



**Current Officers:**

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**Treasurer:**

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**Commissioner:**

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**Cumberland City Council Member:**

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**Letter from the President**

It is without hesitation that I can say "Beaver Dam Lake" remains in good health as a result of the growing awareness of many lake shore property owners, visitors and the general public to good lake stewardship practices. Along with the many volunteer hours in support of the Beaver Dam Lake Management District programs and projects the past year can be summed up with words such as fantastic, rewarding, gratifying, eye-opening, satisfying and encouraging. For the first time since becoming President of the Lake District, several members of the Lake District attended almost all of our Board meetings. That is uplifting and I encourage all members to try and attend a meeting. With the continuity of the Board of Directors and officers staying intact for another year, the stability was in place for completing current projects and embarking on an aggressive agenda that commenced following the July 2016 Annual Meeting.

With the approval of the 2016 Wisconsin Lake Protection Construction Grant in the amount of \$182,108.12 supporting the development of the NE Library Lake Storm water pond, bids for the construction were let in August and construction began in late Oct. A previously WDNR approved Planning Grant for developing plans for the NE Storm water pond and Acquisition Grant for obtaining property easements for the location of the NE Storm water pond paved the way for the eventual construction of the project. The majority of the construction was completed by Nov. 15th. The remaining storm water catch basins, paving, planting of trees, shrubs and plants was postponed until May/June 2017. On June 5 and 6th, 2017, with the help of volunteers including students from the Island City Academy, over 1700 trees, shrubs and plants were planted in the pond area. By the Annual Meeting the remaining work will be completed.

Simultaneous with planning for the NE Storm water pond construction, funding for the dredging of a channel along the City Parking lot was approved at the 2016 Annual Meeting. The necessary permits were secured from the WDNR for the dredging of the sediment, pumping down of Library Lake to make the dredging more efficient and for the disposal of the sediment at the City Landfill. With the help of volunteers, over 400 sandbags were filled and then placed under the Grove Street

Bridge channel. With the help of other volunteers, a 4000#, 8 inch diesel driven pump was acquired and placed on a modified pontoon boat that could support the weight. Over a 4 day period in late Oct. 2016, Library Lake was lowered about 4 feet. This exposed areas of the lake for the first time in 60 years. It was quite evident what many years of allowing storm water runoff from the roads had done to the lake. The drawdown effort by the Lake District volunteers saved the Lake District funding vs contracting the drawdown. It provided information that may be used for future Library Lake dredging projects. It proved effective in reducing the time required to dredge the approximate 2400 cubic yards of sediment that formed the channel. In time, it is planned that boat docks will be installed along the shoreline parallel to the City Parking lot allowing pontoons and other watercraft access to downtown via the lake.

After 18 months of planning over 1700 cubic yards of sediment were removed from the 3rd Ave. channel off Rabbit Bay on Feb. 14th and 15th, 2017. The project was first discussed in August 2016, when I was contacted by the residents along 3rd Ave. about dredging the channel. Part of the channel had been dredged in 2014 and they were interested in having the channel dredged along their shoreline. Unfortunately, the permit that was used for the 2014 dredging did not include their residents. Rather than each property owner applying for separate dredging permits, the Lake District with the agreement of the WDNR applied for and received a dredging permit to restore the channel to navigable depth. Several other permits were required covering the disposal of the dredging's at the City Landfill. The residents funded the majority of the dredging costs, however there were several "interested party" donations that helped offset the impact of the dredging on the residents. Erickson's Excavating did the excavating of the channel and were generous with the final billing. The residents volunteered to restore any damage to the City Easement that provided access to the channel during the dredging.

At the 2016 Annual Meeting, funding was approved for acquiring the property for the SW storm water pond formerly owned by the Witte Family. With the goal of acquiring the property and building the SW Library Lake storm water pond a separate Acquisition Grant and Construction Grant application were submitted to the WDNR on Feb. 1, 2017. The property was purchased in April 2017 and approval of the Acquisition and Construction grants from the WDNR was received shortly thereafter. Currently the Bid Specification Package for the construction of the storm water pond should be let sometime mid-summer with construction starting after Labor Day. This storm water diversion project will eliminate water coming from the top of Hwy 63/48 near Burger King, the hospital and other

locations where the storm water is currently flowing into the SW corner of Library Lake. Last year during the Library Lake drawdown the City Maintenance crews removed approximately 30 dump truck loads of sediment from the discharge location of the main drain culvert draining into the SW corner of Library Lake.

The 2017 treatment for Eurasian Water Milfoil – EWM was completed in late May with whole lake treatment of Cemetery, Rabbit and Norwegian Bays. Several areas were spot treated in the West Lake and Williams Bay. The BDLMD Board and the WDNR are working on developing specific guidelines with respect to when to treat EWM in various parts of Beaver Dam Lake. These guidelines will help determine when to do whole lake treatment for EWM vs other means of removal such as spot treatment, hand or DASH (Diver Assisted Suction Harvesting) removal. This approach should maximize the effectiveness of EWM eradication while minimizing the cost.

There are other activities, projects and programs that I will cover in future articles in the Advocate, at personnel appearances and the July 8, 2017 Annual meeting. These include the Hwy. 63 Bridge study, the Fish Stick Project (see separate article in Newsletter), Moser Field storm water project, Healthy Lakes Initiatives, the Walleye stocking program, Invasive Species both aquatic and land based, the building of the DASH – Diver Assisted Suction Harvester, navigation buoys, boating safety, the BDLMD website (beaverdamlake.org) and continued implementation of the Library Lake Management Plan.

Again as in past letters, I want to thank the members of the BDLMD Board, City of Cumberland Administration, Cumberland Utility Personnel, Barron County Representatives and the WDNR for their continued dedication and support. I especially want to thank the many volunteers that helped throughout the year on the projects that without their hours of hard work would not have been successful. Their response to both planed and instantaneous requests for help exemplifies what small town America is all about. Those that volunteered know who you are and I truly appreciate your support and dedication. I also want to recognize the contractors that supported the BDLMD programs and projects over the past year. They are Edmond Oliver Resources - EOR, Lake Restoration, Barr Engineering, Endangered Resource Services, Erickson Excavation, Desantis Excavating and Underground Utilities and Fitzgerald Excavating.

It was a great year! I hope to see you at the July 8th Annual Meeting.

*Tom Schroeder – President BDLMD*

## Fish Sticks

What are Fish Sticks? No they are not the kind we eat, but the assembly of trees that are installed in our lakes to promote habitat for all sorts of natural creatures from small aquatic insects up the ecological chain to fish, turtles, ducks and songbirds. One of the best things we can do to keep our lakes healthy is to insure that we help protect the food chain for all these creatures that rely on our lakeshore for safety, food and breeding in order to survive.

The best time to build “Fish Sticks” is in the dead of winter. By cutting select trees, hauling them to the lake and anchoring them to the shoreline assures that when the ice melts in the spring the trees will sink into the water and be fully or partially submerged along the shoreline. Think of these trees as being a sunken structure that provides a food chain for the minnows, pan fish and eventually walleyes, bass and northern pike. These “Fish Sticks” also provide a location for protection and breeding. Such a cool idea.

After I attended the NW Wisconsin Lake Conference in Spooner last year, the idea was presented to the Beaver Dam Lake Management District Board and the decision was made to apply for a Healthy Lakes grant which covers 75% of the cost of

installing “Fish Sticks”. The “Fish Stick” project was something we could do on Beaver Dam Lake to help the walleye stocking program of extended growth walleyes have a higher survival rate.

As previously mentioned, the WDNR provides grant funding which helps to pay for the trees to be cut and installed on the shoreline. We are happy to announce that we were awarded the Healthy Lakes grant funding for seven “Fish Sticks”. These will be installed this next winter providing that the ice thickness is of sufficient thickness to support the required the equipment while building the “Fish Stick” structures.

It’s our hope that as you travel our beautiful lake next summer and see the “Healthy Lake” signs on properties where the “Fish Sticks” are placed you’ll take a minute to observe the effort that is being made to keep this lake, one of our area’s jewels. With this effort hopefully the lake will remain a great fishing lake for all to enjoy.

*John Epple - BDLMD commissioner*

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## Water Quality Monitoring

Volunteers around the state measure water clarity, using the Secchi Disk method, as an indicator of water quality. Volunteers also collect chemistry, temperature, and dissolved oxygen data, These measurements are recorded on the DNR website for all the lakes in the state that are currently being monitored. You can go to

<http://dnr.wi.gov/lakes/clmn/> to see the data for every monitored lake in the state.

Beaver Dam Lake - NE Of Eagle Pt At Deepest Section was sampled 7 different days during the 2016 season. Parameters sampled included:

water clarity	temperature
dissolved oxygen	total phosphorus
chlorophyll	

The average summer (July-Aug) secchi disk reading for Beaver Dam Lake - was 17.17 feet. The average for the Northwest Georegion was 8.4 feet. Typically the summer (July-Aug) water was reported as CLEAR and BLUE.

Chemistry data was collected on Beaver Dam Lake - NE Of Eagle Pt At Deepest Section. The average summer Chlorophyll was 1 µg/l (compared to a Northwest Georegion summer average of 17.7 µg/l). The summer Total Phosphorus average was 7.8 µg/l. Lakes that have more than 20 µg/l and impoundments that have more than 30 µg/l of total phosphorus may experience noticeable algae blooms.

The overall Trophic State Index (based on chlorophyll) for Beaver Dam Lake - NE Of Eagle Pt At Deepest Section was 35. The TSI suggests that Beaver Dam Lake - NE Of Eagle Pt At Deepest Section was oligotrophic. This TSI suggests deeper lakes are still oligotrophic, but bottom water of some shallower lakes will become oxygen-depleted during the summer.



**Beaver Dam Lake Management District 26th Annual Meeting**  
**Saturday July 8, 2017**  
**Cumberland City Hall**  
**Cumberland, Wisconsin 54829**  
**Doors open at 9:00AM, Meeting begins at 9:30 AM**

Pursuant to Sec. 33.30 (1) of the Wisconsin Statutes and the by-laws of the Beaver Dam Lake Management District, the annual meeting and budget hearing will be held at the Cumberland City Hall at 9:30 AM on Saturday, July 8, 2017.

**Annual Meeting Agenda, July 9, 2016**

- 1. Welcome and Introduction – Tom Schroeder**
- 2. Approval of 2016 Annual Meeting Minutes – Doris Laursen**
- 3. Annual Treasurer’s Report – Dr. Alan Carlson**
- 4. Audit Report – Mary Biros Rogers**
- 5. Election of Commissioners – Tom Schroeder**
- 6. Update of Storm Water Improvements Project – Jay Michels, EOR**
- 7. Review of District Activities – Tom Schroeder**
- 8. Present Budget for 2017-18, discussion, approval - Dr. Alan Carlson**
- 9. Other items as needed**
- 10. Adjourn**

**Proposed Budget 2017-2018 (over)**

**Approximately 15 minutes following the adjournment of the Annual Meeting the BDLMD will hold a brief Board meeting with the following agenda.**

- 1. Approve minutes from June 8th meeting by Doris Laursen**
- 2. Treasurer’s Report – Dr. Alan Carlson**
- 3. Election of officers**
- 4. Set next meeting date**
- 5. Adjourn**

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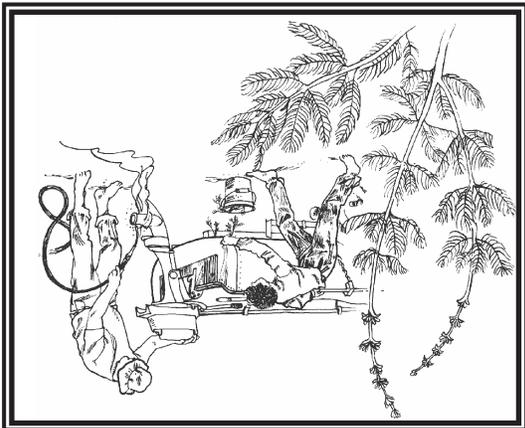
**Proposed Budget**

<b><u>Revenues</u></b>		<b><u>Expenses</u></b>	
Tax Rev. (Est mil rate 0.94)	\$210,723	Mailings, Notices, Mtgs.	\$ 3,000
Grants Remaining		Grant Matches	
<i>LPT-50416 NE Library Lake</i>		<i>LPT-50416 NE Library Lake</i>	
<i>Stormwater Pond</i>	48,662	<i>Stormwater Pond</i>	64,883
<i>LPT 53217 SE Library Lake</i>	6,072	<i>LPT-53217 SE Library Lake</i>	
<i>Stormwater Wetland</i>	200,000	<i>Stormwater Wetland</i>	269,693
<i>LPT 55417 Fish Sticks Project</i>	3,318	<i>LPT-55147 Fish Sticks Project</i>	4,424
<i>LPT SW Library Lake Acquisition</i>	49,852	Milfoil/CLP Control with Plant Surveys	155,000
Transfer from Cash Reserves	49,745	Aquatic Plant Mgmt. Plan-ongoing	5,000
<b>Total Revenues</b>	<b>\$562,300</b>	Insurance	5200
		Boat Landing Monitors	8100
		Fireworks	1,000
		Water Safety	650
		Walleye Stocking	0
		Website Updates	350
		Education/Conference	2,500
		Shoreline Restoration Site	2,500
		Highway 63 Bridge Study	40,000
		<b>Total Expenses</b>	<b>\$562,300</b>

**Beaver Dam Lake  
Management District  
P.O. Box 232  
Cumberland, WI 54829**

Or Current Resident

Help Prevent The Spread Of Aquatic Invasives.  
Clean It Off! It's the Law!!!



**Upcoming Events:**  
**July 8th, 2017 9:30 AM**  
Annual Meeting and Budget Hearing of  
Beaver Dam Lake Management District  
See agenda inside.  
**NOTE LOCATION CHANGE**  
**CUMBERLAND CITY HALL**