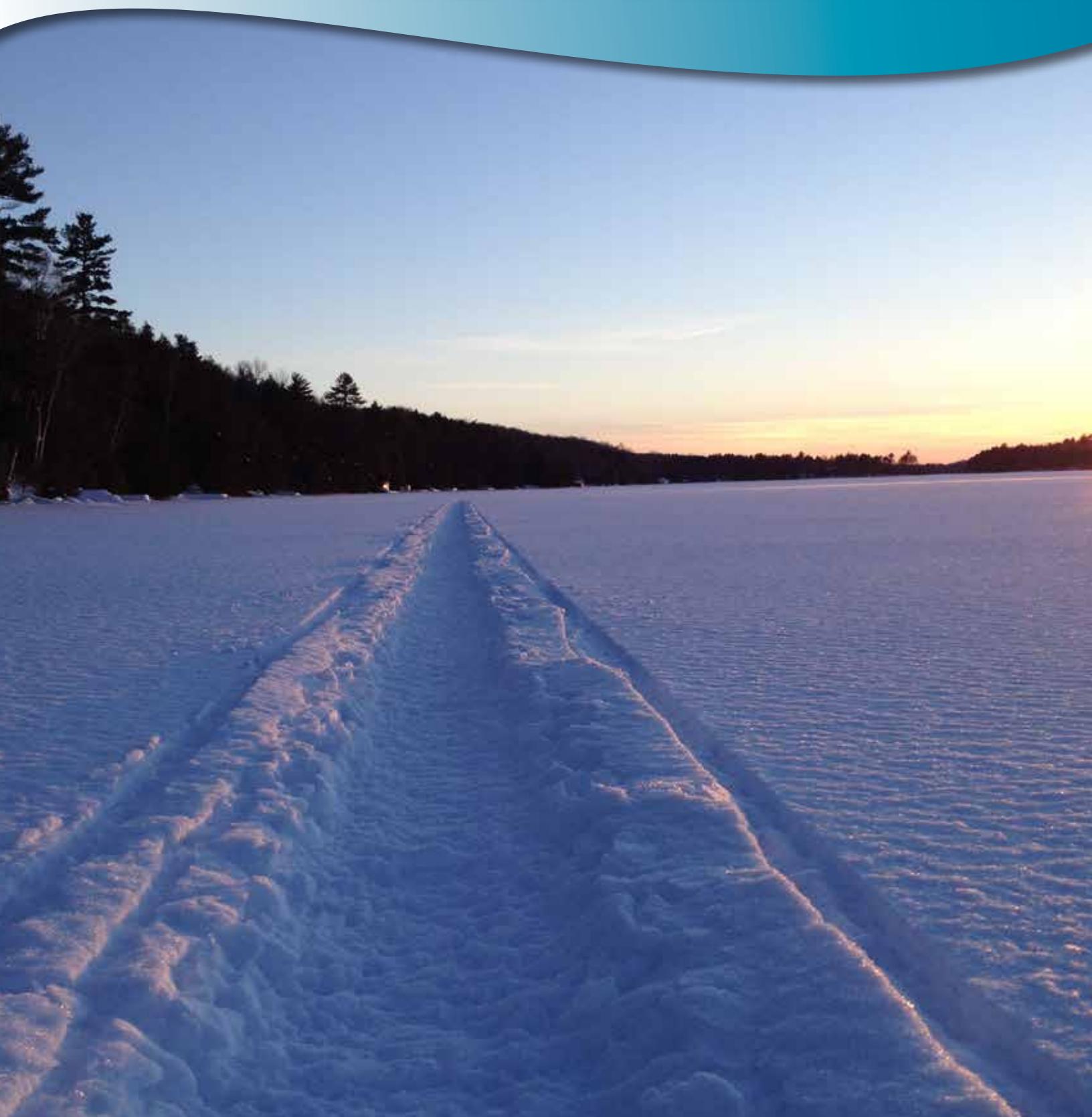




*Lake Kashagawigamog Organization*  
**NEWSLETTER**



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**THE BEAUTY OF WINTER ON KASHAGAWIGAMOG!**

# Greetings From The President

**Winter 2019**

As autumn fades and winter arrives it is time to reflect on the summer of 2019 on Lake Kashagawigamog. The ice finally receded at the beginning of May and after a wet spring we headed into a drought which meant sunny weekends through most of the summer. Good planning and water management resulted in us having above average water levels for the season.

The LKO had a busy summer. We started with a very successful Love your Lake Seminar, our Annual General Meeting, a Cottage Succession Planning seminar with Soyers Lake and FOCA ([www.foca.on.ca](http://www.foca.on.ca)), and another successful Kash Bash. In addition, we deployed our No Wake buoys in the narrows, and this year we also deployed marker buoys at a number of underwater hazards. We successfully followed through on our invasive species testing. We found no new invasive species. We participated with U-Links ([www.ulinks.ca](http://www.ulinks.ca)) in a Benthic Assessment of the lake.

Needless to say, after all of that we were tired. We have a terrific Board of Directors who work all through the year promoting and protecting your interests. Their efforts, help to make your lake safer, healthier and more enjoyable. The Board works closely with our neighbouring lake associations, the CHA ([www.cohpao.org](http://www.cohpao.org),



FOCA, and local politicians to handle the many issues relating to the lake.

We need your help! First, we need you to speak to your friends and neighbours on the lake to get them to become members of the LKO. Together we have a more powerful voice to get things done.

Second, we need volunteers. They say that many hands make light work. Well, we have light work but we need more hands to get it done. We want to continue to put on educational and fun events, improve the health of the lake, make the lake safer, and continue to participate in the scientific research with U-Links and Trent University. Please volunteer some time and help us.

The LKO Board will be meeting over the winter to prepare our plans for the summer of 2020. We want to wish you all a happy holiday season and we look forward to seeing you on the lake next summer.

Sincerely,

*Bob Carter*

LKO President

## LKO Executive 2019-2020

PRIMARY ROLE	NAME	PRIMARY #	EMAIL ADDRESS
President	Bob Carter	905-302-7510	President@lko.ca
Past President	Gary Wiles	705-286-1334	pastpresident@lko.ca
Vice President	Jan Gerrow	902-489-2981	vicepresident@lko.ca
Secretary	Jan Gerrow	902-489-2981	secretary@lko.ca
Treasurer (Advertising)	Jim Bertram	705-457-4697	treasurer@lko.ca
Membership	Wendy Hampson	705-286-6770	membership@lko.ca
Director (Lake Steward)	Glenda Bryson	705-457-9037	lakesteward@lko.ca
Director (Website/Lake Steward2)	Scott MacPhee	705-286-1800	lakesteward2@lko.ca
Director (Social Media/Events)	Kirsten Sixt	705-286-6793	social@lko.ca
Director (Advertising)	John Carter	705-309-0340	advertising@lko.ca
Director (Newsletter)	Jan Gerrow	902-489-2981	newsletter@lko.ca
Director	Rosemarie Jung	705-457-7049	director@lko.ca

## CONTACT YOUR DIRECTORS

Members with questions/concerns are encouraged to contact the Director(s) responsible for that particular issue.



**PUT THIS  
on YOUR  
CALENDAR!**

**LKO Annual  
General  
Meeting**

**SATURDAY JUNE 27, 2020**

**9:00 A.M.**

**Location: To Be Determined**

## HELP WANTED:

*Person with fish identification skills to take on the aquatic invasive species testing. It involves going to specified sites and returning the next day to look at and identify any contents in the minnow traps. There is some heavy lifting required and also your boat gets dirty!*



## Haliburton County Is Looking For Input Regarding Shoreline Protection

Public Consultation Phase 1 - Final day November 30, 2019

Phase One of this public consultation is to gather specific information related to the County of Haliburton proposed Shoreline Preservation By-law.

Information provided by the public will be summarized and reviewed. Your thoughts, opinions and ideas will be used in the development of the first draft of the proposed Shoreline Preservation By-law.

Public Consultation Phase 2 will provide the draft Shoreline Protection By-law to the public through this site. At that time we will again seek your input and comments. Dates to follow.

<https://wadein.haliburtoncounty.ca/shoreline-preservation-by-law>

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**SEPTIC  
INSPECTIONS**

The preservation of our natural environment is an endeavour that we all share. To this end it will be the small individual efforts that will make the difference, natural shorelines and responsible management of our onsite wastewater. The little steps can pay big dividends. A well maintained septic system is a great start. The Municipality of Dysart has put forth an initiative to get the ball rolling by implementing the most robust of any of the Septic Re-Inspection Programs within the County of Haliburton.

**Inspections are a necessary part of the operation and maintenance of a septic tank**



An optimal running septic system is undoubtedly the objective of every rural property owner. However given the fact that the system is completely subsurface, the ability to adequately access a septic system is virtually impossible for the home and cottage owner. Latent defects often can go unnoticed for months or even years, slowly contaminating the earth and water bodies' alike.

**HomePro Inspections** is proud to be one of the approved service providers for the Dysart's Septic Re-Inspection Program.

**READ MORE ON OUR WEBSITE at [www.homepro-co.com/InspectSeptic.aspx](http://www.homepro-co.com/InspectSeptic.aspx) or feel free to contact us at 1-800-832-0519 or 705-455-9055, alternatively email us at [homeproco@gmail.com](mailto:homeproco@gmail.com)**

**Michael Rahme**

# LKO Conservation Award

**Hurry! Time is running out to submit your LKO conservation award project.**

The last day for submission is December 31, 2019. If yours is the winning entry judged by our LKO expert panel you could win:

- \$100
- 1-year LKO membership
- This gorgeous hand painted paddle by LKO member Lori DaRosa and,
- CD by internationally renowned musician and LKO cottager John Sheard

For submission and contest details go to: <https://www.lko.ca/lko-conservation-award>

If you didn't get a chance to do something for this year, consider planning over the winter for next year's contest!



**Be Sure To Visit The  
Lake Kashagawigamog  
Organization On  
Facebook!**

**Consider Using The LKO Facebook Site  
As A Message Board!**

**to inform other LKO members of items for sale,  
lost boats and docks, concerns, births and deaths**

  
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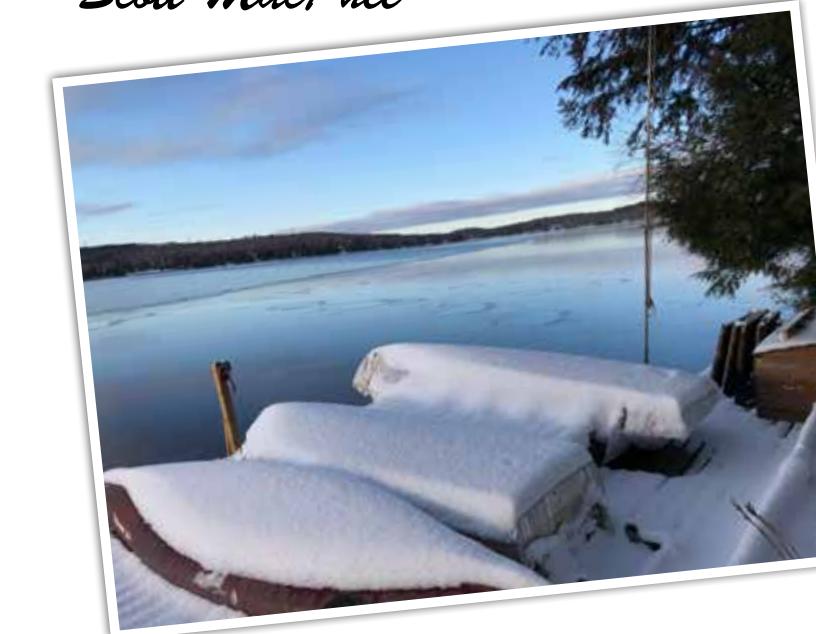
# “New Baby” Buoys

As you may recall, in 2018 the LKO installed six “NO WAKE” marker buoys in the narrows at Marcus Beach and Birch Narrows advising boaters to slow down to improve safety and reduce their wakes. Two speed signs were also installed at Marcus Beach reading in part, Maximum of 10 km/h within 30 metres of shore, which is enforceable by the OPP.

These marker buoy and speed sign installations are to help improve safety in these congested areas and reduce the amount of shoreline erosion caused by the wakes. Our efforts have been successful as it has been reported that more boats have reduced their speed in these areas.

During the 2019 cottage season, we installed six bright yellow marker buoys that identified underlying water hazards (rocks, shoals and shallow water) and were aimed to further improve safety on our lake. A picture of the LKO hazard marker buoy is shown. A map of all LKO marker buoy and speed sign locations can be found on the LKO website at <https://www.lko.ca/lake-kashagawigamog-organization-marker-buoy-locations/>.

~Scott MacPhee



## Ice is Coming

Do you wonder why there are weak spots in the ice? Notice the circular open areas yet by shore it was strong enough to stand on! Photo taken December 4, 2019

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Where Memories Begin!

# Membership Report

We are 163 members strong this year out of a possible approximately 550 lake residents.

## ALL THIS FOR ONLY \$35?

- Free entry and a free McKeck's lunch at the July Love Your Lake seminar (saved \$20);
- Free entry to September's popular Cottage Succession seminar (saved \$10);
- Entry to our wonderfully fun summer's end Kash Bash party;
- Free in depth, colour Lake Health Report by the CHA (saved \$10);
- Free lake water quality testing, lake level monitoring and reporting: <https://www.lko.ca/water-quality-testing-3/>
- Results from studies for invasive species through U-Links and Trent University;

- Rocks and sandbars and narrows marked with LKO buoys;
  - Regular e-blast communications;
  - Spring and Fall colour paper and electronic newsletters;
- And more...!

Your executive does this to protect and enhance everyone's property values! It takes all of us working together so encourage your neighbours to join us.

*Memberships expire December 31st. Please think about renewing your membership NOW online at:  
[www.lko.ca/membership/join-the-lko/](http://www.lko.ca/membership/join-the-lko/)*

*Wendy Hampson*

LKO Membership Director  
membership@lko.ca



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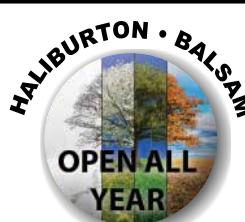
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*Photo by LKO member: Wendy Harrington*

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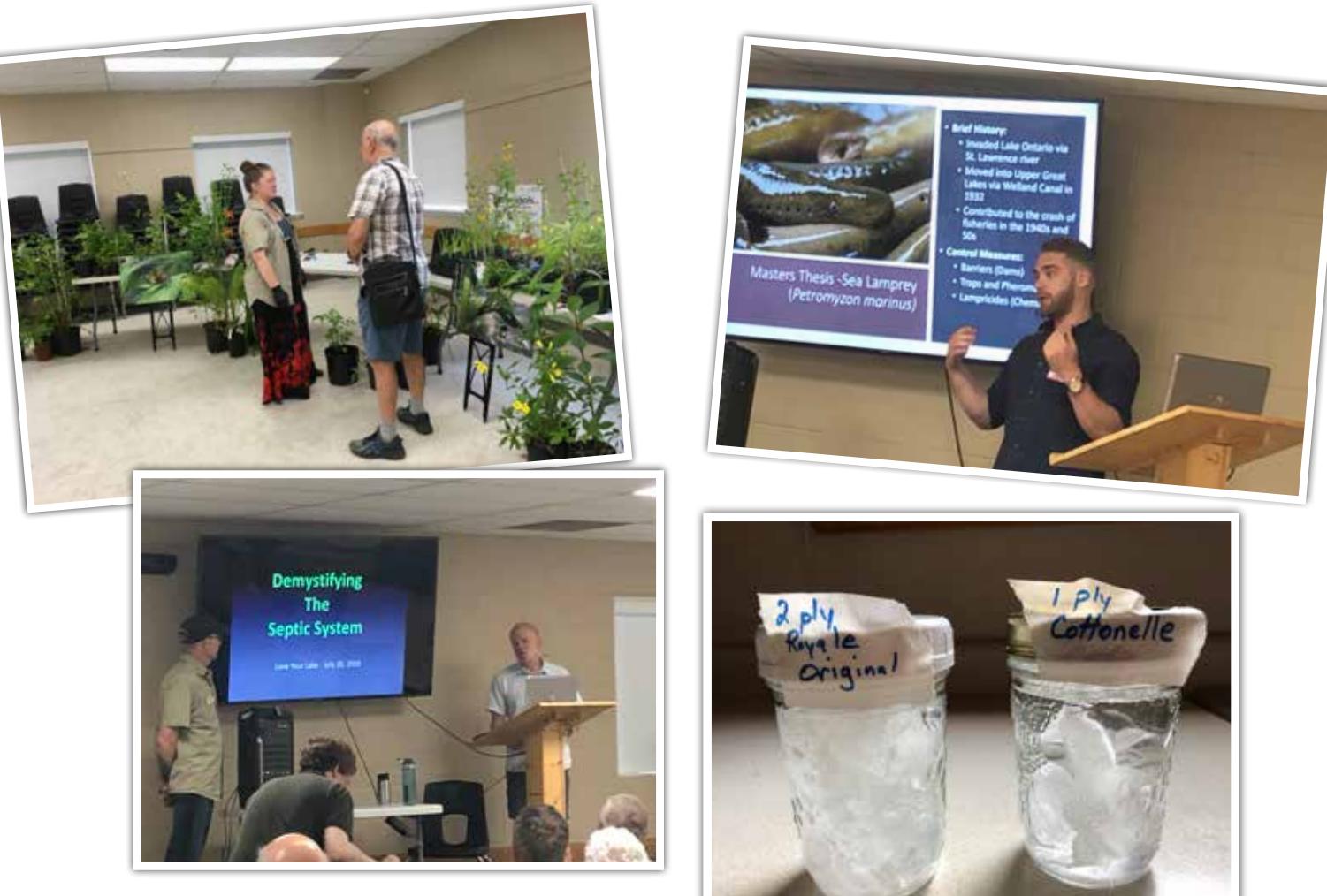
## Love Your Lake Seminar

The seminar was well attended and very insightful on the hows and whys to protect our lake. Rob Davis and Mike Rahme presented very practical information on how to make your septic system most efficient and long lasting. Leaching septic systems due to age, abuse or overuse all contribute to degradation of Lake Kashagawigamog water quality. Do you use toilet paper that breaks down quickly? Try their test ... 1 sheet of your toilet paper in a cup of water; 1 sheet of 2 ply Royale Original in another cup of water. Draw your own conclusions. Try dish, dishwasher and other household chemicals that don't contain bleach/chlorine or phosphates. There are effective products on the market, which have less impact on the water quality. There is lots of information on the CHA website <https://www.cohpoa.org/septic-health/> including the video "Poop talk".

Alexandre Walsh did an informative talk about various aquatic invasive plants and animals in our province and specifically in our lake. Lake Kashagawigamog is less at risk of some invasive species (such as lamprey eels) due to local factors. However, Lake Kashagawigamog does have invasive species

such as purple loosestrife, Eurasian milfoil, rusty crayfish and spiny water fleas. LKO is now testing for Round Goby which will likely be found in the future. Over time, a species that is invasive often becomes resident and displaces the native species. There may not be concern about a small invasive feeder fish today but, it could displace the food source for a lake trout or pickerel in the future. Preventative measures such as optimal functioning septic systems, preventing transfer of invasive species by washing boats inside and outside when boats travel to/from other lakes, and using bait from local stores were recommendations.

Julia Sutton presented on naturalized shorelines and the use of native plants. She had many examples of native plants that could be planted on our shorelines. It is important to leave as much vegetation close to the water as possible, as it is habitat for the animals and filters pollutants from the lake. Filtration of runoff ensures that Lake Kashagawigamog water quality remains high. There is information of specific plants and suppliers that are suitable to this area at <https://www.cohpoa.org/shoreline-health/naturalization-resources/landscapers/>





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## Water Quality on Kash

So what does septic inspections and replacement, shoreline restrictions, and boat speeds have in common? And what do benthic monitoring, water quality testing, shoreline plantings, and shoreline restoration, slow speed zones, boat cleaning have to do with the above? All of these activities are measures to protect the quality of our lake water and allow us to continue to do what we all love about Lake Kashagawigamog. Whether it is swimming, fishing, sailing, wake skiing or sitting quietly, the quality of the water is very important. The most devastating result would be if we had a blue-green algae bloom.

Blue-green algae are microscopic, plant like organisms that naturally occur in ponds, rivers, lakes and stream. They can be many colours from red to blue-green. They form a large mass or scum when conditions are favourable and make the water look blueish green or turquoise. The availability of phosphorus and nitrogen in the water are contributing factors. Sources of phosphorus are leaching septic systems and stormwater/agricultural runoff. They tend to occur in late summer or early fall. Some algae blooms are harmless but some can produce toxins that are harmful to humans and animals.

There have been blue-green algae blooms in Haliburton county but our lake has, so far, escaped. We should be concerned about Drag Lake, Barnum Lake, Soyers Lake, and Grass Lake as well, as they drain into our lake. Blue-green algae toxins have very serious implications. Real estate values often fall, as the lake cannot be used during a bloom (i.e. no swimming, drinking the water, playing in the water). Water treatment systems from shallow wells and lakes, such as UV filter systems are not effective until the bloom ends. There is lots we can do to prevent the growth of blue-green algae.

Use phosphate free detergents, personal care and household cleaning products. Maintain a natural shoreline. Reduce runoff by planting or maintaining vegetation along the shoreline. Don't use fertilizers on lawns, especially with phosphorus & nitrogen. Make sure that your septic system does not leak.

(Sources: [www.ontario.ca/page/blue-green-algae](http://www.ontario.ca/page/blue-green-algae))  
[www.cohpoa.org/shoreline-health/shoreline-plant-search/](http://www.cohpoa.org/shoreline-health/shoreline-plant-search/)  
[www.cohpoa.org/lake-health-3/algae-and-algal-blooms/](http://www.cohpoa.org/lake-health-3/algae-and-algal-blooms/)

### Water Quality Test Results for 2019

OCTOBER 2019

MAY 2019

SITE LOCATION	Coliform MPN Per 100 ml sample	EColi MPN Per 100 ml sample	Coliform MPN Per 100 ml sample	EColi MPN Per 100 ml sample
Drag River at Grass L	-	-	33	5
Bonnie view/Halimar	13	<3	16	3
Wigamog	33	3	43	5
Marcus Beach	28	<3	33	<3
Sayers L. Bridge	19	5	19	8
Control site 130' depth	19	3	<3	<3
Ingoldsby 200' from bridge	13	<3	36	<3
Chateau Woodland	16	3	25	3
Drag River at Head Lake	-	-	55	16
Willow Beach	28	<3	5	<3

See LKO website for test results from 2008 to present <https://www.lko.ca/water-quality-testing-3/>



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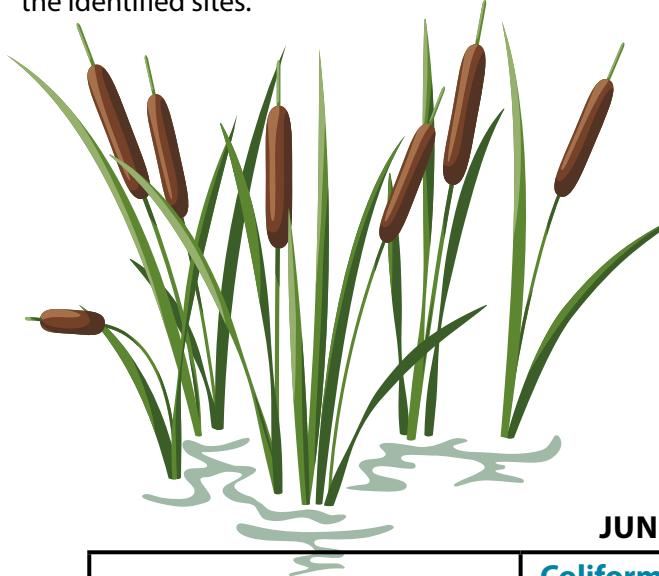
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## Benthic Monitoring

Benthic Monitoring is assessment of the small invertebrates that reside in our lakes. These invertebrates are diverse, generally sedentary and are responsive to environmental alterations. They are good indicators of ecosystem productivity and health. This type of monitoring is done in conjunction with water quality monitoring. LKO has recently started a Benthic monitoring program with the assistance of Trent University Students and ULinks. Students were taken around the entire shoreline of Lake Kashagawigamog to search for undisturbed natural sites of shallow water. Several locations have been revisited and samples were taken of the water. The students then analyze the samples, identifying and counting the species. At this time we have not had a report of their findings but will do so by spring. If this project continues next year, help will be needed to take students to the identified sites.



### Water Quality Testing Summer Months

SITE LOCATION	JUNE 2019	JULY 2019	AUGUST 2019	
	Coliform MPN Per 100 ml sample	EColi MPN Per 100 ml sample	Coliform MPN Per 100 ml sample	EColi MPN Per 100 ml sample
Drag River at Grass L	19	8	263	52
Bonnie view/Halimar	13	<3	132	13
Wigamog	16	<3	375	233
Marcus Beach	19	<3	69	11
Soyers L. Bridge	65	43	43	13
Control site 130' depth	<3	<3	<3	<3
Ingoldsby 200' from bridge	46	<3	46	5
Chateau Woodland	5	<3	16	<3
Drag River at Head Lake	16	<3	39	<3
Willow Beach	19	<3	136	22
			151	3



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We would like to thank everyone who came out to 'Kash Bash 2019'! As usual, the support of the LKO Board and of this event was amazing. Lots of friendships, delicious food (thanks Brad!), great dancing & wonderful music from Gary and the Rough Ideas.

Thank you to our awesome sponsors: ACM Design, Walkers Heating & Cooling, Walkers Home Hardware and especially, Haliburton Hockey Haven Camp for their continued generosity and use of their facilities over the past three years.

This community event is to foster friendship, meet new people on the lake and celebrate the end of the summer on our healthy, wonderful lake, Kashagawigamog!

We will be hosting this event now every other year- so look forward to getting together in 2021!

~ Wendy Yeates, Kirsten Sixt & the LKO Board





[www.cohpao.org](http://www.cohpao.org)

## How Can I Identify a Blue-Green Algae Bloom?

There has been a dramatic increase in blue green algae blooms in Ontario in recent years. As a result many lakefront property owners are very concerned when they see blooms or floating masses which they think could be a bloom. To alleviate unnecessary concerns and to share important information The Coalition of Haliburton Property Owners Associations is providing this fact sheet on how to identify blue green algae blooms and what to do if you do suspect one (info on reverse of this page)

### What is it? Info from MOECP

Blue-green algae are microscopic, plant-like organisms that occur naturally in ponds, rivers, lakes and streams. Although often blue-green, they can also be olive-green or red.

### How to recognize it

Blue-green algae are not normally visible in the water, but populations can rapidly increase to form a large mass or scum called a bloom when conditions are favourable.

Blooms most commonly occur in late summer and early fall. They thrive in areas where the water is shallow, slow moving and warm, but they may be present in deeper, cooler water.

Dense blue-green algae blooms may make the water look bluish-green, or like green pea soup or turquoise paint. Very dense blooms may form solid-looking clumps.

Fresh blooms often smell like newly mown grass, while older blooms may smell like rotting garbage.

Pic and table below from HKPR

### Blue-Green Algae: Get to Know its True Colours



Category 1



Category 2



Category 3

### Blue Green Algae Blooms

	Category 1	Category 2	Category 3
Appearance	The water appears cloudy, but you can still see through it  Particle density can vary greatly in the water column	The water colour appears changed  Algae may be in clusters or balls or flakes in the water, like a pea purée	This is a dense bloom; it may resemble a paint spill and the surface of the water may form a scum  Algae is easily swept by the wind and deposited near the shore
Swimming Precautions	It is unsafe to swim or to allow children to play in water with any dense algal bloom if you cannot see into the water. Wait until the bloom has subsided and the water is clear.  Health effects are not expected at this stage.	Do not swim in a Category 2 or 3 algal bloom, or any bloom which obscures your view into the water. Even if it is not blue-green algae, it is unsafe to swim or to allow children to play in any dense algal bloom, since you cannot see into the water. Wait 24 hours after the bloom has disappeared and the water is clear.  Individuals may develop mild symptoms of skin rash or eye irritation	Individuals may develop mild symptoms of skin rash or eye irritation



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Lake Kashagawigamog and Haliburton County offer many choices of activities for the winter. The winter can be long if you don't have something to look forward to doing. So here are a few ideas:

#### SNOWMOBILING

Check out the trails at <https://www.ontariotrails.on.ca/index.php?url=trails/view/haliburton-county-snowmobile-association-trail>



#### INDOOR SKATING

Check out Dysart arena. Next year, hopefully the lovely new arena will be open in Minden. <https://www.dysartetal.ca/events/2019-12/>



#### CROSS COUNTRY SKIING

Check out the trails at <https://www.skihaliburton.com/>

#### DOWNSHILL SKIING

Check out the hill at Sir Sam's [www.sirsams.com](http://www.sirsams.com)



#### DOGSLEDDING

Check out your options <http://www.winterdance.com/> or <https://www.haliburtonforest.com/things-to-do/dog-sled-tours/>



#### CHECK OUT WHAT'S HAPPENING!

<https://myhaliburtonhighlands.com/whats-happening/>



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"Races" happen a few weekends per summer often followed by getting together for some fun at "Weepers".

It's an opportunity to meet new people, to improve your boating skills and to have a good time.

For more information contact Johan de Greef johan.jdg@gmail.com



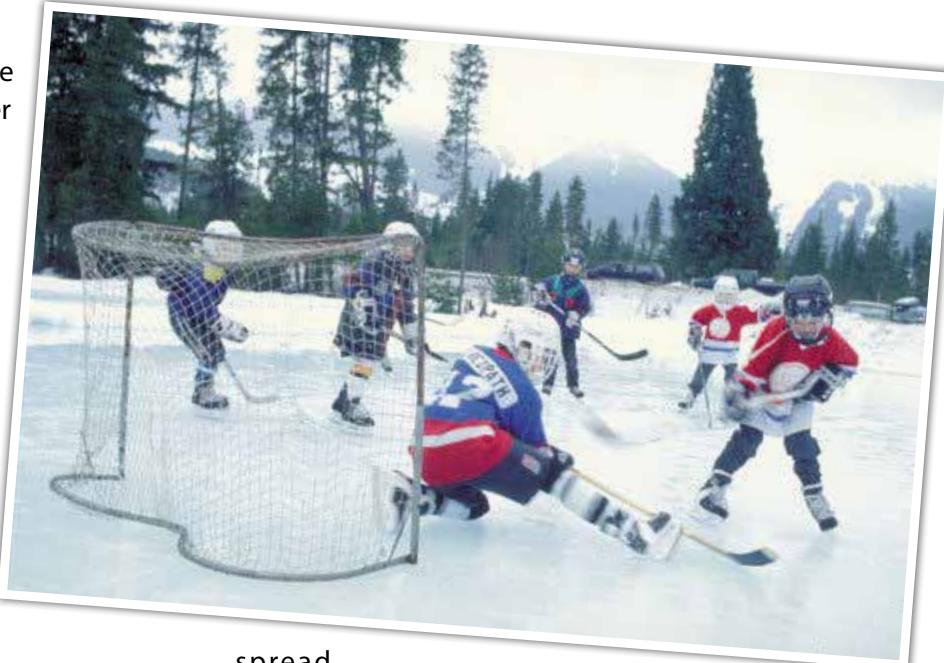
*Jan Gerrow, Photo by: Ross Beers*

## **Know the Dangers of Ice**

### **ICE FACTORS**

Many factors affect ice thickness including: type of water, location, the time of year and other environmental factors such as:

- Water depth and size of body of water.
- Currents, tides and other moving water.
- Chemicals including salt.
- Fluctuations in water levels.
- Logs, rocks and docks absorbing heat from the sun.
- Changing air temperature.
- Shock waves from vehicles traveling on the ice.



spread

out as far as possible to evenly distribute your body weight. Do not stand up! Look for shore and make sure you are crawling in the right direction.

### **When You Are With Others On Ice**

- Rescuing another person from ice can be dangerous. The safest way to perform a rescue is from shore.
- Call for help. Consider whether you can quickly get help from trained professionals (police, fire fighters or ambulance) or bystanders.
- Check if you can reach the person using a long pole or branch from shore – if so, lie down and extend the pole to the person.
- If you go onto ice, wear a PFD and carry a long pole or branch to test the ice in front of you. Bring something to reach or throw to the person (e.g. pole, weighted rope, line or tree branch).
- When near the break, lie down to distribute your weight and slowly crawl toward the hole.
- Remaining low, extend or throw your emergency rescue device (pole, rope, line or branch) to the person.
- Have the person kick while you pull them out.
- Move the person to a safe position on shore or where you are sure the ice is thick. Signal for help.

FROM: The Canadian Red Cross <https://www.redcross.ca/training-and-certification/swimming-and-water-safety-tips-and-resources/swimming-boating-and-water-safety-tips/ice-safety>

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July 31 (2 p.m. matinee)

**HIGHLANDS SUMMER FESTIVAL 2020**  
Performances Aug 2-3 (2 p.m. matinee), Aug 4-6 (7:30 p.m.)

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## Night Skies

Light pollution is created by artificial light at night and includes the glow surrounding cities from above (sky glow), glare, wandering light (or light trespass), excess lighting, and lighting that affects wildlife.

Light plays myriad roles in nature: changing light patterns can disrupt an ecosystem's balance. In water environments, daily cycles for organisms such as zooplankton are controlled by light; while others, such as fish, are attracted or repelled by it. Studies show that moths, fireflies, salamanders, frogs, song birds and other wildlife are affected when artificial nighttime lighting influences navigation, predator-prey relationships, foraging behaviour, reproduction, mating, and other biological and ecological characteristics.

FOCA encourages landowners to help prevent light pollution. Light for necessity Use lights only where and when necessary. Nighttime lighting in cottage country is typically

used for security and walking safety, but too much light can cause a loss of visibility. And if no one's around, lights left on are wasting money and could harm wildlife. Avoid using one big, bright light to illuminate a large area. Studies indicate that crime levels are independent of lighting. Aim lights down and away from water. Choose the appropriate level of light for the task, e.g. path vs. dock. Often, a lower wattage bulb, used in combination with shielded fixtures and proper aim, will effectively light an area—saving energy and improving visibility. Use dimmers and timers. Check that the light will work with a dimmer. Timers work well with decorative lighting and will turn lights off when they are not needed (saving money and reducing light pollution).

Find out how you can have a dark night sky... See <http://foca.on.ca/wp-content/uploads/2013/06/Night-Skies.pdf>

*Abridged from FOCA*

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# Round Goby (*Neogobius melanostomus*)

(Source: <http://www.invasivespecies.com/round-goby/>)



Researchers believe the round goby is linked to outbreaks of botulism type E in Great Lakes fish and fish-eating birds. The disease is caused by a toxin that may be passed from zebra mussels to goby and to birds, resulting in large die-offs of fish and birds (Yule et al., 2006).

## How to Identify Round Goby

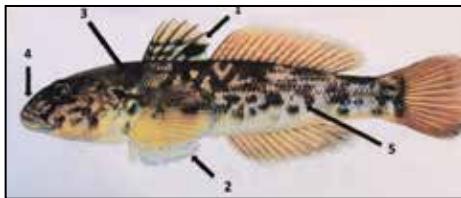
1. Prominent black spot.

2. Fused scallop-shaped pelvic fin as in the second picture below.

3. Body is brownish or olive in color, with dark brown spots. In reproducing males, the body and fins are almost completely black.

4. Nostril tubes do not reach the upper lip.

5. Fully scaled body.



## What You Can Do

- Learn how to identify round go- by and how to prevent the spread of this unwanted species.
- Never buy or use round goby as bait.
- It is against the law to have round goby in your possession.
- Participate in monitoring initiatives in the Haliburton region coordinated by the LKO

If you have any information about the illegal importing, distribution or sale of round goby, report it immediately to the MNR TIPS line at 1-877-TIPS- MNR (847-7667) toll-free any time, or contact the local MNR office during regular business hours. You can also call Crime Stoppers anonymously at 1-800-222-TIPS (8477).

(Source: [www.invasivespecies.com/round-goby/](http://www.invasivespecies.com/round-goby/))

This article was prepared for the Lake Kashagawigamog Organization through a U-links community based research project undertaken by students at Trent University.

## Additional Resources

Round Goby. (2019). In Ontario's invading species awareness program. Retrieved from <http://www.invasivespecies.com/round-goby/>

Ministry of Ontario. (2018). Round goby. Retrieved from <https://www.ontario.ca/page/round-goby>

Yule, A. M., Barker, I. K., Austin, J. W., & Moccia, R. D. (2006). Toxicity of Clostridium botulinum type E neurotoxin to Great Lakes fish: implications for avian botulism. *Journal of wildlife diseases*, 42(3), 479-493.

This article promotes awareness of the spread of the round goby. Currently the northern extent of species is limited to the Bobcaygeon and Lake Simcoe regions. It is important to practice good angling habits to prevent its spread into the Haliburton region.

## Background

The round goby is a small, bottom-dwelling invasive fish. Native to the Black and Caspian seas in eastern Europe, it was first found in North America in 1990 in the St. Clair river north of Windsor, Ontario. Researchers believe the fish was brought to North America in the ballast water of ships from Europe. In less than a decade the round goby has successfully spread through all five Great Lakes and has begun to invade inland waters with rocky and sandy bottoms. Juveniles feed on insects and other small organisms found on lake and river bottoms while adults can eat large quantities of zebra and quagga mussels, and occasionally small fish and fish eggs. Their eating habits and ability to spawn several times each season have helped them multiply and spread quickly (Ministry of Ontario, 2018).

## Impacts of Round Goby

The round goby's feeding habits and rapid spread have impacted native species in Southern Ontario.

The fish compete with and prey on native bottom-dwelling fish such as mottled sculpin (*Cottus bairdii*) and logperch (*Percina caprodes*). Round goby have impacted several species at risk in the Great Lakes Basin, including the northern madtom (*Noturus stigmosus*), the eastern sand darter (*Ammocrypta pellucida*), and several species of freshwater mussels. Further information can be obtained from [www.ontario.ca/page/round-goby](http://www.ontario.ca/page/round-goby).

Round goby have reduced populations of sport fish by eating their eggs and young and competing for food sources.

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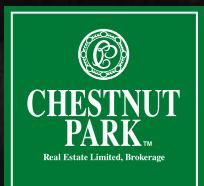
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