

### **Description of Discussion**

1. **Introduction:** The meeting started at 9:06 am at the Legend Lake Lodge. All board members were present. 57 people attended the meeting representing 37 of the 93 Moshawquit Lake properties. The presentation deck used for the discussion is attached as Exhibit #1. See the slides in the deck for further information about each subject. The details about each subject are not repeated below in these notes. Nick Romenesko #140, the MLA president, led the meeting which started with the introductions of the 9 MLA board members:

Name	Property	Title	Status
Mark Emerick	117	Past President	Present
Joel Hartjes	84	Member at Large	Present
Corbin Keller	103	Member at Large	Present
Bob Kemps	33	Legal Advisor	Present
Barb Kleiber	64	Member at Large	Present
Joe Michel	16	Treasurer	Present
Steve O'Shea	114	Vice President	Present
Nick Romenesko	149	President	Present
Gary Sturtevant	126	Secretary	Present

2. **2018 Annual Meeting Minutes:** Nick Romenesko briefly reviewed the 2018 annual meeting minutes. Mark Emerick #117 moved to accept the minutes. Bob Kemps #8 seconded the motion. The motion passed unanimously. **Action: Gary Sturtevant #126 to post the final minutes on the MLA website.**
3. **New Property Owners:** The new property owners on the lake are Glen & Beth Weyenberg #57 and Kent & Nicole Schweitzer #145.
4. **Neighbors we've lost:** The group held a moment of silence to remember the neighbors that we've lost over the past year: Ken Fisher, Robert Follett, Harry Hoffman, Rodger Mueller, Mary Sturtevant, and Donna Weyenberg.
5. **Social Calendar:** The dates for the Falleree and Winterree have not been set yet.
6. **Financial Update:** Joe Michel #16 provided a financial update for the MLA. The MLA will run a FY2019 deficit of about \$20,000 due to the costs of the EWM chemical treatment and DASH programs (see below). Joe said there is no need to revise the MLA assessment now because the MLA has enough funds to cover the deficit. Donna DeGroot #146 moved to accept the financial update. Joel Hartjes #84 seconded the motion. The motion passed unanimously.
7. **MLA Website:** The site URL is <https://moshawquitlakeassociation.org/>
8. **Eurasian Water Milfoil (EWM) Treatment Program:** Nick reviewed the 2017-2019 EWM treatment program (see the attached slides). The 2017 chemical treatment reduced the EWM in the lake by about 75%, which is a typical rate. Approximately 10,000 lbs (wet) of milfoil was removed from the

lake with the DASH unit in 2018. The DNR has previously provided the MLA with substantial technical and financial support but starting this year, we are on our own.

The MLA will use Onterra as our consultant. They provide similar services to many lakes in the region. Onterra recommended the spot treatment with the chemical Aquastrike that was completed on May 24. The Menominee tribe was in full agreement with the treatment program. The cost for the herbicide treatment was \$17,485.

9. **2019 DASH Program:** The 2019 DASH plan is to operate the unit with paid commercial divers for 12 to 16 weekdays during the summer, from mid-June to mid-September. We will not operate the DASH unit on weekends because of the high level of boat activity. We train the divers about what type of material to remove from the lake. The divers are paid about \$15-20 per hour. The estimated total cost for the 2019 DASH program is about \$6,000.

Volunteers from the MLA community are required for a variety of DASH activities: drive the boat, bag weeds, haul the bags to the Shawano county landfill, and maintain the boat. Another activity is to circle the boat in a kayak and collect the EWM fragments generated during the operation of the DASH unit. The attached slides contain more details about the volunteer requirements.

The group discussed options to collect fragments: install a barrier around the unit when it is in operation; 2) buy pool skimmers for the kayakers to use. The pool skimmer seemed to be the more practical idea. EWM fragments are also generated by normal boat traffic. All boaters must avoid the marked areas of heavy EWM infestation.

A major need for the DASH program is a site on the lake to store the unit when it is not in use. The unit is a 24' pontoon boat. The best option is for someone with available dock space. An alternative is a location to anchor the boat.

Volunteers who offered support for the 2019 DASH program include:

Name	Property	Role
Brad Willoughby	#108	Diver & disposal
Victor Murphy	#135	Topside
Kristi Kirk	#54	Kayaker
Carl Rippl	#3	Diver
Bob Kemps	#33	To be determined; temporary DASH unit storage
Lynn Murphy	#135	Build SignUpGenius site to schedule DASH sessions
Dave Van Hoof	#1	Diver
Mark Emerick	#117	Diver
Bob Weiske	#101	Topside
Ann Dean Dewitt	#55	Coordination
Dave Selleck	#138	Topside & disposal
Bob Kemps	#33	Can store DASH unit until his old place #8 is sold
Cathy Palesse	#24	Diver (volunteered by email prior to meeting) & kayaker

10. **Shoreline Buoys:** The group discussed the shoreline buoys and the potential need for additional buoys along tribal land. After a discussion of relocating some of the current buoys, Donna DeGroot #146 moved to purchase 2 additional buoys. Ellyn Dercks #115 seconded the motion. The motion passed on a voice vote. **Action: Steve O'Shea #114 to purchase and install the buoys.**
11. **WAMSCO:** Mark Emerick #117 briefly reviewed the Waterways Association of Menominee and Shawano Counties (WAMSCO) organization. The MLA pays a \$100 annual fee to belong to WAMSCO. Mark is on the board. He introduced Emily Henrigillis from WAMSCO who discussed their shoreline remediation and water quality programs. See the attached slides. Emily's contact information is in the slides. A few highlights from the discussion are below.
  - a. Cost sharing for shoreline projects is available from Menominee County. WAMSCO can help facilitate these projects. Several MLA members (Emericks, Dercks, Kemps and others) improved their shoreline and received cost-sharing funds to reduce their out-of-pocket costs by over 50%.
  - b. WAMSCO always has a need for volunteers to help with their programs. Contact Emily if you are interested.
  - c. WAMSCO offers clean boats/clean waters training programs.
  - d. Wild Ones (<https://wildones.org/>) provides information about native plants for shoreline projects. The Wolf River Chapter sells plants at a discount during their Spring Plant Sale.
12. **Thefts and Break-ins:** We have no reports of thefts or break-ins over the past year.
13. **Rental Properties:** Ellyn Dercks #115 asked the board for its plan regarding rental properties. The board investigated this subject but determined that they cannot do much about such properties. Donna DeGroot #146 reported that the Legend Lake Property Owners association bylaws says their properties are for single family personal use. One difference is that LLPOA membership is mandatory, an authority that came from the state of Wisconsin when the dam was built. The MLA cannot hope to get a similar level of authority from the state.

The MLA can investigate the idea to amend our bylaws to discourage rental properties. We could distribute the bylaws and other information about the MLA to the realtors for Moshawquit Lake properties up for sale and ask them to distribute the information to potential buyers. The new bylaw language must allow our properties to be used by family and friends. **Action: MLA board to develop new bylaw language and distribute it to the membership for comments and a vote.**
14. **Security Lights & Light Pollution:** Steve O'Shea #114 discussed security lights and asked that we monitor the brightness level of these lights and keep them pointed towards the ground to help reduce light pollution.
15. **Boater Safety:** Corbin Keller #103 reviewed the Safe Boating and Boat Landing Rules. The rules are on the MLA website. All property owners should try to reduce the number of non-owner boats that are launched on the lake. Discourage your guests from bringing their own boats. It is your responsibility to ensure that all guests know and follow the safe boating rules. The MLA website includes a [lake rules page](#) that includes the Wisconsin boating rules, the Moshawquit Lake safe boating rules and the rules for using the boat landing.

16. **Security System Ordinance:** The MLA recently distributed the Menominee County ordinance that requires registration of security systems. This is an old ordinance that Menominee County wants to enforce. We complied with their request to distribute it to our members. The [security system ordinance and registration form](#) are on the MLA website.
17. **Meeting Adjournment:** Bob Weiske #101 moved to adjourn the meeting. Jane Sturtevant #126 seconded the motion. The motion passed unanimously. The meeting adjourned at 10:39 am.

Submitted by:

Gary C. Sturtevant  
June 1, 2018

Attached Exhibits:

1. Moshawquit Lake Annual Meeting 2019 presentation deck
2. WAMSCO presentation deck

# **Exhibit 1**

## **Moshawquit Lake Annual Meeting 2019**

May 25, 2019

# Introductions

- ▶ Nick Romenesko - President
- ▶ Steve O'Shea - Vice President
- ▶ Gary Sturtevant - Secretary
- ▶ Joe Mitchel - Treasurer
- ▶ Corbin Keller - Member at large
- ▶ Joel Hartjes - Member at large
- ▶ Barb Kleiber - Member at large
- ▶ Bob Kemps - Legal Advisor
- ▶ Mark Emerick - Past President

# Past year's meeting

- ▶ Meeting minutes from last year are available on our new website  
<https://moshawquitlakeassociation.org/meeting-notes/>
- ▶ Motion to approve

# Warm Welcome to our new neighbors!

- ▶ Glen and Beth Weyenberg - #57
- ▶ Kent and Nicole Schweitzer - #145
- ▶ \*If you are looking to sell your cottage, feel free to contact the board or Gary and we will inform our members. If someone knows of a potential buyer, we can help grow our community and save on costly realtor fees.



# Neighbors we've lost

- ▶ Rodger Mueller - Dave Mueller's father
- ▶ Ken Fischer - Bev's Husband
- ▶ Donna Weyenberg - Kristi Kirk's father and Jim Kirk's father-in-law
- ▶ Robert Follett - Scott Follett's father
- ▶ Harry Hoffman - Joan's husband and Mike's father
- ▶ Mary Sturtevant - Jane and Gary Sturtevant's mother

# Social Calendar

- ▶ Falleree
- ▶ Winteree



# Financial update

## Moshawquit Lake Association

### Treasurer's Report

05/01/2018 - 04/30/2019 and 2019-2020 Budget

	Balance on Hand 04/30/2017	2019-2020 Budget
<b>First State Checking Account</b>		
Starting Balance	\$ 16,704.12	\$31,303.04
Receivables	\$6,675.00	9,200.00
Transfer from CD	\$15,750.16	0
Disbursements	\$7,826.24	30,842.81
Transfer to CD		
Ending Balance	<b>\$31,303.04</b>	<b>\$9,660.23</b>
<b>First State Bank 15 mo.CD</b>		
Starting Balance	\$ 40,000.00	\$ 25,000.00
Interest	\$ 750.16	625.00
Transfer to Checking	\$ 15,750.16	
Transfer From Checking	\$ -	
Ending Balance	<b>\$ 25,000.00</b>	<b>\$ 25,625.00</b>
<b>Balance on Hand 04/30/2019</b>	<b>\$ 56,303.04</b>	<b>\$35,285.23</b>

# Moshawquit Lake Association Website

► <https://moshawquitlakeassociation.org>



**Moshawquit Lake Association**

Menominee County, Wisconsin

[Home](#) [Contact](#) [Board Members](#) [Lake Rules](#) [Meeting Notes](#) [Other Information](#) [Links](#)



The background features abstract, overlapping green geometric shapes, primarily triangles and polygons, in various shades of green, creating a modern and dynamic design.

# Moshawquit Lake 2018 Treatment Update

# Ais - Integrated Management plan

- **Integrated Management Plan** which includes continuing the **systematic monitoring** of aquatic plant life which began 5 years ago, **education** of our residents regarding how to prevent the spread of EWM, **selective low-dose treatment with herbicides** when EWM exceeds established limits, and **maintenance** of acceptable levels of EWM following herbicide treatment **via proven non-chemical means** including the use of Diver Assisted Suction Harvesting (DASH).

## Moshawquit Lake

Aquatic Invasive Species  
Integrated Management Program

Progress Report and Plan Update

Prepared by:

Mark F. Emerick

Timothy J. Ebben,

Produced In Cooperation with, and endorsed by:

Heather Pyatskowitz

Brenda Nordin, Lake Biologist – Watershed Bureau/Water Resources  
Wisconsin Department of Natural Resources

Jeremy Johnson, Menominee County, Conservation/Forestry/Zoning Department  
Director

Hamilton Harvey, Owner, Schmidt's Aquatic, LLC

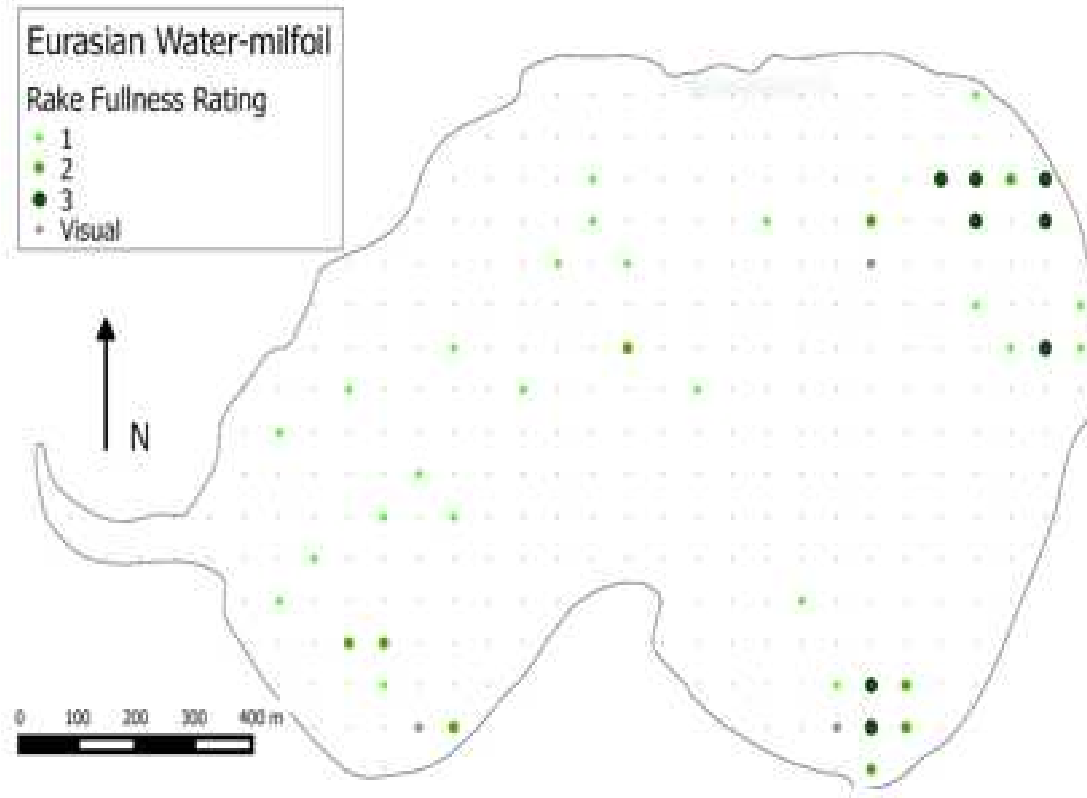
# 2017 Herbicide treatment recap

- ▶ We completed a lengthy approval process involving the Tribal Legislature, DNR and Schmidt's Aquatic
- ▶ On May 19, 2017 we completed a low dose whole lake treatment.
- ▶ The cost of the treatment was \$19,008, and we were reimbursed \$18,500 by the MITW which had a grant of \$18,500 to cover the treatment.
- ▶ The herbicide concentration was monitored at 4 locations in the lake on day 1,3,7,14,21, & 28 days after treatment. **The DNR analyzed the data for us at no cost to MLA under a grant secured by Brenda Nordin.** The monitoring showed that we achieved our target concentration of .300 ppm for 7 days following the treatment.
- ▶ We reduced the milfoil infestation by 75% as a result of the treatment.

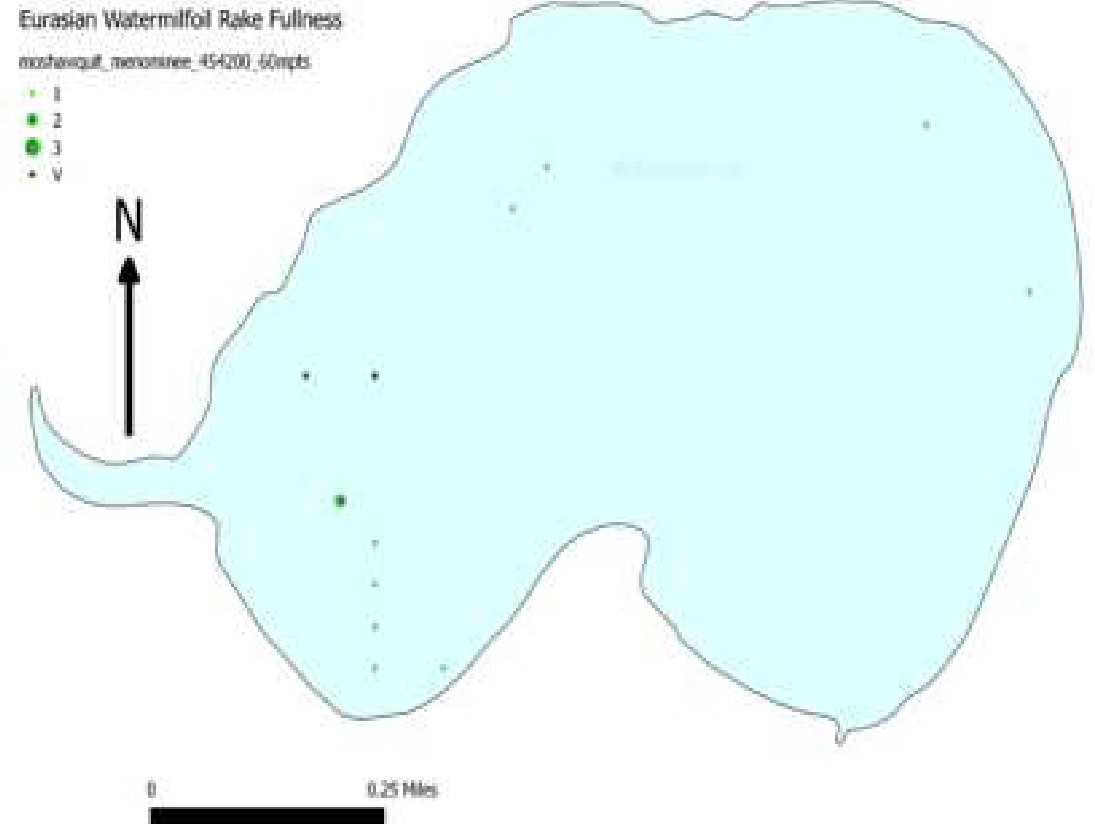
10 year DNR study reveals that without follow-up maintenance, EWM rebounds in 3-5 years following large scale treatment !

# Pre (2016) and Post (2017) Treatment Maps

Moshawquit Lake - September 12, 2016 -  
Menominee County



Moshawquit Lake September 5, 2017



75 % reduction in EWM following the treatment

# Education

we can all play a part in preventing the spread of ewm

## Here are a few tips....

- ▶ Know how to identify EWM, and distinguish it from other aquatic plants
- ▶ Clean your boat, motor, and trailer to remove aquatic hitchhikers whenever you launch or remove your boat from the water
- ▶ Pick up floating fragments, each fragment can re-root, and form a new plant
- ▶ Avoid areas where EWM is near the surface, fragments cut by propellers will float and re-root. Last year colored bouys were placed at sites to mark dense patches and surface EWM.
- ▶ Monitor your lakefront, and pull any new EWM plants you find growing there

# Education - Know how to identify EWM, and distinguish it from other aquatic plants

EURASIAN WATERMILFOIL,  
*Myriophyllum spicatum*



# Dash - diver assisted suction harvesting



A proven non-chemical means of maintaining post-treatment EWM levels

The background features abstract, overlapping green geometric shapes in various shades of green, creating a modern and dynamic feel. The shapes are primarily located on the left and right sides of the slide, framing the central text.

# 2017 DASH Project upDate

Construction, Testing, Storage

# DASH 2017 Plan

## 1. 2017 Recap

- a) **February 2017** – DASH Subcommittee completed research and report regarding open questions and recommendations for 2017 plan. **The Subcommittee recommended we acquire a DASH unit in 2017.**
- b) **March 2017** – Board meeting to review report of DASH Subcommittee, and DASH 2017 Business Plan. **Board approved Business Plan to acquire/build DASH unit in summer 2017, and complete testing by fall 2017 so that the unit will be available for use in summer 2018.**
- c) **May 2017** - MLA membership approved construction of a DASH unit at Annual Meeting
- d) **June – September 2017** – Mark Emerick designed unit, purchased materials, built and tested the DASH unit.
- e) **October 2017** – Unit placed in storage at Kleiber's facility

# Collection tank, Bag rack & Test



## DASH In Storage at Kleiber's



# Accessories - Bags, anchors & life jackets



# Sunshade & Garmin GPSMAP 64sc



# 2018 DASH Plan

- ▶ **The 2019 plan will be developed by Onterra Consultants and MLA DASH Subcommittee**
  - ▶ We will Staff the DASH unit with at least 2 people, one topside, one diver
  - ▶ We will Use certified, paid divers
  - ▶ The dash Unit is insured for liability & property damage, divers are covered by workman's compensation insurance
  - ▶ Dash Unit will be stored in locked storage facility, the Toy Box, on Hwy VV (old Mosher facility)
  - ▶ Harvested EWM will be disposed of in Shawano landfill or legend lake compost facility
- ▶ **2018 cost estimated at \$5575 - \$6840**

# How can you help?

- ▶ We are in need of volunteers to help us utilize the DASH unit.
- ▶ You will be fully trained to ensure you feel comfortable with your role
- ▶ We plan to operate the DASH twice a week starting in late June until beginning of September
- ▶ Each shift will take place Monday-Friday, avoiding weekends due to lake traffic and will last about 4 hours if you volunteer to help on the water.
- ▶ Days will be determined by diver availability.
- ▶ Some roles are not on the water and can be done on the weekend or your own time.
- ▶ More than one person (in fact it is encouraged) can work a role to help distribute the work. The more help the merrier!

# Roles to fill

## Team Lead

- ▶ Manage the schedule with the diver and volunteers
- ▶ Report hours to Nick Romenesko to track and execute payroll for our paid divers

# Roles to fill

## Storage

- ▶ A volunteer with an open slip at their dock to keep the DASH unit (which is like a pontoon boat) tied up on the water when not in use.
- ▶ The alternative is to store the boat at the Toy Box between each shift, launching the boat and then taking it back to the Toy box. This option is not the most efficient use of anyone's time.

# Roles to fill

## Top Side (Captain)

- ▶ With on water storage, the Captain will drive the boat with the divers to the specified location on the lake.
- ▶ Captain will be responsible for filling bags with the plants removed from the lake.
- ▶ Keep the boat Gassed up (gift cards provided)
- ▶ At the end of the each shift the Captain will drop the bags off at the boat landing. The bags filled with plants weigh 35-40 lbs.

\*If storage option is the Toy Box, Captain would have to pick up the DASH from storage and be comfortable launching the DASH.

# Roles to fill

## Disposal

- ▶ Retrieve the 4'x8' trailer from Mark Emerick's place and take it to the boat landing.
- ▶ Load the bags into the trailer and haul it to the Shawano dump.
- ▶ After dropping the bags at the dump, return the trailer to Mark Emericks.
- ▶ Only one load would be necessary each week

# Roles to fill

## Kayakers

- ▶ It is beneficial but not necessary to have kayakers around the work site to collect any floating debris. Great way to enjoy the water and pitch in to keep Moshawquit Lake healthy.
- ▶ If you see the boat out and you have some time and a kayak, paddle on out and hang out.

# Roles to fill

## Maintenance

- ▶ Do pre and post season maintenance (summarize and winterize) the DASH unit which is just a pontoon boat and outboard engine.
- ▶ If you feel comfortable putting your pontoon or boat into storage and getting it ready in spring, you can handle this role.
- ▶ Any major issues will be handled by a mechanic or someone qualified.

# DASH Annual Cost Comparison

- ▶ MLA owned DASH vs. Contractor DASH
- ▶ 4 Scenarios
  - ▶ Base Case - 12 days
  - ▶ Low Case - 0 Days
  - ▶ High Case - 16 Days
  - ▶ Full time - 60 Days
- ▶ Impact of Volunteer vs. Paid Labor
  - ▶ All volunteers
  - ▶ 50% volunteers
  - ▶ No Volunteers
- ▶ Use of MLA owned DASH results in significant **Savings** vs. Contractor DASH

## Annual Cost for MLA DASH

	Base Case (Ongoing EWM Management)		Low Case (No DASH Treatment)	High Case (New AIS Infestation)	Full-Time Case Paid Certified Divers	
	12 days		0 days	16 days	12 weeks	5 days/wk = 60 days
Volunteer Labor	MLA Fixed Costs *	\$ 1,655	\$ 440	\$ 1,655		
	MLA Variable Costs*	\$ 670	\$ -	\$ 860		
	Labor (2 volunteers)	\$ -	\$ -	\$ -		
	MLA Total Costs	\$ 2,325	\$ 440	\$ 2,515		
	Equivalent Contractor Cost	\$ 24,000	\$ -	\$ 32,000		
	Savings for MLA vs. Contractor	\$ 21,675	\$ (440)	\$ 29,485		
50% Volunteer Labor	MLA Fixed Costs*	\$ 1,655	\$ 440	\$ 1,655		
	MLA Variable Costs*	\$ 670	\$ -	\$ 860		
	Labor (1 paid, 1 volunteer)	\$ 1,440	\$ -	\$ 1,920		
	MLA Total Costs	\$ 3,765	\$ 440	\$ 4,435		
	Equivalent Contractor Cost	\$ 24,000	\$ -	\$ 32,000		
	Savings for MLA vs. Contractor	\$ 20,235	\$ (440)	\$ 27,565		
No Volunteer Labor	MLA Fixed Costs*	\$ 2,025	\$ 440	\$ 2,140	\$ 3,055	
	MLA Variable Costs*	\$ 670	\$ -	\$ 860	\$ 2,950	
	Labor (2 paid)	\$ 2,880	\$ -	\$ 3,840	\$ 14,400	
	MLA Total Costs	\$ 5,575	\$ 440	\$ 6,840	\$ 20,405	
	Equivalent Contractor Cost	\$ 24,000	\$ -	\$ 32,000	\$ 120,000	
	Savings for MLA vs. Contractor	\$ 18,425	\$ (440)	\$ 25,160	\$ 99,595	

Gasoline use 0.75 gal/hour, \$2.50/gal.  
Bags - \$ 0.66 ea.

\* MLA Fixed Costs - storage & insurance (property damage, Liability & Workman's Comp -where applicable)

\*MLA Variable Costs - fuel, bags, permit, labor, maintenance

# WAMSCO Membership and Goals

- ▶ Mark is now on the board for WAMSCO
- ▶ Membership fee is \$100

# While you were away...

- ▶ No thefts or break ins occurred to the boards understanding 😊

# Compost Sites

- ▶ Legend Lake's compost is the closest
  - ▶ \$47 fee. Free fill and compost (shovel only).
- ▶ Shawano county landfill is free for leaves, possibly a fee for branches. You can get top soil there as well. It is located on the south shore of Shawano on Rusch Rd off of Green Bay (Hwy 22).
- ▶ Don't dump across the road, that is tribal land and we want to respect our neighbors

# Safe Boating and Lake Rules

Moshawquit Lake does have county ordinances that apply to our lake and differ from state laws.

- Wake and towing hours 10am to 7pm
- Must stay 200' from the shoreline when towing or creating a wake
- Drive in the counter clockwise direction around the lake to help keep the flow.

- Reminder:

- Towing behind a PWC: Must be a three person PWC and include a spotter.

There were unfortunate occasions in the past of near misses and inattentive drivers looking back at who they are towing and not where they were going. Please use a spotter and drive carefully!

# Motion to Adjourn?

- ▶ Any questions or comments?

# Exhibit 2



## Connecting Our Waters

A partnership of Fox-Wolf and WAMSCO

Emily Henrigillis

Moshawquit Annual Meeting

5/25/2019

Legend Lake Lodge

# Connecting Our Waters Coordinators



Emily Henrigillis  
Watershed coordinator



Anna Bartsch  
AIS coordinator



# The partnership



- WAMSCO started in 2014
- Fox-Wolf Watershed Alliance joined the board of directors
- Discussions led to staff being needed
- Watershed Coordinator and AIS Coordinator started in 2018 as Fox-Wolf staff
- Connecting Our Waters is the brand created to market the partnership and program - in effort to build capacity for WAMSCO and Fox-Wolf



# Our shared goals

- Improve shoreline health within Shawano and Menominee Counties
- Enhance current farming practices to reduce run-off and improve waterways
- Educate on aquatic invasive species within the region
- Work with partners to reach goals
- And we're always looking for volunteers!



# Shoreline Health

- Created and completed a survey focused on waterfront property owners whom have completed shoreline restoration projects
- Currently working on virtual shoreline tour – would love your photos!
- Completed shoreline surveys on Pensaukee Lakes, Long Lake, Skice Lake, and Peshtigo Lake in 2018
- Completing a shoreline survey on Shawano Lake this summer.
- Written blog posts and created handouts for waterfront property owners to learn more about the benefits of shoreline restoration



# Choose your view!



## CHOOSE YOUR VIEW!

Consider adding a rain garden or native plants to your shoreline.

By stopping run-off from entering our lakes & rivers, we can protect them for future generations.

You can have beautiful flowers all summer long with a shoreline garden. See the more wildlife in yard with only a small change. Deal with less geese and mosquitos with the addition of native plants on your shoreline.

Connecting Our Waters  
Emily Hennigills  
emily.fwwa.org 920.851.6472

There are funds available to help keep your costs low!  
Contact Connecting Our Waters for more information!

f t i n s



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f t i n s





## LANDSCAPING FOR THE LAKE

Create a beautiful outdoor space and protect our waters

Gorgeous landscaping and clean water for lakes and streams can go hand in hand. Through the use of shoreline restoration projects and rain gardens, we can improve the water quality around us while keeping your landscape looking great.

### LESS HARD SURFACE

The more concrete or blacktop your property has, the more water will run off into your lake or stream. 75% more rain water sinks into the ground in a natural area versus a developed area.

Planning for minimal hard surface on your property makes good sense.

Native plants can add a layer of infiltration to your landscaping to help decrease into the closest waterbody

Consider run-off generated by roofs, decks, and side-walks or trails. Focus on native plantings to slow water, allowing water to infiltrate. When trails and stairs are needed, consider open bricks to allow water to sink into the ground.

### SHORELINE RESTORATION PROJECT

Shoreline restoration projects help restore a healthy transition between your land and the water. Native plants are added to the riparian zone, 35 feet closest to the water, to help create another way for water to infiltrate before reaching your lake or stream. These projects can also assist with erosion, decreasing the chances of your water gaining more sediments. These projects deter geese and provide flowers all summer long.

### RAIN GARDEN PROJECT

Rain gardens are slight depressions in the landscape that act as receiving areas for rain water running off your roof or out of your downspouts. Rain gardens can help capture rainwater before it picks up fertilizer, pet waste, or other contaminants. Rain gardens also help replenish groundwater by helping it infiltrate before it runs into the lake or stream. They should be planted with native plants that thrive in moisture but can withstand dry periods. Rain gardens are built to keep water from pooling, which deters mosquitos from breeding.



KEEP YOUR SHORELINES BEAUTIFUL FOR FUTURE GENERATIONS

Connecting Our Waters

P.O. Box 1861 Appleton, WI 54912 | 920.851.6472

connectingourwaters.org fwwa.org wamsco.org

Run-off can be created by rain or snowmelt and water from things people do, like overwatering the lawn. We can choose products carefully and shape our lawns and pavement so water sinks in. When we do, runoff is reduced, pollutants filter out and streams, lakes, and groundwater are protected.

Untreated runoff is the biggest threat to our nation's water quality, according to the U.S. Environmental Protection Agency. Let's make the small, important changes that will reduce that threat and improve water quality and our lives!

## Realize

What touches the ground enters the water

Connecting Our Waters



FOX-WOLF  
WATERSHED ALLIANCE

WAMSCO



## DECREASING RUN-OFF AT HOME

Small changes at home can have a big impact on water

Stormwater is any type of run-off that ends up in a street drain, whether it be from rain, snow, watering the lawn or washing the car. By improving what is going into the storm drain, we are able to improve the water quality in our area.

### YARD MAINTENANCE

There are many small things you can do to help improve water quality while completing regular yard maintenance. While mowing, consider letting the cuttings remain on the lawn and clean up any grass clippings that end up on the pavement. When it is time to rake, consider mulching the leaves through mowing or not raking at all! By keeping leaves and grass out of the storm drain, less pollutants will reach local waterways.

Through small, mindful changes, at home you can help improve water quality for everyone

### PETS

Pet waste can be very dangerous for waterways. Parasites and bacteria that cause beaches to close and waterways to issue warnings can be present in pet waste. Make sure to pick up pet waste often and dispose of it properly.

### VEHICLE MAINTENANCE

Washing your car at home can be easy and convenient but can also add unwanted pollutants to the water. If washing at home, use biodegradable soap and wash your car on the lawn. Similarly, changing your oil at home may be convenient but oil is very harmful to the waterways if not disposed of properly. Consider getting your car washed at a commercial car wash and completing regular maintenance on your car.

### ICE AND SNOW REMOVAL

Road salt and sand are some of the biggest contributors to pollution in nearby waterbodies. During the winter, make sure to shovel often so the snow does not get packed down by foot/car traffic. When using salt to remove ice, only use the recommended amount. It only takes one teaspoon of salt in every five gallons of water to create toxic conditions.

### LESS IMPERVIOUS SURFACE

Consider adding rain gardens or rain barrels to your property. Rain barrel water allow you to reuse what nature provides as well as decreases run-off into storm drains. Similarly, rain gardens help water infiltrate back into the ground rather than running off into storm drains.

Connecting Our Waters

P.O. Box 1861 Appleton, WI 54912 | 920.851.6472

connectingourwaters.org fwwa.org wamsco.org



Run-off can be created by rain or snowmelt and water from things people do, like overwatering the lawn. We can choose products carefully and shape our lawns and pavement so water sinks in. When we do, runoff is reduced, pollutants filter out and streams, lakes, and groundwater are protected.

Untreated runoff is the biggest threat to our nation's water quality, according to the U.S. Environmental Protection Agency. Let's make the small, important changes that will reduce that threat and improve water quality and our lives!

## Realize

What touches the ground enters the water

Connecting Our Waters

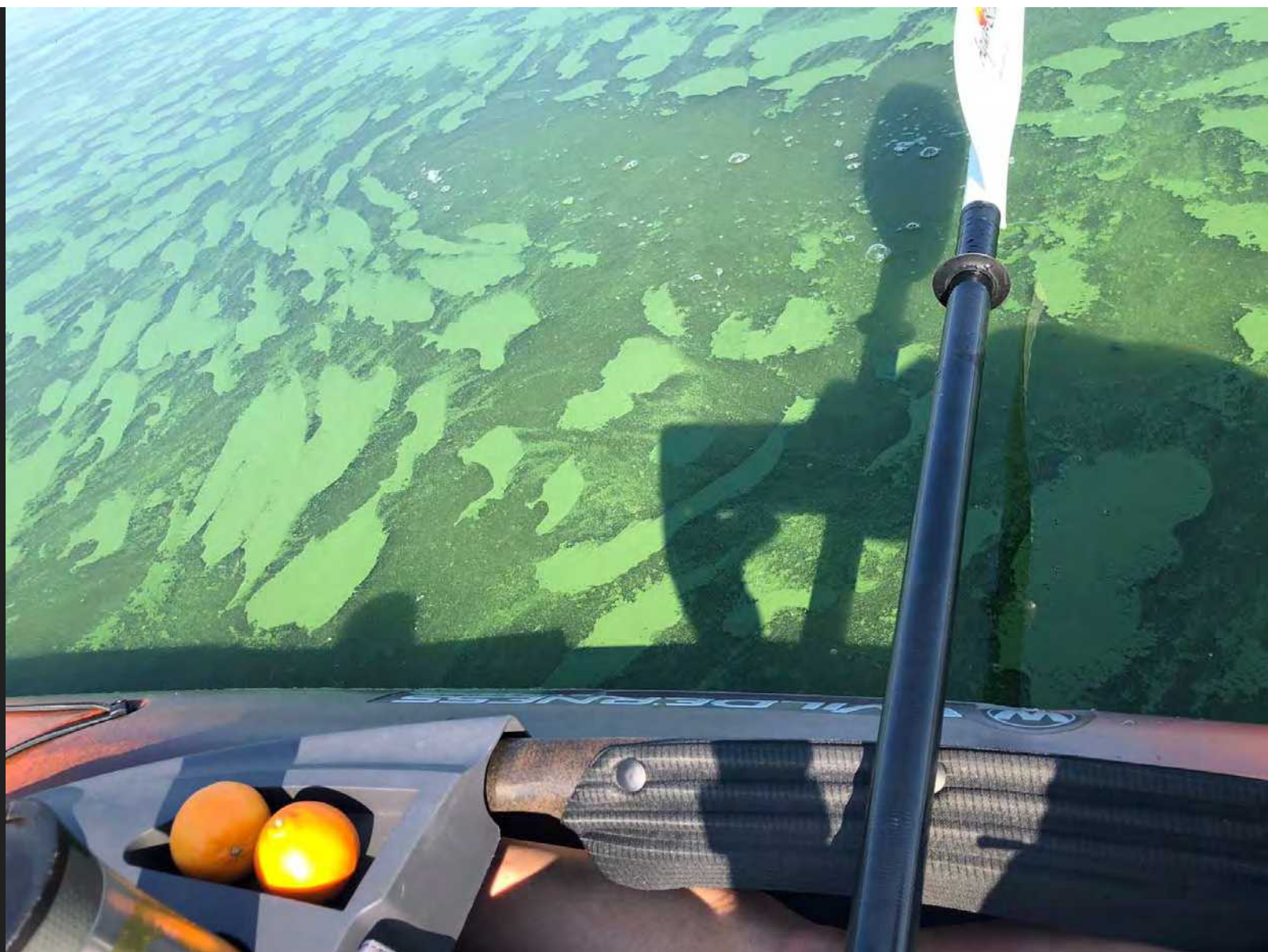


FOX-WOLF  
WATERSHED ALLIANCE

WAMSCO









# Shoreline Restoration - Benefits

- Reduce polluted run-off from entering the waterways
- Increase infiltration rates of run-off
- Provide wildlife habitat
- Provide pollinator habitat
- Aesthetically pleasing





2014



2018



2017



2018



2016



2018



# HAVE PICTURES? SEND THEM OUR WAY!

- Would love to add your progress pictures to the project!
- Email [emily@fwwa.org](mailto:emily@fwwa.org)

# Shoreline Restoration – Implementation

- Both Shawano and Menominee Counties Land Conservation Departments offer cost share for land owners to add shoreline restoration projects to their home
- Healthy Lakes Program offers funding for five practices to help improve lakes
- Lake associations and lake districts may consider assisting shoreline owners with costs
- Connecting Our Waters, WAMSCO, Wild Ones, Landscape Solutions, the counties, and the WDNR are all resources available to assist with interested waterfront owners



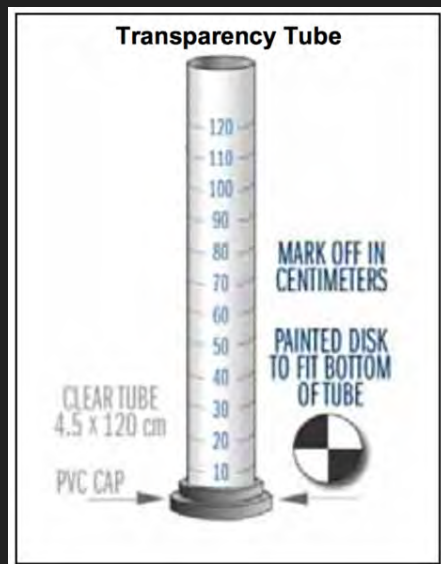
# Aquatic Plant Management Education

- Meet with lake groups and partners to discuss positives and negatives associated with their aquatic plant management
- Share information on changes to APM rules and permitting



# Achieving Our Goals – Water Quality Monitoring

- Find volunteers to continue monitoring the lakes and rivers within the watershed



# Aquatic Invasive Species Coordination

- Focuses on conducting Clean Boats Clean Waters as well as training volunteers on how to conduct CBCW
- Implements WDNR initiatives – Drain campaign, Snapshot Day, Landing Blitz, Bait Shop initiative
- Works with Shawano and Menominee counties to update their county-wide AIS strategies
- Conducts outreach with lake groups – hand pulling training, plant ID training, etc.



# WDNR initiative implementation

## SAVE THE DATES

- Drain Campaign - May 31 – June 2, 2019
- Landing Blitz – July 3 – July 7, 2019
- AIS snapshot day – August 17, 2019



# Contacting Us

- We are on Facebook, Instagram, Twitter, and Snapchat as Connecting Our Waters
- Website: [connectingourwaters.org](http://connectingourwaters.org), [fwwa.org](http://fwwa.org), [wamsco.org](http://wamsco.org)
- Sign up for our e-newsletter
- Watershed Coordinator office hours at the Belle Plaine Town Hall
  - Tu & Th 10-2
- Emily: [emily@fwwa.org](mailto:emily@fwwa.org) 920.851.6472
- Anna: [anna@fwwa.org](mailto:anna@fwwa.org) 920.851.4336



# Thank you! Questions?

