

Data Collectors		Matt Hager, Jen Steltenpohl		Date	6-22-12
Lake Name		Murphy	County	Marquette	WBIC
Start Time	11:15	End Time	1:15	Secchi Depth	17
				feet/or meters (circle one)	Conductivity
					350

Look for the following species: Purple loosestrife, Phragmites, flowering rush, Hydrilla, Brazilian waterweed, Eurasian water-milfoil, curly-leaf pondweed, yellow floating heart, zebra mussel, quagga mussel, Chinese mystery snail, banded mystery snail, faucet snail, New Zealand mud snail. List any other AIS found. **If sites not snorkeled, take 50 rake and D-net samples during meander survey.**

*found new AIS sign over water at boat landing*

**STEP 1:** Record locations of sites (in decimal degrees) using a GPS unit (datum WGS84). List AIS found at each site or record none. Collect a sample of any suspected AIS found.

Boat Landing#	1	Species		Latitude		Longitude		Density (1-5)	
Boat Landing#		Species		Latitude		Longitude		Density (1-5)	
Search Site#	1	Species	<del>Red-tailed Tropicbird</del> none	Latitude	45.13207	Longitude	-088.12942	Density (1-5)	3
Search Site#	2	Species	none	Latitude	45.13119	Longitude	-088.12924	Density (1-5)	
Search Site#	3	Species	<del>Red-tailed Tropicbird</del> none	Latitude	45.13067	Longitude	-088.12965	Density (1-5)	2
Search Site#	4	Species	none	Latitude	45.13050	Longitude	-088.12877	Density (1-5)	
Search Site#	5	Species		Latitude	45.13088	Longitude	-088.12755	Density (1-5)	
Search Site#		Species		Latitude		Longitude		Density (1-5)	
Meander Survey#	1	Species	<del>Red-tailed Tropicbird</del> none	Latitude	45.13150	Longitude	-088.12978	Density (1-5)	2
Meander Survey#	2	Species	<del>Red-tailed Tropicbird</del> none	Latitude	45.13069	Longitude	-088.13027	Density (1-5)	2
Meander Survey#		Species		Latitude		Longitude		Density (1-5)	

Did you snorkel the search sites?  Y  N If not, why? (circle one) stained water, turbid water, blue-green bloom, chemical treatment, other \_\_\_\_\_

Rake/D-net counts: Count 1 \_\_\_\_\_; Species 1 \_\_\_\_\_; Count 2 \_\_\_\_\_; Species 2 \_\_\_\_\_  
 Count 3 \_\_\_\_\_; Species 3 \_\_\_\_\_; Count 4 \_\_\_\_\_; Species 4 \_\_\_\_\_

**Step 2:** Label first five specimens collected with species, collector, date, lake name, WBIC and Location # Send your specimens to an expert for verification. Instructions on how to voucher specimens and a list of statewide taxonomy experts can be found at: <http://dnr.wi.gov/invasives/aquatic/whattodo/staff/>

**Step 3:** Collect Waterflea Tows from three sites around the lake in water deeper than 15 feet (if possible).

Method used: \_\_\_\_\_ horizontal tows (near surface) or  oblique tows (near bottom to surface if greater than 15 feet)  
 Diameter of plankton net mouth (circle one) 30cm  50cm other \_\_\_\_\_  
 Depth sampled: Tow 1 \_\_\_\_\_ ft Tow 2 \_\_\_\_\_ ft Tow 3 \_\_\_\_\_ ft  
 Has ethanol been added?  Y  N Have samples been consolidated into one bottle?  Y  N

**Step 4:** Collect Veliger Tows from three sites in 5-10 feet of water (within a meter of the bottom):

**Guidelines:** If Secchi depth is >4m take two 2m deep samples; if Secchi is between 2-4m take one 2m deep sample; if Secchi is <2m take one 1m tow.

Diameter of plankton net mouth (circle one) 30cm  50cm other \_\_\_\_\_  
 Has ethanol been added?  Y  N Have samples been consolidated into one bottle?  Y  N

**Step 5:** Data was entered into SWIMS on 7-3-12 by Matt Hager  
 Date Name

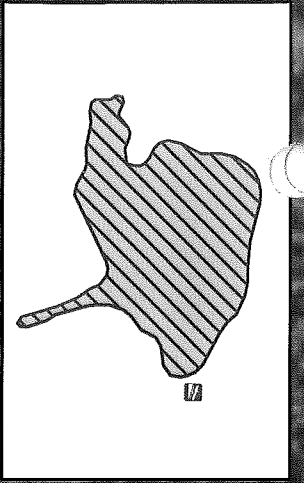
**Notes:**

**Density Ratings**

- 1 – A few plants or invertebrates
- 2 – One or a few plant beds or colonies of invertebrates
- 3 – Many small beds or scattered plants or colonies of invertebrates
- 4 – Dense plant, snail or mussel growth in a whole bay or portion of the lake
- 5 – Dense plant, snail or mussel growth covering most shallow areas

**General guidance on areas to search for the 10 minute quick snorkel search sites:**

- Check rocks for zebra/quagga mussels, faucet snails and New Zealand mudsnails.
- Check around small backyard boat launches.
- Check near creek inlets (especially if AIS are found upstream).
- Check the stems of emergent vegetation for climbing faucet snails.
- Check areas downwind of large boat landings.



522400 Murphy Lake