

EAGLE SPRING LAKE MANAGEMENT DISTRICT  
REGULAR MEETING  
June 19, 2018

**Approved Minutes**

Tom Day, Chairperson, called the meeting of the Eagle Spring Lake Management District (ESLMD) to order at 7:00p.m. Other Commissioners in attendance were Tom Casey, John Mann, Matthew Thew, Nick Wambach, Town of Eagle Representative Don Malek, and Waukesha County Representative Chuck Wood. Also present was Dam Operator/Resident Peter Jensen and Lake Resident Dale Brugger.

**Approval of Minutes** – D. Malek made a **Motion** to approve the minutes of the May 15, 2018 meeting as written; second by J. Mann, motion carried.

**Weed Harvesting/Collection/Chemical Treatment** – T. Day stated that it appears that the chemical treatment in Pickeral and Jack's Bay was successful. Eurasian Water Milfoil has been observed in Mary's Bay.

T. Day reviewed with the Board conditions #7 & #8 of our harvesting permit. Condition #7 states that harvesting should only take place on the open water portion of the lake when it is dominated by greater than 50% of Eurasian Water Milfoil (EWM). Condition #8 states that harvesting should only take place in the channel extending from Penny Island southwest to the springs when it is dominated by 50% EWM, and the depth of cut may only be a maximum of 2 feet from surface and limited to a 30 foot wide specified path. These conditions limit us to not cutting areas where EWM is growing, and therefore, allows for the boat traffic on the lake to chop up the EWM growth and spread it throughout other areas of the lake. During 2012-2015, the greater than 50% EWM restrictions were put into our harvesting permit conditions. Complaints are coming from residents with the newer paddle wheel kayaks; they are getting caught up in the aquatic plant growth.

**Clean Boats/Clean Water Program** - The Nature Conservancy has been staffing the public boat launch on Fridays for several hours each week. We will continue to staff the launch on weekends and holidays.

**Carp Initiative/Fishery Issues** – A conservative count of 322 carp have been captured this year. There were two carp tagged this year on May 22. When compared to previous years, the size of the carp in the dumpster is smaller.

**Weather Station and Website** – P. Jensen reported that we will be getting two new computers to be upgraded to Windows 10 this fall. Milwaukee School of Engineering (MSOE) will be taking over (from U.W. Parkside) the monitoring of the website.

**Wambold Dam/Millrace Issues**

**Repairs to Wambold Spillway** - P. Jensen presented the Board with a slideshow of pictures of his last inspection of the Wambold spillway. It shows some erosion to the spillway structure. He is recommending repairs to be done next year; the same time as our Kroll Millrace repair. The cost of repairs is unknown until we get into the repair and see how far the actual damage goes. It is estimated that cost could be approximately \$9,000 to \$15,000. Also apparent was a crack on the ceiling of the east spillway (under the bridge). Bridge repair would be the responsibility of those who are responsible for the Wambold Road.

**Rip Rap Project Kroll Outlet** - At the Kroll site there are areas of shoreline that will need repair due to muskrat damage. M. Thew made a **Motion** to proceed with a riprap shoreline repair that

includes installing chain link fencing to help prevent future burrowing. The cost of the repair is not to exceed \$6,000. Motion second by N. Wambach, motion carried.

**Grant Status Update/Dept. of Interior Grant Application** - The DNR has given us another 1 year extension on our Municipal Dam Grant. The Department of Interior will not be accepting grant funding applications until September. We will be applying for this grant which would give us possibly 75% funding for dam repairs (Municipal Dam Grant is 50%).

**Septic Pumping Issues** - We have been attempting to have Robert Buss coordinate a pumping of the island properties either right before or right after the fireworks on June 30. Summerset Marine will allow the use of their barges (for a fee) during that time.

**Status of Succession Planning/Back up Positions** - T. Casey is being trained to operate the harvester. Charles Kuiper will be next for training on the harvester. P. Jensen will hold one last training session with the Deputy Dam Operators.

**Southern Kettle Moraine Master Plan** - The Master Plan was updated in May 2018. On May 23, 2018 the DNR asked for a letter of support of the updated May plan. The May plan shows option 2, canoe/kayak launch on South Shore, has been taken out of the plan. The DNR is attempting to sell the land with the current restriction left in place. T. Day read out aloud a draft letter of support to send to the DNR. J. Mann made a **Motion** to send the DNR the letter of support of the May 2018 Kettle Moraine Waters Master Plan; second by C. Wood, motion carried. The Master Plan is on the Wisconsin Department of Natural Resource's agenda for June 27, 2018 in Madison.

**Lake Patrol** - D. Malek presented the lake patrol report from May 5, 2018 through June 17, 2018. During this time, there were 63.75 hours on the water, with 11 boat stops resulting in 5 citations, 3 written warnings and 21 verbal warnings. Complaints included violation of Slow-No-Wake after 7:30pm, violation of 50mph speed limit, and a loud boat that was possibly violating the 86 decibel limit. The complete lake patrol report can be viewed on the District's website at [www.eaglespringlake.us](http://www.eaglespringlake.us).

**Lighting Ordinance** - T. Casey handed out brochures from International Dark-Sky Association ([www.darksky.org](http://www.darksky.org)). His objective is to reduce the inappropriate or excessive use of light and reduce environmental consequences for humans and wildlife. T. Casey will continue to draft a lake lighting ordinance for the District's Board to present to the Town of Eagle for approval. P. Jensen will check with DNR to find out if we can remove the lights from the existing buoys.

**Sponsorship of Eurasian Water Milfoil Dive Team in Walworth County - Lulu Lake** - The topic was discussed and there still remain some unanswered questions.

## **New Business**

**MSOE Support and AI Development** - P. Jensen explained that NVIDA Corporation is planning to build a new computer school on the MSOE campus which would double the size of their computer science student capacity. As mentioned earlier MSOE will be taking over the monitoring of our website. Most likely, they will be adding a couple of new sensors to measure sunlight (at different depths of the water) to the existing data collecting buoys that are already collecting water temperature data. MSOE is planning to develop a system of artificial intelligence that we may be able to use to help predict weed growth in our lake. This has the capability of possibly helping us determine the best time to chemically treat our lake for EWM.

**MSOE Flow Study** - P. Jensen presented a slide show of the flow study done by the MSOE students. MSOE built a model (1 to 33 scale) of the Kroll outlet that shows exactly what is taking place within the spillway. Due to the turbulence created (circling of water) in the turbine pit, the current flow of

water into the culverts is limited. The completed results of this study that they performed showed a cost effective way to increase our flow, if ever needed, to meet a 1000 year flood event capability. We would need to remove the wall that is causing the turbulence in the turbine pit and have the new gates open from the bottom. This would be enough to stop the water hammer blockage which correlates to us being able to meet the requirements for a 1000 year flood event. P. Jensen is hoping that MSOE will start a similar project on the Wambold spillway next year.

On June 8, 2018, P. Jensen hosted the Annual Dam Review/Emergency Planning/Picnic with Emergency Managers from all 8 counties (DNR, National Guard, etc.).

**Watershed Mitigation Plan Development** - The State Mitigation Officer and Southeast Wisconsin Emergency Management Director are considering a Mitigation Plan (dictates how to handle hazards) not on just County wide bases but doing an overlay based on a watershed. This would have potential benefits for us, i.e., we would be eligible for possible grant funding for a new Dam Failure Analysis. Due to more specific measurements of contours now on record, the new Dam Failure Analysis could show that some previous homes that once were in a flood plain are no longer considered in a flood plain. This analysis could also show that we may be able to lower the hazard rating of our dam. This new mitigation plan development funding (with the help of MSOE) could also allow for more computer modeling both upstream and downstream of each of the dams within our watershed, therefore, giving the dam operators better control of how far to open each dam during heavy rain periods. Grant funding would amount to a 12½ % local share (which could be in kind services) with no actual cost to the District.

**Fireworks** - We have rented the two barges from Summerset Marine (cost of one barge is being donated by Summerset), however, we are in need of someone to assist in getting the barges to the staging area, host the pyrotechnicians on their boat, and returning the barges to the District launch site after the show. T. Day will contact Rob Norling (resident who has helped us in previous years) if he is available, otherwise, we will be looking for any other lake resident willing volunteer.

**Annual Meeting Preparation - Newsletter/Budget** - The Board reviewed the draft budget and newsletter. T. Casey will prepare an article relating to the lighting ordinance he is working on. The 2019 proposed budget will be in the July newsletter and it will be mailed out before July 20.

**Financial Update and Payment of Bills – Motion** made by D. Malek to approve and pay the bills; second by T. Casey, motion carried.

There was no closed session and therefore at 9:20 pm, D. Malek moved to adjourn, second by M. Thew, motion carried.

Respectfully submitted,  
Gina Krause  
Bookkeeper/Administrative Assistant