

**LAKE METONGA
ASSOCIATION
ANNUAL MEETING
2014**

LAKE METONGA ASSOCIATION, INC.

ANNUAL FINANCIAL REPORT

BY: KIM REED, TREASURER

Wisconsin Department of Natural Resources

Metonga Lake

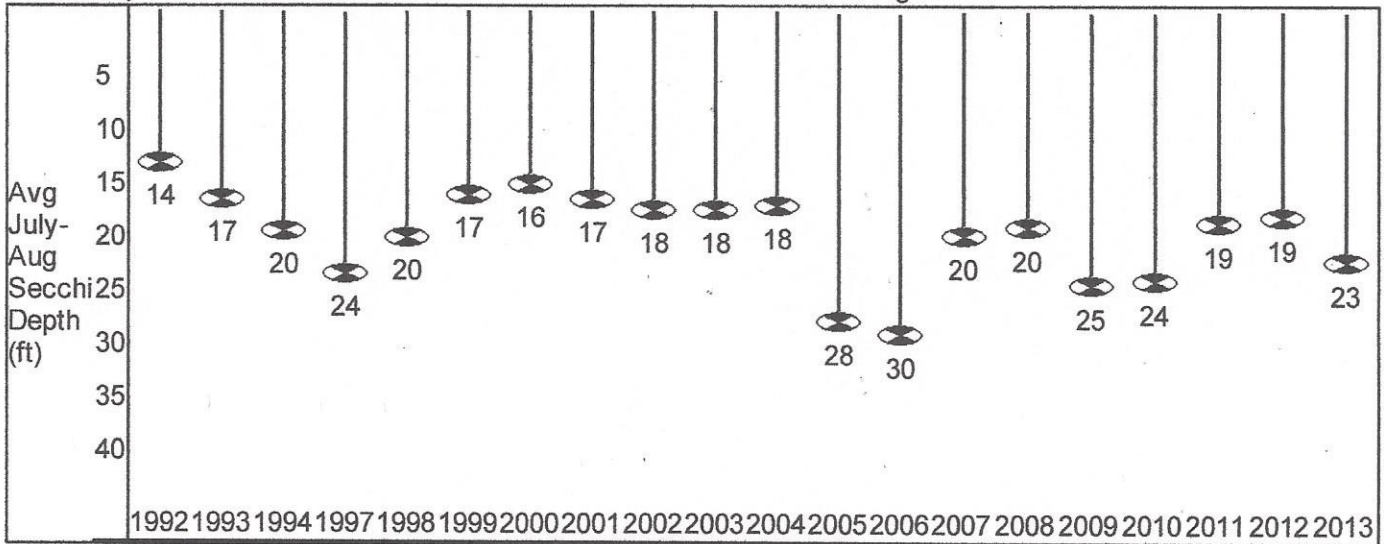
Forest County

Waterbody Number: 394400

Lake Type: DRAINAGE

DNR Region: NO

GEO Region: NE



Past secchi averages in feet (July and August only).

Lake Water Quality 2013 Annual Report

Metonga Lake
 Forest County
 Waterbody Number: 394400

Lake Type: DRAINAGE
 DNR Region: NO
 GEO Region: NE

Site Name	Storet #
Lake Metonga - Deep Hole	213124

Date	SD (ft)	SD (m)	Hit Bottom	CHL	TP	TSI (SD)	TSI (CHL)	TSI (TP)	Lake Level	Clarity	Color	Perception
05/17/2013	25	7.6			14.9	31		49	HIGH	CLEAR		1-Beautiful, could not be nicer
05/29/2013	29	8.8				29			HIGH	CLEAR	GREEN	1-Beautiful, could not be nicer
07/03/2013	22	6.7				33			HIGH	CLEAR	GREEN	1-Beautiful, could not be nicer
07/05/2013	26	7.9		1.39	13.2	30	37	48	HIGH	CLEAR	GREEN	2-Very minor aesthetic problems
08/03/2013	18	5.5		4.62	14.7	35	46	49	NORMAL	CLEAR	GREEN	2-Very minor aesthetic problems
08/15/2013	16	4.9				37			NORMAL	CLEAR	GREEN	2-Very minor aesthetic problems
08/31/2013	32	9.8		1.37	21.8	27	37	52	HIGH	CLEAR	GREEN	1-Beautiful, could not be nicer
09/17/2013	24	7.3				31			NORMAL	CLEAR	GREEN	2-Very minor aesthetic problems

**WATER QUALITY INDEX BASED ON
CHLOROPHYLL**

**DOES NOT AFFECT PLANT & ALGAE GROWTH.
PIGMENT THAT MAKES PLANTS (AND ALGAE) GREEN**

<u>DESCRIPTION</u>	<u>TOTAL P (ug/L)</u>
EXCELLENT	< 1
VERY GOOD	1 - 5
GOOD	5 - 10
FAIR	10 - 15
POOR	15 - 30
VERY POOR	> 30

MAJOR SOURCE

SEPTIC SYSTEMS, ANIMAL WASTE

ROAD SALTING - CHEMICALS

**WATER QUALITY INDEX BASED ON
TOTAL PHOSPHORUS**

**NUTRIENT THAT SUPPORTS PLANTS
AND ALGAE GROWTH**

<u>DESCRIPTION</u>	<u>TOTAL P (ug/L)</u>
EXCELLENT	< 1
VERY GOOD	1 - 10
GOOD	10 - 30
FAIR	30 - 50
POOR	50 - 150
VERY POOR	> 150

MAJOR SOURCE

HUMAN & ANIMAL WASTE, SOIL EROSION

DETERGENTS, SEPTIC SYSTEMS, RUNOFF

**BOATS & JET SKIS RUNNING AT HIGH
SPEEDS IN SHALLOW WATER**

TROPHIC STATE

**THE SECCHI DEPTH RESULTS, PHOSPHORUS
AND
CHLOROPHYLL DATA**

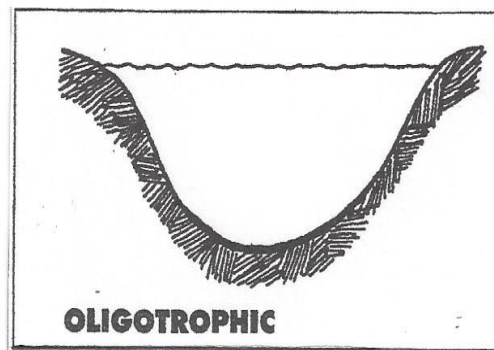
DETERMINE THE TROPHIC STATE

**(OR LEVEL) OF NUTRIENT ENRICHMENT OF THE
LAKE.**

LAKES CAN BE DIVIDED INTO THREE CATEGORIES

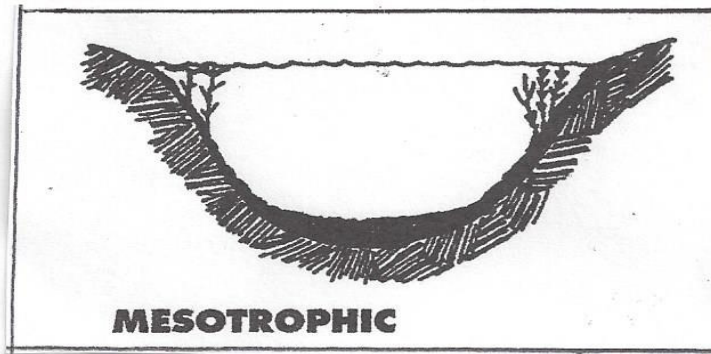
OLIGOTROPHIC

- **CLEAR WATER, LOW PRODUCTIVITY**
- **VERY DESIRABLE FISHERY OF LARGE GAME FISH**



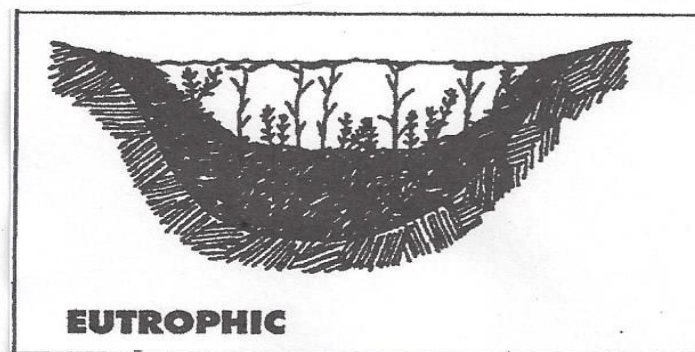
MESOTROPHIC

- INCREASED PRODUCTION
- ACCUMULATED ORGANIC MATTER
- OCCASIONAL ALGAL BLOOM
- GOOD FISHERY



EUTROPHIC

- VERY PRODUCTIVE
- MAY EXPERIENCE OXYGEN DEPLETION
- ROUGH FISH COMMON



05/17/2013		
Depth	Temp.	D.O.
FEET	DEGREES F	MG/L
3	50	14.06
10	48.2	14.31
15	47.1	14.4
20	46	14.43
25	45.6	14.37
30	45.4	14.32
40	44.9	14.05
50	44.8	13.89
60	44.6	13.83
70	44.4	13.83
80	44	12.95

07/05/2013		
Depth	Temp.	D.O.
FEET	DEGREES F	MG/L
3	72.5	10.83
10	71.7	10.92
15	70.5	10.69
20	67	9.92
25	61.7	9.73
30	58.6	9.3
40	55.6	7.69
50	52.7	5.19
60	50.8	4.16
70	50.1	3.73
80	49.4	.16

08/03/2013		
Depth	Temp.	D.O.
FEET	DEGREES F	MG/L
3	69.4	10.85
10	69.4	10.81
15	69.4	10.78
20	69.4	10.76
25	69.3	10.64
30	67	8.63
40	57.7	2.66
50	53.5	1.12
60	51.6	.73
70	50.6	.17
80	50.3	.12

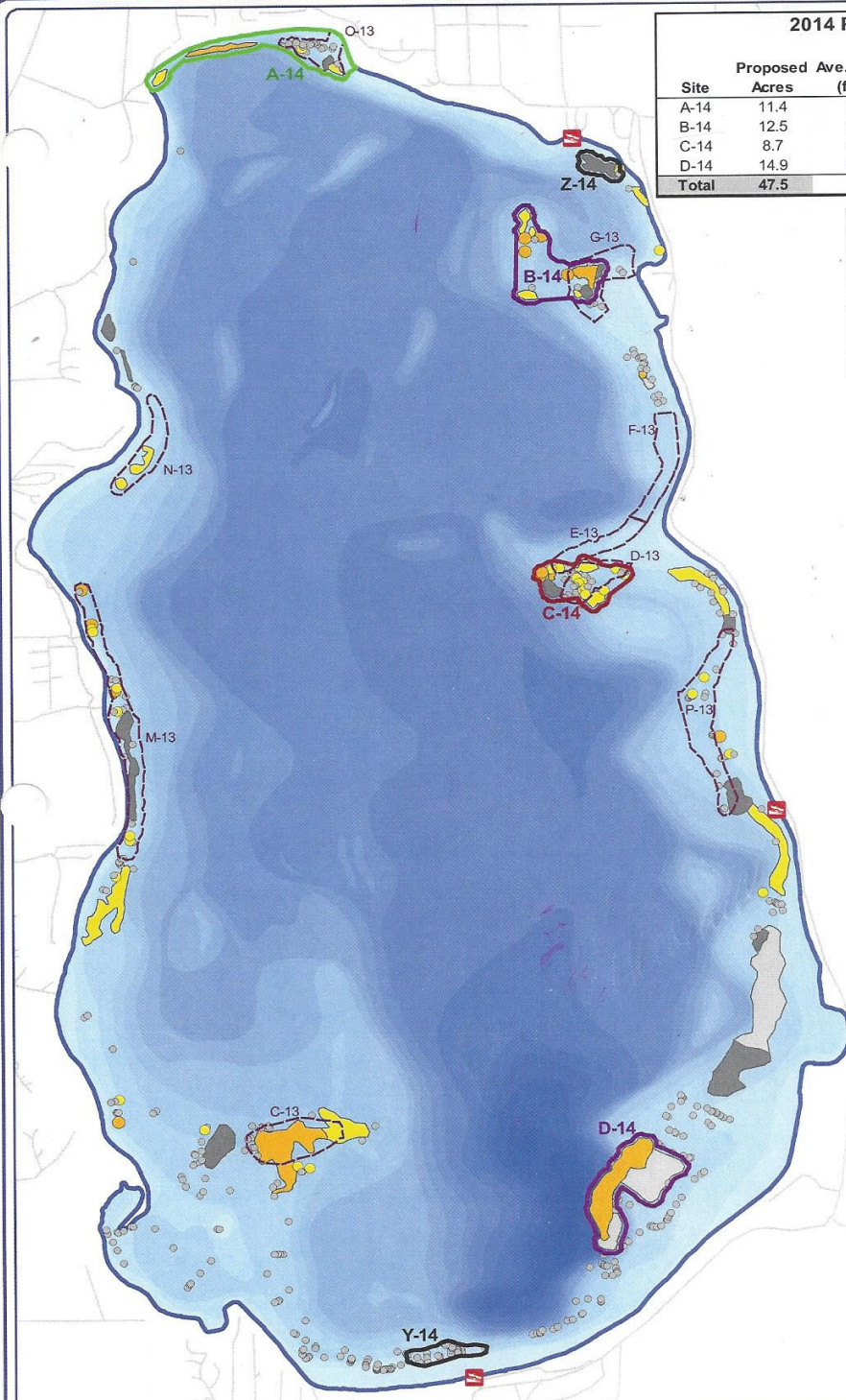
08/31/2013		
Depth	Temp.	D.O.
FEET	DEGREES F	MG/L
3	74.1	10.12
10	73.7	10.07
15	73.6	10.01
20	73.5	9.88
25	71.9	8.1
30	67.2	5.16
40	61.3	.6
50	56.4	.16
60	53.1	.11
70	52	.1
80	51.7	.07

DISSOLVED OXYGEN

- **OXYGEN IS THE MOST IMPORTANT GAS SINCE MOST AQUATIC ORGANISMS NEED OXYGEN TO SURVIVE. SOLUBILITY DEPENDS ON WATER TEMPERATURE. COLDER – MORE GASES IT CAN HOLD.**
- **PRODUCED WHENEVER GREEN PLANTS GROW THROUGH A PROCESS OF PHOTOSYNTHESIS. SITUATION IS REVERSED WHEN PLANTS DIE, AS BACTERIA ASSOCIATED WITH DECOMPOSING PLANTS OR ANIMALS CONSUME OXYGEN. IN METONGA THE STANDARD IS 5MG/L. THIS IS THE MINIMUM AMOUNT OF OXYGEN FOR FISH TO SURVIVE AND GROW. NOTE FALLING LEVELS AT INCREASED DEPTHS.**

EURASIAN WATER MILFOIL

- **FILED FOR A 2 YEAR GRANT VALUED AT \$139,277 (65% COST SHARE).**
- **YEAR 2014 – TREAT 47.5 ACRES AT A COST OF \$51,603.37.**
- **GRANT AWARD DENIED. \$514,000 AVAILABLE IN THIS DNR GRANT CATEGORY. \$1,314,000 REQUESTS FILED BY LAKE ASSOCIATIONS AND DISTRICTS.**
- **METONGA RECEIVED A GRANT IN 2012-2013.**

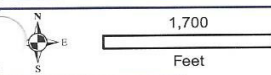


2014 Proposed EWM Treatment Areas

Site	Proposed Acres	Ave. Depth (feet)	Volume (ac-ft)	Herbicide Details		
				Product	2,4-D (ppm ae)	Endothal (ppm ai)
A-14	11.4	7.0	79.7	Liquid 2,4-D	4.0	N/A
B-14	12.5	6.0	75.0	Granular 2,4-D	4.0	N/A
C-14	8.7	8.0	69.6	Liquid 2,4-D + Endothal	4.0	1.5
D-14	14.9	6.0	89.4	Granular 2,4-D	4.0	N/A
Total	47.5		313.6			

2014 Proposed EWM Hand Harvest Areas

Site	Proposed Acres	Ave. Depth (feet)
Y-14	2.8	8.0
Z-14	2.2	7.0
Total	5.0	



Onterra LLC
 Lake Management Planning
 815 Prosper Rd
 De Pere, WI 54115
 920.338.8860
 www.onterra-eco.com

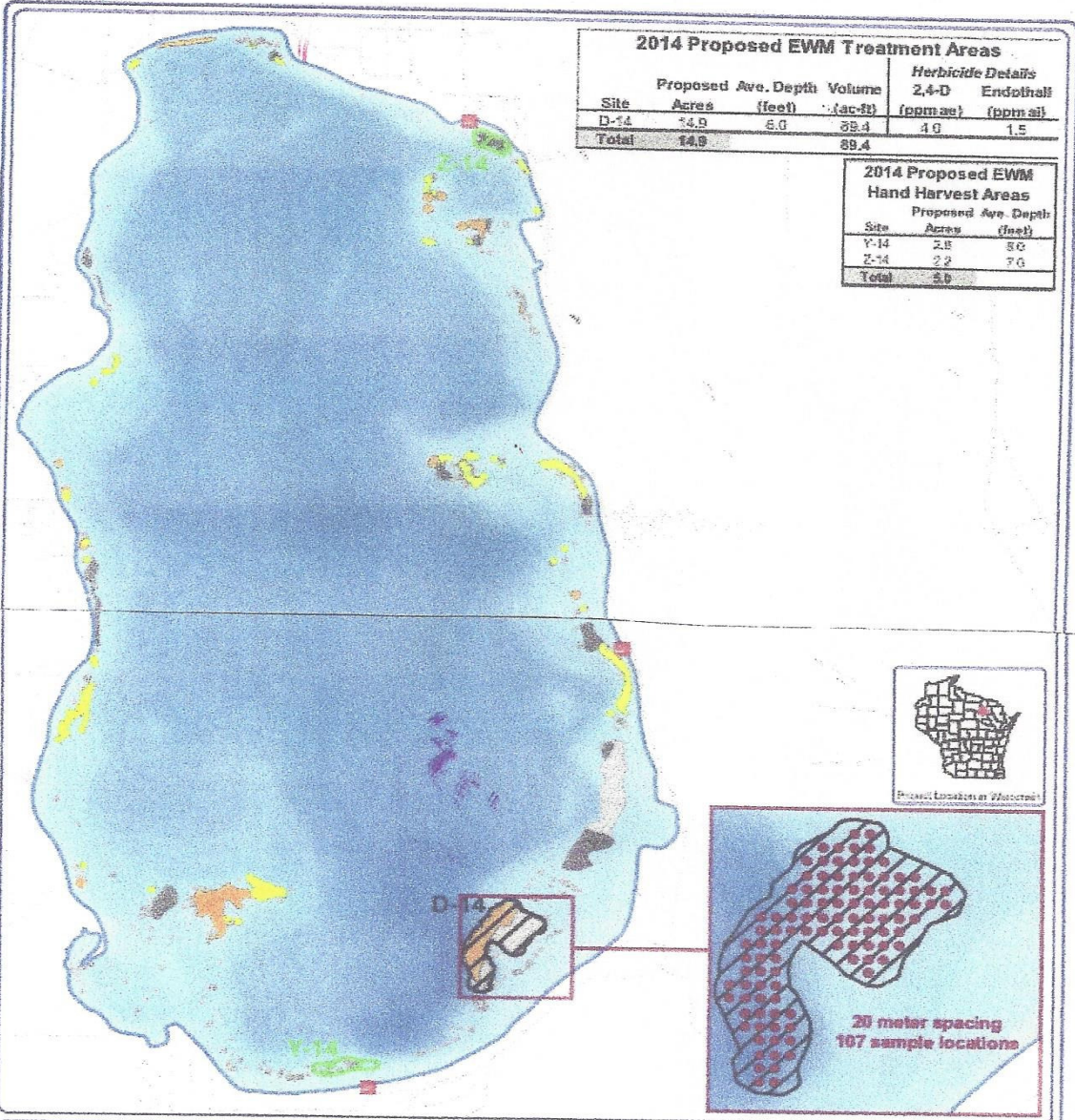
Sources:
 Roads and Hydro: WDNR
 Bathymetry: WDNR, digitized by Onterra
 Aquatic Plant Surveys: Onterra, 2013
 Map Date: January 8, 2014
 Filename: Map5_Metonga_EWM_T2014_Prelim1.mxd

- Legend**
- 2013 EWM Survey Results (September 2013)**
- Highly Scattered
 - Scattered
 - Dominant
 - Highly Dominant
 - Surface Matting (None)
 - Single or Few Plants
 - Clumps of Plants
 - Small Plant Colony
 - 2013 Treatment Areas
- 2014 Preliminary Treatment Areas**
- Liquid 2,4-D
 - Liquid 2,4-D + Endothal
 - Granular 2,4-D
 - Professional Hand Harvest

Map 2
 Lake Metonga
 Forest County, Wisconsin
2014 Preliminary EWM Control Strategy v1

NEED FOR ALTERNATE PLAN

- **SELECT TREATING EWM BED ON SOUTH END SINCE IT IS ENCROACHING ON THE COUNTY PARK BEACH COST OF \$16,061.91**
- **CONTRACT TO HAND PULL EWM BEDS AT THE NORTH END BEACH AND SOUTH END BOAT LAUNCH AREA COST OF \$4,986.00**

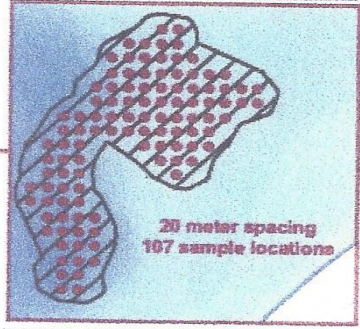


2014 Proposed EWM Treatment Areas

Site	Proposed Ave. Depth		Volume	Herbicide Details	
	Acres	(feet)		2,4-D (ppmae)	Endothal (ppmae)
D-14	14.9	8.0	89.4	4.0	1.5
Total	14.9		89.4		

2014 Proposed EWM Hand Harvest Areas

Site	Proposed Ave. Depth	
	Acres	(feet)
Y-14	2.8	8.0
Z-14	2.2	7.0
Total	5.0	



1200 Feet

Legend

2013 EWM Survey Results (September 2013)

- Highly Scattered
- Scattered
- Clumped
- Highly Dominant
- Severe Mating
- Single or Few Plants
- Clumps of Plants
- Small Plant Canopy

- Herbicide Treatment Site (2,4-D + Endothal)
- Professional Hand Harvest

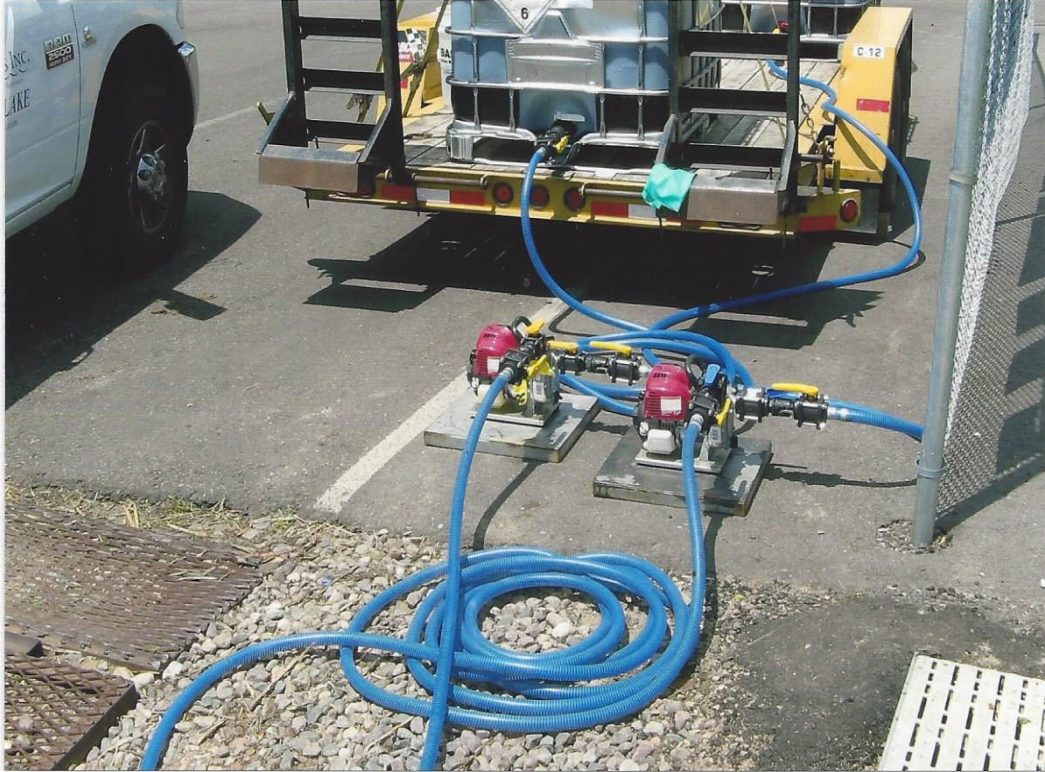
Lake Metonga
Forest County, Wisconsin

2014 Proposed EWM Control Strategy v2



CLEAN LAKES

HERBICIDE APPLICATOR



CLEAN LAKES

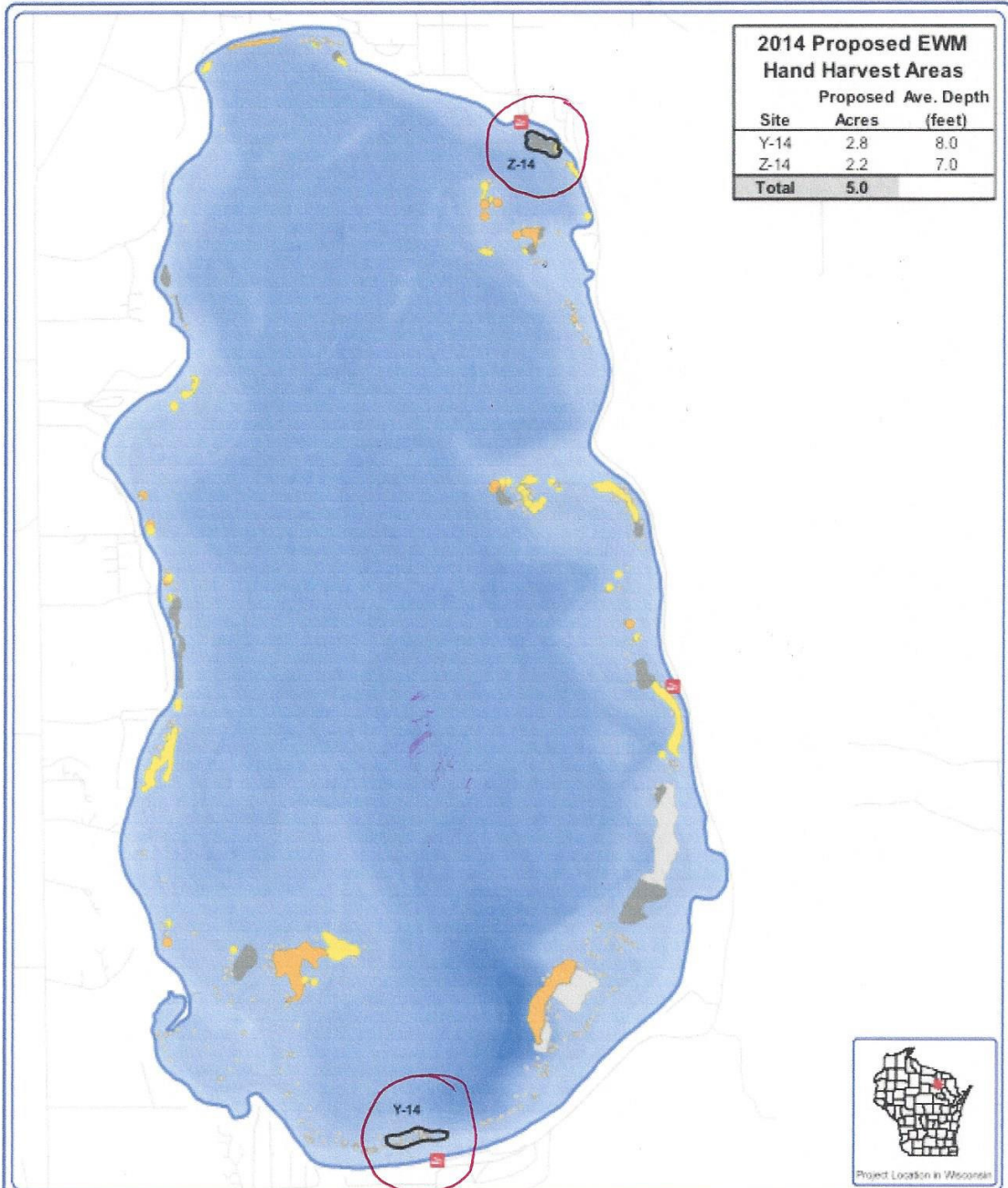
HERBICIDE APPLICATOR



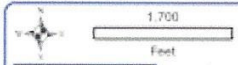
CLEAN LAKES

HERBICIDE APPLICATOR

From: **Eddie Heath** EHeath@onterra-eco.com
 Subject: Metonga Hand Harvesting Map
 Date: April 15, 2014 at 10:13 AM
 To: Les Schramm lesschramm@gmail.com



2014 Proposed EWM Hand Harvest Areas		
	Proposed Ave. Depth	
Site	Acres	(feet)
Y-14	2.8	8.0
Z-14	2.2	7.0
Total	5.0	



Onterra LLC
 Lake Metonga, Wisconsin
 413 Douglas Rd.
 De Pere, WI 54115
 920.321.4344

Source:
 Bath and Holm, 9/11/96
 Bath and Holm, 4/19/01, digitized by Ontario
 Nature Plan Survey System, 2013

- Legend**
- 2013 EWM Survey Results (September 2013)
- Highly Scattered
 - Scattered
 - Dominant
 - Highly Dominant
 - Single or Few Plants
 - Clumps of Plants
 - Small Plant Colony
 - 2013 Treatment Areas
 - Professional Hand Harvest

Map 2
 Lake Metonga
 Forest County, Wisconsin
 2014 Preliminary EWM
 Control Statement



About Us

We are committed cleaning lakes and serving you with quality and value.

Contact us today for an inspection of your lake, and see what our commitment to quality is all about!

Since 2008, divers from Aquatic Plant Management (APM) have been working with Lake Associations and Lake Districts across Northern Wisconsin to help contain Eurasian Water milfoil. With various eradication methods, APM has the certifications and knowledge to operate under a variety of EWM density and water clarity.

APM has documented success working with riparian owners in cleaning their lakes of invasive species. Our most successful technique is identifying and eradication EWM pioneering colonies. It is imperative that these new colonies are quickly removed before the weed has a chance to develop in another patch that ultimately will infest a new part of the lake.

With a con
identify what sol
extraction of EV

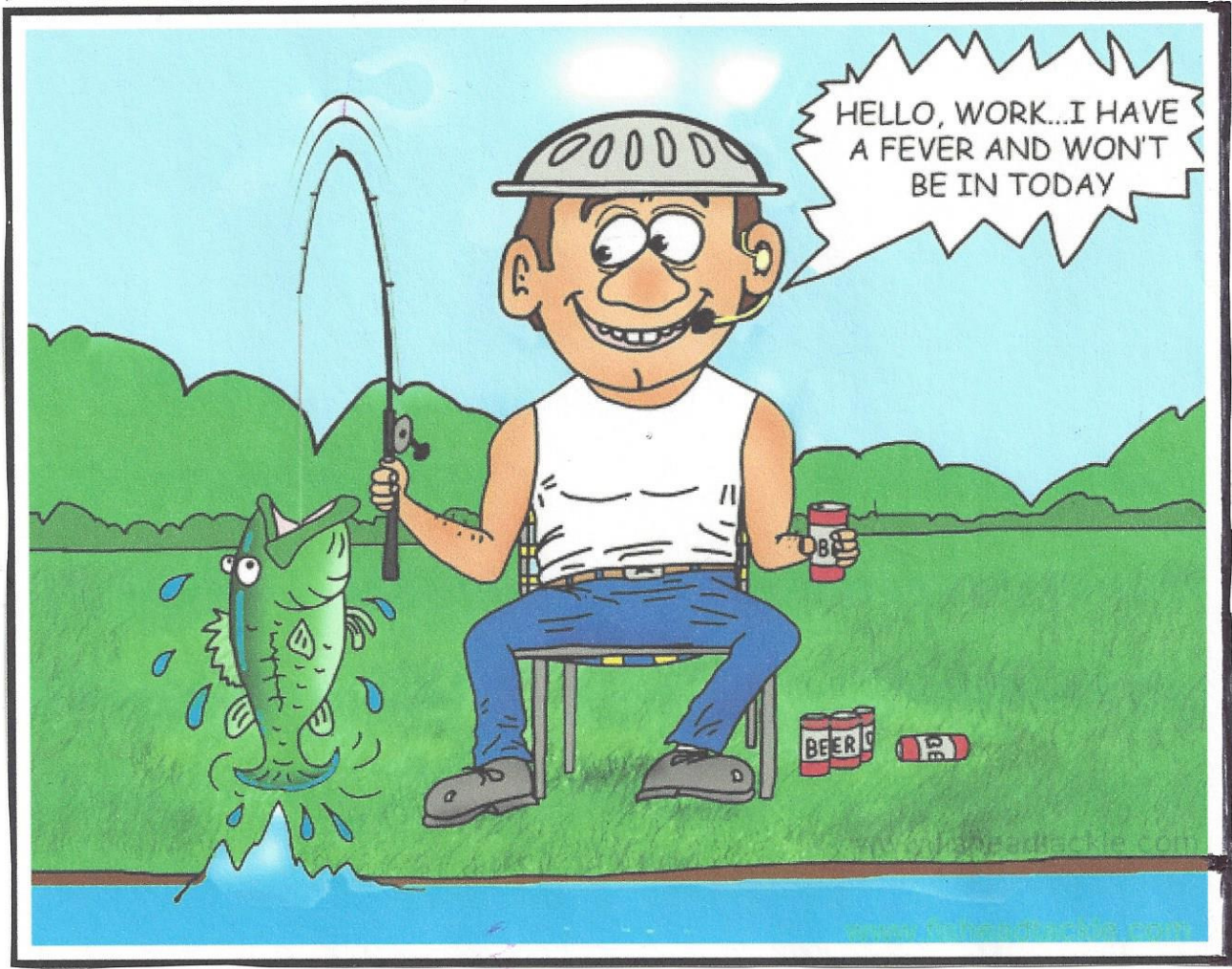
Founders Andrew McFerrin, Christian Wahman, and Peter Wahman



EWM HAND PULLING

team to
nual

We Love to Work on the Water



HELLO, WORK...I HAVE
A FEVER AND WON'T
BE IN TODAY

www.fishandfackle.com

Pesticide to be tested on zebra mussels

By **LEE BERGQUIST**
lbergquist@journalsentinel.com

Scientists for the first time in Wisconsin plan to use a bacteria to kill zebra mussels — in this instance, in a Florence County lake.

Researchers with the U.S. Geological Survey want to apply the biological pesticide next month to sections of Keyes Lake in the hope of killing off zebra mussels that

Biological agent to be used in northern Wisconsin lake

have attached themselves to native mussel beds.

If experiments prove successful, the treatment could one day

be a tool to control the spread of destructive zebra and quagga mussels, both invasive species.

Zebra mussels were discovered in the Great Lakes in the mid-1980s, and turned up in inland Wisconsin lakes in 1994. They can now be found in 163 lakes and rivers in the state, according to the state Department of Natural Resources. Quagga

mussels are in the Great Lakes, but have not yet invaded inland lakes of Wisconsin.

The pair of tiny, sharp-shelled species devour plankton, disrupting ecosystems. They proliferate in areas by the tens of thousands and push out native species, clog water intake systems and play a

Please see **MUSSELS, 6A**

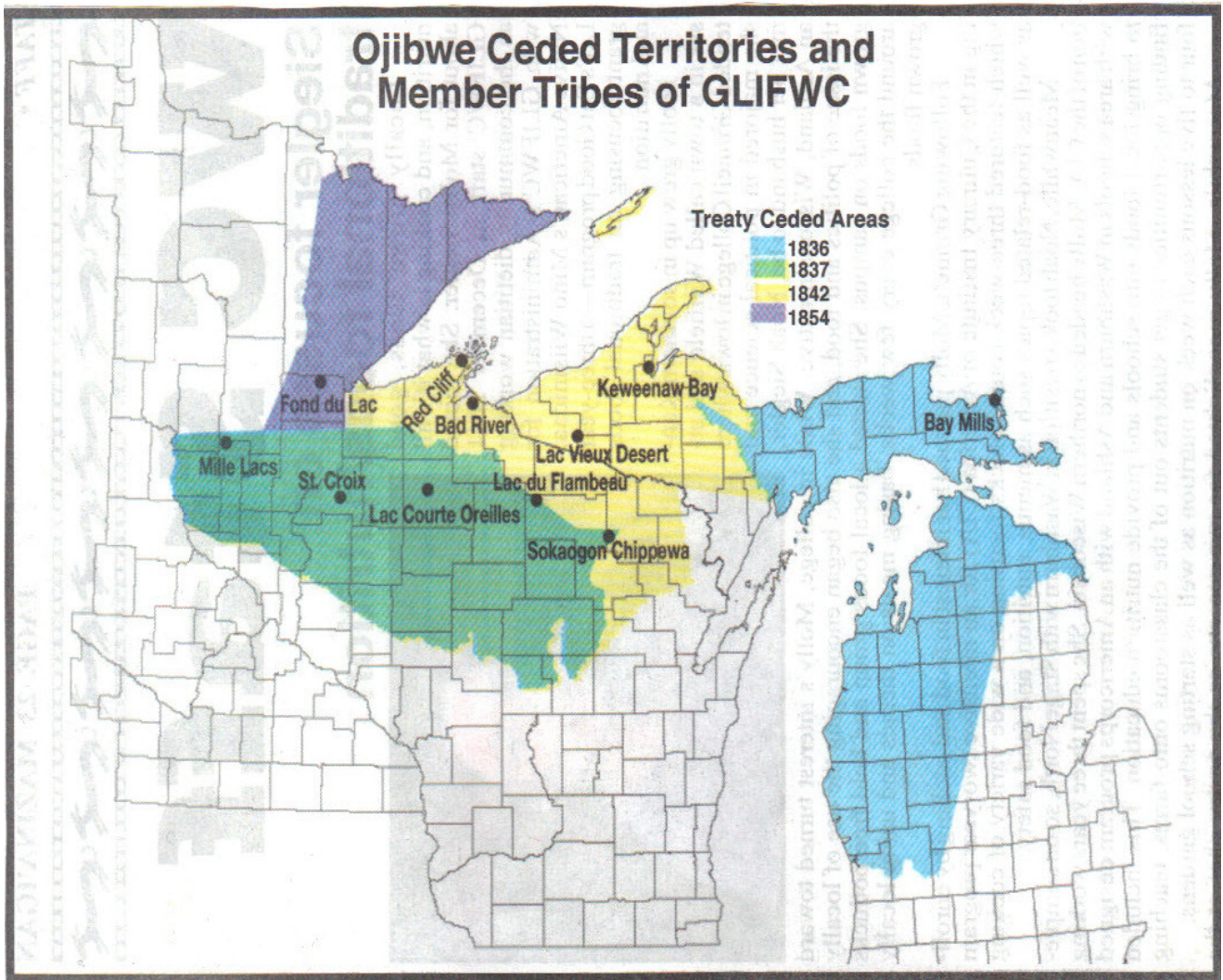
- **DATCP (Department of Agriculture, Trade & Consumer Protection) Reviewing request by the Geological Survey for an experimental use permit to use ZEQUANOX.**
- **Zequanox is a strain of bacterium that is found in soil, plants and water.**
- **Kills only Zebra Mussels, but nothing else.**
- **Chemicals inside cells of the bacterium disrupt the lining in the digestive system and kill the mussels. 90% kill rate in tests conducted.**
- **Lakewide applications too expensive.**

DOCK DISK

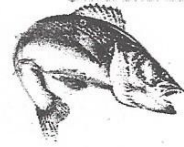
- **PROPRIETARY SUBSTANCE THAT REPELS ZEBRA AND QUAGGA MUSSELS.**
- **NON-TOXIC, USES NO CHEMICALS OR BACTERIA. DOES NOT KILL ANYTHING. DOES NOT NEED ELECTRICITY.**
- **PUT IT IN THE WATER AND THE MUSSELS GO AWAY AND STAY AWAY.**
- **PATENT PENDING. AWAITING APPROVAL.**
- **CONTACT – JAMES GREGATH
060BIO BUSINESS DEVELOPMENT
(949) 394-0124
E-MAIL: james@060bio.com**

BULLHEAD HARVEST 2014

- **MIKE PREUL, MOLE LAKE FISHERY BIOLOGIST, AND HIS CREW USED (2) ELECTRO-SHOCKING BOATS TO STUN AND NET BULLHEADS.**
- **MIKE AND HIS CREW SPENT 28 HOURS HARVESTING BULLHEADS.**
- **THEY NETTED IN THE BULLRUSHES AND IN FARMER'S BAY AND PETERSON'S BAY.**
- **THE SIZES CAPTURED RANGED FROM 7-1/2" TO 10 & 11 INCHES – AVERAGING ABOUT 50% IN EACH SIZE RANGE.**
- **TOTAL POUNDS HARVESTED - 3,836
THIS EQUATES TO - 5,856 FISH**
- **A GIVE-AWAY TO THE PUBLIC WAS HELD ON FRIDAY 6/20/14. A TOTAL OF 1,829 POUNDS (2,409 FISH) WERE GIVEN AWAY.**
- **ALL OTHER BULLHEADS HARVESTED WERE GIVEN TO THE RAPTORS IN ANTIGO.**
- **MIKE PLANS TO CONTINUE MONITORING AND HARVESTING IN 2015 AS HE IS COMMITTED TO MAINTAINING A QUALITY FISHERY.**



Walleye Speared By All Chippewa Bands



LAKE	2007	2008	2009	2010	2011	2012	2013	2014
Butternut	46	86	87	780	292	622	456	491
Franklin	40	33	257	0	0	116	0	0
Jungle	45	173	117	60	99	103	59	0
Lucerne	64	73	64	101	22	56	58	5
Metonga	107	157	0	0	0	283	177	1086
Lily	119	136	50	207	152	71	133	137
Mole	0	1	0	0	0	0	0	0
Pine	28	0	9	0	0	0	0	0
Roberts	30	45	31	45	157	162	30	44
Stevens	28	12	81	23	0	0	0	0
Crane	0	0	30	0	0	0	0	0
Howel	0	0	0	3	0	0	0	0
Kentuck-Vilas	906	707	947	1128	87	170	128	6
TOTALS	1413	1423	1673	2345	809	1583	1041	1769

METONGA LAKE, FOREST COUNTY

1991 acres

7.9 miles of shoreline

Lake Metonga adult walleye population estimate results from 1985-2013.

Year	Total Adults	Adults/Acre	Agency	Year	Total Adults	Adults/Acre	Agency
1989	4706	2.4	WDNR	2007	1675	0.8	WDNR
1992	4987	2.5	WDNR	2009	2574	1.3	GLIFWC
1997	7376	3.7	GLIFWC	2010	3993	2.0	GLIFWC
1999	4851	2.4	GLIFWC	2011	2569	1.3	GLIFWC
2001	3518	1.8	WDNR	2013	9836	4.9	WDNR
2004	1199	0.6	WDNR				

3 adults/acre is considered management goal for natural reproducing walleye population.

Lake Metonga Tribal Harvest of walleye from 1985-2014.

Year	Harvest	Year	Harvest	Year	Harvest	Year	Harvest
1985	80	1994	313	2002	323	2010	0
1986	17	1995	472	2003	206	2011	0
1987	488	1996	681	2004	177	2012	283
1988	569	1997	443	2005	87	2013	177
1990	208	1998	695	2006	97	2014*	1086
1991	184	1999	461	2007	107		
1992	441	2000	457	2008	157		
1993	365	2001	305	2009	0		

Tribal harvest numbers are determined off of adult population estimates < three years old or off of mathematical models. There are many safety factors built in to prevent overharvest.

*Projected harvest

**MIKE PREUL
FISHERIE BIOLOGIST
MOLE LAKE TRIBE**

**IS WILLING TO DISCUSS
SPEARING BAG LIMITS
AND REPRODUCTION
WITH ANYONE WHO CALLS.**

HIS PHONE NUMBER IS:

715 – 478 - 7621

FUND RAISING COMMITTEE
UPDATE

- **NEED VOLUNTEERS**
- **SPORTSMAN'S RAFFLE**
- **KENTUCK DAY – JULY 26TH**
- **ART IN THE SQUARE –
SEPTEMBER 20TH**

BOAT PARADE/COOKOUT
JULY 5TH

- **Volunteers for Judging**
- **Cookout at 2:00 P.M. – Beachside Bar and Grill – Tim Leonardelli**
- **Volunteer to Help – Call Tim at (262) 389-0707**

CLEAN BOATS –CLEAN WATERS

- **File for Grant – Simple 2 page form. Initial start-up funds received from DNR (30%)**
- **Submit Proposed Plan and Costs**
- **Hire Inspectors – Independent Contractor Agreement. Sign W-9 Taxpayer Identification Number and Certification**
- **Develop Work Schedule**
- **Inspectors Paid By-Monthly. Pick up time sheets and e-mail LMA Treasurer**

- **CB-CW (continued)**
- **Keep Copies of Checks & Costs**
- **Inspection Data in DNR
“SWIMS” Data Base**
- **LMA Treasurer submits 1099
Income Form to each Inspector**
- **Need Someone To Volunteer to do
this task.**

OTHER AGENDA ITEMS

- **LOON NESTING
PLATFORMS**
- **ELECTION OF OFFICERS**
- **NEW BUSINESS**

OTHER AGENDA ITEMS

- **Membership Input**
- **Thanks for coming.**
- **Thanks Betty Sosnovske and Deb Gauerke for the treats.**
- **Adjourn**
- **Enjoy your summer at the Lake.**