

Data Collectors <u>Quita Sheehan, Erin Vennie-Volkmuth, Scott Van Eerden</u>			Date <u>13-Sept-2012</u>	
Lake Name <u>Shannon</u>		County <u>Vilas</u>		WBIC <u>1016800</u>
Start Time <u>930</u>	End Time <u>1146</u>	Secchi Depth <u>13.5</u> <small>feet or meters (circle one)</small>	Conductivity	

**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. Record how many of the 50 samples have each AIS found in the "Count" spaces below.**

**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:** Species 1 \_\_\_\_\_ Count \_\_\_\_\_; Species 2 \_\_\_\_\_ Count \_\_\_\_\_; Species 3 \_\_\_\_\_ Count \_\_\_\_\_; Species 4 \_\_\_\_\_ Count \_\_\_\_\_; Species 5 \_\_\_\_\_ Count \_\_\_\_\_; Species 6 \_\_\_\_\_ Count \_\_\_\_\_

**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 <u>45.96065</u>	Longitude <u>-89.43802</u>	Density (1-5) _____
Boat Landing# _____	Species _____	Latitude _____	Longitude _____	Density (1-5) _____
Search Site# <u>1</u>	Species _____	Latitude <u>45.95931</u>	Longitude <u>-89.43895</u>	Density (1-5) _____
Search Site# <u>2</u>	Species _____	Latitude <u>45.95794</u>	Longitude <u>-89.43784</u>	Density (1-5) _____
Search Site# <u>3</u>	Species _____	Latitude <u>45.95627</u>	Longitude <u>-89.43462</u>	Density (1-5) _____
Search Site# <u>4</u>	Species _____	Latitude <u>45.95923</u>	Longitude <u>-89.43437</u>	Density (1-5) _____
Search Site# <u>5</u>	Species _____	Latitude <u>45.96092</u>	Longitude <u>-89.43591</u>	Density (1-5) _____
Search Site# _____	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) _____

**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/>

*Electric motor only, stocked w/ trout*

**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 18 ft Tow 3 20 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). *- Not suitable*

**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 9/13/12 by Erin Vennie-Vallrath  
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.

Soyer 6 Miles

T.B.M. "X" is a large rock in the water just East of boat landing from the highest point to water surface.  
Assumed Elevation = 100.00'  
Water Level = 98.4'



NORTHERN

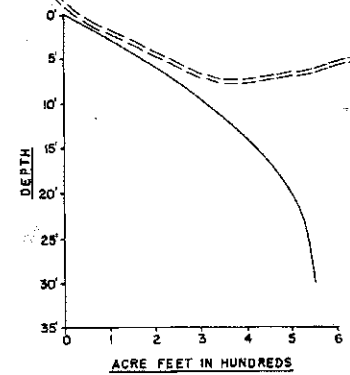
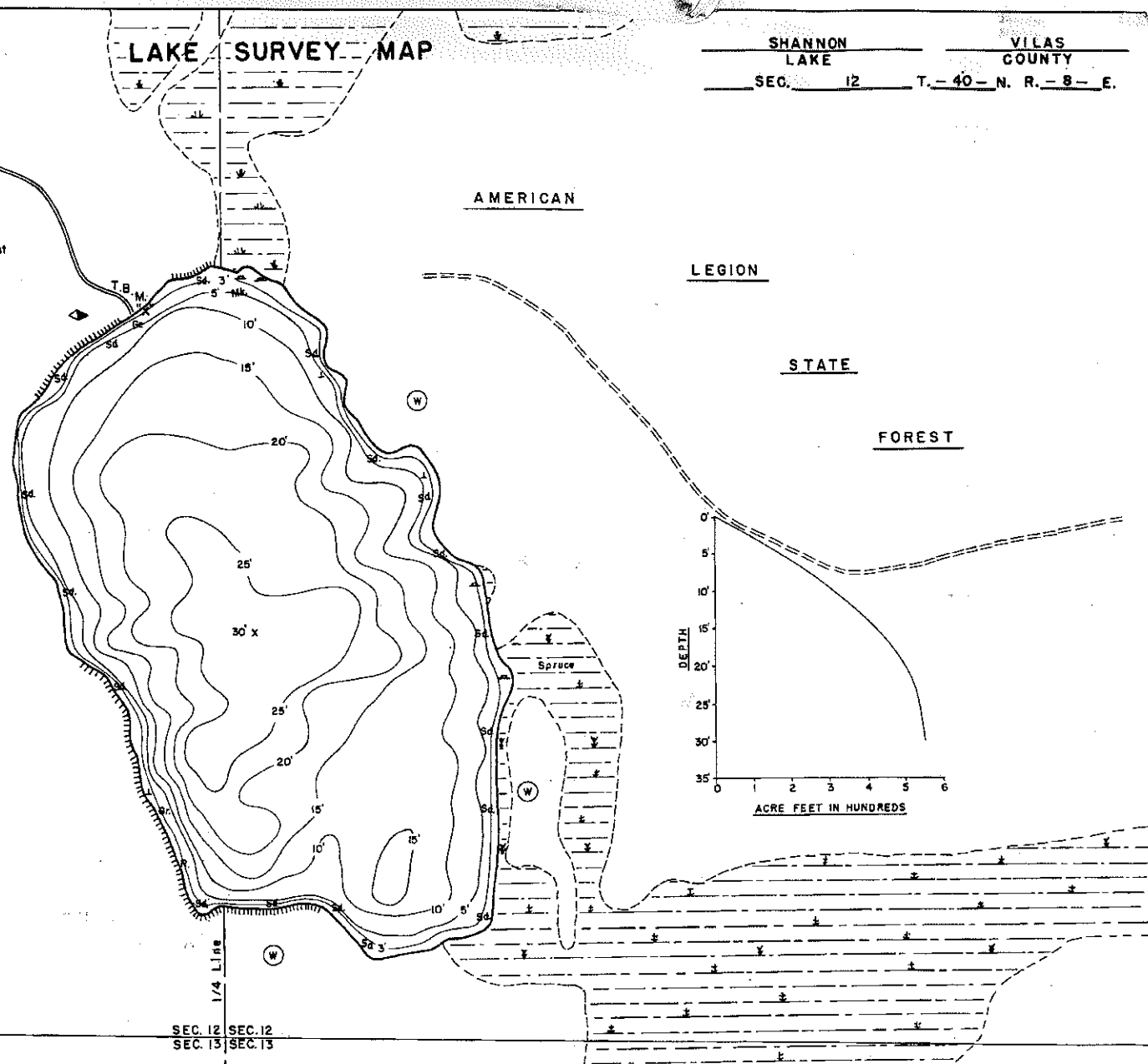
HIGHLAND

AMERICAN

LEGION

STATE

FOREST



Beaver Lake  
7 Acres  
12' Max. Deep

SEC. 12 SEC. 12  
SEC. 13 SEC. 13

EQUIPMENT RECORDING SONAR MAPPED JULY 1975

- | TOPOGRAPHIC SYMBOLS |                           | LAKE BOTTOM SYMBOLS |                           |
|---------------------|---------------------------|---------------------|---------------------------|
| (B) Brush           | (H) Hill Steep slope      | P. Peat             | B. Boulders               |
| (W) Partly wooded   | (MS) Machine shoreline    | Mk. Muck            | Slumps B Snags            |
| (C) Cleared         | (M) Marsh                 | C. Clay             | Rock danger to navigation |
| (P) Pastored        | (S) Spring                | M. Marl             | T Submergent vegetation   |
| (A) Agricultural    | (IS) Intermittent stream  | Sd. Sand            | ↓ Emergent vegetation     |
| B.M. Bench Mark     | (PI) Permanent inlet      | S. Silt             | △ Floating vegetation     |
| (D) Dwelling        | (PO) Permanent outlet     | Gr. Gravel          | ↖ Brush shelters          |
| (R) Resort          | (D) Dam                   | R. Rubble           |                           |
| (C) Camp            | (S.O.L.) State owned land | Bc. Bedrock         |                           |



Access Access with Parking Boat Livery  
Drawn by: G. Thuesen  
Field work by: J. Smith, R. Krause

SPECIES OF FISH	ABUNDANCE		
	Abundant	Common	Present
Muskie			
N. Pike			
Walleye			
L.M. Bass			X
S.M. Bass			X
Panfish	X		
Trout			

WATER AREA 36.3 ACRES  
UNDER 3 FT. 5.6 %  
OVER 20 FT. 30.27 %  
MAX. DEPTH 30 FEET  
TOTAL ALK. 2 P.P.M.  
VOLUME 547.85 ACRE FT.  
MAIN SHORELINE 1.00 MI.  
ISLAND SHORELINE 0 MI.