

Data Collectors <i>Matt Hogg, Rod Lange</i>		Date <i>8-28-12</i>
Lake Name <i>Big</i>	County <i>Shelby</i>	WBIC <i>1613080</i>
Start Time <i>10:00 AM</i>	End Time	Conductivity <i>75</i>
	Secchi Depth <i>4</i>	feet or meters (circle one)

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.**

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#	<u>1</u>	Species	_____	Latitude	_____	Longitude	_____	Density (1-5)	_____
Boat Landing#	<u>2</u>	Species	_____	Latitude	_____	Longitude	_____	Density (1-5)	_____
Search Site#	<u>1</u>	Species	_____	Latitude	_____	Longitude	_____	Density (1-5)	_____
Search Site#	<u>2</u>	Species	_____	Latitude	_____	Longitude	_____	Density (1-5)	_____
Search Site#	<u>3</u>	Species	<i>CMS</i>	Latitude	<i>45.74957</i>	Longitude	<i>89.12736</i>	Density (1-5)	<u>2</u>
Search Site#	<u>4</u>	Species	<i>CMS</i>	Latitude	<i>45.75816</i>	Longitude	<i>89.12785</i>	Density (1-5)	<u>1</u>
Search Site#	<u>5</u>	Species	<i>CMS</i>	Latitude	<i>45.75911</i>	Longitude	<i>89.12842</i>	Density (1-5)	<u>1</u>
Search Site#	<u>3</u>	Species	_____	Latitude	_____	Longitude	_____	Density (1-5)	_____
Meander Survey#	_____	Species	_____	Latitude	_____	Longitude	_____	Density (1-5)	_____
Meander Survey#	_____	Species	_____	Latitude	_____	Longitude	_____	Density (1-5)	_____
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/>

Data Collectors		Jeni Stetson / Jane Lane		Date	8/28/12
Lake Name	Big Lake	County	Alcona	WBIC	
Start Time	10:30	End Time	1:00pm	Secchi Depth	4
			Feet or meters (circle one)	Conductivity	20

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.**

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	Bluegreen CMS	Latitude	45.76833	Longitude	89.12156	Density (1-5)	1
Boat Landing#	2	Species	Chinese Mystery	Latitude	45.76817	Longitude	89.11730	Density (1-5)	1
Search Site#	1	Species	none	Latitude	45.76925	Longitude	89.10555	Density (1-5)	1
Search Site#	3	Species	CMS	Latitude	45.75644	Longitude	89.11083	Density (1-5)	1
Search Site#	2	Species	none	Latitude	45.75645	Longitude	89.11747	Density (1-5)	1
Search Site#	3	Species		Latitude		Longitude		Density (1-5)	
Search Site#	4	Species		Latitude		Longitude		Density (1-5)	
Search Site#	5	Species		Latitude		Longitude		Density (1-5)	
Meander Survey#		Species		Latitude		Longitude		Density (1-5)	
Meander Survey#		Species		Latitude		Longitude		Density (1-5)	
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 \_\_\_\_\_; Count 2 \_\_\_\_\_; Count 3 \_\_\_\_\_; Count 4 \_\_\_\_\_  
 Species 1 \_\_\_\_\_; Species 2 \_\_\_\_\_; Species 3 \_\_\_\_\_; 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 18 ft Tow 2 20 ft Tow 3 24 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 NA  
 Has ethanol been added? Y/N \_\_\_\_\_ Have samples been consolidated into one bottle? Y/N \_\_\_\_\_

Step 5: Data was entered into SWIMS on 9-10-12 by Matt Hegel  
 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 2 s downwind of large boat landings.

