



## **OCTOBER 20, 2014 WLA BOARD MEETING MINUTES (APPROVED 8/31/15)**

**Location:** The Blessing House, 8705 Church Lake Blvd, Victoria, MN 55386

**Date:** Wednesday, October 20, 2014

**Time:** 7:00 – 9:00 PM

### **1) Call to Order (Joe Fiedler)**

### **2) Establish Quorum**

Roll Call of Board Members:

All 6 board members were present establishing a quorum.

- a) Joe Fiedler     President
- b) John Hayes    Vice-President
- c) Stan Rud       Secretary
- d) Mark Schneider Treasurer
- e) Jim Ryan       Director
- f) Hillary Patz    Director

Others WLA members present:

- a) Chris Rud
- b) Gail Berger
- c) Dave Segal

### **3) Approve draft minutes from 7/21/14 Board Meeting**

- a) Draft minutes were read. A motion to approve was made by Hillary Patz, seconded by Jim Ryan and unanimously approved.

### **4) Committee Reports**

- a) What to do with 67 Volksfest petition signatures plus 6 online signatures
  - i) It was suggested that we write an Op Ed for the Victoria Gazette including sections from our flyer and some photos. Who will write draft??
- b) Flyer Committee (John, Chris & Hillary) distribution to developers (Dave Robb)
  - i) 1,000 flyers were printed and over 100 were handed out at Volksfest. Chris has the others.
  - ii) Dave Robb previously volunteered to hand them out to the south shore developers to have available at open houses
  - iii) Hillary will give 100 flyers to whoever sends out the Welcome to Victoria packets for new residents.
  - iv) WLA will distribute flyers into newspaper boxes of local residents in the spring.
- c) Report on bubblers – Jim Ryan
  - i) Jim summarized an aeration proposal (see attachment) he received on September 30<sup>th</sup> from Aquatic Restoration LLC. It consisted of 16 micro-bubble diffusers, a 13 HP compressor, 26,000 feet of tubing, and significant amounts of enzymes.



- ii) Installation cost is about \$117,000 plus about \$10,000 per year electricity.
- iii) John made a motion to resolve if WLA is in favor of installing a lake aeration system and to pursue a means for funding. It was seconded and passed unanimously.
- iv) Jim will schedule a Board Workshop to discuss lake aeration and other alternatives to help clarify the lake.
  - (1) Possible invitees include the following
    - (a) Tom O'Conner – Mayor
    - (b) Bill Olson
    - (c) Randy Malachuk
    - (d) Bill Blinstrup - Aquatic Restoration LLC
    - (e) Alex Gehrig
    - (f) Eric Fieldseth
  - (2) Stan will contact several lake restoration consultants to give us independent expert opinions
  - (3) Stan showed water quality charts trend charts (see attachments) on Secchi depth, lake level, dissolved oxygen and total phosphorus.
- d) Water quality sign – John Hayes
  - i) John will take down his D-grade water quality roadside sign
  - ii) A new sign describing lakeshore restoration in progress will be installed to help educate home owners.
- e) Cost sharing/grant opportunities – Hillary Patz
  - i) No action since July meeting. John will report at next board meeting.
- f) Status of carp study – Stan Rud
  - i) Justine Koch from Dr. Peter Sorensen's staff has conducted three electro fishing carp surveys this summer and reported an estimated population of 11,219 carp with a combined weight of 73,709 pounds.
  - ii) On August 13<sup>th</sup> they did a trap-net survey and found no Young of the Year carp in Wassermann Lake.
  - iii) On September 19<sup>th</sup> they did a fourth electro fishing survey with similar results and also radio tagged 15 carp. They will be tracked monthly for the next 2.5 years to determine migration routes and spawning locations.
- g) Zebra mussels on Christmas Lake – Stan Rud
  - i) For a number of years, Christmas Lake has had a locked gate and 100% inspections at the only lake access. It is probably the most secure lake in the state. However during periodic inspections, numerous adult zebra mussels were discovered only around the boat launch last summer. No juveniles were observed so it appeared to be a recent localized introduction and not a breeding population.
  - ii) The entire area with zebra mussels was enclosed and treated with Zeaquanox. They are optimistic that all the mussels were killed.
  - iii) Since it is unlikely that a large number of adult zebra mussels were transported into the lake on inspected boats, it is possible that someone intentionally deposited some milfoil from Lake Minnetonka infested with adult mussels. It may



be futile to stop the spread of invasive species if only one person can spread them.

- h) Membership report – Stan Rud
  - i) WLA has 10 dues paying members for 2014. We need to start an aggressive membership drive in the spring since our trend line is down. Our 4 year membership trend since 2011 is 14, 11, 12, and 10.

**5) New Business**

- a) Other items ( none )
  - i) Mark will check for excess tree removal on the Lennar site. Also need to get a copy of the site plan from the City. Stan will send pre-development aerial pictures to Mark for tree removal comparison.
  - ii) John discussed the trials of getting permits to remove buckthorn roots which are required within 1000 feet of the lake. He plans to document the entire process.
- b) Schedule next board meeting date
  - i) Meeting will be scheduled after the bubbler workshop meeting

**6) Adjourn Board Meeting:**

With no other business to discuss, a motion to adjourn was made, seconded and unanimously passed at 9:07 pm.

Respectfully submitted by Secretary Stan Rud

A handwritten signature in cursive script that reads "Stan Rud".

Six Attachments Follow:



<b>Wassermann Lake Association Dues Paying Members as of 10/20/2014</b>					
<b>Last Name</b>	<b>First Name</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>
Berger	Gail	\$ 25.00	\$ 25.00	\$ 25.00	\$ 25.00
Fiedler	Joe	\$ 25.00	\$ 25.00	\$ 25.00	\$ 25.00
Gulbrandsen	Patricia	\$ 25.00		\$ 25.00	
Gulbrandsen	Steve	\$ 25.00		\$ 25.00	
Hayes	John	\$ 25.00	\$ 25.00	\$ 25.00	\$ 25.00
Patz	Hillary	\$ 25.00	\$ 25.00	\$ 25.00	\$ 25.00
Raiola	Kathy	\$ 25.00			
Raiola	Lou	\$ 25.00			
Robb	Dave	\$ 25.00	\$ 25.00	\$ 25.00	\$ 25.00
Rud	Chris	\$ 25.00	\$ 25.00	\$ 25.00	\$ 25.00
Rud	Stan	\$ 25.00	\$ 25.00	\$ 25.00	\$ 25.00
Ryan	Jim	\$ 25.00	\$ 25.00	\$ 25.00	\$ 25.00
Ryan	Shawn	\$ 25.00	\$ 25.00		
Schneider	Mark	\$ 25.00	\$ 25.00	\$ 25.00	\$ 25.00
Segal	David		\$ 25.00	\$ 25.00	\$ 25.00
	<b>Total Dues</b>	<b>\$ 350.00</b>	<b>\$ 275.00</b>	<b>\$ 300.00</b>	<b>\$ 250.00</b>
	<b>Total Members</b>	<b>14</b>	<b>11</b>	<b>12</b>	<b>10</b>



----- Forwarded message -----  
From: **Wm B** <[cleanerlakes@outlook.com](mailto:cleanerlakes@outlook.com)>  
Date: Tue, Sep 30, 2014 at 9:59 PM  
Subject: Estimated System Proposal  
To: Jim Ryan <[jim.ryan@2020brands.com](mailto:jim.ryan@2020brands.com)>

Jim,

Attached find your system proposal for Wasserman Lake.

Please call me with any questions you may have after you have reviewed the material.

If you would like me to come to the meeting let me know tomorrow and I will make arrangements to be there.

Regards,

Bill

William Blinstrup  
Aquatic Restoration LLC  
[952.200.9818](tel:952.200.9818)

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## Aquatic Restoration LLC

Our design will require the following equipment:

- 1- 12.7 hp rotary claw compressor
- 16- micro-porous ceramic diffusers
- 1- stainless steel 16 outlet manifold for connection to the compressor that will distribute the air to each diffuser.
- 25,500 feet of self-sinking airline (based on this layout)
- 240 feet of reinforced high temperature airline. 15' of high temp airline will connect to the manifold on each port and will get spliced into the self-sinking airline to each diffuser.

Along with the compressor, airline, manifold and diffusers, we will also provide a variable frequency drive for the compressor, replacement filters and oil for one year of operation, and all piping, fittings, clamps and accessories for complete installation.

**Not** included in the package is a ventilated shed or some other structure to house the compressor. Also until the exact location the compressor is established we cannot estimate the electrical service cost.

The recommend biologicals:



- 150 lbs. of CFLO
- 150 gallons of Clean & Clear enzymes
- 100 Bio Bags per month for 2 months for the organic muck and to reduce overall nutrient levels.

We will also provide our nutrient sponge that should be deployed in the area where the farm runoff enters the lake. We would need more details to determine exact shape or size, but we have included the cost for this. The sponge will absorb and reduce nutrients before they enter the lake.

Per the diagram the cost for the equipment, design, materials and biological products including installation is \$113,700. Shipping cost would be about \$3,185. Lead time for the compressor is about 6 weeks. There is a 3 year warranty on the compressor. The nutrient sponge should be planned for replacement after 2 years at a cost of \$4,000.

## COMPRESSOR AND DIFFUSER LAYOUT

The white diamond is the assumed compressor. Compressor location can move but we would have to recalculate airline.

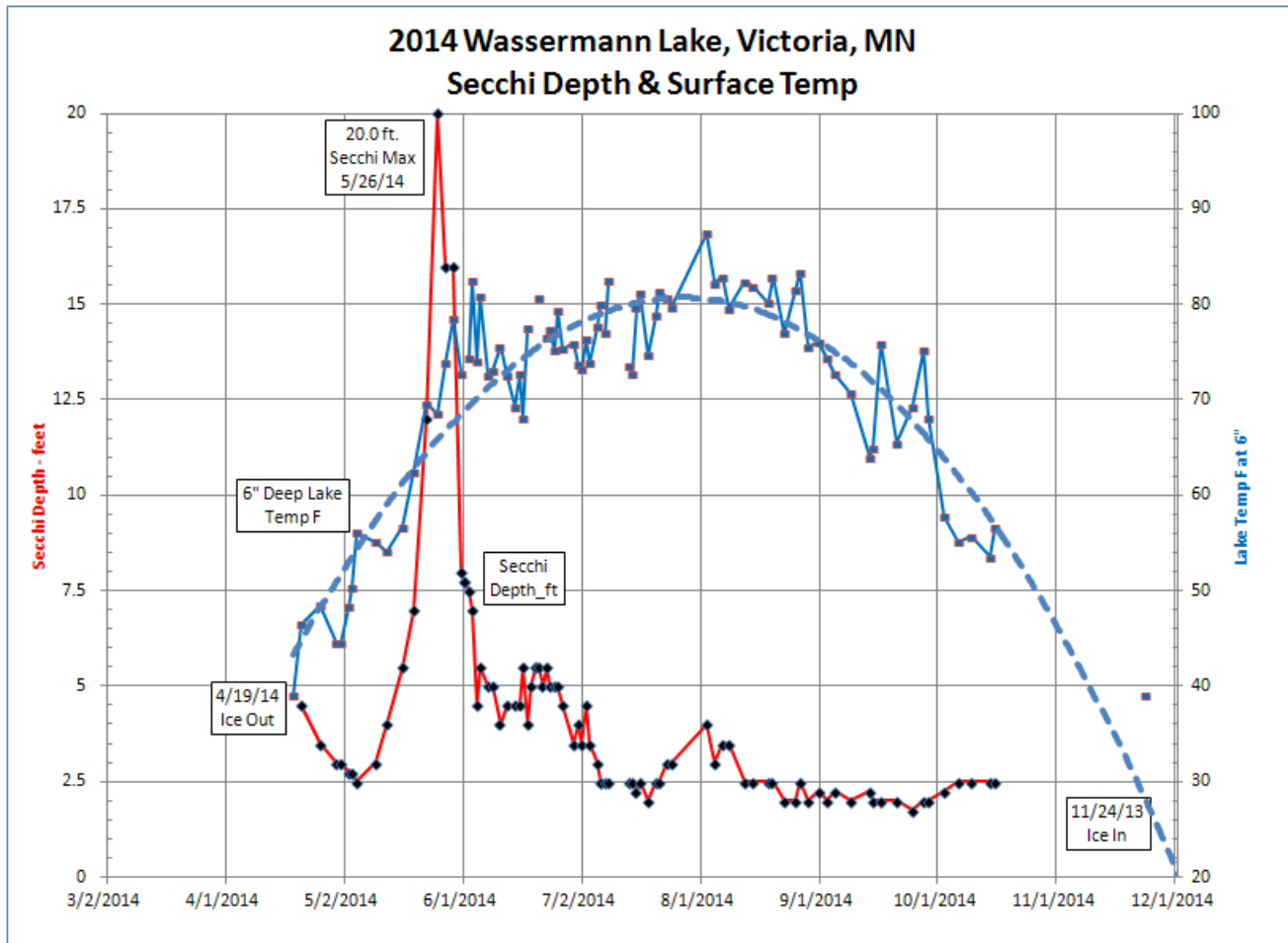








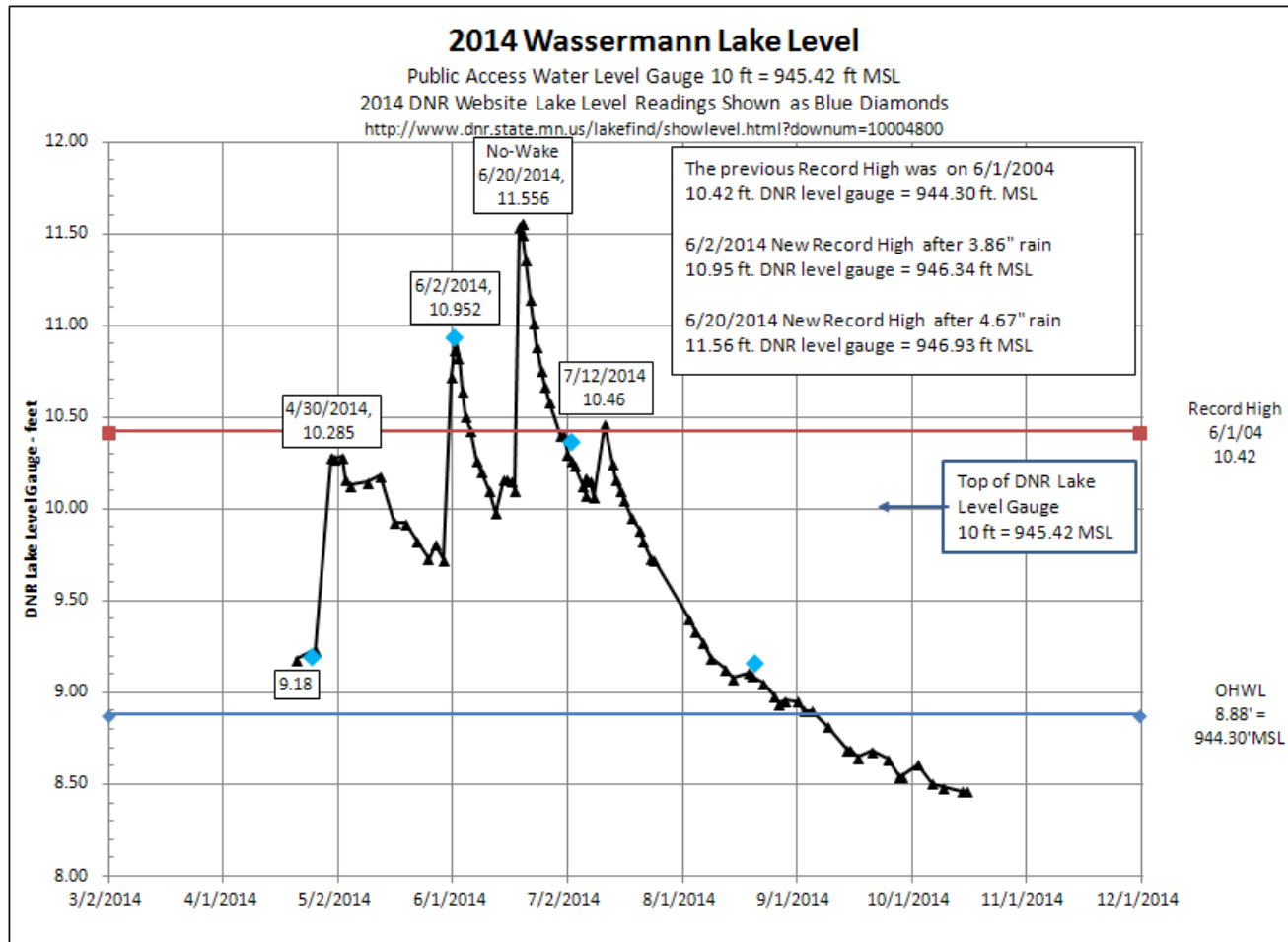
This is my data taken last summer for the CLMP program. Notice the clearing in May and the low visibility in July and August. The early clearing data varies a lot from year to year and its magnitude hides the trend in the midsummer minimums. That's why I averaged all the PCA July & August data for each of the last 30 years and created the next trend chart of the midsummer average Secchi disc readings.





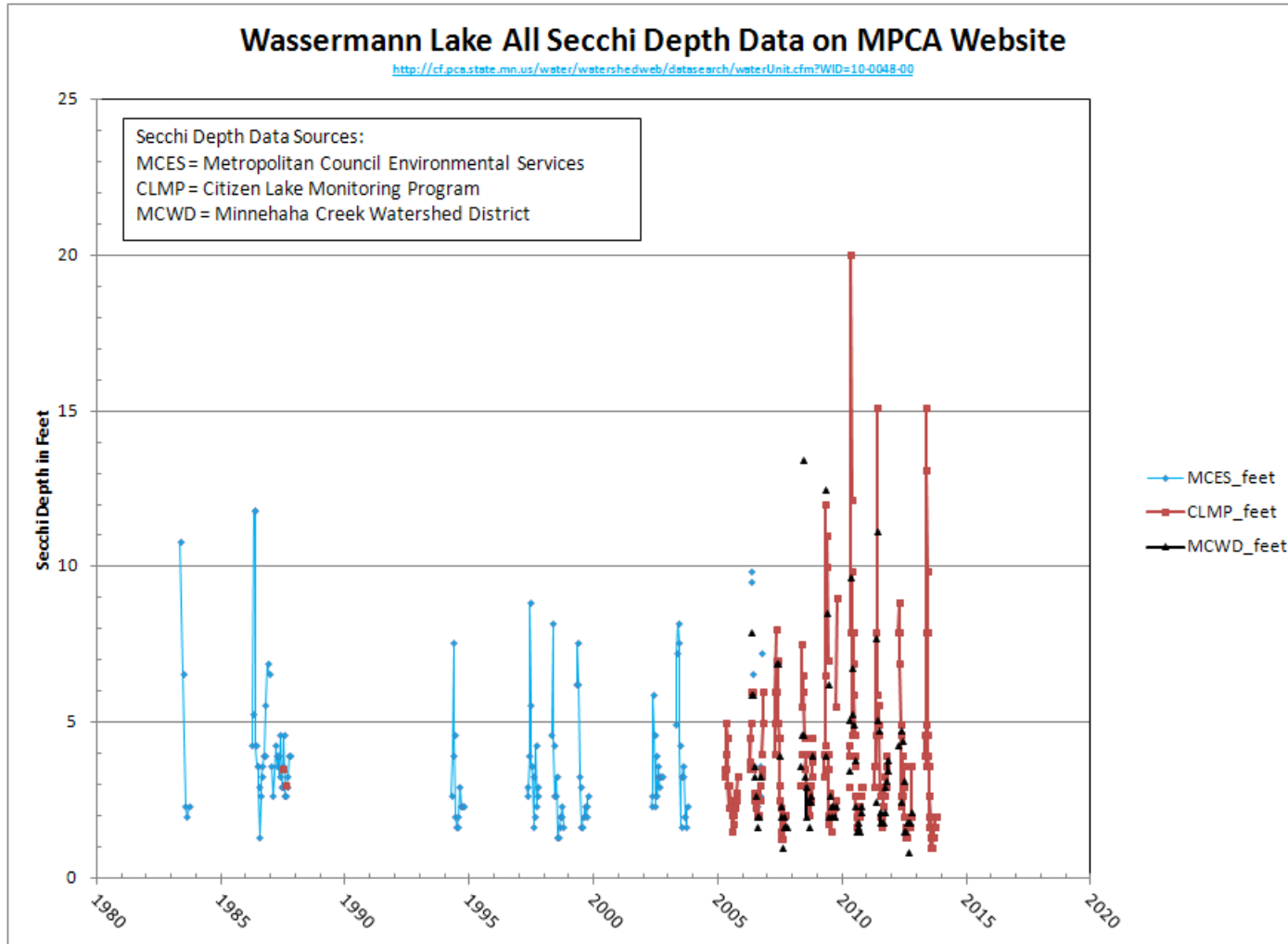


This is my lake level data taken along with my Secchi readings for the CLMP program. Notice that Wassermann Lake level was above the previous all time record high on 3 occasions this year and over a foot above the record on June 20<sup>th</sup>. The entire year was above the OHWL until September. We suspect there were a lot of nutrients washed into the lake from the Hess feedlot and from all of the new developments on the south side of the lake (over 200 new home sites graded and trees removed).



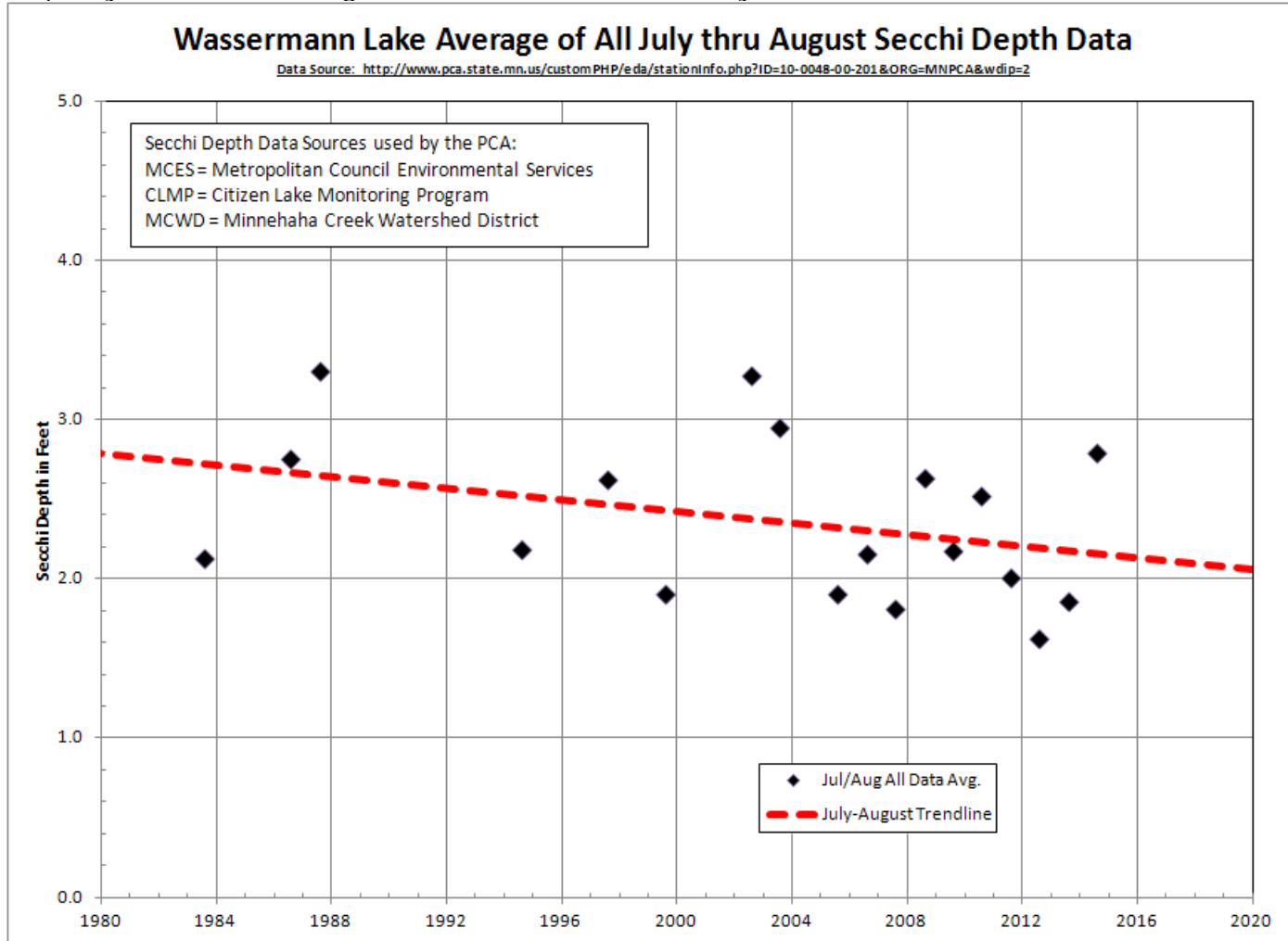


This is a 30 year trend chart of all the Secchi data on the PCA website from three sources: MCES, CLMP, and MCWD. The data from each source is shown in a different color. The peak readings are in May and early June before the warm weather algae blooms.



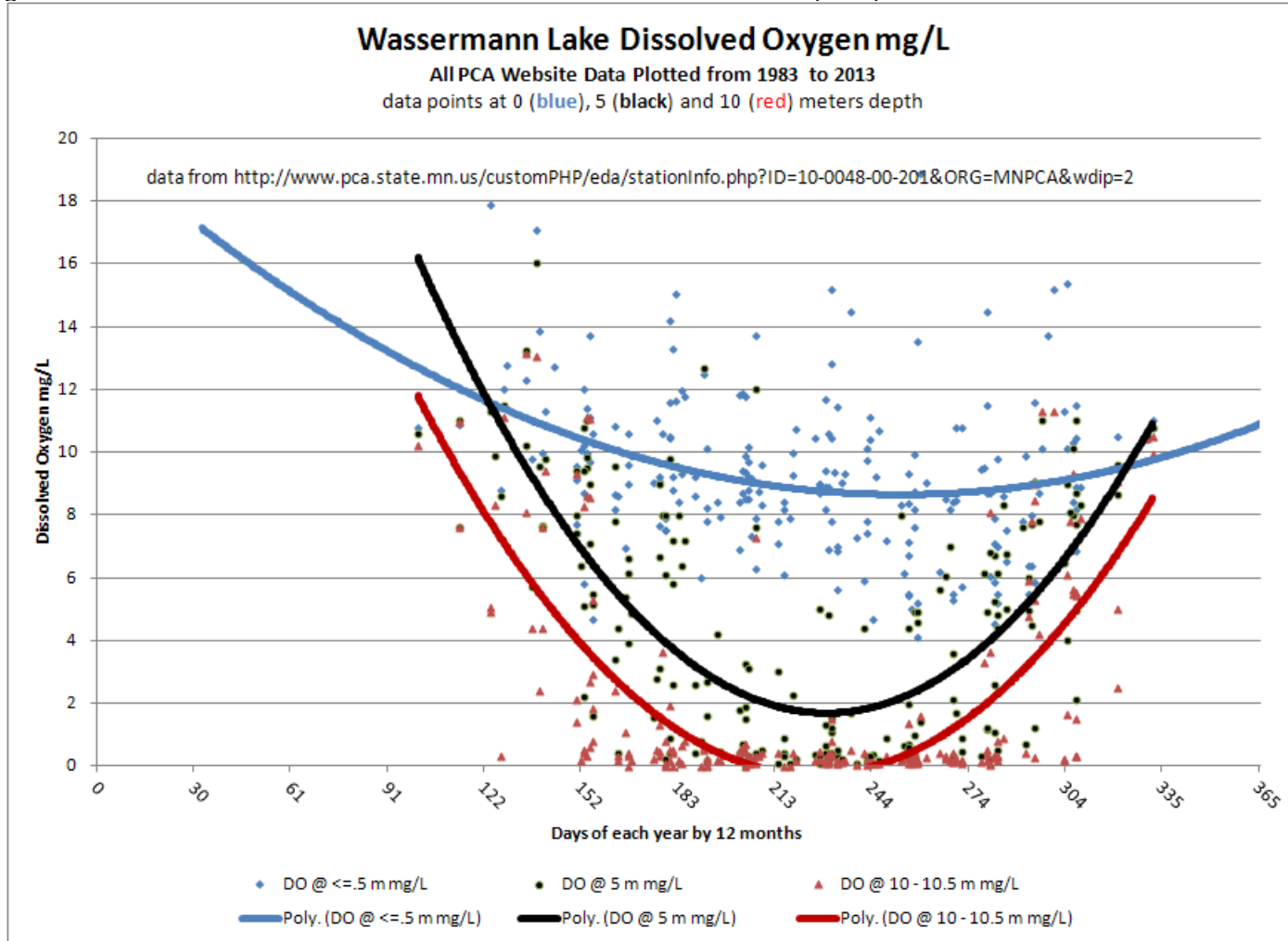


This 30 year trend chart of the July & August Secchi readings shows a long term decrease of about 22% over the last 30 years but there is significant variation from year to year. Is the trend due to more nutrients, more carp, warmer water or what? The question is what can we do to improve the water quality other than waiting for the zebra mussels to clarify it for us.





This is an annual plot of 30 years of DO data at several depths from the PCA website. The oxygen decreases during the summer and increases again in the fall. Below the thermocline at lower levels of 5 and 10 meters, the oxygen approaches zero in July & August which allows more of the phosphorous algae fertilizer in the bottom sediment to dissolve as shown in the phosphorous chart.





This is an annual plot of 30 years of TP data at several depths from the PCA website. Starts low in the spring and increased through the season. Much bigger increase near the bottom of the lake. This correlates well with phosphorus being released from the bottom sediment due to lack of oxygen in a stratified lake.

