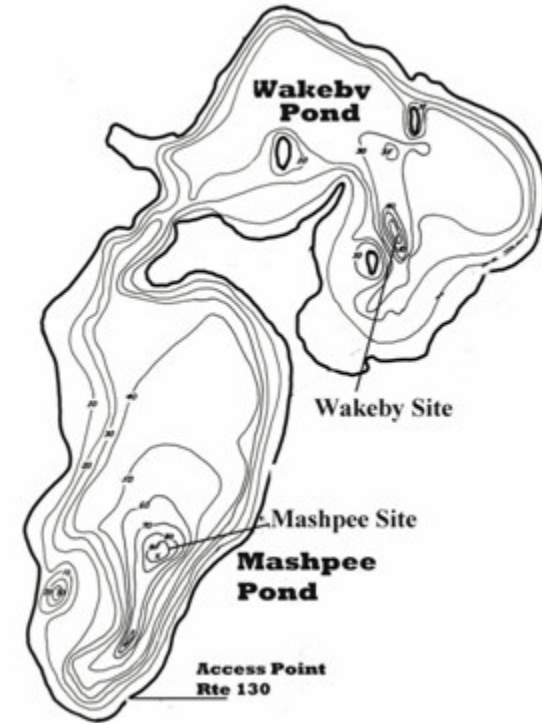


**MASHPEE & WAKEBY LAKES
MANAGEMENT COMMITTEE
NEWSLETTER**



VOL. 11, NUMBER 2, FALL 2011

**Mashpee-Wakeby Lake
Management Committee
Mashpee Town Hall
Mashpee MA, 02649**

This newsletter appears in the spring and fall and can be found on the Town web site www.mashpeema.gov under Boards and Committees: Mashpee Wakeby Lake Management.

"Now our biggest environmental problem comes from our own actions, our own choices, rather than pollution produced by big business."

- Former Minnesota Governor, Jesse Ventura 2001

Yellow Floating Heart: An Exotic Aquatic Plant

Nymphoides peltata

Description

- Yellow Floating Heart, an aggressive exotic aquatic plant, is native to Asia but now occurs in over 15 states.
- The shiny green leaves are heart-shaped and the size of a silver dollar. Leaves are arranged alternately along the stem, and oppositely on the flower stalks. Leaf margins are often rippled and purplish underneath.
- Two to five showy yellow flowers are supported several inches above the water on strong stalks. The flowers have 5 petals, with fringed margins, and are usually 3-5 cm in diameter.
- The rope-like stems are attached to adventitious roots on the lake's bottom.



MASHPEE & WAKEBY LAKE MANAGEMENT COMMITTEE

MISSION STATEMENT

The Mashpee & Wakeby Lake Management Committee is comprised of five members from the Mashpee community. They are representative of groups within the Town of Mashpee who have a vested interest in maintaining the beauty and safety of the Lake for the residents' use and enjoyment. The Committee acts as a conduit for the public's interests and concerns about the Lake. It serves as liaison to the Town's governing agencies, recommending necessary actions to be taken. The Committee meets on the fourth Tuesday of each month, at 7:30 PM at the Mashpee Town Hall. The presence of Mashpee residents at these meetings is encouraged. We urge your participation in the activities of this Committee, to assist in our ongoing efforts to preserve the beauty and safety of the Lake. For more information, contact any of the Committee members listed below.

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Vacancy



Lowell Holly Reservation

The Trustees of the Reservation continue to maintain a porta-potty in the parking area of Lowell Holly. Unfortunately, it is quite a distance from the beach area, where facilities are still needed.

There are two new improvements in the area. There is a new walkway to the beach on Wakeby shore, which should help with the erosion on that banking, and a new kiosk has been put up showing the trail maps in the recreation area.

Yellow Floating Heart: An Exotic Aquatic Plant (cont)

Yellow Floating Heart - Habitat

This species has been documented in Massachusetts and other areas of New England.

- Commonwealth of Massachusetts ~ Department of Conservation and Recreation ~ Office of Water Resources ~ Lakes and Ponds Program

Impacts and Threats Posed by Yellow Floating Heart

N. peltata is a very aggressive plant that is capable of rapid growth and spread. *N. peltata* can displace native species, reduce biodiversity, limit recreation, diminish aesthetic value, and decrease water quality and flow.

Management Methods

Management methods currently include mechanical removal and herbicide application.

- Harvesting can greatly reduce the biomass in a water body, but this technique requires frequent repetition and is labor intensive.
- Some herbicides, including aquatic glyphosate show promising results, however, herbicides require permits, must be applied by a licensed applicator and may impact non-target native plants or animals.

Other Information

- Yellow Floating Heart is on the Massachusetts Prohibited Plant list (as of January 1, 2006)
- Informational websites:
<http://aquat1.ifas.ufl.edu/> (Center for Aquatic and Invasive Plants)
<http://nas.er.usgs.gov/queries/plants/PlantState.html> (USGS- search for exotic species by state)
www.ProtectYourWaters.net (Aquatic Nuisance Species national web site)

In Memoriam



Edward Baker, 79, died on June 8, 2011. Although not a member of this committee, Ed had attended all but one of our meetings since Barbara Nichols began keeping attendance in 2004, and he assisted with the printing of our newsletter. Ed also sent out the reminders letting folks know when the newsletter was available online. Ed was a founder of Mashpee Environmental Coalition and a watchdog for the Mashpee River and other waterways in Town. Ed assisted in the volunteer water quality monitoring for two of Mashpee's ponds and collated the data from the volunteers doing the other four ponds, and wrote a yearly report. He held a bachelor's degree in business administration and an associate's degree in electronic engineering and worked at Raytheon for 30 years before moving to Mashpee. Self taught about many environmental issues, Ed worked tirelessly to protect Mashpee's waters for the last 23 years. Residents of Mashpee, and especially this committee will miss him greatly!

Stephen Mone is Mashpee's new Harbormaster

Stephen Mone was appointed as the Town's new Harbormaster in August. He will oversee the four seasonal assistants and work to keep the waterways safe. His responsibilities also include the town's mooring fields. He hopes to clean up the waterways, removing old hazardous docks, floats and boats. This committee welcomes Mr. Mone, and looks forward to meeting him at one of our fall meetings.



In Memoriam

New Kid on the Block

As a new member of this team, I still have a lot to learn. I have been going through my dad's (William Marsters) old newsletters and folders, trying to get a feel for the topics of concern for Mashpee and Wakeby Lakes. I, myself, having spent a lot of time here on the lake growing up, and bringing by own kids here every summer, have a lot of great memories of swimming, fishing, sailing and water skiing.

I am now living here on the lake and can see that over the years, there are new homes and many more boats that use the lakes. Therefore, there would be more concern with the lake level. I have seen the water levels grow so high over the years and have seen the damage the erosion has done around the shoreline. I have talked to quite a few people that live on the lakes, and there are concerns for boat traffic, boat speeds and jet ski safety issues.

So, I look forward to joining the committee's efforts to help address the people's concerns to make sure this stays a beautiful and safe place for all the residents that use it.

Debi McManus



William Marsters, the chairman of Mashpee Wakeby Lake Management Committee, died of melanoma on May 6, 2011 at the age of 78. Born and raised in Quincy, he was an honored veteran of the Korean War. He was a Quincy firefighter for 25 years and also owned a Service Station for 50 years. He moved to Mashpee in 1972. An original member of this committee, he was appointed by the Selectmen in 1996 when the committee was formed, and continued serving faithfully for 15 years. The high water levels in the lake were a particular concern of Mr. Marsters, as the erosion around the lake caused residents loss of property. He leaves his wife Mary and eight children.

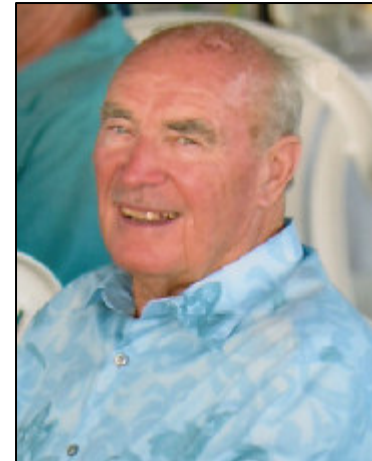


Table 1 Trophic State Classifications

Indicator	Oligotrophic	Mesotrophic
Phosphorus	Less than 12	12-24
Chlorophyll a	Less than 2.6	2.6-7.2
Secchi	Greater than 4	2-4

Eutrophic	units
Greater than 24	ug/L
Greater than 7.2	ug/L
Less than 2	Meters

Table 2

Snapshot .5-1 Meter Depth Data (in table 1 units)

Pond	Item	2005	2006
Mashpee	Phos	9.27	12.4
Mashpee	Chlor a	5.43	6.34
Mashpee	Secchi	3.43	2.2
Wakeby	Phos	12.36	15.5
Wakeby	Chlor a	5.29	3.41
Wakeby	Secchi	6.0	2.75

2007	2008	2009	2010
11.9	9.0	9.3	8.62
2.15	2.26	5.19	.55
3.0	4.9	4.7	3.7
15.1	11.3	15.5	17.23
4.39	4.53	7.1	8.78
3.15	4.13	4.1	2.68

Table 3 Phosphorus levels in the deeper holes

	3 meters
Mashpee	13.24
Wakeby	15.34

9 meters	1 meter above bottom
16.39	221.24 @ 29 mtr.
294.63	133.85 @ 19 mtr.

* The water samples were collected by volunteers, and tested by the lab at the University of Massachusetts, Dartmouth. Results were reported to this committee by Ed Eichner.