

**Annual HVLA Board Meeting  
June 5th, 2009**

**1. Call to order:** 7:02pm

**2. Roll Call:**

|                |       |                |                |               |
|----------------|-------|----------------|----------------|---------------|
| Board Members: | (P)   | Scott Anderson | <u>Present</u> | Absent        |
|                | (T)   | Toby Wilsey    | <u>Present</u> | <u>Absent</u> |
|                | (SID) | Gene Kloewer   | <u>Present</u> | Absent        |
|                | (VP)  | Gerard Daly    | <u>Present</u> | Absent        |
|                | (S)   | Louis Stites   | <u>Present</u> | Absent        |

**3. Board Reports:**

Secretary: Minutes were read, moved to accept by Scott, seconded by Gene.

Treasurer's: Toby was not present. Scott gave a brief report of the board having \$18,553. There was \$7300 put toward the firework display to be held on July 3<sup>rd</sup>. Five thousand dollars of that money was in the budget, and \$2300 was given by donations.

**4. Open Discussion**

**-Discussion on illegal boats**

Scott stated we have limited rules over the legalization of the boats. We have a lock and gate, we look at different registrations and make sure they are to the standard of the lake.

In terms of the properties we need to make sure the boats are not creating too large of wake to destroy sea walls and erode beaches. We also need to make sure that boats are following the safety rules of the lake.

**-Ripple Phosphorous Study**

Mike McBride works out of Lincoln, NE. He is doing the nutrient study for our lake. He has been working with HVLA since 2006, but has been doing his job since 1998. He looks at the algae, and finds out why it is blooming. He recommended that we go

through the phosphorous study. It was approved by the board in September.

Bottom line there is high phosphorous in the lake, monitoring the water shed from the north and how much is coming from the lake. In water deeper than 13 feet you get a cold layer. There is a stratification. He is sampling from the top and the bottom layer and will continue to sample to the end of September and also provide a report.

From the spring season it looks that the high levels are coming from the water shed. A lot of phosphorous is dissolved in the water. He suggests that we design a storm water basin. There are possible low cost options and possible funding from the EPA for solutions to the high phosphorous rate.

Question: How much from lawn fertilizer?

A: There is some, but research still needs to be done. He will make a recommend a way to create a buffer. He recommends a low or no phosphorous fertilizer for yards on the lake.

Q: Is there a lot coming from the cornfield?

A: Quite a bit dissolved in the lake which he wants to address first. He stated that it is coming from leaves and sediment.

Q: If he were to put a fountain in would that help?

A: There are solar power ways, and aeration systems, but there is still a small layer that stays at the bottom. A fountain is not always the right answer.

Q: The geese do they play a factor?

A: Yes the Canadian goose can contribute to the phosphorous count, but compared to everything else, he does not know more.

Q: Where are we at as of terms, we are on the edge of being Utopic (Phos acting as food for the algae.) He did not have the numbers. There are high numbers, and the watershed is high. As far as dangers of the algae, (Green stringy algae is not toxic) Bluegreen algae can be toxic (Toxins typically spike during early June.) During the warmth, it can work as an algae incubator.

His report will have recommendations about phos management and water mixing of the lake.

Q: Dragging the bottom has anyone ever done that?

A: He has never heard of anyone doing that, it would be hard to do, it would be easier with a pump.

Q: How does stratification relate to phosphorous?

A: Cold water at bottom is more dense, two layers don't mix, Top 22 feet constant, then 1 foot or 2, and then you enter bottom layer where it is cold and less oxygen...Fish can't survive down there for long times. With no oxygen phos is released from sediment on the lake which is called internal loading. He expects the bottom layer to increase over the summer time.

Q: When will the report be available?

A: The report will be available by September, and will try to get a progress report in a week or two with current data of how far along he is.

Q: What is Utropic?

A: It is a lake classification system Oligotrophic (Low phosphorous) Mesotrophic (Clearer water, some phosphorous), Utropic (Phosphates are 80 ppm) It is how the states classify the lake.

Q: When is it dangerous or inhabitable?

A: It would be when it is hypertrophic.

Q: How long has it taken for our lake to get to the level we are at?

A: Start with sand at the bottom, there is minimal phosphorus from internal loading... Over time the addition of silt creates it, and then shallower water with silt are more likely to create and grow algae.

Q: Would a backhoe help in shallower lands?

A: You can stir up phosphorous and then get high phosphorous loads for a year or two and create worse algae. Mike recommended suction dredging and not a backhoe dredging.

Next topic

Zebra Mussels

Brian Osborn is a biologist that is an expert of the area. We do not want to create a panic, but we need to provide the education so that residents are aware.

He brought pictures of Offutt AFB Zebra Mussels.

Zebra Mussels are small mollusks started in Great Lakes (Native of Eastern Europe) They have cost billion dollars of damage.

Each mussel can produce 1,000,000 mussels a year and they live for approximately 5 years. The larvae float on the top of the water.

Only been eradicated using KCl in a 12 acre lake so far... He came up with a copper sulfate solution...It looks like they got all the mussels, but killed 50,000 pounds of fish. They spent a half of million dollars to treat that lake which is a little larger than our lake.

The mussels can clog discharge pipes. They are sharp and you will cut yourself, they can take out the nutrients and destroy fish.

We need to prevent the spread. You can see the mussels with the naked eye. However, you need to be careful of the bilge on boats. His recommendation is a lake quarantine. (They live for about 1.5 weeks out of water) or steam cleaning will kill them.

Don't put minnow buckets into water.

Gate to the platte river (none in Platte in NE but in MO river, and in the Platte in CO. He wants to block the flood gate between River and Hawaiian Village lake permanently.

Q: Did treatment harm the lake?

A: No, you can still swim in the lake and the fish are ok now. It takes 2 mollusks to mate if you miss 2 it could come right back. KCl would have been 5 times more expensive.

Just observed on the MO river in KC. He can not estimate when they will be there, but he assures they will be here in the River at some point... We have a little time after we find out that they have reached Lake McConaughy.

Ginger Cove has come up with a vendor list of businesses that can help.

Q: What is the state doing to prevent these?

A: Monitoring, but the state does not have money. Colorado has decon stations at state lakes that you have to pay for.

The mussels are monovalve and they are about the size of your thumb.

Q:What is involved with steam cleaning?

A: Put together by the 100<sup>th</sup> Meridian organization. They recommend 140 degree cleaning. If you want someone to do it you would need to find one. Easiest thing to do would be a quarantine for 2 weeks. In the livewell you should still use some bleach, however in the bilge hot water will probably kill them.

Scott: We do know we have to do something, and at some point it is going to cost us some money. We are contacting other lakes to come up with best practices and unify ourselves with marinas and manufacturers. The quarantine method may be the best way to do this. Over the next few months we want to educate other residents. There are some

ideas floating around that may work. Nobody is going to do it for us, but we need to do it, and it is going to be an inconvenience for all of us.

We don't have zebra mussels yet, however, if we find out that there is an issue, it can affect our property values. It will affect our boating and swimming. There is an obligation for us as a board to act on this. We will try to avert this possible catastrophe. The SID is in agreement that something does need to be done. We will work together to try and make something happen. In the next newsletter there will be zebra mussel fliers attached. There are some good pictures and info, and it shows a map of where they are at primarily in the US.

Gene: The gate lock issue has been a hassle for the residents. It is not just about the illegal boats. It is going to be a permanent thing. We don't like getting the calls, as much as you don't like calling us. The lock issue is a hassle and just as much for the board as it is for each individual resident. The people that did not show up will not know so we are asking residents at the meeting to share this info with other neighbors. Fishermen that travel to surrounding lakes could be very dangerous to our community. The vendors who work on docks and seawalls could be equally dangerous. We will check their barges and boats before they are allowed...They may have to follow tighter rules than even the residents.

Formal agenda is finished.

## Q&A

John Christensen #39

Q: Wants some other system of how to let the boats on at other people's convenience.

A: Process of locking and unlocking gate is messy and unorganized. When going on a permanent we are working on getting a better way. The new website may help. We have until next summer until this gets really hectic.

Q: Pigging do they boil water starting on Monday until notified that they don't have to

A: Monday less than one hour of shut down. We are to begin boiling water on Monday. There is a sign that states June 8th

John Christensen: He has never heard of a request from anyone as long as he has been on the committee (In regards to sheds). The covenants state there should be no out buildings.

Both are not on lake side, one came with a petition and stated that no action was taken by the board and by lake rules, that it may now be legal due to lack of information. We do have an obligation to follow the rules as they are stated.

Norm Zancher lot 6: Will a notice for dues come out, can a budget come out and spending for the previous year.

4 new members of the board, due to non payment the PO box was cancelled which caused problems with the dues. Scott thinks his idea is a good one.

John Stites Lot 34: What is the criteria that is being used for legal boats. What was the research that was done for the Moomba. The Moomba V is not approved boat.

A: it was based on the AWSA website

John Stites: States Moomba V and the Moomba Outback are two different boats

Board states that the boat has an AWSA sticker.

John Stites is worried about seawalls being undermined and then shore erosion. He states that the V-Drive boat is set up for larger wakes which can cause more damage to lakeside properties.

Norm Zancher - Wants something done about the lots with two motorized vehicles  
If you see it, just let us know. They will be sent a certified letter.

Brian Osborne- Tennis courts when are we going to fix the cracks.  
Length of time to repair. Crack has gotten larger the foundation is bad, we are looking at cost of refilling the court. The whole area by the river is constantly shifting. The cost may not be beneficial for the use of it. We are talking about using the space for another purpose. We have an obligation to fix it or do something else with it. It will either be replaced or

Shirley Razzler – Wants on marquee that fireworks will be on July 3<sup>rd</sup> and wants more comfortable room. She also wants the boil date.

These will be posted on the marquee ASAP.

Motion to adjourn the meeting, Toby, second Gene. Meeting adjourned at 9:17pm.

Louis Stites, HVLA Secretary