

DRAFT Hayden Lake Watershed Association, Inc. Minutes for 10.17.12
Hayden Lake City Hall, Hayden Lake, Idaho.

- I. Meeting was called to Order at 6:32pm. Board members In attendance are Gloria Lund, Todd Walker, Bob West, Larry O'Leary, and Mel Schmidt. Also in attendance were Donna Harvey and Darren Brandt
- II. Suggested changes to the agenda.
- III. Correspondence received
 - a. The Association had sent two letters: one to Idaho Department of Fish and Game and one to Kootenai Electric Cooperative. Kurt Lyon responded for Kootenai Electric and said that he will be sure that BMPs (Best Management Practices) are installed in the corridor where Kootenai Electric removed all the trees so that mud and debris will not flow into Hayden Lake this winter. Fish and Game has the task of seeding the dirt pile that they left when they were working on Sportsman's Access this summer.
- IV. Review of minutes from 9/16 meeting
 - a. Gloria mentioned a misspelling and Todd mentioned a correction for last month's minutes. Gloria made a motion to approve the September 19, 2012 minutes with the provision the corrections were made. Larry seconded the motion; the motion passed.
- V. Presentation from Members / Meeting Participants
 - a. Darren Brandt from Advanced Eco-Solutions, Inc., 1324 N. Liberty Lake Road, Liberty Lake 99019 gave a presentation on algae and lake monitoring. Darren said that the methods used in monitoring lakes are fifty years old and that these methods do not really give a clear picture of the history or trends of a lake. His company has recently done a study of Pend Oreille Lake. They take core samples from the bottom of the lake which can give a picture of lake history from the 1850s to the present. This gives a much more accurate picture of what is going on in a lake and how the lake has changed over the decades as far as nutrients and organisms present or absent.

When a lake has a blue-green algae bloom as Hayden Lake did this summer, some people assume that it from an excess of nutrients. This may or may not be the case. Anabena, the blue green algae that sometimes contains neuro toxins which is poisonous to animals and people, can fix nitrogen when nitrogen levels are low. Sometimes an algae bloom is from phosphorus and nitrogen being in concentrations ad verse to the growth of other algae. A blue-green bloom can happen any month of the year, not just in the summer. The bloom on Hayden Lake this summer was likely due to temperature and wind.

Geoff asked how much a study of this sort would cost for Hayden Lake. Darren said that the samples run about \$120 apiece. On Hayden two stations could be sampled for 5-6 months for a total of 12 samples.

Pend Oreille was the "Cadillac" version of sampling which consisted of four cores at roughly \$100,000. Darren said Hayden Lake would only need two core samples. Darren's company looks at diatoms, chlorophyll to nitrogen ratio, zooplankton to see if there is a shift from one decade to another. The cores taken are about 20-24" of depth into the lake bottom. Positions in these cores can be dated. The scientists look at thin

slices of the core to determine what is present or absent and this paints a picture of the lake that the usual sampling cannot do.

Darren says he works with small organizations who have limited funds and only want to do a small amount of core sampling. From the results, he can write a prescription for the lake as to what should be done to improve water quality. He can be reached at 208-660-8733.

VI. Officer reports:

a. Treasurer - Gloria

- i. The group received two PayPal donations from the website. Gloria is also keeping a record of email addresses for new members as the Association may have to notify the membership in case of emergency, such as the potentially toxic algae bloom of this summer.

b. Lake Manager's Report - Todd

- i. Todd said that the county wants to work on lake levels and no wake zones. Where is the lake level when residents start to see lots of erosion. The county needs this information and Todd is going to work on this issue. Todd has called the county to solicit a group of inmates to clean up the overflow ditch. So far, the demand for inmates exceeds supply.

VII. Old Business

- a. Mel reported on progress of the Hayden Lake Watershed Improvement District formation and said that Cecil Hathaway and Steve Meyer is proceeding with caution as to the formation of the new group. The board members want to do everything right so that the presentation to the voting public around the lake is a good one and within the legal limits. They have been discussing how many board members the new group should solicit.

VIII. New Business

- a. Bob West brought in a sample of some kind of jelly-like substance that has formed a ball and is in the lake. Darren took a small sample and said that he had not seen this kind of organism. He will hopefully report back to the curious board members as to what this might be.
- b. Clark would like to take on as a project work on the dike and storm water over the winter. This project could be put on the list for the new group to undertake.
- c. Gloria made a motion to suspend the December 2012 meeting. Mel seconded the motion; the motion passed.

IX. Motion to adjourn by Schmidt, second by O'Leary. Meeting adjourned at 7:29pm.