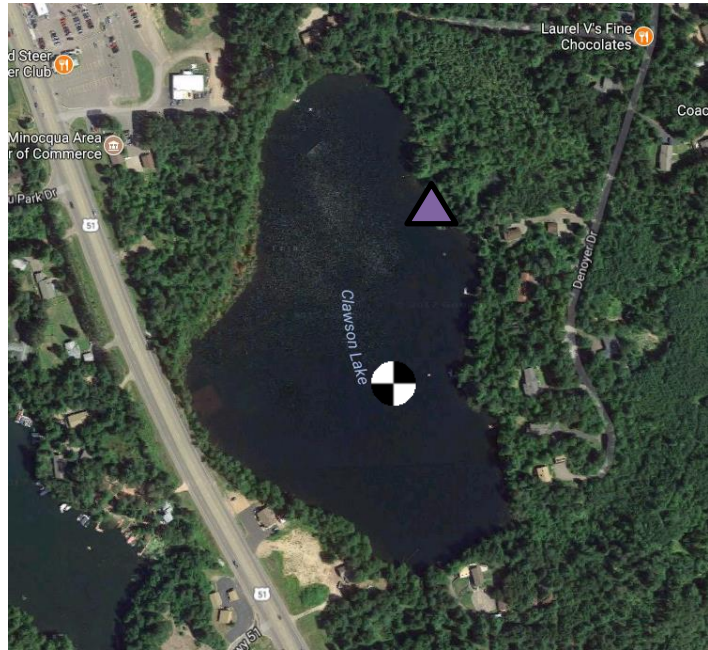



Table 1. Plants found in Clawson Lake when monitoring.

Scientific Plant Name	Common Plant Name	Image
<i>Iris versicolor</i>	Blue Flag Iris	



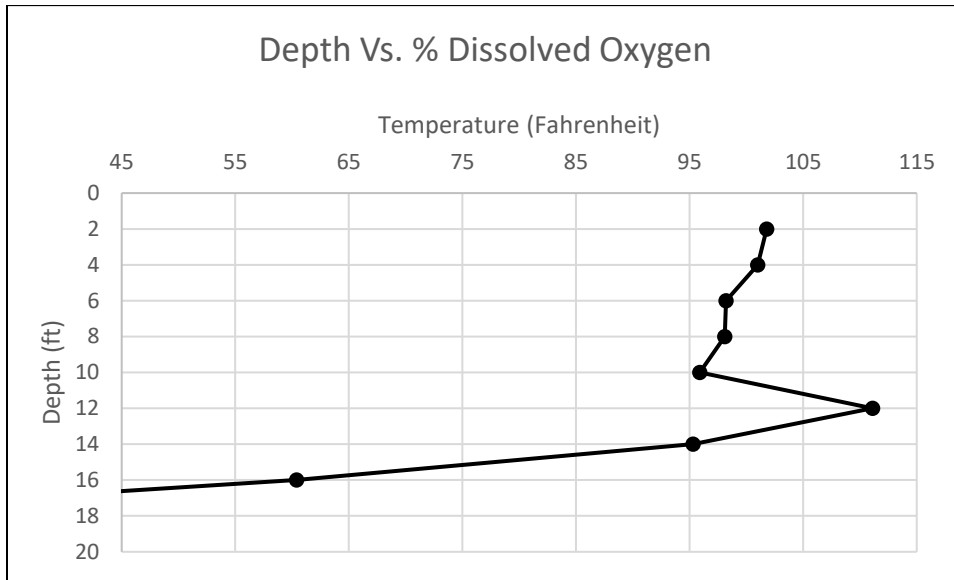
<i>Utricularia purpurea</i>	Large Purple Bladderwort	
<i>Lythrum salicaria</i>	Purple Loosestrife	

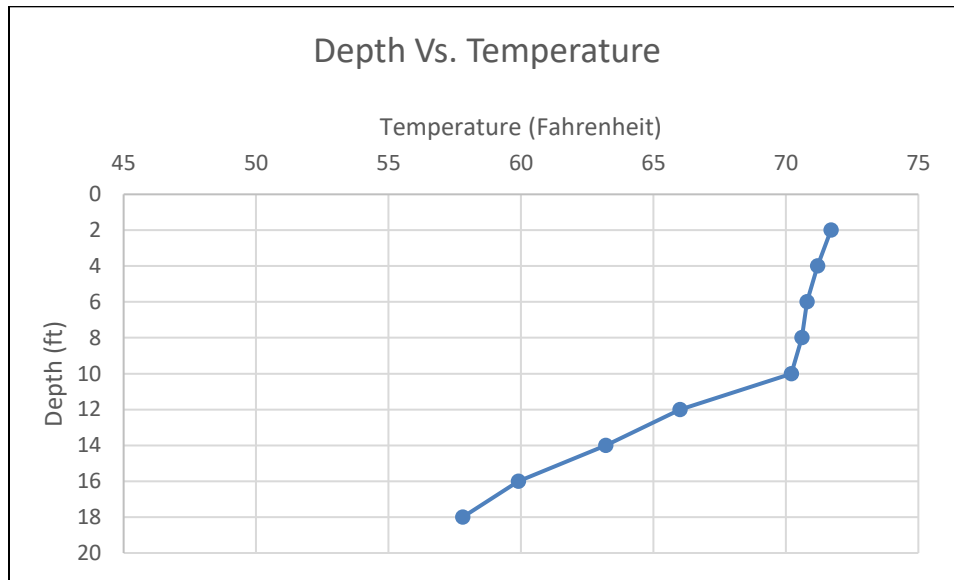
Table 2. Dissolved oxygen levels and temperatures at the deep hole.

Depth (Feet)	Dissolved Oxygen Levels (mg/L)	Temperature (F)	Percent Dissolved Oxygen
2	8.39	71.7°	101.8%
4	8.36	71.2°	101.0%
6	8.17	70.8°	98.2%
8	8.18	70.6°	98.1%
10	8.03	70.2°	95.9%
12	9.74	66.0°	111.1%
14	8.62	63.2°	95.3%
16	5.68	59.9°	60.4%
18	1.04	57.8°	10.8%

Graph 1



Graph 2



Graph 3

