

*Eagle Lake Improvement Association*  
*E.L.I.A.*



2011 Annual  
Membership Meeting



**50<sup>th</sup> ANNIVERSARY !!! (1961-2011)**



*ELIA – 2011 Annual Membership Meeting*

AGENDA – May 21, 2011

- Welcome & Overview

**Business Session**

- Minutes from 2010 Meeting
- Financial Report
- Old/New Business
  - **ELECTION of DIRECTORS & OFFICERS**

**Education & Information Session**

- Membership Report
- Social Report
- Legal/Development Report
- Water Quality Report
- SAD Update
- Concept – Protecting Our Watershed, Natural Shorelines, Ontwa Master Plan
- Closing – Prizes



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# FINANCIAL REPORT

KEITH DENNIS - Treasurer

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## **ELECTIONS per BY-LAWS**

**(All 3 Year Terms)**

Treasurer

President

Vice-President

Director

### **1) NOMINATIONS**

- From Membership / Floor
- Board Nominations

### **2) VOTING**

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# MEMBERSHIP COMMITTEE REPORT

Margie Allan - Chairperson

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# SOCIAL COMMITTEE REPORT

Cathy Snow - Chairperson

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# LEGAL COMMITTEE REPORT

Bob Pfaff - Chairperson

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## **WATER QUALITY COMMITTEE REPORT**

Paul J. Sniadecki – Chairperson

Margie Allan - Member (since 2008)

Dale Weaver – Member (since 2009)

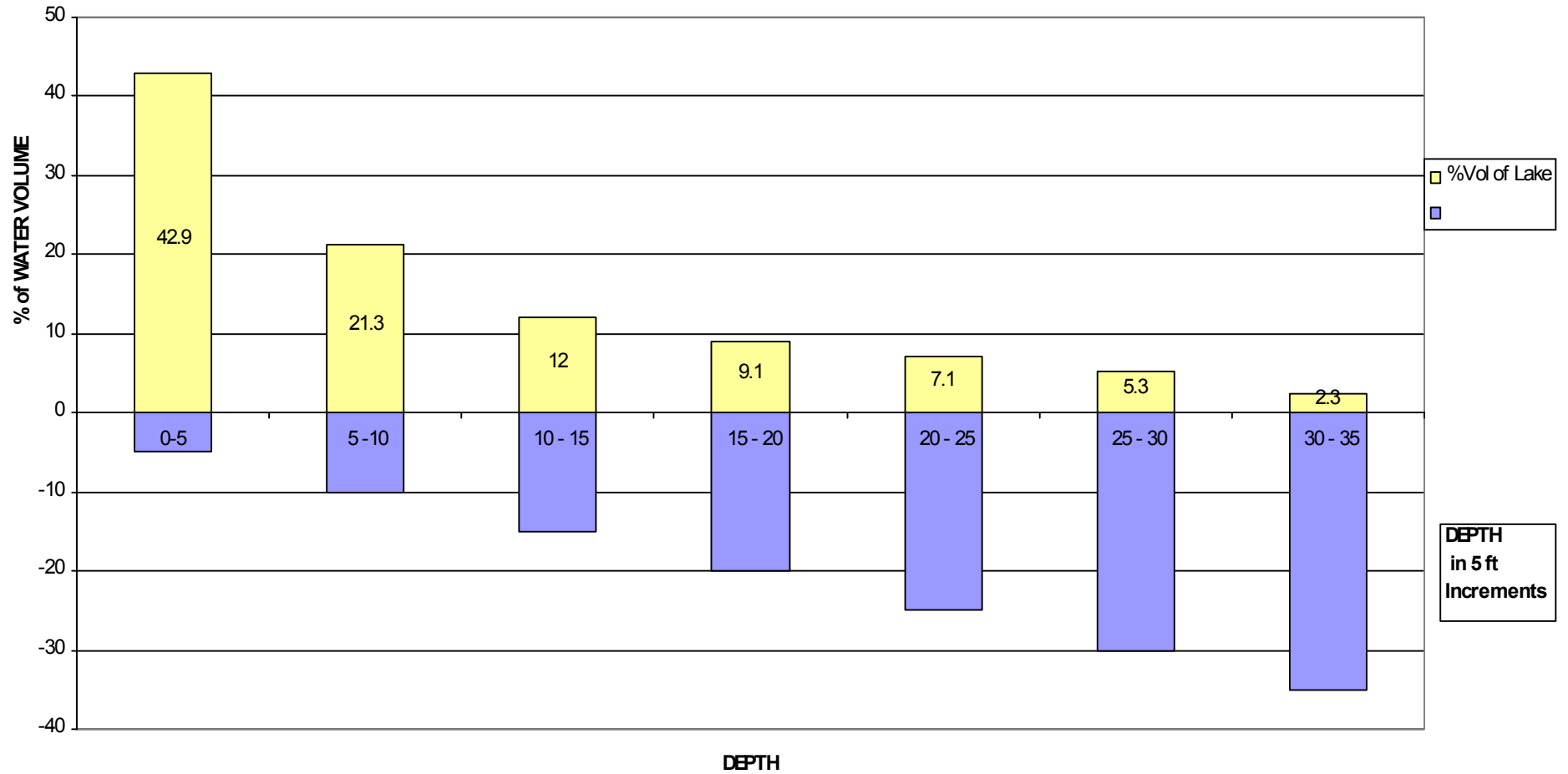
Wayne Pearce – Member (Since 2010)

Jim Haase – Member (Since 2010)

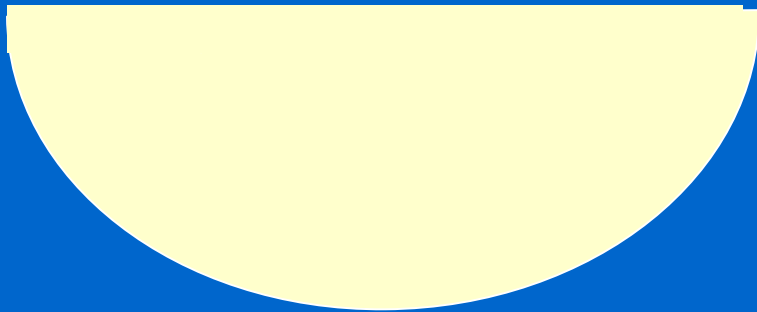
Jim Teske (from PJC!) – Member (Since 2010)

Dick Cox – Member (Since 2010)

### EAGLE LAKE - %VOLUME OF LAKE WATER BY DEPTH



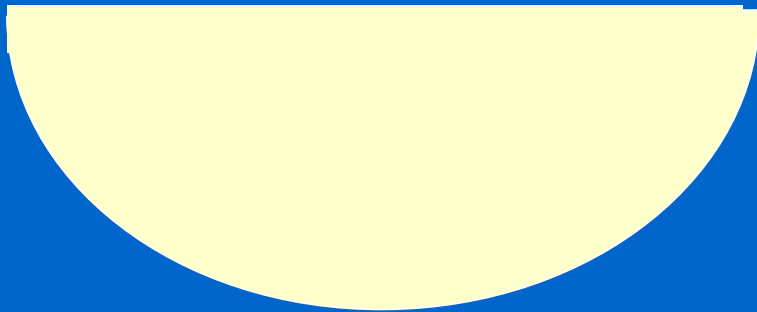
## LAKE CONTOUR COMPARISON



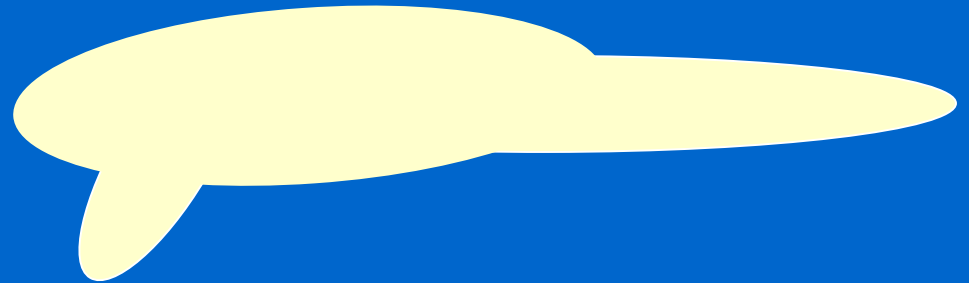
**TRADITIONAL LAKE**  
– a “BOWL” Shape

**EAGLE LAKE – ???**

## LAKE CONTOUR COMPARISON

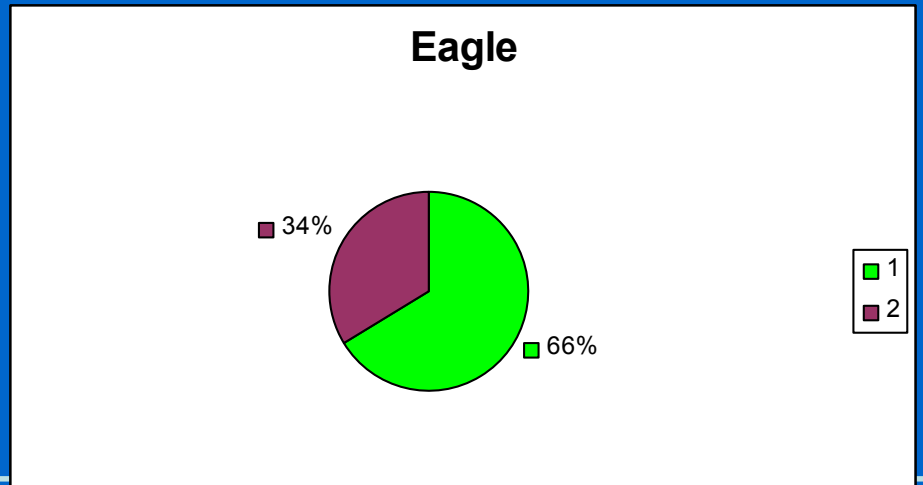
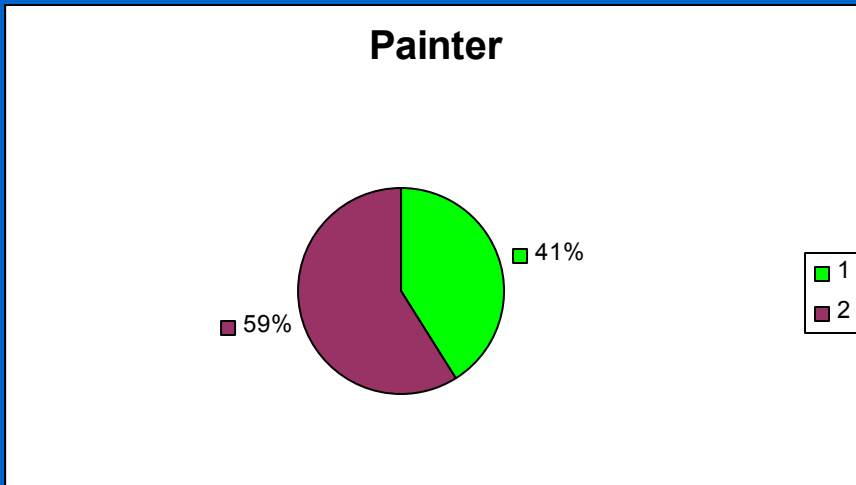
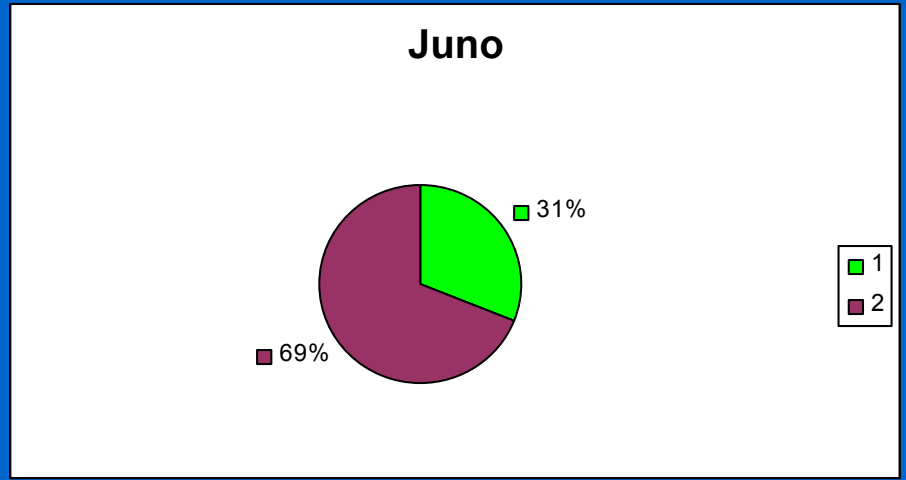
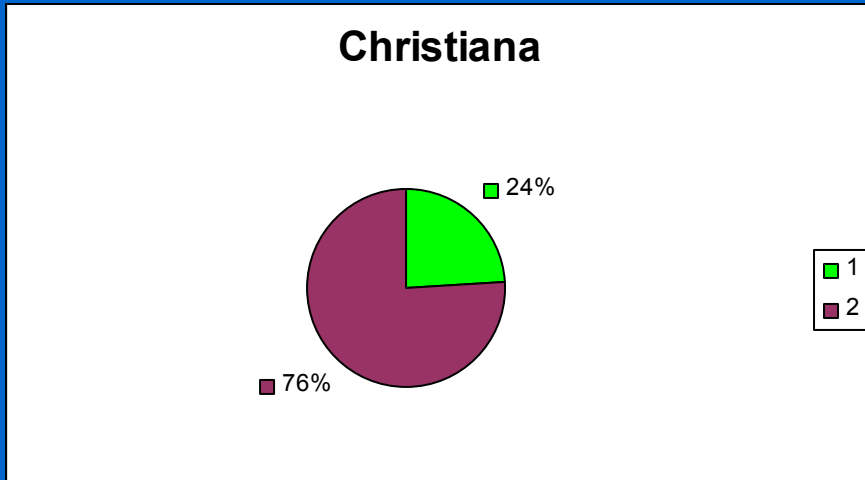


**TRADITIONAL LAKE**  
– a “BOWL” Shape



**EAGLE LAKE – a**  
**Highly Irregular**  
**“Saucer” Shape**

## Surface Area% Supporting Plant Growth – 1978 Study



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**LAKE QUALITY – “TROPIC” CATEGORIES**

	<b>OLIGOTROPIC (Great)</b>	<b>MESOTROPIC (OK!)</b>	<b>EUTROPIC (Not So OK)</b>	<b>HYPER- EUTROPIC</b>
SECCHI – Transparency (m)	>4	2-4	<2	
PHOSPHORUS	<10	10-20	>20	
CHLOROPHYLL	<2	2-10	10+	
DISSOLVED OXYGEN	>80	10-80	<10	
%ORGANIC MATTER	<17	17-30	>30	
<b>CARLSON TSI SCALE</b>	<b>&lt;40</b>	<b>40-54</b>	<b>55-64</b>	<b>65–80</b>
<b>*EAGLE 2010*</b>		*TP(s)=39; *C=49; S=45		

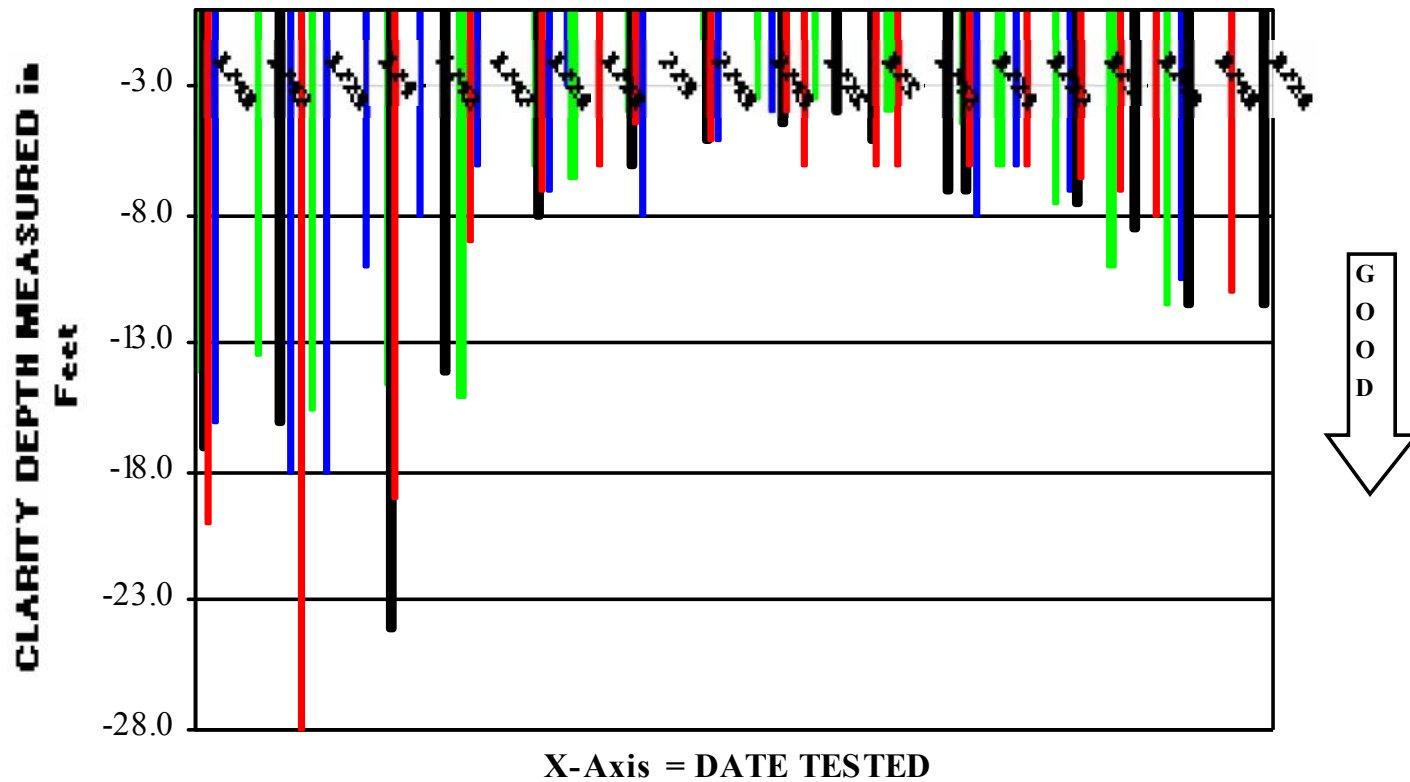
# Cooperative Lakes Monitoring Program



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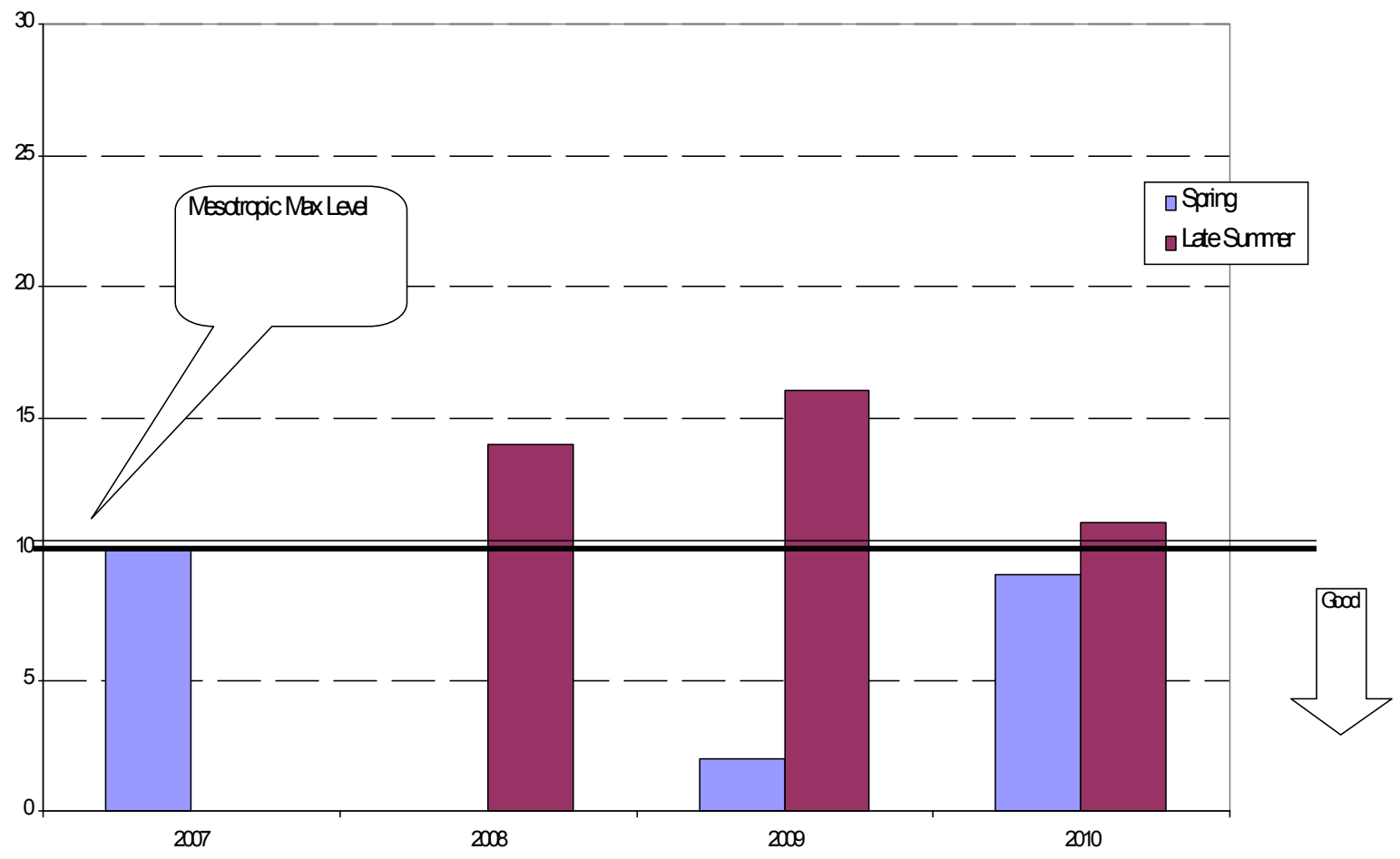
**EAGLE LAKE - CLMP MONITORING  
SECCHI DEPTH TEST by DATE/YR**

- Secchi Depth 2007
- Secchi Depth 2008
- Secchi Depth 2009
- Secchi Depth 2010

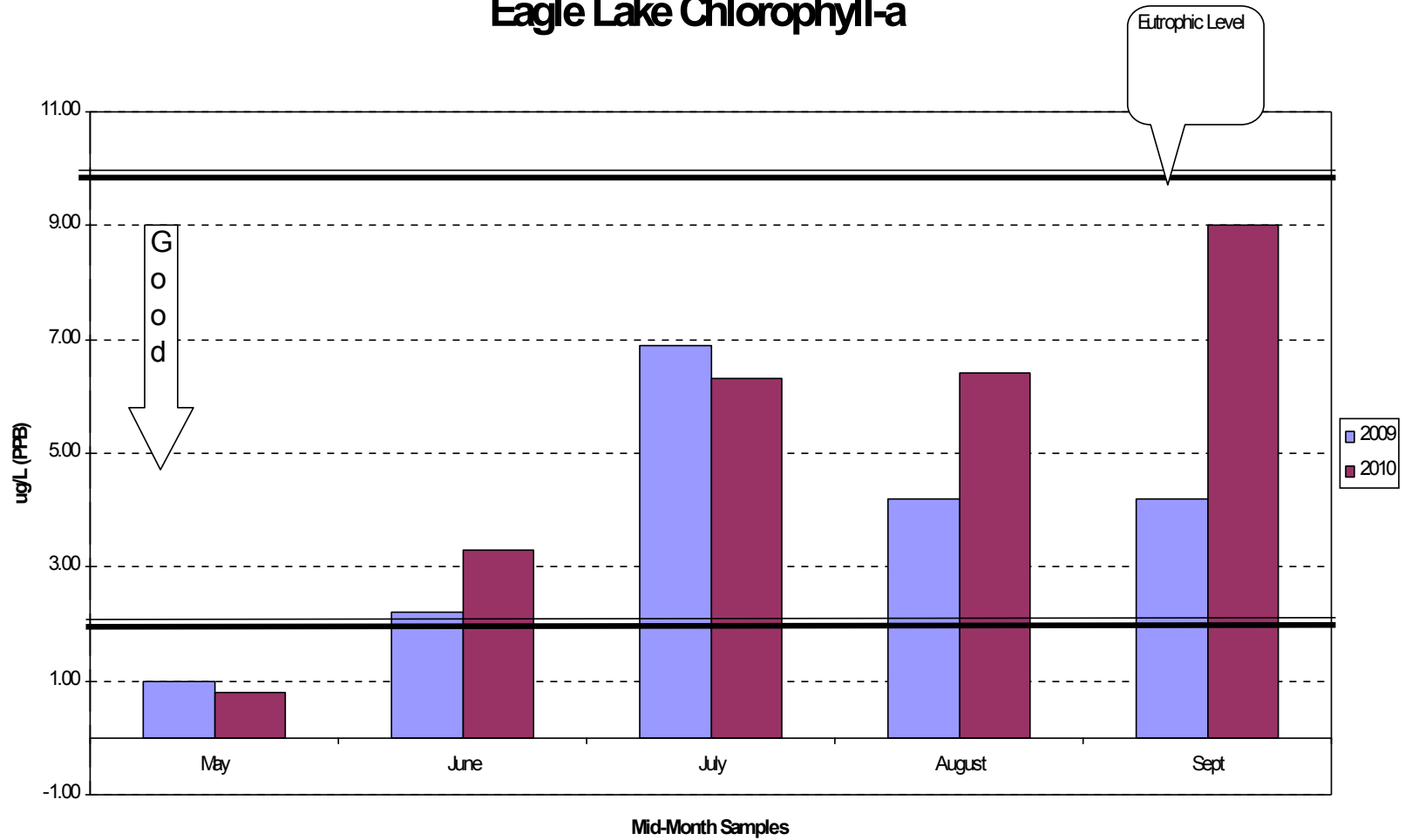


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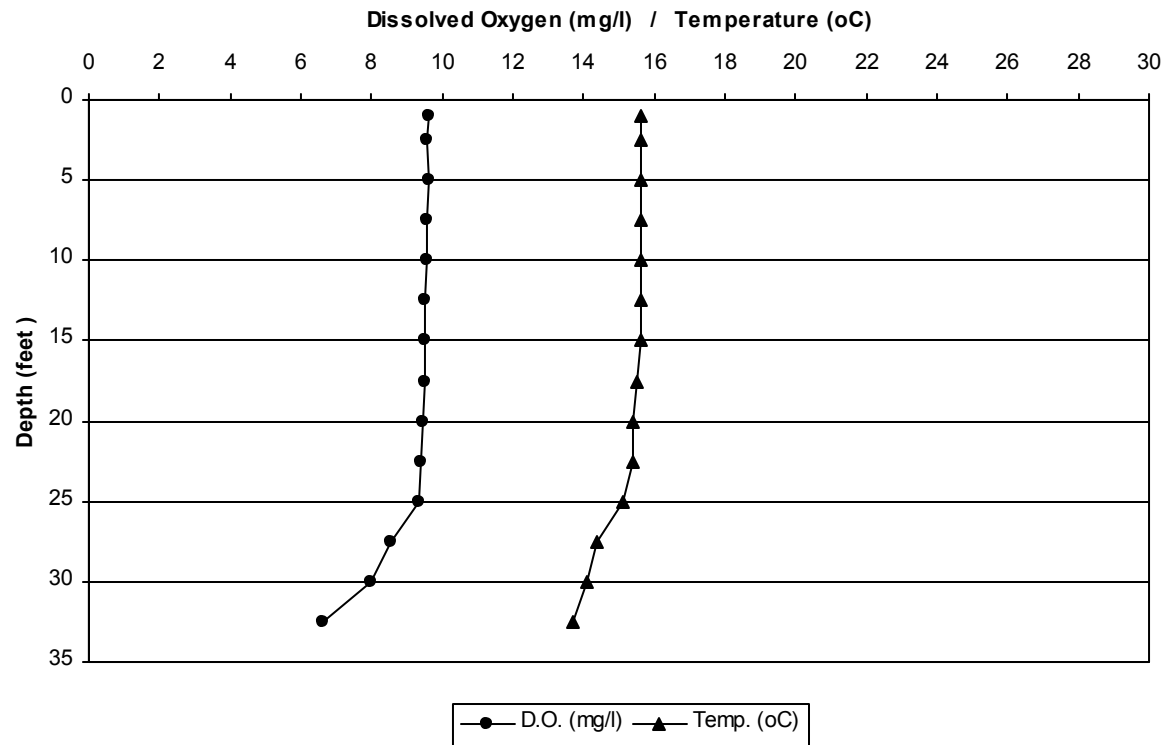
EAGLE LAKE Total Phosphorus



### Eagle Lake Chlorophyll-a

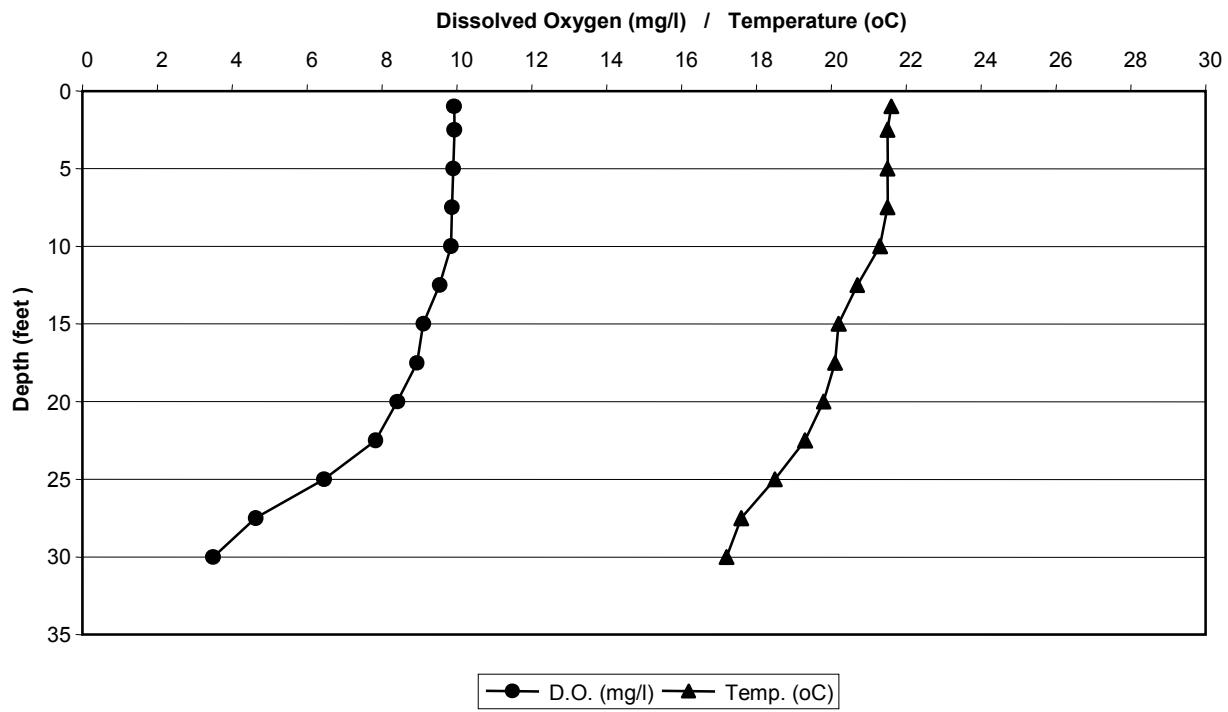


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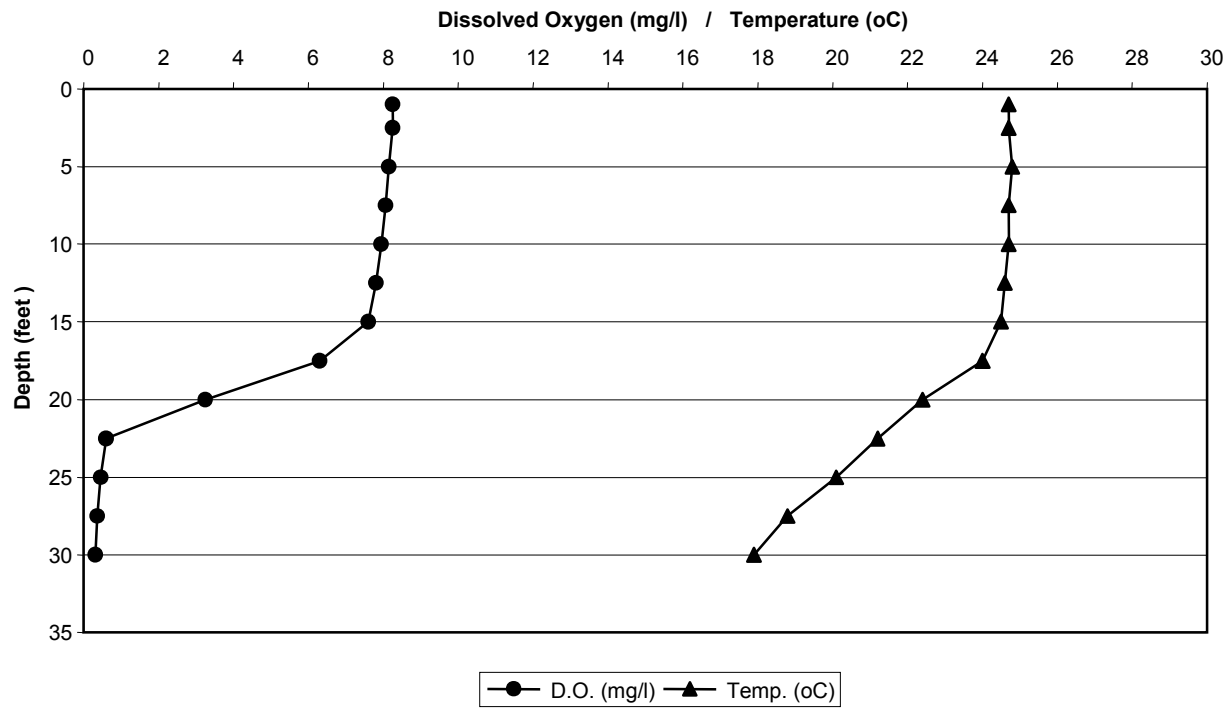
## Lake: EAGLE (Cass Co.)



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Lake: EAGLE (Cass Co.)

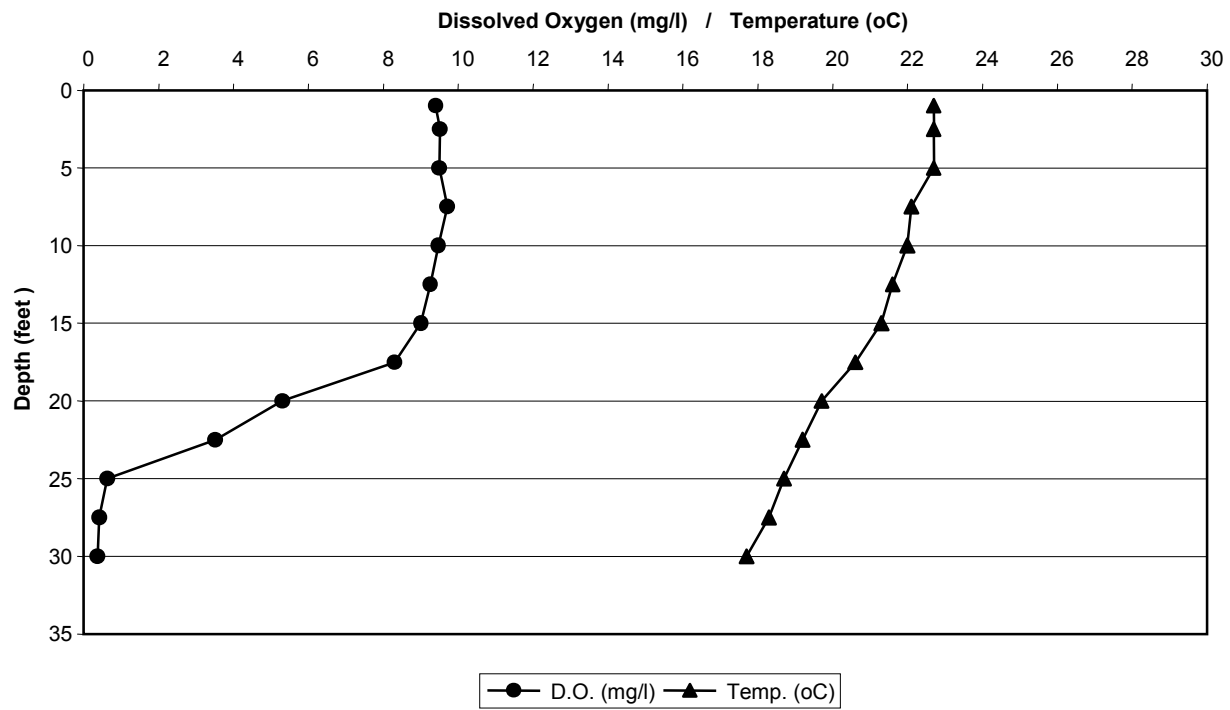
August 2010



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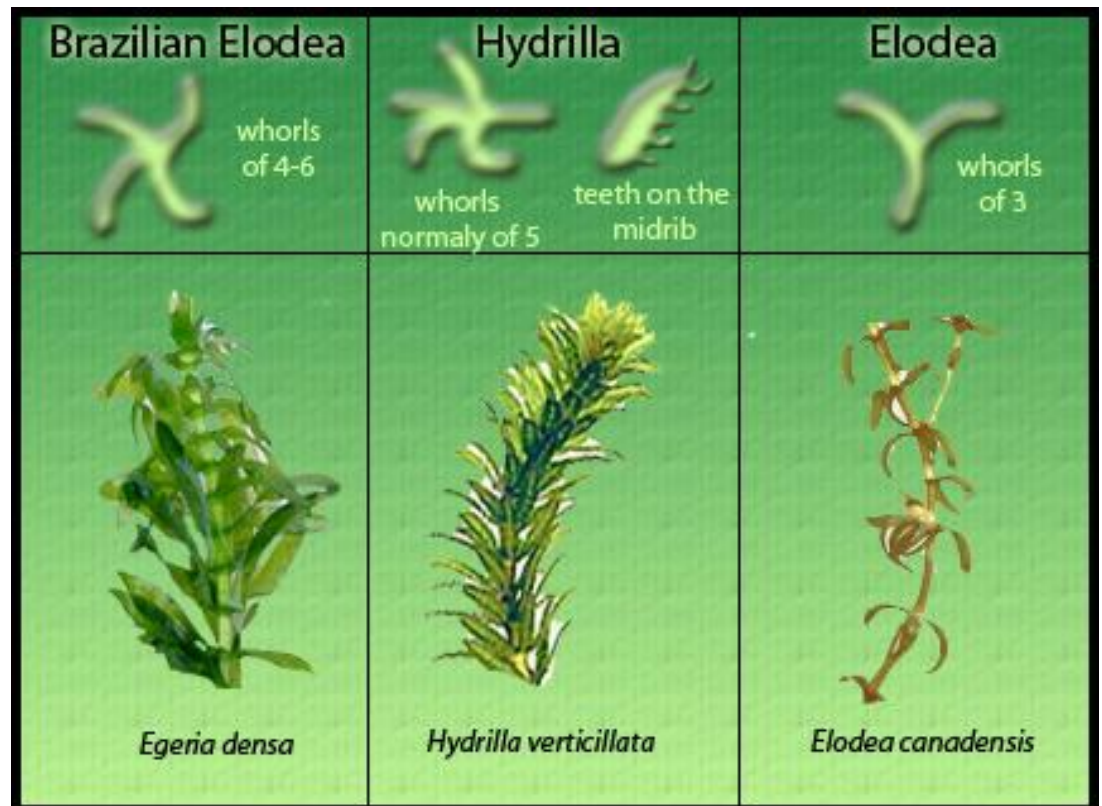
Lake: EAGLE (Cass Co.)

September 2010



# **HYDRILLA VERTICILLATA ALERT!**


**This is Serious!**



## WATER QUALITY INITIATIVES – 2011

- Continue Secchi Disk (Clarity/Turpidity)
- Continue Spring/Fall Phosphorus Testing
- Continue Dissolved Oxygen & Temperature
- Continue Chlorophyll –a
- Continue Exotic Plant Watch (Hydrilla Alert!)
- Continue ELIA Applied Herbicide (last year!!?)
- Expand eCOLI Testing
- ADD ***NEED FOR MORE VOLUNTEERS... YOU !!!***

## ***How Can “I / We” Help Our Lake?***

- Phosphates = Unwanted Algae Growth (1 = 500)
- Use ZERO (0) Phosphate Lawn & Garden Fertilizer (e.g. 10-**0**-10)
- Reduce/Filter Run-off into Lake: Rain Gardens, Buffer Strips, Natural Shorelines, Impervious 
- Bag Grass Clippings & Leaves, Remove from Lake Shore, All Burning “Far-Far Away”
- If you are on the Lake, You should have a Rake!
- Take Care of Fuel/Motors. Clean Boat of Weeds



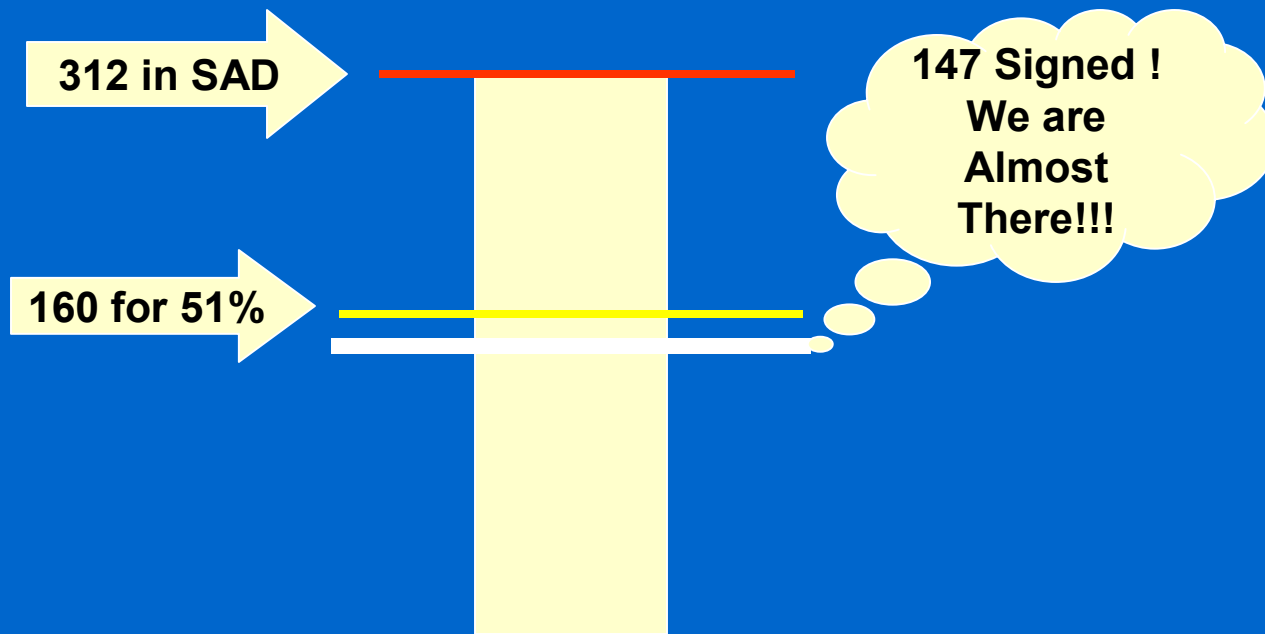
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*The LAKES – Ours to Protect*

# SPECIAL ASSESSMENT DISTRICT

*Would you/ Did you sign the petition?*

*Will you help convince your Neighbors???*



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CONCEPT....  
Natural Shorelines

- Protect Watershed from Impervious Surfaces
- Create Buffer Strips
- Minimize Adverse Impact of Sea Walls
- Not Mow to Water's Edge – It will also keep Geese Away
- *SUPPORT ONTWA MASTER PLAN - Open House 6/16*

*ELIA*



*QUESTIONS ?*

***E. L. I. A.***



Stay in touch by visiting

**[www.EagleLakeMichigan.org](http://www.EagleLakeMichigan.org)**

