

# SHORELINES

## THE NEWSLETTER OF LONG LAKE CLOVERDALE ASSOCIATION

May 2020

### Presidents Corner

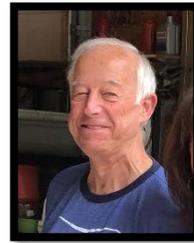


*David Jackson*

I can only imagine your response if I told you March 1<sup>st</sup> what the next 90 days would look like in Michigan, and the world. Wow! My 2020 summer visions for Long Lake were taking shape with campfires, friends, pontoon parties & fireworks. As we moved deeper into March we now had non-stop news of Covid-19, Stay Home – Stay Safe, and social distancing. Long Lake is a friendly, outgoing community and social distancing really was not in our summer playbook. ....until now. As an association, we have to follow state and federal guidance for the protection of our community, but we are hoping we can still have a refined slate of activities that respect well being of our community. We knew this summer would be different. Please be patient with us as we work through the weekly guidance of what we can or cannot do. It is a moving target and flexibility will be required. No Events for Memorial Day: Michigan is still under the governors Stay Home – Stay safe order until the end of the May. Our annual Summer Kick Off at Ackers Point is unfortunately cancelled. We will miss you, but the early weather forecast looks exceptionally good for our weekend. As you likely have been told before - Go Jump in the Lake.....and enjoy!

Celebration of Long Lake is scheduled for July 11<sup>th</sup>. We do not know what restrictions will still be in place, we may need a date change, but your Long Lake Association board is prepared to be flexible. We will not have an Annual Association Meeting this year at Camp Michawana. Instead, videos will be posted online for your information & enjoyment. We will however try to maintain some of our Celebration events. We are planning a poker run – It will be different, no gathering at Ackers Point. Your safety & social distancing remain a priority. We are also considering our annual concert on the lake and fireworks. We feel these events can take place with proper social distancing and keep some of the great Celebration events that highlight our summers on Long Lake. Again, we have to monitor the Covid-19 guidance for our region and solidify those events as permitted. Your donation envelopes will be arriving soon

### Thermal Stratification



*Ken Chandler*

The loss of dissolved oxygen in lake water during the summer months is generally associated with a process that is called thermal stratification. This phenomenon involves the development of temperature “layers”, in which the water near the surface is uniformly warm to a depth that varies throughout the summer. Under the surface layer (referred to as the epilimnion) there is a zone of transition (thermocline) in which the water temperature drops rapidly. From the transition zone to the bottom of the lake is the layer of water that is the coldest (hypolimnion), and the most dense (heavy). During the summer months the coldest layer near the bottom is physically and chemically separated from the surface.

The bottom sediments in biologically productive lakes are rich in organic matter that has accumulated over time (algae and other plankton, and organic soil material). As this matter is degraded by microbes, oxygen is consumed from the overlying water. During the stratification period there may be no opportunity for oxygen to be replenished. Depending on the extent of the oxygen loss, cold water fishery habitat may be reduced. Another possible result of oxygen depression or depletion is the potential release of biologically-available phosphorus from the bottom sediments.

Dissolved oxygen is replenished during the fall, when short days and cool air temperatures cause the lake to de-stratify or “mix”. This process is also referred to as “turning over”. Most lakes turn over twice each year - once in the fall and again in the spring. The degree to which individual lakes

## Presidents Corner cont...

after Memorial Day, but we are very conscious of the fact that many families are in a different financial position this summer. Give if you can, we appreciate your support and we know we have a very generous community. There will also be additional giving opportunities on the donation envelope for community support. The challenge is to build community, but to do so in a safe, friendly environment that supports our Long Lake friends & neighbors in every way possible. It is a different year that few of us will soon forget. But we thought some semblance of "normal" would be welcome this summer.

We hope you have a wonderful Memorial weekend at the Lake! Shot out to all our veterans and front line workers in the Long Lake Community - Thank you - Thank you & thank you! We will miss seeing everyone at Ackers Point, but we have confidence that despite the challenges we face this year, history will repeat itself and it will be another spectacular summer on Long Lake.

David Jackson, President  
Long Lake Cloverdale Association  
dwjackson942@hotmail.com  
269-948-7545

## Weed Management Program 2020 Under the Governor's Executive Orders

It has been an interesting year so far to say the least. As of this writing we are not allowed to have any of the things normally done as part of our management program to proceed. If the executive order is allowed to expire on the 28<sup>th</sup> or modified to the point which will allow our management company to go back to work we can expect the spring survey to be done the first week in June and the first treatment to be applied during the second week of June. At this point we do not know the extent of the recommended treatment because no survey has been allowed yet. Once the survey has been completed and ANPC gives us the treatment date and plan (subject to weather and wind) we will announce on the web site and our Facebook page what is happening and when. The expected treatments at that time will be primarily contact treatments on Eurasian milfoil, some treatment on Northern milfoil, and on pondweed. Approximately two weeks after that we will be treating Cabomba and Starry Stonewort. We expect

## Thermal Stratification cont...

experience thermal stratification depends on the depth and volume of the lake and the orientation of the lake basin to prevailing winds. Annual weather patterns and individual weather events strongly influence the degree and duration of thermal stratification.

## Renew your LLCA Membership

It is time to renew your Long Lake Cloverdale Association membership for 2020. Your \$25.00 donation supports lake improvements, community support, water testing, education and memberships in organizations that support clean water and healthy lakes. We have sixteen board members who are dedicated to a healthy Long Lake with a focus on community. An amazing 65% of Long Lake residents were member of the LLCA last year. Due to Covid-19 cancellations, we will not see you at Akers Point Summer Kick off or the Annual Membership meeting, but your support of your association is needed and appreciated! Please use the LLCA renewal / donation envelope (coming soon), or renew online via our website: [www.Long-lake.org](http://www.Long-lake.org)

Thank you again for your support!

## Update on the Long Lake Drain

Mother nature continues to pummel West Michigan with record rain fall exacerbating flooding on many area lakes, Long Lake included. Last week Thursday we received substantial rainfall and subsequently saw an immediate rise in water levels. We discovered our drain was obstructed and only functioning at 60% (an issue we have seen on a repetitive basis over the years). The obstruction was removed, and we remain thankful to have a functioning drain that will eventually correct our high water. Ken Chandler recently posted some interesting math about our high water: "Adding 3" of rain to our lake of 289 acres



### Weed Management Program cont...

to be expanding the treatment areas on both of these, but will not know where until after the survey. All this being said, if the Governor's executive order is extended another two weeks or longer, the survey and treatment plans will also be pushed out by the same amount of time.

Needless to say, it is not going to be a "normal" summer on the lake this year and the same will apply to our weed management program. We ask everyone to be understanding if there are some areas which seem more infested than normal. We will do our best to deal with it, but with getting a late start this year we may not have as good a control as we would like. I also wanted to address a somewhat common question I have seen popping up on our Facebook group page. Several of you have expressed concern about the proposed drain between Cloverdale Lake and Long Lake. The main concern (although not the only one) seems to be about the flow of weeds and algae from Cloverdale to Long that this will cause. First of all, we have had an unfiltered flow of water from Cloverdale into Long since the early 90's when a 10 inch drain was installed from Cloverdale to Long under a DNR permit. This water was and is totally unfiltered. The new proposed drain while larger than the current one, will have a two stage filtering system to reduce the amount of weed material coming into our lake. The Chain of Lakes group (Jones, Wilkinson, and Cloverdale Lakes) has formed a Lake Association and is starting up an invasive weed management program which will also be a huge benefit to our lake.

Doug Bamfield, Vice President  
Invasive Weed Management Coordinator

### Update on the Long Lake Drain cont...

*equals 23,540,607 gallons. Assuming the exit drain releases 3,000 gallons per minute, it will take 5.45 days to get rid of that 3" of rain. If the pump from Cloverdale lake is running at 1,000 gallons per minute, it would take 8.17 days to reduce the lake level by 3 inches. There is an unknown amount of water that enters the lake from springs and run-off.",*

You should have received a letter in the mail from ENG Engineering who is working with the drain commissioner, seeking input on establishing a legal high-water level for Long Lake. 208.0 was the suggested legal lake level from ENG, however after walking several wet yards and considering our historical water levels from my nearly 30 years on Long Lake, myself and several of your board members feel 207.6 inches is the correct high-water level. We are currently 8 inches above that proposed water level. Long Lake has a continually replenished water supply entering via the Cloverdale Drain, natural springs, and rainfall. These sources help Long Lake maintain a consistent water level; however, this year water is in abundant supply pushing many lakes well over record high water levels, Lake Michigan included. If you want to return the letter to ENG with input, we suggest the 207.6 level. We will have the engineers from ENG at Long Lake next month touring some of those wet yards.

Lastly, Thursday May 21<sup>st</sup> at 6 pm is the public hearing considering the permit request from the drain commissioner to allow water on a short term basis to move from the Watson Drain district, through the Cloverdale Drain District (Chain-O-Lakes & Long Lake) into the Thornapple watershed. This permit requires upgrades and improvements to our drain before any flood water could be moved through Long Lake. The legal high-water level limits the amount of water that can come into our lake. If you want to participate in this public hearing either online or via phone, please follow this link to register:

[https://register.gotowebinar.com/register/8404853106891289101?fbclid=IwAR2qAyVWda1wdHeTMsbgigZEjj5SUr14uR-yr\\_dBK7KMyxZRXv1m\\_gnSN8](https://register.gotowebinar.com/register/8404853106891289101?fbclid=IwAR2qAyVWda1wdHeTMsbgigZEjj5SUr14uR-yr_dBK7KMyxZRXv1m_gnSN8)



## Mark Your 2020 Calendars

- **Donuts on the Dock - Cancelled**
- **Celebration of Long Lake - July 11th** The Celebration of Long Lake will take place on Saturday, July 11<sup>th</sup>. Stay tuned for more information and always check: [www.long-lake.org](http://www.long-lake.org)
- **Taste of Long Lake** – TENTATIVE - Sunday September 6th, 1-3pm
- **New to Long Lake?** If you are new to the Long Lake community, please go to the Members Update page, [www.long-lake.org/member-update.html](http://www.long-lake.org/member-update.html)



Long Lake-Cloverdale Association - PO Box 133 - Cloverdale, MI 49035

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