Unnamed Lake

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Land & Water Conservation Department

Bass Lake AIS Monitoring and Water Clarity Report

WBIC:	5583266
Previous AIS Findings:	None
New AIS Findings:	None
Field Date:	July 8th, 2020
Field Crew:	Aubrey Nycz, Lead AIS Project Assistant, and Rachel Cook, AIS Project Assistant, Oneida County Land and Water Conservation Department
Report By:	Rachel Cook

Aubrey and I monitored an Unnamed Lake on July 8th, 2020. This lake is located in the town of Newbold, WI in Oneida County (Figure 1). It is a flowage waterbody of 154 acres with a maximum depth of 10 feet. Unnamed Lake's trophic state is listed as eutrophic. Eutrophic lakes are characterized by shallow, murky or dark waters, and high nutrient contents, allowing the growth of many plants and algae. Its entire perimeter is made up of the Northern Highland American Legion State Forest. It is located off of HWY D, at the southern end of Rainbow Flowage and the start of Swamp Creek. This lake is a very quiet, still and relatively undisturbed area with some islands and small channels.

There is a small, gravel/dirt boat landing at the northernmost edge of the lake at HWY D (Figure 2). This is where Aubrey and I put our canoe in. We paddled around the entire perimeter of the lake, as well as around any islands. We also paddled into Swamp Creek and Muskellunge Creek. The weather was not ideal for monitoring in that it was windy and overcast. From our canoe, we visually monitored the entire shoreline and as best as we could in shallow areas. The dark water made it difficult to see anything other than what was on the surface of the lake. It took us approximately 2 hours to navigate around the entire waterbody. During that time, we searched for any invasive species, but specifically for Eurasian Water Millfoil, Yellow Iris, and Purple Loosestrife, since those have been reported on the Rainbow Flowage. We did not find any new invasive species, but saw many thriving native species (Table 2).

After completing our visual monitoring of the shoreline and shallow areas, the depth finder was used to find a deep point on the lake since there is no contour map available through the Department of Natural Resources. Aubrey and I paddled towards the middle of the widest part of the lake until we found the maximum depth. At this point, we took the GPS location and took measurements on water clarity using the Secchi disk, and measured dissolved oxygen and temperature gradient using the dissolved oxygen meter (Table 1).

Findings:

Aquatic Invasive Species:

Fortunately, we did not find any invasive species on Unnamed Lake.

Secchi:

The Secchi reading on this lake was 2 feet out of a 10 foot max depth. The water color was a very dark brown/red.

Dissolved Oxygen:

These measurements can be seen in Table 2.

Figure 1. Map of Oneida County, WI with Unnamed Lake circled in red.

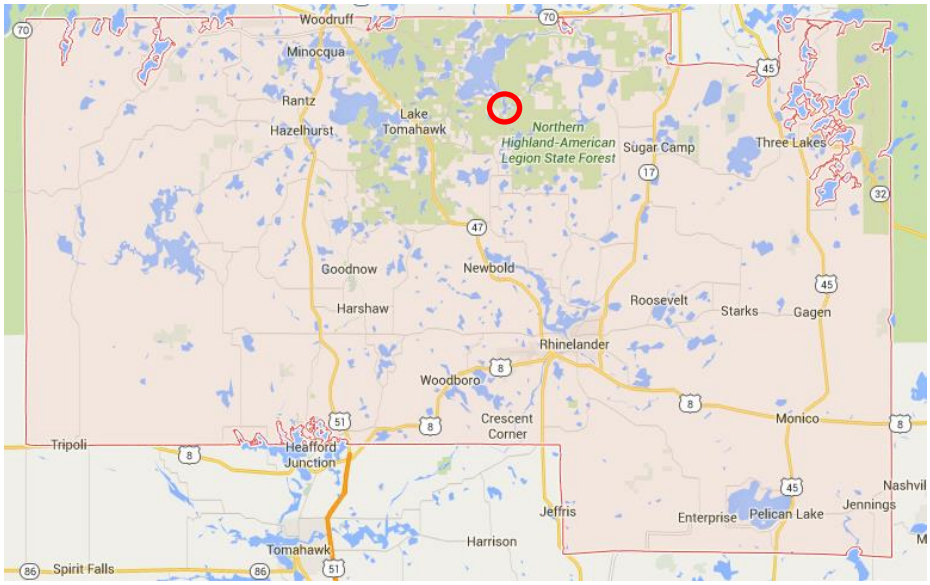

Figure 2. Map of Unnamed Lake with boat landing and location of Secchi disk reading labeled.

Deep hole & Secchi Disk Reading

Boat Landing

Table 1. Dissolved oxygen levels and temperatures at the deep hole.

Depth (Feet)	Dissolved Oxygen Levels (mg/L)	Temperature (F)	Percent Dissolved Oxygen
2	6.24	82.5	84.7
4	0.18	77.6	2.3
6	0.09	73.8	1.1
8	0.06	67.8	0.6

Table 2. Plants found in Unnamed Lake when monitoring.

Common Name Scientific Plant Name	Description	Image
Wild Rice *(Zizania polustris)*	A native pant that grows above the water, but is rooted in mucky sediment. Leaves are green in color, they grow in clusters, and they appear ribbon-like. Stalks can grow 3 to 10 feet tall. This plant is native.	 *Photo Credit: Susan Bronson*
Variable Leaf Pondweed *(Potamogeton gramineus)*	A native plant with submergent and emergent leaves. Submergent leaves with 3-7 veins and floating leaves with 11-19 veins. Can be found growing at various water depths.	 *Photo Credit: outdooralabama.com*
Common Bladderwort *(Utricularia macrorhiza)*	A submerged aquatic plant. Leaves contain small sacks that trap small invertebrates. This plant usually has unrooted stems that easily tangle with other plants, and tends to look cloudy underwater. This is native.	 *Photo Credit: frenchhill.org*
Water Smartweed *(Persicaria amphibian)*	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 is native.	 *Photo Credit: Superior Natl. Forest*