

# Spur Lake

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                  Clarity Report of June 24, 2015



Land & Water Conservation Department

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

WBIC: 1571800  
Previous AIS Findings: None  
New AIS Findings: None  
Field Date: June 24, 2015  
Field Crew: Stephanie Boismenu and Samantha Zommers, AIS Project Assistants,  
Oneida County Land and Water Conservation Department  
Report By: Samantha Zommers

Stephanie and I monitored Spur Lake on June 24<sup>th</sup>, 2015. It is located in the town of Piehl (Figure 1). This drainage lake is 113 acres with a maximum depth of 3 feet. Although the bottom is 99% muck, the lake water was dark but clear. There are many panfish along with northern pike present. Spur Lake is owned by the DNR and was designated a State Natural Area in 2007.

This lake does not have an actual boat landing, but an area alongside the road where a canoe can be dropped into the culvert to connect into the lake (Figure 2). Conditions of the lake were hard for navigating around. The tops of the water were covered in floating bogs with small navigable ways and few small openings in the center of the lake.

The depth finder was used during our monitoring to find a deep point on the lake(Figure 2), since a bathymetric map for this lake was unavailable. Stephanie navigated the canoe until we found a good anchoring point. At this anchoring deep point we took the GPS point of our locations and did measurements on water clarity using the Secchi disk, dissolved oxygen using the dissolved oxygen meter, and temperature (Table 1).

After data collection, performed an AIS presence/absence check (Figure 2). The protocol for this process is to complete a visual inspection of the littoral zone along 100 feet of the shoreline in each area. For the locations of AIS presence/absence checks, we meandered the shoreline via walking along the shoreline, looking through vegetation, and checking under and around solid surfaces. In addition to the presence/absence checks, we also visually inspected from the canoe for the entire shoreline of the lake.

**Findings:**

Aquatic Invasive Species:

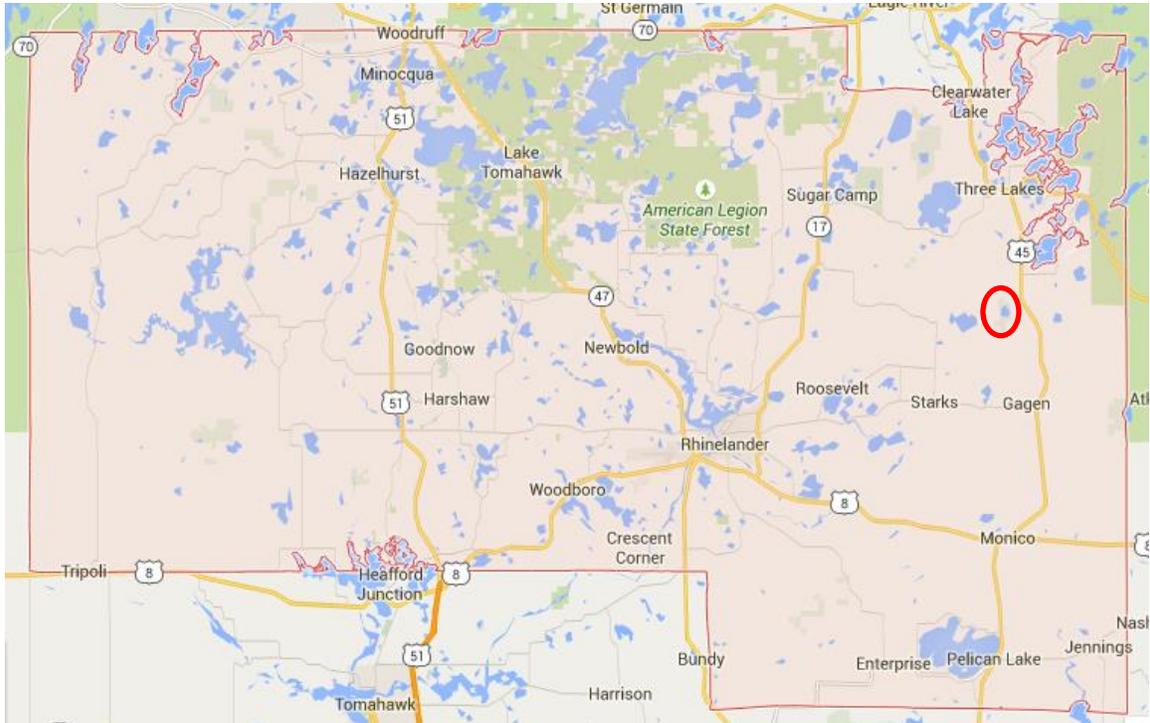
Fortunately, there were no invasive species discovered while monitoring this lake.

Secchi:

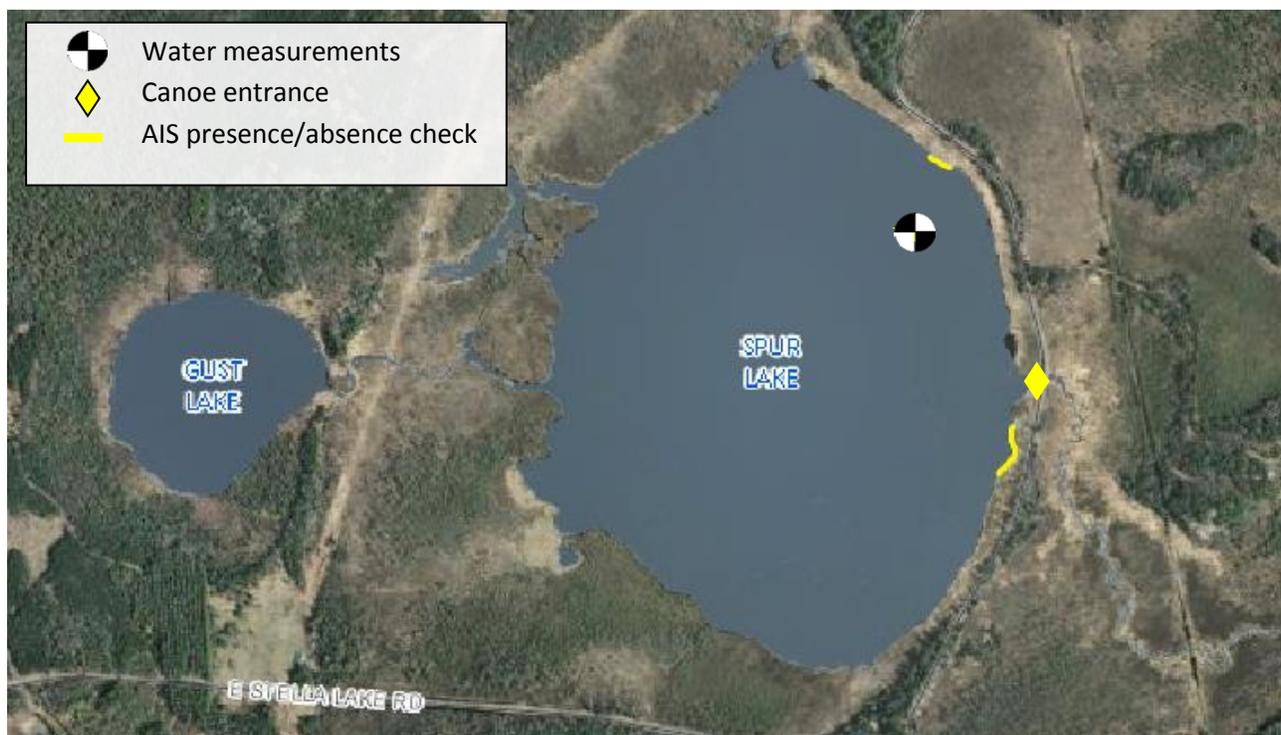
Spur Lake is brown, but we were able to see 2.5 feet out of a max depth of 3 feet.

Dissolved Oxygen:

These measurements can be seen on Table 1.



**Figure 1.** Map of Oneida County, WI with Spur Lake circled.



**Figure 2.** Map of Spur Lake with deep hole, canoe entrance, and AIS presence/absence checks marked.

Water Quality GPS Coordinate: 45.72213, -89.15538

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

| Depth (Feet) | Dissolved Oxygen Levels (mg/L) | Temperature (F) |
|--------------|--------------------------------|-----------------|
| 1            | 5.94                           | 70.9            |
| 2            | 3.75                           | 67.3            |

Resources: <http://dnr.wi.gov/lakes/lakepages/LakeDetail.aspx?wbic=1571800&page=facts>