

**TOWN OF TUFTONBORO
CONSERVATION COMMISSION**

**June 18, 2018
MINUTES**

Members Present: Steve Wingate, Chairman, Mike Phelps, Vice-Chairman, Lloyd Wood, Selectman's Representative, Mark Howard, Ray Everest, Members.

Members Absent: Nancy Piper, Larry Gil, Kate Nesbit, Members, Ian Whitmore, Alternate.

Staff Present: Lee Ann Hendrickson, Administrative Secretary.

Chairman Wingate opened the meeting at 6:40 PM.

I. Consideration of Minutes

May 21, 2018

Corrections: Page 5, 1st paragraph; change "he" to "she"
Page 4, New Business, 2nd paragraph; insert "Tuftonboro Conservation" prior to
"Commission"

It was moved by Mark Howard and seconded by Mike Phelps to approve the May 21, 2018 Tuftonboro Conservation Commission minutes as amended. All members voted in favor. The motion passed.

II. Discussion Items

A. Moultonborough Bay and Winter Harbor Watershed Plan Kickoff Meeting

Steve Wingate stated the kickoff meeting is scheduled for Wednesday, 6/20/18 at the Tuftonboro Town House at 6 PM.

B. Trail Maintenance

Steve Wingate requested volunteers to inspect the Chandler Trail for maintenance needs to determine what work needs to be done; noting he is aware there are a couple of trees across the entrance.

Mark Howard volunteered to inspect the trail; noting he would report to Steve Wingate his findings.

C. Old Home Weekend

Steve Wingate stated he was asked by Gina Lessard if the Commission would host the scavenger hunt at Old Home Weekend; noting he replied yes (a reply was needed prior to the Conservation Commission meeting).

D. Tuftonboro Milfoil Activities

Steve Wingate stated the Town is close to controlling Milfoil in Tuftonboro. He stated the contractor used previously is the only bidder however, there have been issues with the contractor. He stated weeds have been pulled however, the roots were not being pulled therefore, a chemical treatment is now necessary. He stated the treatment would occur in the next two weeks in the areas of the Town dock and Melvin Village Marina. He noted Winter Harbor and the Basin are down to minimum levels and stated the Town is working with the State for another solution.

E. NHDOT TAP Funding

Steve Wingate stated he would be speaking with Chris Fournier regarding the NHDOT Transportation Alternative Program funding.

F. NHDES Audit, Survey

Steve Wingate stated the NH Legislature is auditing NHDES; noting that any person that has contact with NHDES can participate in the survey. He stated it is important to recognize that the legislature doesn't properly fund NHDES, especially the Wetlands Division.

G. Mirror Lake Protective Association Report

Steve Wingate stated Larry Gil represented the Commission at the MLPA meeting

Lloyd stated the MLPA Annual Meeting was held on 6/16/18 and submitted documents received at the meeting, see attached.

III. NH DES Applications

Gerry Maughn/Joe Pelligrino

18 Edgerly Estates

TM #40-5-18

New Permit By Notification application for temporary impact to allow for the installation of a 1.5" HDPE sewer force main through a narrow wetland crossing; area to be re-stabilized after construction. Reviewed by Steve Wingate; no objection.

Ronald G. Hooper/#2018-01203

Brown Road

TM #68-2-9

NHDES approved the Minimum Impact Expedited application to impact 2400 SF of a forested wetland for the construction of a 16' wide access driveway to a single family dwelling site by the placement of fill materials and the installation of a 30' long 18" diameter HDPE culvert.

Donna Wagner/#2018-00358

12 Governor Wentworth Highway

TM #63-1-7

NHDES approved the Standard Dredge & Fill application to reconstruct a nonconforming dock structure by removing an "L" shaped permanent dock and replacing it with a 10'x50' permanent pier dock and providing a seasonal canopy adjacent to dock location; reducing structure by 94 SF.

IV. Correspondence

- Lakes Winnepesaukee Association sent a thank you letter for renewing the Commission's membership
- Ripples publication
- NHDES information regarding the landfill site
- Society for the Protection of NH Forests; Steve Wingate to call for clarification of notification sent to the Commission

V. Old Business

Membership Appointments

Steve Wingate informed the Commission that Ian Whitmore has notified him that he has moved to Wolfeboro and therefore, is resigning from the Commission. He stated Ray Everest has been appointed as a full member to the Commission.

Libby Park

Lloyd Wood stated the BOS discussed such and noted he would forward the minutes of the meeting to the Commission.

Steve Wingate stated he and Bill Marcussen went to the site to show the BOS what the Commission approved of (trail location) and how the Commission would like to be involved. He stated when they arrived at the site they observed a trail cut out and blazed; noting numerous safety hazards were observed. He stated he feels the BOS should express that the trail was constructed without permission due to potential liability because of the hazards on the property. He stated the trail is located in an area that was specifically requested not to be located to the person in charge; noting that when he spoke to her, she provided a dishonest explanation.

Mike Phelps stated the MLPA typically makes an annual donation to the Libby however, the donation was cut this year.

Lloyd Wood stated the vote relative to withholding the donation was unanimous.

Pleasant Mountain

Steve Wingate stated the Land Bank has asked him (and he agreed) to speak with Ron Hooper about placing a conservation easement on the land.

White Mountain National Forest Centennial Celebration

Steve Wingate stated the White Mountain National Forest is hosting centennial celebration events throughout the year; noting displays can be seen at Plymouth State University.

VI. New Business

Dragons and Damsels in NH

Mark Howard stated the NH Audubon Society has scheduled a presentation "Dragons and Damsels in NH" at the Tuftonboro Central School on 9/13/18.

Lakes Region Planning Commission Annual Meeting

LRPC annual meeting is scheduled for Monday, June 25, 2018 at Mills Falls in Meredith at 5:30 PM.

Mark Howard and Ray Everest asked Staff to register them for the meeting.

Wolfeboro Single Track

Steve Wingate stated Andrew Lester and Andrew Ingram, Wolfeboro Single Track, attended the Land Bank meeting and discussed the construction of single track trails and pump tracks for mountain biking.

VII. Non-Public Session

N/A

It was moved by Ray Everest and seconded by Mark Howard to adjourn the June 18, 2018 Tuftonboro Conservation Commission meeting. All members voted in favor.

There being no further business before the Commission, the meeting adjourned at 7:44 PM.

Respectfully Submitted,

Lee Ann Hendrickson

Lee Ann Hendrickson

Mirror Lake Protective Association: Land Conservation Committee
May 31, 2018

Vision

We envision future generations enjoying Mirror Lake's scenic beauty, clean water and natural habitat for native plants and animals.

Mission

The Mirror Lake Land Conservation Committee's mission is to safeguard our lake, the lake's watershed, scenic vistas and surrounding land through land conservation activities. We will identify, prioritize, and propose sites in the Mirror Lake watershed to the Mirror Lake Protective Association (MLPA) Board of Directors and the MLPA membership for potential acquisition and/or conservation easements pinpointing lots that have significant potential to protect and improve Mirror Lake's water quality and/or provide value for conservation, education, scenic pleasure and recreation.

Guiding Principles

- A. We are committed to integrity in our work with landowners, community partners, donors, funders and volunteers.
- B. We cherish our connection to Mirror Lake's water and land and have a duty to protect the lake, scenery, native plants and animals.
- C. We have a responsibility to future generations to protect Mirror Lake's natural areas and wild life.
- D. We are dedicated to working with neighbors, individuals, organizations, resource agencies and federal, state and local government to help preserve the natural character of the region.
- E. We value our relationship with landowners who have voluntarily entrusted to us the stewardship of their land to benefit future generations.
- F. We believe that a healthy environment and a healthy economy are inextricably linked.
- G. As part of our commitment we will marshal assets to ensure that we are a sustainable organization for purposes of protecting Mirror Lake.

Strategies

- I. We will identify, prioritize and propose sites in the Mirror Lake watershed for potential acquisition and/or conservation easements pinpointing which sites have significant potential to protect and improve Mirror Lake's water quality, and or provide value for and scenic pleasures and recreation.
- II. We will work proactively and cooperatively with landowners, individuals, organizations, resource agencies, and federal, state and local government to protect the entire land ecosystem within the Mirror Lake watershed.
- III. We will work to promote conservation and easement practices consistent with exemplary programs in New Hampshire.
- IV. We will conduct land conservation activities that result in improved health of the vital watersheds and water resources of Mirror Lake.
- V. We will implement a process for refreshing and re-evaluating our vision so that it continually reflects the values of our community and honors the perpetual nature of the organization.

Whereas, at the 2017 annual meeting the Mirror Lake Protective Association (MLPA), the MLPA moved to set up a committee led by Ann Torregrossa to explore how, as an organization, [it] could work with the land owners that have undeveloped property and ... [to make] recommendations as to what [it] can do, and

Whereas, the committee has met for a year and researched the scope, structure and governance of such committees and proposes that resolutions be adopted by the MLPA to formalize the scope, responsibilities and guiding principles of the proposed MLPA Land Conservation Committee,

Now, therefore, be it

Resolution Establishing the MLPA Land Conservation Committee

Resolved, that the Mirror Lake Protection Association (MLPA) formally establish a MLPA Land Conservation Committee and authorize the Board of Directors to oversee the scope, responsibilities, and guiding principles of the MLPA Land Conservation Committee, the members of which Committee shall appointed by the Board. The Board shall designate the Chair and approve the membership which shall be comprised of no fewer than five (5) or greater than ten (10) members of the MLPA. The members and Chair shall serve for two-year terms. The Board of Directors shall charge the Committee with establishing and implementing a Mission Statement, Guiding Principles, Strategies, and Land Conservation Criteria, hereinafter "Operating Principles", which shall establish and govern all of MLPA's land conservation activities. Such Operating Principles may be revised, from time to time, by the Committee and submitted to the Board for approval. The initial Operating Principles shall be submitted to the MLPA membership for approval. The Committee Chair shall report activities of the Committee to the Board and, annually, to the MLPA.

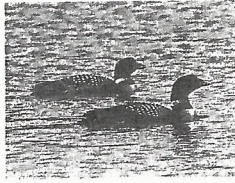
Resolution Establishing the Operating Principles of the MLPA Land Conservation Committee

Resolved, that the members of the Mirror Lake Protection Association (MLPA) approve the Mission Statement, Guiding Principles, Strategies, and Land Conservation Criteria, hereinafter "Operating Principles" of the MLPA Land Conservation Committee, as presented at this annual Meeting, and that such Guiding Principles may be revised, from time to time, when proposed by the Land Conservation Committee and approved by the Board of Directors.

Application of Deposits in a Special Bank Account

Resolved, that the Special Bank Account, which was established to facilitate deposits and withdrawals of grant funds, is hereby designated the MLPA Land Conservation Account and authorized to be used solely for the implementation of the MLPA Land Conservation Committee's Operating Principles. Currently on deposit in such account is approximately \$7,600. Such account shall continue to be used as the depository of grants, donations, contributions, etc., in furtherance of the Land Conservation Committee's Operating Principles, provided, however, that this is not intended to be the Committee's exclusive source of funds or preclude the Committee from requesting funding from MLPA's general account. The Land Conservation Committee shall propose the use and application of funds in the account, from time to time, and request that the Board of Directors approve such use and application in accordance with the Operating Principles of the MLPA Land Conservation Committee.

Lloyd Wood



**MIRROR LAKE PROTECTIVE ASSOCIATION
P.O. BOX 311
MIRROR LAKE, NH 03853**

<http://www.mirrorlakenh.org/membership-support>

Mirror Lake Watershed Resident:

Welcome back to the summer season on Mirror Lake. The loons are back, the weather is warming up, activity on the lake is increasing and we are all looking forward to welcoming family and friends to our beautiful lake.

PLEASE NOTE THE NEW MEETING LOCATION AND EARLIER DATE

It is time for the annual meeting on **June 16, 2018 starting at 9:00 AM** at the **Tuftonboro Fire House** to discuss our accomplishments, on-going activities to protect our lake, and issues that confront us as residents of the watershed.

Enclosed are the following:

1. Notice of Mirror Lake Protective Association Annual Meeting (**June 16, 2018 at 9AM**)
2. Copy of minutes from last year's meeting
3. Envelope for you to return your tax-deductible contribution for membership or provide support for on-going activities to maintain and improve the water quality of Mirror Lake.

We look forward to seeing you at the annual meeting.


Gene Kelley
President

Notice of Mirror Lake Protective Association Annual Meeting

Saturday, June 16, 2018 - 9:00 AM

The Tuftonboro Fire Station

(On Route 109-A, approximately ¾ mile from Town Hall, 177 Middle Road)

PLEASE NOTE THE NEW MEETING LOCATION AND EARLIER DATE

Why are you invited? You reside, own property or a business, or have expressed an interest in Mirror Lake's watershed. The watershed is approximately, 2,160 acres and includes properties from Poor Farm Hill to the south and Bennett Hill to the north. There are, approximately, 324 properties in the Mirror Lake watershed located almost equally in the Towns of Tuftonboro and Wolfeboro.

What are the issues? The Mirror Lake Protective Association (MLPA), members and friends continue their efforts to reduce the phosphorus in Mirror Lake in order to prevent any recurrence of the cyanobacteria blooms which occurred during the swimming season in 2007. Grants, member donations and volunteer efforts have permitted the identification of the sources of the excess nutrients in Mirror Lake which caused the toxic cyanobacteria blooms. Low Impact Development projects including bio-retention cells, rain gardens and other infiltration and stabilization projects on properties located on Mirror Lake Drive, Governor Wentworth Highway, Church Lane and Oak Hill Road to reduce the flow of storm water to capture sediment before it runs into the lake were instituted and continue. Improvements to the Route 109 boat ramp have been completed.

2018 Agenda: At the Annual Meeting we will:

1. Make every effort to keep the meeting as short as possible so you can return to your enjoyment of our beautiful lake.
2. Introduce the current officers and Board members for MLPA
3. Discuss the current status of water quality in the lake. Dick and Nancy Byrd, who are retiring, have graciously offered to train and equip the person(s) who will replace them in monitoring of water quality. **We need volunteers to continue this vital service.**
4. Talk about the Weed Watcher and Lake Host programs and our relationship with the Lakes Congress which oversees all programs impacting the Lakes Region.
5. Provide an update on our loon population and efforts to provide a safe environment for these beautiful birds.
6. Provide an update on water levels and efforts being undertaken to monitor it regularly against state benchmark levels.
7. Discuss public outreach and educational activities.
8. Discuss the planned sale of the Hersey properties, Tuftonboro Conservation Committee efforts to increase conservation land along the lake and the role for MLPA.
9. Update on and discussion of the latest developments regarding the Rapid Infiltration System.

How can YOU help?

Participate. Attend the meeting (date and time above). In addition to needing volunteers for water quality testing, we continue to need volunteers to complete the grant requirements and to help undertake the remediation actions. If you are interested in a committee head, officer, or directorship position, please go to MLPA's web site at: www.mirrorlakenh.org, and "Contact Us". Or, email Kathy Sciarappa who is chair of this year's nominating committee. kathleensciarappa@gmail.com Thank you.

Join or Renew your membership. Membership is: \$25 Regular Member; \$50 Supporting Member; \$75 Sustaining Member; \$100 Benefactor or any other amount you can **contribute to the efforts to improve the quality of the water in Mirror Lake**. Corporate matching gifts and trust fund donations are welcome. Make your generous donation to: MLPA and send it to **Mirror Lake Protective Association**, P.O. Box 311, Mirror Lake, New Hampshire 03853. We have included an addressed envelope for your convenience.

For more information about Mirror Lake or MLPA, see www.mirrorlake.org. You may also join or renew on line at:

<http://www.mirrorlakenh.org/membership-support>

MLPA is a 501(c) (3) non-profit organization and all contributions are tax-deductible, to the extent allowed by law. MLPA's Federal ID #: 02-0450541.

We look forward to seeing you at the meeting. Thank you for joining and for your contribution.

Officers and Board of Directors
Mirror Lake Protective Association

MLPA ANNUAL MEETING NOTES July 22, 2017

Meeting was called to order by President Gene Kelley, at 9:06 AM. Introductions and welcome remarks were made. Secretary read statement, motion to approve 2016 minutes carried.

Lloyd Wood, Chairman of the Tuftonboro Board of Selectman: made introductory remarks, and updated the group on the Lang Pond reconstruction project. The total cost for the project was originally projected to cost \$475,000. After a number of years and numerous revisions, the project was finally approved by town voters this year and budgeted for \$160,000. Proudly the project was completed for roughly \$140,000. Mr. Wood thanked Nancy and Dick Byrd, who for many years have conducted water testing for the Mirror Lake community. Dusty Davies was also recognized, as was Gene Kelley. This Mirror Lake Association has made a difference. Larry Gil, one of our MLPA board of directors, is working with Dave Ford, Director of the Wolfeboro Public Works Department, on a study to assess the impact of pharmaceuticals on water quality. DES, the state police, the marine patrol, etc. all love dealing with Tuftonboro; there is no waiting, we'll work with them, we don't shoot our mouth off to the press on local issues. The Tuftonboro Conservation Commission has promoted the testing of private wells for water quality including the presence of Arsenic, a serious health risk. All residents are urged to periodically have their wells tested.

Homeowners can get rid of household hazardous materials with the state for free ... the specifics can be found on the town website (<https://www.tuftonboro.org>). It was also noted that a piece of dock has floated into the Mirror Lake outlet channel that flows into Lake Winnepesaukee.

This year, the Rt. 109 Boat Launch is scheduled to be revamped by the town of Tuftonboro through a town warrant article. Jeff Whitney, a contractor in town has agreed to do the work. A proposal and design, including an engineering plan, have been developed for improvements to the Mirror Lake boat launch. The boat launch as it currently is configured poses threats to the lake through the introduction of sedimentation and phosphorus during rain events. The projected cost of \$9,206 includes design paving, sealing, and concrete; there will be no paved surfaces into the lake. It was noted that the MLPA is not involved financially in the Rt109 boat launch improvement project.

The improvements are projected to reduce the phosphorous loading to the lake. The state district Highway department has also contributed by directing road runoff drainage away from the ramp, and is also working drainage projects at the narrows by the Mirror Lake Church. We will have better signage re: parking. We need to make the area safer, and it will be with the improvements. The Police Chief is working with us, and with other launches like 19 Mile Bay, to improve safety.

Steve Wingate, the conservation commissioner, couldn't be here at this meeting. Introductions were made, and it was noted that the nominating committee will meet at the end.

Mirror Lake Good News: as of this morning, utilizing the newly established benchmark at the new Lang Pond culvert, the Lake elevation was measured at 509 feet above sea level; that is the elevation that the state of NH uses for the normal mean high water for Mirror Lake. The lake level is where it is supposed to be. Evaporation will also cause the lake level to go down. We can all monitor the lake level. We are five feet above Winnepesaukee at present.

Lake Host program: Larry Gil reported that there has been a Lake host program in NH since 2002 and since its inception has conducted over 850,000 interviews. The Lake Host™ Program is a courtesy boat inspection program administered by NH LAKES in cooperation with local participating groups like MLPA to prevent the introduction and spread of aquatic invasive species, plants and animals, from waterbody to waterbody. Over seventy percent of invasive plant species affecting our lakes have come in on boat traffic.

The program reports more than 1,550 'saves' of aquatic invasive plant or animal specimens that were about to enter or had just left a waterbody.

Infestations of invasive species such as variable milfoil and Asian Clams in our waterbodies are undesirable because: they make recreation in and on the water dangerous and unpleasant; they disrupt the ecological balance of waterbodies; they reduce shoreline property values; and they are difficult and expensive to control.

NH has employed the Clean Drain and Dry program for preventing the spread of aquatic invasive species. Our Lake Host Program has four volunteers - Larry and Eileen Gil, Louise Herrick, and Beth Urda. Marianna Pallidino our paid lake host inspector is a student at Kingswood High School. Volunteers are important because we apply for and receive a grant based on our ability to provide an "in kind match". This year (2017) we received \$1,450 dollars. The primary time transient boaters come to Mirror Lake in is on the weekends. This

year to date, we have conducted 45 interviews on weekends providing much better coverage. No invasives have been found on any of the boats inspected so far this year. Primarily fishermen come in at the launch; the rest are families coming in for the summer. Fishermen come and go from lake to lake up in this region. Fishermen have low impact, Dusty notes. Mirror Lake does not have a lot of boat traffic, it's quieter than some other lakes. We have no milfoil now – we do have purple loosestrife and Chinese mystery snails. Weed watchers tell us they are all over the lake.

Lang Pond Road access to Mirror Lake: The area by the beach was regraded, so that it can't be readily used as a boat launch; also raising the grade helps with phosphorous abatement. It can be used to bring in kayaks or canoes. However, we want to discourage people from using the perched beach as a boat launch – the sign is still there. Dusty and Larry say that signage will improve; it will get done. Beavers? Haven't seen them. Gene says that issue couldn't have been handled any worse last year. There are beaver grates up now to discourage dams at the culverts, which could impede flow into the lake. The elevation of the outlet is above where the beavers built the dam; the beaver dam was below the level. Lake level was so low last year, the beaver dam was irrelevant at the outlet. The concern should have been at the inflow; the beavers can wall up the inflow. People take the grates out; road agents put them back. Beavers can damage the trees and growth around the lake.

Weed watchers: Weed watchers are dedicated volunteers ... and include Nancy Byrd, Larry Gil, Julie Tryder, Norma Mille, Genie Fried, and new member Tina Urv. Weed watching is a once-a-month commitment, and encourages noticing more wildlife; interesting photos can be seen on our Facebook page. Conditions change month to month, year to year. Down by the boat ramp, we see prolific aquatic plants. Swamp candle is also called yellow loosestrife and is a native plant. We are encouraged to take a snip or a take picture of a plant or animal what we have that we don't recognize; Norma will send it to DES for ID. Variable Milfoil is an invasive and potentially devastating due to the physical impacts and the cost for removal. Melvin Bay and Back Bay have it or had it; they are dredging it with divers.

Loon monitoring: Beth Urda noted that loons don't like the eagles, or fireworks. They laid two eggs about the 30 of June; expecting good things next weekend. Beth and Larry put in the nest every year, and maintain it; our lake only tolerates one loon couple. We applaud Beth and Larry for their work. At the end of the season, loons begin to migrate.

Mirror Lake Quality Report: Overall the quality of Mirror Lake is pretty good. It is currently classified as a mesotrophic lake - meaning that it shows some evidence of excessive nutrient growth primarily with respect to the nutrient phosphorus. The phosphorous goal ... our target is 8.5 micrograms per liter. Phosphorus levels greater than 8.5 micrograms per liter have been associated with outbreaks of cyanobacteria (see Cyanobacteria in New Hampshire Waters ^{A-1}) (Fact Sheet WMB-10) Nancy showed the location of the outlet, where population is and isn't. Oak Hill is the highest elevation; runoff can come in from high elevations. She showed where she samples – at the Beach inlet, Libby Cove, and at the lake's deep area.

Where do we stack up? Winnepesaukee is of some concern. Over the years, phosphorous was very low, then climbed to over our goal, and is now an oligotrophic lake. Now we are approximately at our goal. Three sets of data are shown in Nancy's slide. The Volunteer Lake Assessment Program (VLAP) data is from Beth's sampling. Compared to last year, the numbers were running well above eutrophic levels. The mean number was 39; something happened in Waumbeck that produced a huge anomaly in the data. Deep site data from deepest part of the lake is monitored every month. In compiling data, the UNH depends on grad students.

Looking at the 2016 data, a lot of higher numbers are shown at the bottom of the lake. Looking at the state median, we are a little better than the average in 2015; 2016 was drought. Shallow sites data show variations around the lake. At the Hersey cove, the median was 7. The 2016 numbers are not too bad. Mirror Lake Drive was over 10; the boat launch was over 10. Conclusions: we need to be vigilant, keep continuing to work at keeping phosphorous levels low. Val noted that the average of inlet data shows in red; inlet information getting better over last couple years, and is on a downward trend. Last year was anomalous; levels are trending downward which is what we want. Inlets coming in by Lang Pond Road (LPR) are trending downward showing that what Wolfeboro has done is paying off, it appears. But we need to wait to see what is happening. Dusty noted that most of the phosphorous is coming from the Land Pond Road inlet, which is why we targeted LPR. It has to continue to be a target area. The boat launch had phosphorous levels over 10; as controversial as it has been, enhancements should reduce phosphorous levels also. Lake turns over every 2 ½ to three years. A lot of springs are feeding the lakes also. We are close to the levels when we had cyanobacteria blooms; we need to be vigilant. Highest numbers last year were by the boat launch, Bodes Inlet and Mirror Lake Drive. John Dawson asked whether we know if the phosphorus is coming from the area above the lake? The answer is yes, it is a concern, from Waumbeck. Greatest concern. If we're being fed phosphorous from the farm area directly above us. Later in the season, levels will go up. Marsh areas do absorb the phosphorous, providing a natural buffer. An absorption barrier, lots of plants in the marsh. Last year, nothing disturbed the bottom of the lake, no rain meant little phosphorous from that source.

Gene Kelley: As stewards of the lake, what can we do to abate the phosphorous levels? Be vigilant about fertilizers ... think twice about fertilizer, maintain natural vegetation, paved areas ... abate water into the lake. Re: septic systems, are they maintained, are they pumped? We as individuals have control over these things. We can put green or red dye into toilets to trace whether it is permeating. We have some issues with property owner resistance.

Much gratitude is owed to Dick and Nancy, that words can't express. They would like to pass on responsibility for water monitoring. Dick devised an integrated water sampling system, and MLPA is looking for volunteers (even though Dick and Nancy are irreplaceable). We do think lake quality is improving; we need vigilance to continue to keep it up. The MLPA recognized Nancy and Dick's extensive and important contributions to Mirror Lake water quality.

Rapid infiltration system: Located in Wolfeboro, close to the Wolfeboro / Tuftonboro town boundary, is a series of sand filter beds designed to receive and release treated wastewater effluent into the Nineteen Mile Brook Watershed. The treated effluent is pumped into the sand filters and allowed to pass through the filter media and then into the underlying sand and gravel aquifer of the Nineteen Mile Brook Watershed. The objective of the process is to filter and treat the effluent to meet both State and Federal water quality standards for a number of pollutants. Initial testing indicated some breakouts where the effluent wasn't making it to the aquifer, violating various laws. Wolfeboro is spending money to monitor this. The Nineteen Mile Brook Watershed is adjacent to our watershed and may be hydraulically connected. Pharmaceuticals and other unregulated pollutants are the primary issue, in Larry Gil's opinion because they are known to pass through the sand filters and can bio-accumulate (migrate up the food chain) presenting both environmental and health concerns. Larry Gil is very encouraged by the recognition by the cooperative relationship with the town of Wolfeboro. Working with Dave Ford, Director of the Wolfeboro Public Works Department, the United States Geological Service (USGS) is hoping to coordinate a study with Wolfeboro and Tuftonboro to assess these kinds of problems. Issues like these are hard to assess, hard to regulate, the pollutant concentrations are very small.

Lakes Congress 2017 / Wolfeboro water summit: Meeting of everyone interested in NH's lakes. Larry went over the agenda/ topics of interest. A day-long meeting, 300 to 400 people, open to the public, a very good program. Jay Nickols author of Blue Mind: The Surprising Science That Shows How Being Near, In, On, or Under Water Can Make You Happier, Healthier, More Connected, and Better at What You Do was the guest speaker; he was very good. He discussed how people respond positively to water; this was a beautiful setting for this meeting. For the first time this year, the Wolfeboro Water Summit addressed all the things we've been talking about. The Lake Wentworth Water Association leads this; they buy land up to protect Lake Wentworth. The information is directly pertinent. This provides us an excellent opportunity. They didn't address Wolfeboro waste disposal, though, they have monitored the effects of climate change, losing control of natural water, front and center.) Three issues – what we can do personally, what we can do as an association, and which compromises we need to make with Lang Pond Road and the boat launch. We've done what we can do as a Watershed association, anything else has to come from the town level. Next step will be community wide, involving all of Tuftonboro, and the other watershed committees. We need a wider participation of people addressing issues and monitoring water quality.

Re: Lang Pond Road and the gap in paving, Lloyd Wood is advocating to pave the gap. The culvert is done. We need to take down the boat launch sign.

Exploring land conservation opportunities: Steve Wingate couldn't be here. Apparently the Hersey estate has been settled; this is a fine time to get into it and ask what about acquiring a conservation easement. The 96 acres at end of MLD are in conservation, which leaves 23 acres, available for development, but the current owner is not interested in development at this point in time. Zoning laws will help restrict any future development. We can work out deals that include conservation, to protect the lake. How it's developed is important. The Tuftonboro Conservation Commission is working on these issues. People can help out. Steve Wingate is very active. Motion: we set up a committee led by Ann Torregrossa to explore how we can as an organization work with the land owners that have undeveloped property and the Tuftonboro education committee to come back with recommendations as to what we can do. Vote all in favor, so moved.

Bill Tryder – update on membership status: We have 51 paying member households - 41 lakefront, 3 access, the rest "other". In Tuftonboro, we have 31 paid members, 21 seasonal; in Wolfeboro, we have 18. There are a potential 105 lakeside residents, so we still have 60% not paid. We are encouraged to talk to our neighbors, this is an effective way to reach out. We do blast e-mails; our websites are visited. Increasing and engaging the membership is important. We should think about putting an electronic survey on the website – what should be done to increase the membership, what issues should be discussed? E-mails are going out to people, and our mailing went out to 200 households – with a letter and addressed envelopes. Lot of people "live free or die"; in a rural town, they don't like to be held to any standard that they see as infringing on them; this group needs to explain how it is in all of our interests to be involved. Provide info on grants and/or low interest loans. Septic systems have to be upgraded on property sales when the septic is not to standard; this is not happening now. It is required only if property is expanded. Bad septic systems kill trees in ten or fifteen years. A serious insect pest called the wooly adelgid has been found in Hemlock trees in Tuftonboro. The wooly adelgid appear as tiny beads of white fluff on the hemlock needles, over time serious infestations have been known to kill the trees in 5- 10 years. We should post a picture on our website. Need to figure out things that are fun, that will draw people, such as the weekly rafting at Mirror Lake Estates; we can post photos on our Facebook page.

Bill is tracking traffic to our website; he sees spikes in visitors after blast e-mails. www.mirrorlakenh.org

He posts educational materials, with blue links to documents being discussed, which can be read on line, printed or downloaded. "Members only" is a page that does require a password; information is posted internal to our group, such as minutes. Once you put the password in once, it stays active. MLPA Facebook is a fun group. No snark, a great group of people. A good way to keep up to date. The page is monitored. Post your great pictures, advertise events. Bill was recognized by the group for doing a great job.

Treasurer's report: Kathy Marien reported the net result between accounts – we have a total of \$38,000 (in round numbers) in the bank. From August 1 2016 to July 31 2017, we collected \$7,183 in membership dues, not including clothing sales. We spend less than \$1,000 a year for administrative expenses. Last year spent, we spent \$5,000 for the Lang Pond project. We have about \$7,600 for conservation, if voted on and approved. One member gives a very large contribution every year; we also have a couple that give \$500 or \$600/ year. Any opportunities to buy clothing? Ginny Cole distributed clothing order blanks, and described what is available. We now have full zipper hoodies, both for men and women. Another new thing is a vest for winter. The vest and the hoodie have pockets for electronics. We also have a fishing hat/ adventurer's hat, SPF 50, which is great for fishing; the hat will float. We also have a terrycloth headband, and a chin strap, available in two colors. Hand towels also are available, great for your guest bathrooms. All of these items make great gifts. We sell on the website at very little profit. Check on the MLPA homepage. Also pendants with images of the lake are available, with a diamond chip inserted to show where your house is. The clothing sale will show up on homepage. Checks should be made to MLPA.

Kathy Marien went over the donations that MLPA makes to the Libby Museum, Loon Preservation Society, etc. Motion to continue the donations was made, seconded, voted on, carried.

MLPA officers have agreed to continue serving. Re: Board member nominees, we do have two running. Dusty Davies and Larry Gil were each nominated for another 3-year term, moved and seconded, and all approved.

Gene called Dusty Davies forward. Dusty has been referred to as the person who single-handedly saved our lake, we cherish her; she was presented her with a lake charm as a token of our gratitude. Dusty thanked us all for our participation.

The meeting was adjourned.

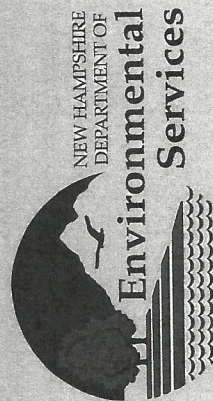
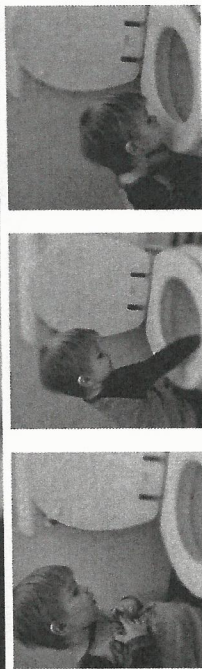
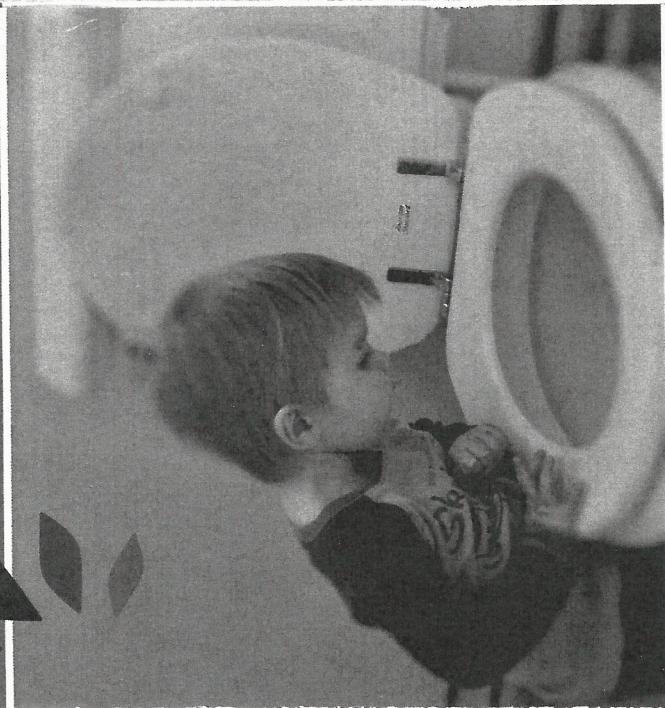
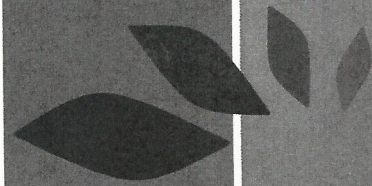
Respectfully submitted

Marilyn Edelhoeh, MLPA Secretary

WHAT'S
IN YOUR
WATER?



What's
FLUSHABLE?



SEPTIC TANKS

How do they
work?

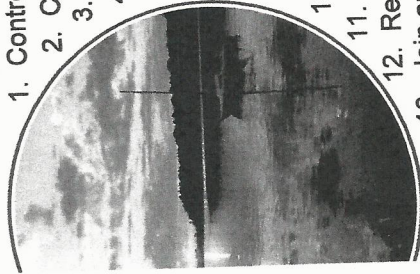
*How do you
maintain them?*

Mirror Lake Protective Association
P. O. Box 311
Mirror Lake, NH 03853-0311
info@mirrorlakenh.org

A Laker's Dozen

13 ways you can help Mirror Lake

1. Control storm water run-off with plantings, grading, ditching, etc.
2. Cultivate a wooded shoreline buffer - deeper roots slow the flow.
3. "Retire the rake and save the lake" - limit open lawn size.
4. Respect shoreline protection zone regulations.
5. Use phosphorus-free fertilizer, laundry and dish detergents.
6. Never wash dogs, humans, or boats in the lake!
7. Update your septic system and pump regularly.
8. Construct docks and floats with lake-friendly materials.
9. Use clean, low-pollution motors for your boats.
10. Preserve wildlife habitat on land and underwater.
11. Use slow speed <150' from shore. High wake = shore erosion!
12. Remove plant fragments from boating equipment before launching.
13. Join and support your Mirror Lake Protective Association.



(Adapted from *The Lake Book*, Maine Congress of Lake Associations)

Learn more about your lake! See Mirror Lake Protective Association on
Facebook, or the website at www.mirrorlakenh.org.