



## MANITOWOC COUNTY LAKES ASSOCIATION

“The Manitowoc County Lakes Association will protect and enhance the quality of area lakes and watersheds for the benefit of all.”

### GENERAL MEMBERSHIP MEETING

6-30-2022 – 6:30PM

Newton Town Hall

Carstens Lake Road

### MEETING MINUTES:

Called to order by Jerry Corfman, President

#### Carstens Lake Filtration Project, Jim Kettler LNRP, Director of Project – Background of project

- Jerry Corfman pointed out that this project is different than the Elkhart Lake project.
- Most phosphorous comes from 3 or 4 rain events and snow melt.
- Explained the background of the project.
- Process started in 2016.
- Management Plan in 2017.
- UW Stevens Point worked on harvesting phosphorous ideas.
- Pine Creek and Centerville Creek have been monitored for the past few years.
- Goal is to reduce the phosphorous going into the lake by 80 percent.

#### Carstens Lake Filtration Project, Sarah Majerus, Stantec — Goals

- Goal is to remove TSS and phosphorous from water coming into the lake.
- 1st stage is research project.
- Eco Toxicity done.

#### Carstens Lake Filtration Project, Christan Burnson, Civil Engineer, Stantec — Preliminary Design

- Explained and showed preliminary drawings of the design.
- Divert water from north side of road to two sediment ponds.
- Construct one or two absorption structures. One at the exit of each sediment pond.
- If only one absorption structure is constructed it would be at the exit of the last pond.
- After water flows through sedimentation ponds and absorption structures it will go back into Pine Creek with less phosphorous.
- May have to have an emergency overflow, over the top of the slag bags in the absorption structures.

(continued)

#### 2021-2022 Officers:

**President:** Jerry Corfman

**Int. Vice President:** Maria Lynch

**Treasurer:** Marcia Salm

**Secretary:** Scott Umland

**Press Secretary:** Hanna Edelglass

#### Past Presidents:

Tom Ward, Gene Weyer,  
John S. Durbrow

#### Lake Directors

**Bullhead Lake**  
Ron Gerrits

**Carstens Lake**  
Brian Robley

**Cedar Lake**  
Josh Knuth  
*alts: Phil Knauf, Richard Jens*

**English Lake**  
vacant

**Gass Lake**  
Richard Blashka

**Harpts and Tuma Lakes**  
Dan Dufek

**Hartlaub Lake**  
Gene Weyer

**Horseshoe Lake**  
Robert Christian

**Lake Michigan**  
John S. Durbrow

**Long Lake**  
Chuck Kiehn

**Pigeon Lake**  
Jerry Gospodarek

**Silver Lake**  
Jaret Paltzer

**Spring Lake**  
vacant

**Wilke Lake**  
Tom Payne

## **Carstens Lake Filtration Project, Sarah Majerus, Stantec — Slag research update**

- Mesocosm experiments are continuing to determine the amount of phosphorous slag can remove.
- Under constant exposure the slag bags can absorb phosphorous for 30 days.
- The slag in this project will not be under constant exposure.
- Depending on rain and snow events the bags may only have to be changed once per year. This will be determined during the 2 year field study. Best would be to change slag bags in fall of the year.
- Bags may weigh 30 pounds when wet.
- This project is completely different than other projects.
- If the project doesn't do what is supposed to, the slag bags are removed and the two sedimentation ponds stay.
- End use of the slag is part of the research process. The hope is that it can be applied to fields as fertilizer.
- DNR has reviewed reports and have feel is should be good for field application.
- Second round of testing should confirm this.
- Slag comes from blast furnaces in foundries.
- Slag is tested before used in the filtration process.
- There may be a total of 48 to 64 slag bags in the two absorption structure.
- Optimistic that slag will be a low cost tool to remove phosphorous.

## **Carstens Lake Filtration Project, Sarah Majerus, Stantec — Project Schedule**

- 2022 Trial mesocosm experiment, UWSP.
- 2022 – 2023 Construction, revegetation and restoration of project site.
- 2023 – 2024 Field monitoring, USWP
- 2024 - ? Slag replacement, invasive species control, monitoring.
- The hope is that 2024 - ? Will be done by volunteers.

## **General Business Meeting**

- **Secretaries Report**
  - Reading of the last meeting minutes waived. They are on the MCLA website.
- **Treasures Report**
  - \$7,656.66 balance in general account
  - \$19,781.15 balance in grant account
  - 69 members, 12 paid associate members & \$350 misc. donations
  - \$5,000 MCLA money to come out of the grant account to help with the first 2 years field monitoring.
  - Gene Weyers made the motion to accept the reports. Second by Dick Jens.
- **Newsletter**
  - MCLA and Dave Pozorski are still looking for lake related articles. Please get them submitted soon. MCLA would like to publish the newsletter by the end of July.
- **Annual Banquet**
  - Maria Lynch will work on behalf of Little Pigeon as a sponsor.
  - Looking of a co-sponsor. Contact person at Pigeon will be out of town
  - Maria has talked to Autumn Ridge regarding dates and possible food.
  - Maria will reach out to Cedar Lake for help as co-sponsor.
  - Annual banquet is commonly on a Friday evening.
- Gene Weyers is cutting way back on the lakes he has been testing for water quality. Looking for someone to help with Shoe Lake. Manitowoc County Soil and Water may have the monitoring graphs.
- Next meeting planned for 9/1/2022. Topic will be shoreline zoning. Venue to be determined.

(continued)

## LAKE REPORTS:

**Bullhead Lake:** No Report

**Carsten's Lake:** Phosphorous Project

### **Cedar Lake:**

- The Lake is kind of green
- Treated an approximate 5 acre area for milfoil just recent
- Milfoil treatment for last years was successful and the Lake is happy with the results.
- Clean boat, clean water program is working good for Cedar
- DNR Fisheries did a lake survey in 2022 with fyke nets and electro fishing
- Wake surfing concerns still and issue

**English Lake:** No Report

### **Gass Lake:**

- High fishing pressure for the size of the lake
- Lake is green
- Could use some more shore fishing piers.

**Harpt Lake:** No Report

**Hartlaub Lake:** No Report

### **Horseshoe Lake:**

- Boat landing silting in is a continued issue. There are no good ideas or answers to the problem.
- No place to put sediment
- Recently completed a fish stick project
- Manitowoc County Fish and Game are planning to plant perch

**Kasbaum Lake:** No Report

**Lake Michigan:** No Report

### **Long Lake:**

- Lake is getting green
- DNR Fisheries did a lake survey in 2022 with fyke nets and electro fishing
- Crappies are larger this year
- Township has an ordinance on weights and ballasts
- Looking into limiting parking for vehicles and trailers

**Pigeon Lake:** No Report

### **Little Pigeon:**

- Private 14 acre lake
- Very little activity

**Shoe Lake:** No Report

**Silver Lake:** No Report

**Spring Lake:** No Report

**Sy Lake:** No Report

**Tuma Lake:** No Report

**Twin Lake:** No Report

**Weyers Lake:** No Report

### **Wilke Lake:**

- Morning kayaker ladies have been picking up the aluminum cans in the lake
- Lake Resident has noticed that the number of aluminum cans are down
- One of the morning kayaker ladies had a northern jump into her kayak
- Water clarity has been good
- Conditions have been windy

Motion was made and seconded to adjourn the meeting.

Respectfully Submitted.  
Scott Umland, MCLA Secretary