

CRESCENT LAKE AQUATIC INVASIVE SPECIES GRANT REPORT

Project # AEPP-153-08

PREPARED BY:

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Two of the main focuses of the 2008-2009 Aquatic Invasive Species Control Grant (AEPP-153-08) were continuation of the Clean Boats/Clean Waters watercraft inspection program and lake vegetation monitoring. The following provides a detailed summary of the activities conducted by members of the Crescent Lake Association in support of that Grant.

Watercraft Inspection Summary

As in years previous to the grant implementation, watercraft inspections continued during 2008-2009. Inspections took place from the first weekend in May until after the Hodag Musky Challenge in late September. Watercraft inspection data were entered into the Surface Water Integrated Monitoring System (SWIMS). Well over 500 hours were spent by volunteers at the Public boat landing educating lake users on the issue of aquatic invasive species as well as inspecting watercraft and trailers. Over the course of the grant there were 1,760 people who heard the message our Clean Boats/Clean Waters personnel provided. Inspections of 930 watercraft were conducted over the period as well. Most lake users have become familiar with the threats AIS pose, however, there were still many instances of boats and trailers preparing to enter the water with aquatic vegetation attached. Through the diligence of our inspectors, these potential threats were all averted, including at least one instance where Eurasian water milfoil was present.

Although the grant proposal indicated that we would run a single training session to increase the number of qualified Clean Boats/Clean Waters inspectors, through the generosity of one of our most experienced inspectors, we were able to hold several over the 2 year period and increase the number of trained inspectors to 36. These training sessions were conducted on site so as to allow newly trained personnel the benefit of direct observation.

Vegetation Sampling

The Crescent Lake Association continued to conduct vegetation sampling over the course of the grant period. This sampling took place two times per year during both 2008 and 2009. The Crescent Lake Association provided personnel to Ayres and Associated during the formulation of the Lake Management Plan and these same people were instrumental in helping to establish the ongoing vegetation sampling process. In order to compare our results with those obtained by Ayres previously we decided to use the WiAPMS excel spreadsheet which can be used to record species occurrence as well diversity indices. These data will allow us to monitor the changes in species abundance and distribution between years on a major portion of Crescent Lake.

Sampling was conducted on:

16 July	2008
16 September	2008
17 June	2009
10 September	2009

2008 Sampling

July 16th

Sampling was conducted with one pontoon and 174 locations were sampled. No vegetation was collected at 100 of the locations. Heavy volumes of vegetation were limited to coontail and *Elodea*. No suspicious vegetation was observed during the monitoring.

September 16th

Two pontoons were used to conduct the sampling, one heading East and one West to meet at the south end of the lake. Sampling tosses were taken at 293 points along the lake. No vegetation was recovered at 146 locations. Vegetation samples retrieved at the 147 locations showed no evidence of Eurasian water milfoil or other AIS.

2009 Sampling

June 17th

Two pontoons were used to sample 226 points along the lakeshore. No vegetation was collected at 113 of these locations. Large volumes of rake vegetation were limited to *Elodea* and coontail. Moderate rake volumes occurred with Illinois pondweed and filamentous algae.

September 10th

Sampling was conducted at 287 locations along the lakeshore with no vegetation collected at 105 locations. Large rake volumes of Illinois pondweed, coontail, *Elodea*, and wild celery were collected as well as moderate rake volumes of filamentous algae, Robbins pondweed, and flat-stemmed pondweed. No suspicious vegetation samples were collected.

More intensive sampling during each of the monitoring visits occurred at the public landing on Highway 8 as well as the private landing located at the Crescent Lake Bible Camp. This more intensive sampling was initiated due to the likelihood of AIS establishing in those areas of entry.

In 2009, there was a larger amount of green algae in the lake than in 2008, but by the fall sampling period its prevalence was already in decline. Two new species were added in 2009 as well, White-stem pondweed (*Potamogeton praelongus*) and *Nitella* spp.

Not all pondweeds were identified down to the species level. There were some samples taken in 2009 of the narrow leaved *Potamogeton*. The main focus of the vegetation sampling was to ensure that Eurasian water milfoil (*Myriophyllum spicatum*) and Curlyleaf pondweed (*Potamogeton crispus*) as well as any other AIS were not present. Over the two years the CLA has been doing the monitoring, no samples of northern water milfoil have been collected. Although Northern water milfoil (*Myriophyllum exalbescens*) is a native species and may be identified at some point in Crescent Lake; any *Myriophyllum* species collected should be considered suspicious and adequately marked with a GPS location and identified by an expert.

The most common species observed during sampling were coontail and *Elodea* with large amounts of *Potamogeton* spp. as well. The majority of the *Potamogeton* samples were *P. amplifolius*, *P. robbinsii*, and *P. illinoensis*.

Volunteer hours for vegetation sampling over the 2 year period totaled 126.5 hours. These volunteers not only dug through the masses of aquatic vegetation during the fall sampling periods but also volunteered use of their pontoons for use as "research vessels" from which to conduct the sampling.

Aquatic Plant Species Identified During Vegetation Monitoring Activities on Crescent Lake 2008-09

<u>Common Name</u>	<u>Scientific Name</u>
Coontail	<i>Ceratophyllum demersum</i>
Illinois pondweed	<i>Potamogeton illinoensis</i>
Canada waterweed	<i>Elodea canadensis</i>
Pickerelweed	<i>Pontederia cordata</i>
White water lily	<i>Nymphaea odorata</i>
Large leaf pondweed	<i>Potamogeton amplifolius</i>
Wild celery	<i>Vallisneria spiralis</i>
Robbins pondweed	<i>Potamogeton robbinsii</i>
Dwarf water milfoil.	<i>Myriophyllum tenellum</i>
Flat-stemmed pondweed	<i>Potamogeton zosteriforme</i>
Spatterdock	<i>Nuphar variegatum</i>
Bulrush	<i>Scirpus</i> spp.
Pondweed spp.	<i>Potamogeton</i> spp.
Stonewort	<i>Nitella</i> spp.
Duckweed	<i>Lemna</i> spp.
Filamentous algae	

Volunteer Recognition

Recognition banquets were held on September 30th 2008 and September 30th, 2009. The banquets were well attended and provided an opportunity for the Crescent Lake Association to offer our thanks to all the dedicated volunteers for their many hours spent in support of the AIS program. Gifts were provided to those who participated in watercraft inspections and/or vegetation monitoring.



Recognition gifts given to CBCW volunteer watercraft inspectors at the 2008 and 2009 banquets.

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Distribution of informational materials

For educational purposes, information on AIS was disbursed to lake residents and the community through various means including calendars, bait container labels, restaurant carryout bags and placements. The following provides the distribution information:

Distribution information for the 08-09 Aquatic Invasive Species Grant

Calendars Delivered in Dec. of 08	<u>2009/10</u>
250 mailed to lake residents	250 mailed to lake residents
To advertisers for distribution	
12 taken to the Bible Camp	others distributed as per
12 to Rhinelander Pub and Café	previous year
12 to Jason's Gas Station	
12 to First Weber Real Estate Office	
12 to Crescent B P Station	
12 to the Town Pump	
3 to McKitrick Chiropractic	
To individuals for distribution	Distributed as per
15 to Glen Peterson	previous year
6 to Jim Gehrke	
4 to Peggy Jaansen	
4 to Jim Voborsky	
2 to Connie Anderson	
3 to Richard Lower	
2 to Tom Tait	
6 to Tom Polzer	
1 to Ron Riddle	

1 to Heidi King

To Other Lake Associations and the DNR

3 to Lake Julia board members

3 to Squash Lake board members

1 to Long Lake Assn.

1 to Kevin Gauthier

1 to Jane Malischke

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Restaurant carry out Bags 2009 8000 ordered 2010 8000 ordered

Henkel's Town Pump	3000	Northwoods Golf Club	500
Travel Air Restaurant	2,500	Crescent B P Station	1500
Mulligan's Restaurant	2,500	Kemp Street B P Station	500
		Travel Air Restaurant	2000
		Henkel's Town Pump	1500
		Remaining in storage	2000

Place Mats 2009 10,000 ordered

3,000 Henkel's Town Pump

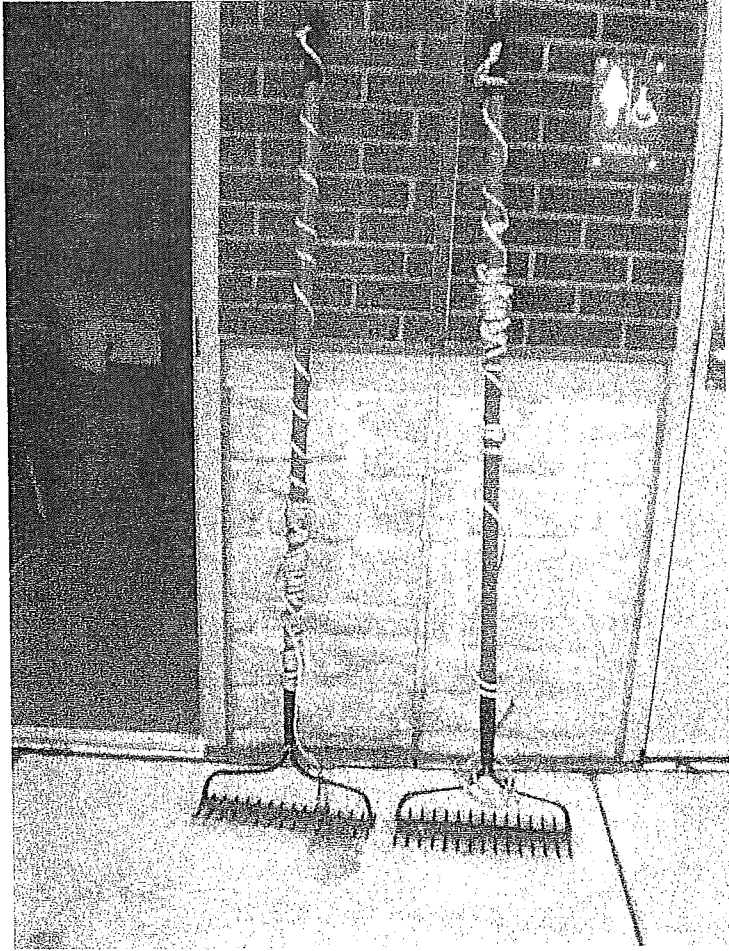
3,400 Travel Air Restaurant

3,400 Mulligan's Restaurant

100 Used by Crescent Lake Assn at Annual Meeting

100 in storage

Bait container labels 10,000 ordered
 9,900 to Kemp Street B P Station
 100 in storage



Custom rakes used by the Crescent Lake Association for vegetation monitoring on Crescent Lake in 2008-09.



Shelving and storage space located at public boat landing providing a central location for all educational materials and supplies and accessible to all CBCW volunteers.



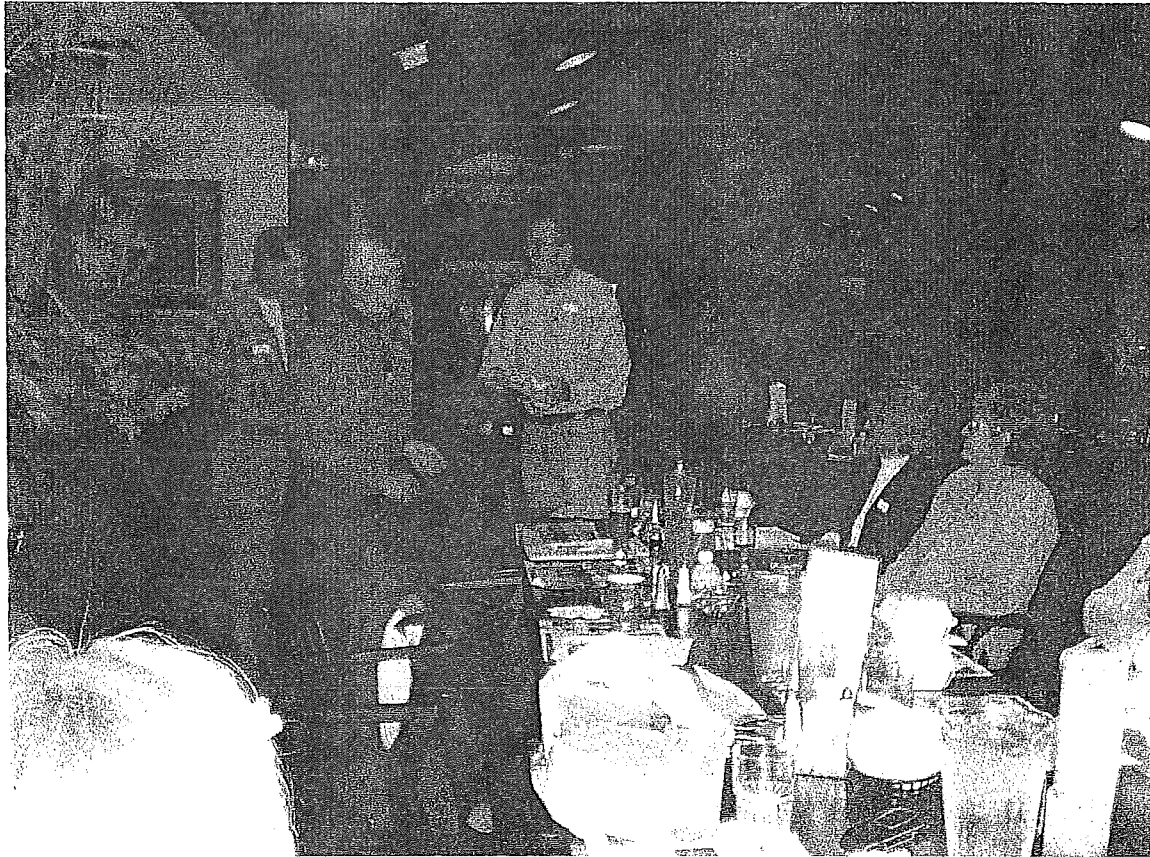
Chairs purchased to allow CBCW watercraft inspectors to take a break while conducting inspections on Crescent Lake.



Banner informing watercraft users of inspections and the affiliation of the personnel present at the landing.



Additional signage at the landing informing lake users that Crescent Lake remains free of Eurasian water milfoil.



Distribution of recognition gifts at volunteer banquet.

Donated Volunteer Labor Summary
AIS/Lakes/Rivers Grant Program

Project Sponsor: _____

Grant Proj. Number: AEPP-153-08

Project Name: 2008-09 Aquatic Invasive Species Control Grant

Name of Volunteer	Hours	X Rate =	Total
Glen Peterson	157.5	8	1,260
James Gehrke	56.25	8	450
Connie Anderson	46.5	8	372
Terry Goldbach	34.5		276
Jim Ronyak	24.5		196
Ron Paque	24		192
Mary Shandley	23.75		190
Roger Shandley	19.75		158
Richard Lower	19.5		156
Joanne Hibbard	19.5		156
John Knutson	17.75		142
Alan Janssen	17.25		138
Shirley Lower	17.25		138
Bill Hoppe	16.25		130
Allie Kotilla	13.25		106
Jane Hoppe	14		112
Bob Hintz	12		96
Carolyn Engstrand	11		88
Vera Finnes	10.75		86
Ron Finnes	10.5		84
Sve Binder	10.5		84
Alan Heery	10		80
Rich Beersma	9.75		78
Ron Riddle	9.25		74
Eileen Ronyak	8.5		68
RaVae Jewell	7.75		62
Kevin Seeger	7.5		60
Dennis Laddvsire	6		48
Rick Hitchcock	5.5		44
Carol Hitchcock	5.5		44
Paul Johnson	4.5		36
Joy Moerkerke	4.5		36
Total Value of Services Performed:	655	X ** =	5,240

**River Planning & Protection = use prevailing Federal Minimum Wage.

AIS = Use \$12.00

Lake Planning & Lake Protection = Use \$8.00

I hereby certify that the donated services have been performed and that this claim is fair and correct.

James M. Merske
Signature of Project Manager

6/28/10
Date

Attach Donated Volunteer Labor Worksheet

WDNR

