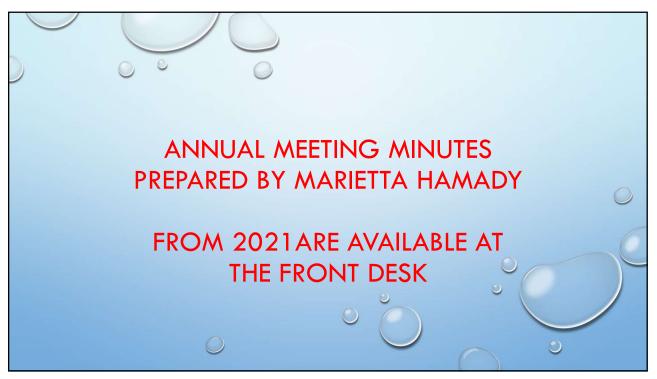




AGENDA
·CONSENT AGENDA
CONFORMATION CORRECTION AND APPROVAL OF MEETING MINUTES FROM 2021
·INTRODUCTION, RETIREMENT, & RENEWAL OF EXISTING BOARD MEMBERS - MEMBERSHIP VOTE
•OLD BUSINESS
·2021/2022 BOARD ACCOMPLISHMENTS
·STANDING COMMITTEE DEFINITION & REPORT OUTS
-GLADLA IS A 501C3 NON-PROFIT – DOES YOUR COMPANY MATCH DONATIONS
+2021/2022 LAKES EVALUATION
-SWIMMERS ITCH 2022
•NEW BUSINESS
•MICHIGAN SHORELAND STEWARDS PROGRAM/MICHIGAN NATURAL SHORELINE PARTNERSHIP
•NEW SIGNS FOR LAUNCH SITES
-SOME NEW TECHNOLOGIES FOR EFFECTIVE LAKE MANAGEMENT
•NEW WEBSITE ROLLOUT SEPTEMBER
·DUES TO INCREASE FOR 2023 - WHY?
·2021/2022 WATER LEVEL MANAGEMENT UPDATE
WINTER PROJECTS FOR 2022
-TREASURER'S ANNUAL REPORT -
-PUBLIC COMMENT
-GUEST SPEAKER - BREANNE GRABILL PLM LAKES AND LAND MANAGEMENT



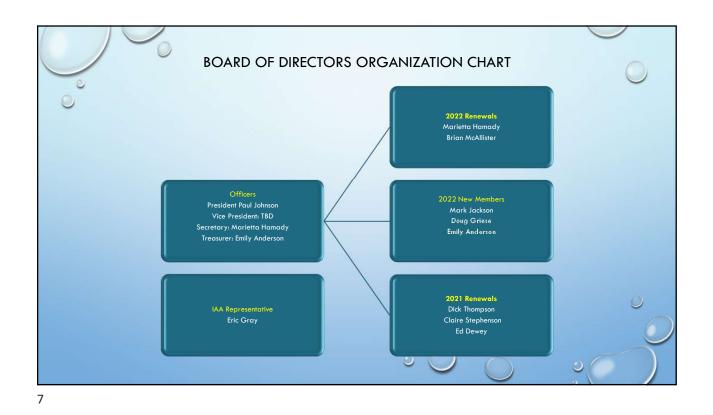


NEW BOARD APPOINTMENTS

• ITS WITH GREAT PLEASURE THAT I ANNOUNCE THE FOLLOWING NEW BOARD APPOINTMENTS FOR YOUR APPROVAL

• OFFICERS

• EMILY ANDERSON APPOINTED AS OUR NEW TREASURER – GREEN LAKE
• PAUL JOHNSON APPOINTED AS OUR NEW PRESIDENT – DUCK LAKE
• BOARD MEMBERS
• MARK JACKSON – DUCK LAKE
• DOUG GRIESE – GREEN LAKE



State/County/Network of Lake Association/Publications Review **Officers** Liaison State/County/Township/DNR Outside Publications Review • Ed Dewey - President Ed Dewey • Ed Dewey • Paul Johnson – Vice President Paul Johnson Paul Johnson • Marietta Hamady – Secretary Network of Lakes Associations Marietta Hamady • John Thomas – Treasurer • Ed Dewey – Paul Johnson Claire Stephenson John Thomas • Sarah Hehir **Plant Variety** Special Mobile Boat Wash, EWM Monitoring, AIS, Plant Sampling & Identification Projects CBCW, • Ed Dewey - Green Lake Paul Johnson – Duck Lake • Mobile Boat wash – Ed Dewey Claire Stephenson Paul Johnson Doug Griese Sarah Hehir – Duck Lake Rich Garvey – Green Lake
Doug Griese – Green Lake
Marietta Hamady – Green Lake • Rich Garvey Marietta Hamady Dick Thompson – Duck Lake • Farmer's Market Booth – Ed Dewey Marietta Hamady PLM – Duck Lake • Website – Ed Dewey Ken Chamberlain Sarah Hehir Doug Griese Paul Johnson • Email contact program – Ed Dewey Corporate Lakes Monitoring Program (CLMP) – Rich Garvey Paul Johnson Water Quality/Clarity Water Sampling, Lab Review & Results Membership Newsletter/Brochure/Welcome Program Water Quality • Paul Johnson Sarah HeHir – Duck Lake & Feeding Streams • Newsletter – Marietta Hamady • Rich Garvey - Green Lake & Feeding Streams • Welcome Programs – Claire Stephenson, Marietta Hamady Water Clarity • Maintain Members Name Addresses – John Thomas • Rich Garvey – Green Lake Secchi Disk Testing Maintain Membership Numbers & Lake Budgets – John Thomas • Paul Johnson - Duck Lake Secchi Disk Testing Create Mailing Labels for Mailing – John Thomas

January	February	March	April	May	<mark>June</mark>	July	August	September	October	<mark>November</mark>	December
				Board Meeting Treasures Report	Board Meeting Treasures Report	Board Meeting Treasurers Report	Board Meeting Treasurers Report	Board Meeting Treasurers Report	Board Meeting Treasurers Report		
Winter Newsletter Publication	Dues Winter Newsletter Distribution			Summer Newsletter Prep	Summer Newsletter Publication	Summer Newsletter Distribution	Annual Meeting		Special Projects Wrap-up	Winter Newsletter Prep	Winter Newsletter Prep
	Membership Address	Water Quality Sampling & Lab			Water Quality Sampling & Lab	Water Clarity Results	Water Quality Follow-up if required	Water Quality Follow-up if required	Special Projects Next Year Planning		
		Water Clarity Readings			Water Clarity Readings	Water Quality Follow-up if required	Water Clarity Readings	Water Clarity Readings			





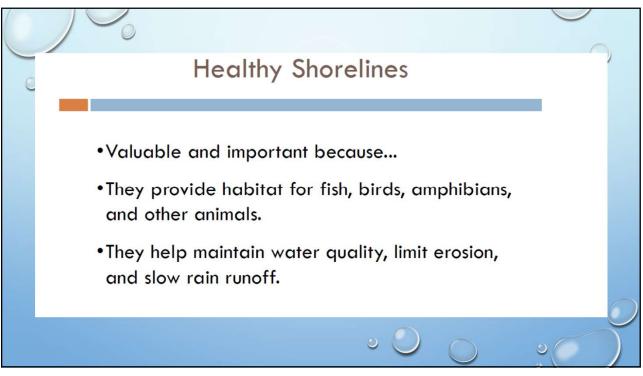
HERE ARE SOME HIGHLIGHTS OF WHAT THE BOARD ACCOMPLISHED THIS YEAR:

- REGULAR COMMUNICATION AND MEETINGS WITH ANDY SMITS, THE GRAND TRAVERSE COUNTY COMMISSIONER, AND THE MICHIGAN DNR. THE TWO ORGANIZATIONS WORK TOGETHER TO MANAGE THE GREEN LAKE/DUCK LAKE WATERSHED.
- FOUR BOARD MEMBERS ATTENDED THE ANNUAL MICHIGAN LAKES STEWARDSHIP ASSOCIATION CONFERENCE TO GAIN KNOWLEDGE ABOUT "BEST PRACTICES" FOR LAKE MANAGEMENT FROM EXPERTS AT MSU AND GVSU, AND OTHER LAKE ASSOCIATIONS AROUND THE COUNTRY
- ATTENDED TRAINING SESSIONS ON AQUATIC PLANT IDENTIFICATION, WATER QUALITY AND CLARITY, AND NATURAL SHORELINE MANAGEMENT. TWO GLADLA MEMBERS HAVE QUALIFIED FOR THE GOLD STATUS IN MICHIGAN CLEAN WATER CORPS' SCORE THE SHORE PROGRAM
- CONDUCTED WATER TESTING AND PLANT SAMPLING THROUGHOUT THE SUMMER.
- ENGAGED IN CONTINUING EDUCATION ABOUT SWIMMERS ITCH AND POTENTIAL INVASIVE SPECIES SPREAD

UPDATES ACCOMPLISHMENTS (CONT) HELD TWO BOAT WASH CLINICS AT THE GREEN LAKE BETSIE RIVER DNR LAUNCH AND DISTRIBUTED PROMOTIONAL MATERIALS TO EDUCATE BOATERS ABOUT NEW MICHIGAN LAWS ASSOCIATED WITH THE CLEAN BOATS CLEAN WATER PROGRAM. THE DNR, MSU, AND BENZIE CONSERVATION DISTRICT HELPED COORDINATE THESE EVENTS ANOTHER EDUCATIONAL EVENT IS SCHEDULED ON SEPTEMBER 2ND AT THE INTERLOCHEN STATE PARK 9:30AM – 3:00PM HAD A BOOTH AT THE INTERLOCHEN FARMER'S MARKET PRESENTED AT TWO HOA ONE ON DUCK LAKE AND ONE ON GREEN LAKE REVIEWED NEW DRONE TECHNOLOGIES FOR EFFECTIVE LAKE MANAGEMENT AND SHORELINE SURVEYS DEVELOPED AN IMPROVED, EASY-TO-USE GLADLA WEBSITE THAT WILL LAUNCH SEPTEMBER 2022. POSTED THE HISTORY OF OUR ASSOCIATION ON OUR FACEBOOK PAGE HTTPS://WWW.FACEBOOK.COM/GREEN-LAKE-AND-DUCK-LAWE-ASSOCIATION-1642508239318965

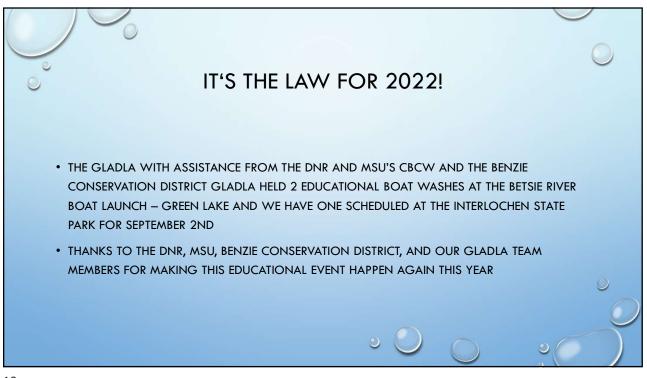


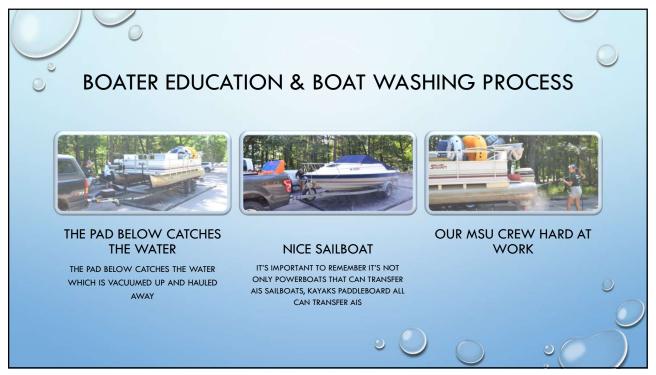






<section-header>

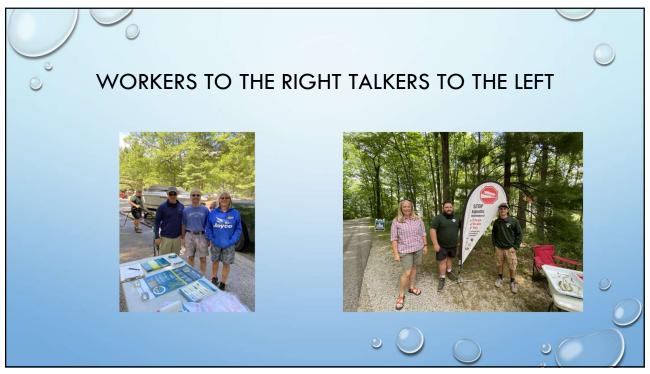




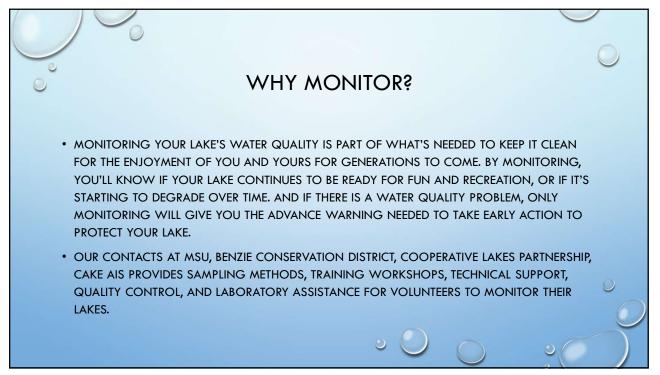


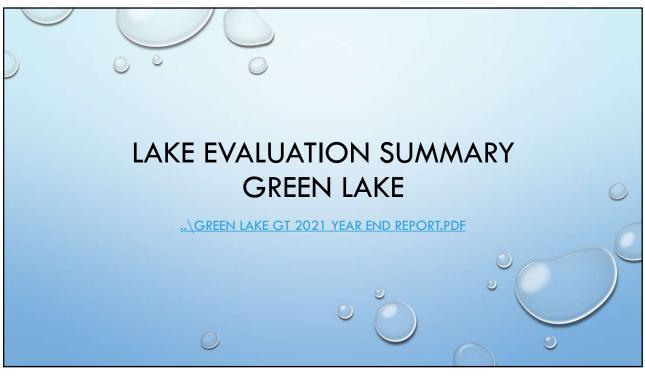


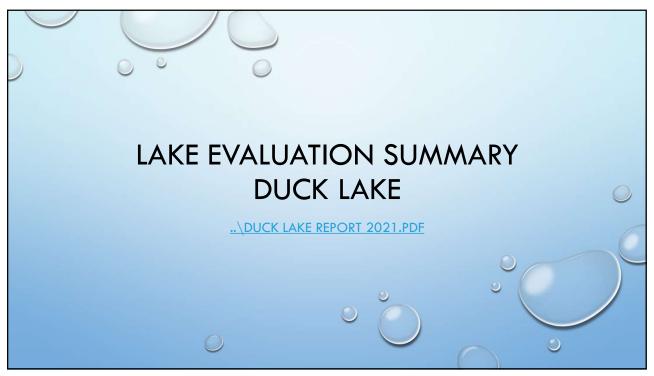


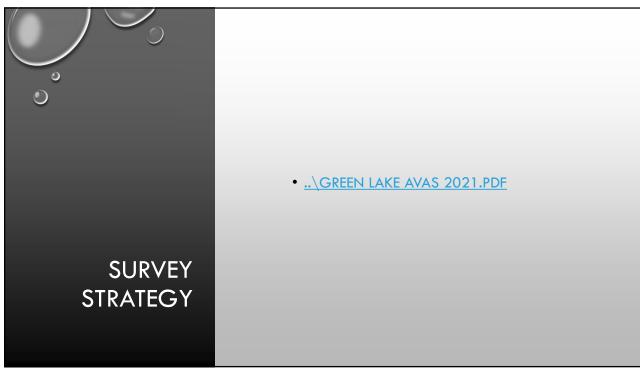






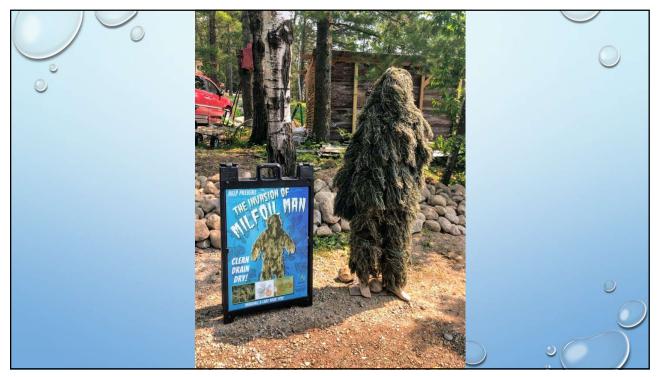




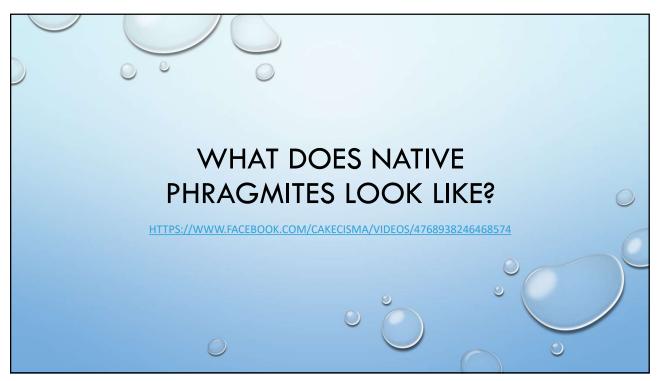


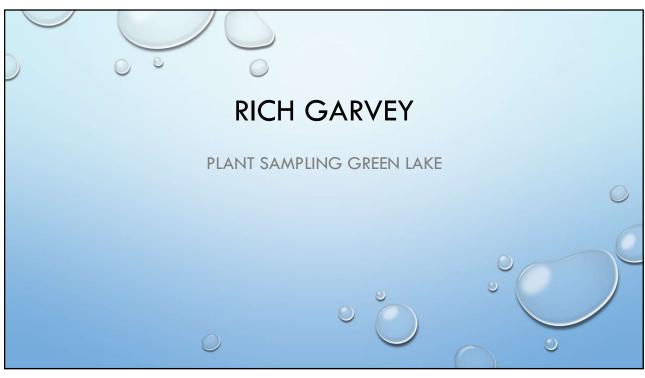






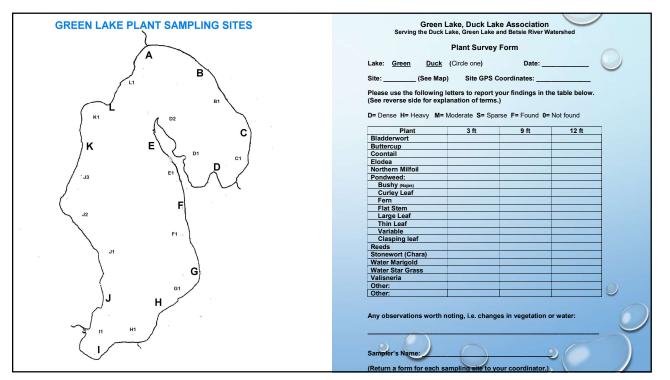


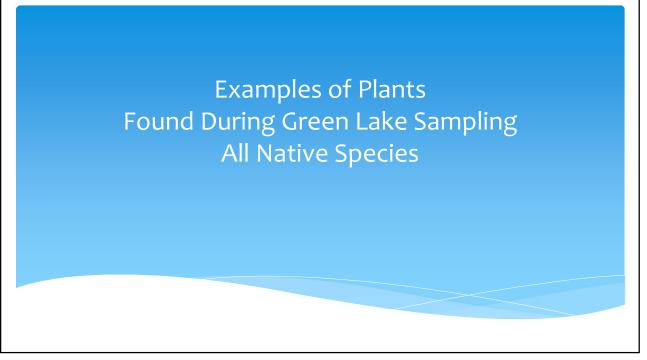


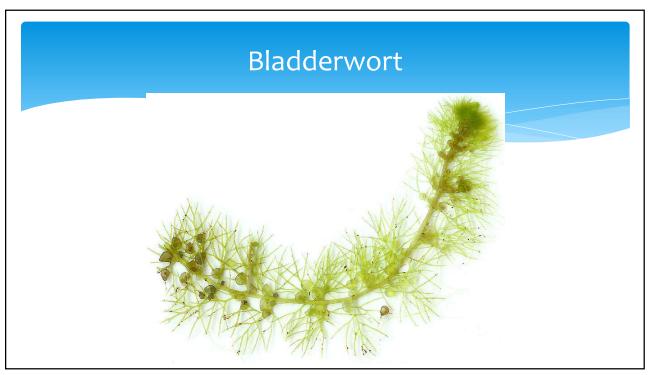
















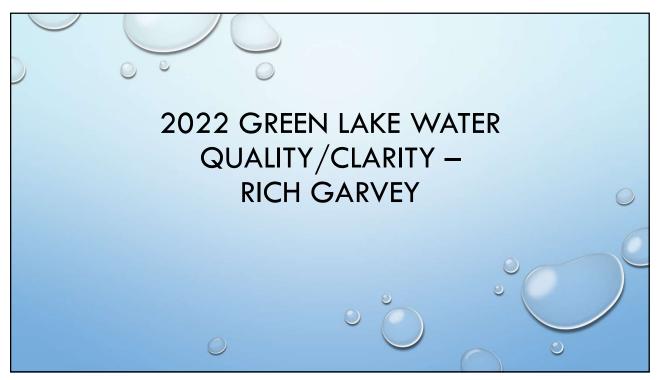


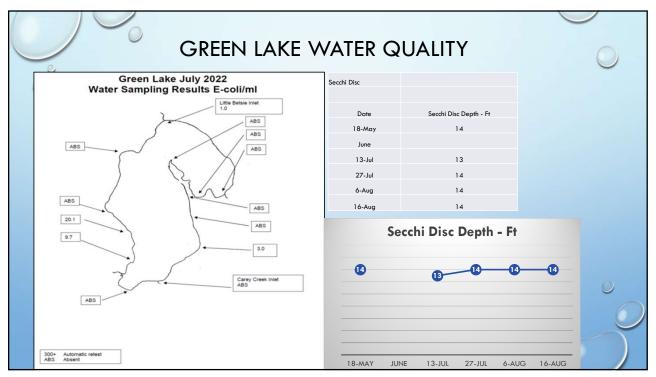


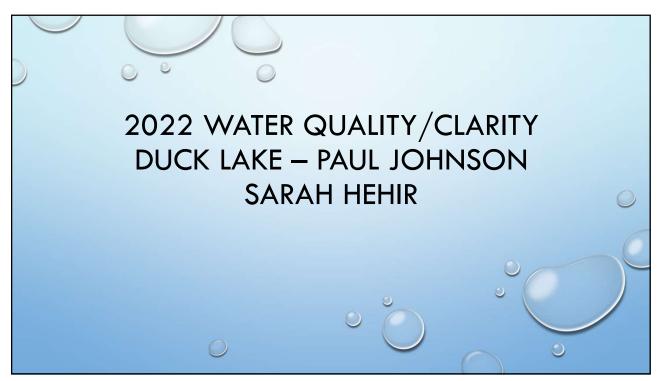


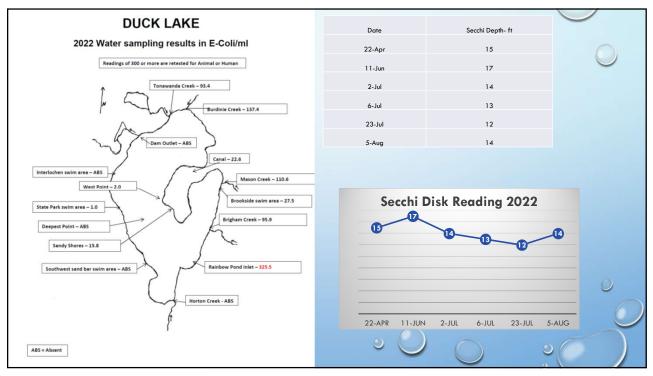
●●●○○ AT&T ᅙ 7:22 PM	┥∦ 💴	●●●○○ AT&T ᅙ	7:22 PM 7 🕺	••••• AT&T	ন্ন 7:22 PM ব ∦ 💷 ি
Home		Back	Habit	Back	Species List
Current Location	\frown	N LAND	Algae	Commo	n Scientific Favorites
44.6107° (N) Accuracy -85.7993° (W) +213.3 ft	Map		Aquatics	C. Margare	African oxygen weed
			Aqualics		Anchored water
Report		and a	Diatom		Asian marshweed
Plants Animals	Go!		Grasses		Limnophila sessiliflora
			Herbs		Brazilian elodea Egeria densa
Send Data				X MA	Brittle water-nymph
		Shrubs			Carolina fanwort
Network Connection		Matheman.	Trees	19.00	Cabomba caroliniana
A 9		****		N/	Curly pondweed
Home Account	More		Vines		Potamogeton crispus

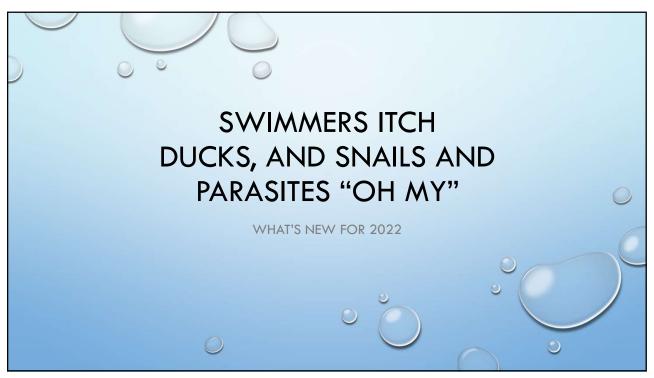


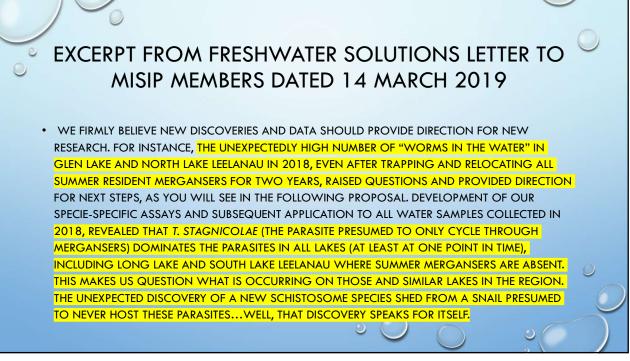


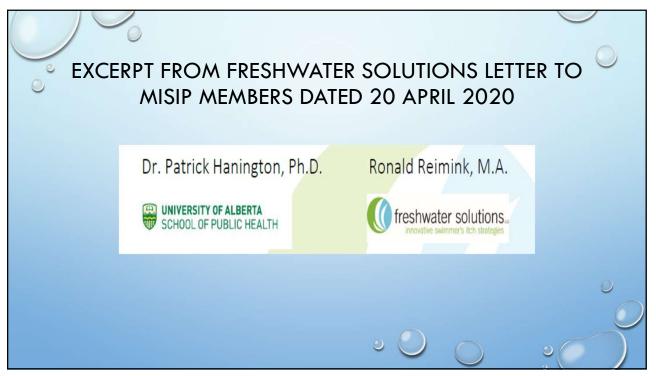














SWIM AFTER LUNCH

FWS/UA scientists were able to quantify the risk of contracting swimmer's itch as a function of time-of-day (Rudko et al.⁵, 2018). Since most of the itch-causing cercariae exit the snails in the morning and only live for a day, you would expect fewer cercariae to be around in the afternoon due to movement by wind, predation, natural mortality, etc. FWS/UA documented that riparians greatly reduce their risk of being exposed to virulent cercariae as the day progresses.

SWIM WITH OFFSHORE WIND

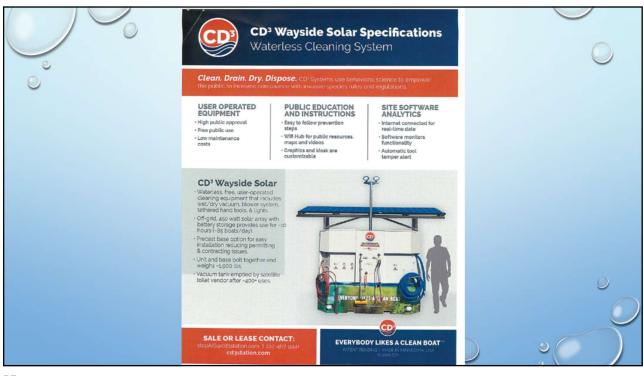
FWS/UA scientists were able to show a strong correlation between wind direction (onshore, offshore, alongshore) with cercariae concentration (Rudko et al.⁵, 2018), with significantly higher concentrations found with onshore winds.

ADJUST SWIM LOCATION

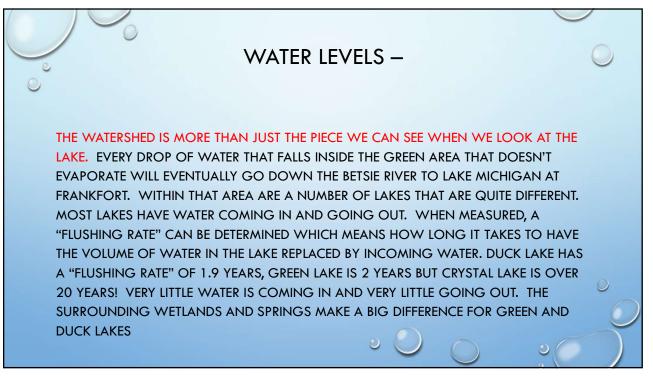
Results from work done in 2018 (Project '18 Final Report⁶) show cercariae numbers increasing near shore with an onshore wind, with very high numbers found within 1 meter from shore. Very few cercariae were found in deeper water when samples were taken at regular intervals on a straight line transect from shore to deep water with either an offshore or onshore wind. Some find relief by traveling to and swimming in nearby waters where the parasites are absent or greatly diminished. Others find blow-up kiddle pools placed down by the water an acceptable alternative for infant to 3-year-olds.

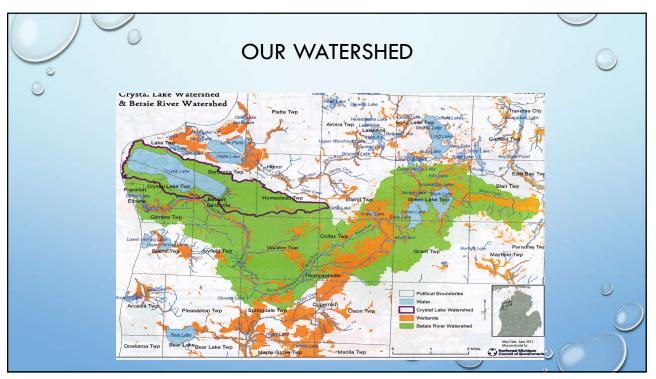


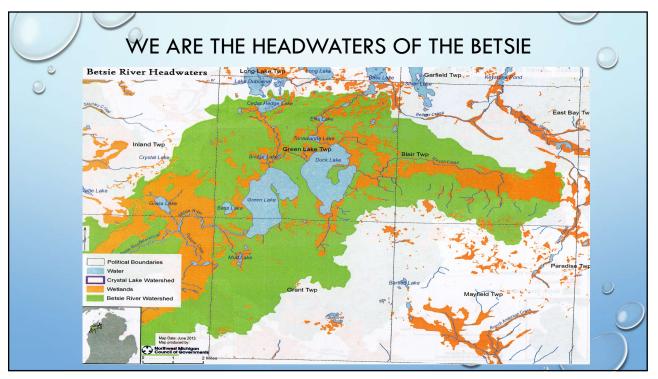


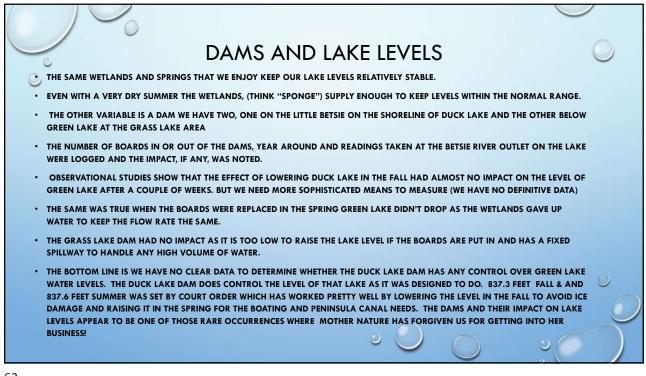


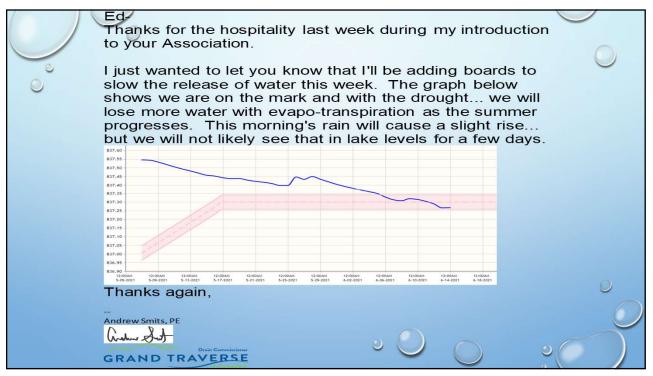


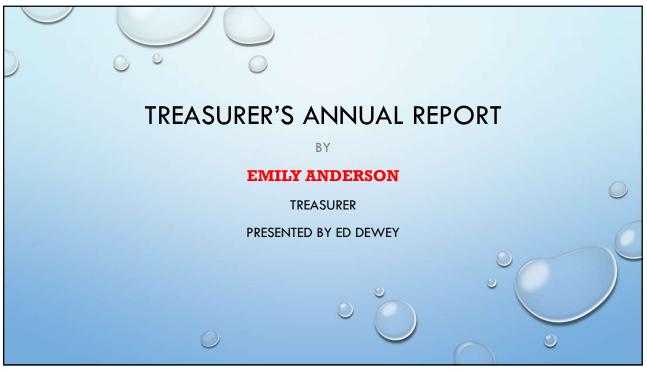








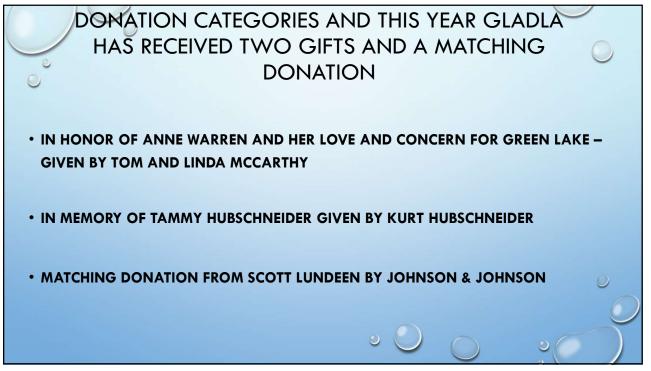




		s Report 2022		
	2020	2021	2022 YTD	
INCOME	\$5,272.00	\$1,350.00	\$3,231.25	
EXPENSES	\$3,977.60	\$1,578.42	\$2,934.24	
WATER TESTING	\$440.00	\$834.21	\$834.21	
PRINTING/COPY	\$395.70	\$79.00	\$155.03	
MAILING SUPPLIES	\$67.00	\$0.00	\$0.00	
POSTAGE	\$143.00	\$55.00	\$46.40	
PO BOX	\$23.00	\$0.00	\$0.00	
STATE OF MICHIGAN FILING				
FEE	\$10.00	\$0.00	\$0.00	
BANK FEES	\$23.00	\$30.00	\$17.50	
GREEN LAKE & DUCK LAKE MEETING	\$0.00	\$0.00	\$0.00	
TECHNOLOGY & COMMUNICATIONS	\$279.95	\$39.73	\$68.56	
ONLINE PROCESSING	\$34.14	\$15.48	\$0.00	
EDUCATION/COMMUNITY				
AWARENESS/SUPPORT	\$0.00	\$500.00	\$98.00	
LEGAL FEES	\$2,350.00	\$0.00	\$288.75	
BOARD INSURANCE	\$0.00	\$0.00	\$116.00	
MISC INVASIVE SPECIES TREATMENT	\$61.82	\$0.00	\$0.00	
MEMBERSHIPS				
ML&SA			\$200.00	
TIP OF THE MITT WATERSHED				
Misc				
Paid Members	89	52	42	
Balance - Operating Funds			15,961.87	
Balance - Reserve Funds (Invasive	Species Fund)		\$7,565.18	

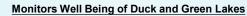
Green Lake	Annual Treasure	es Report 2021		0
	2020	2021	2022 YTD	
INCOME	\$7,466.00	\$2,955.00	\$2,552.00	
EXPENSES	\$8,316.07	\$1,232.79	\$1,232.79	
WATER TESTING	\$366.47	\$400.00	\$0.00	
PRINTING/COPY	\$604.73	\$177.58	\$364.83	
MAILING SUPPLIES	\$67.00	\$0.00	\$0.00	
POSTAGE	\$187.00	\$55.00	\$46.40	
POBOX	\$23.00	\$0.00	\$0.00	
STATE OF MICHIGAN FILING FEE	\$10.00	\$0.00	\$0.00	
BANK FEES	\$23.00	\$20.00	\$17.50	
GREEN LAKE & DUCK LAKE MEETING	\$0.00	\$20.00	\$15.36	
TECHNOLOGY & COMMUNICATIONS	\$279.97	\$39.73	\$68.56	
ONLINE PROCESSING	\$43.08	\$15.48	\$0.00	
EDUCATION/COMMUNITY AWARENESS/SUPPORT	\$0.00	\$500.00	\$98.00	
LEGAL FEES	\$2,350.00	\$0.00	\$288.75	
BOARD INSURANCE	\$0.00	\$0.00	\$116.00	
MISC INVASIVE SPECIES TREATMENT	\$4,211.82	\$0.00	\$75.00	
MEMBERSHIPS				
ML&SA			\$200.00	
TIP OF THE MITT WATERSHED			\$0.00	
17113%				
Paid Members	122	77	86.00	
Balance - Operating Funds			102,690.24	
Balance - Reserve Funds (Invasive S	Species Fund)		\$33,838.00	
			Submitted by Emily Anderson Treasurer	0











Lake Water Quality Monitoring --To measure and help control pollution monitoring the health of the lakes through water testing for both chemical and biological changes including testing the rivers and streams connected to the lakes for contaminates and attempt to eliminate the source, posting results on our website.

Invasive Species Monitoring --To operate programs that protect our lakes from Aquatic Invasive Species and monitor native growth. The Association conducts plant sampling at various spots around the lake at least twice a year.

Information and Education

Education and Outreach --To work with MSU, DNR, EGLE in support of Clean Boats Clean Waters and AIS blitz programs. Erect signage at boat launches promoting water safety, provide "Good Lake Neighbors Etiquette" fliers, work with other lake associations to share best practices, attend educational conferences, host MSU's mobile boat wash to educate boaters on spread of AIS. Develop a brochure to promote donations and membership.

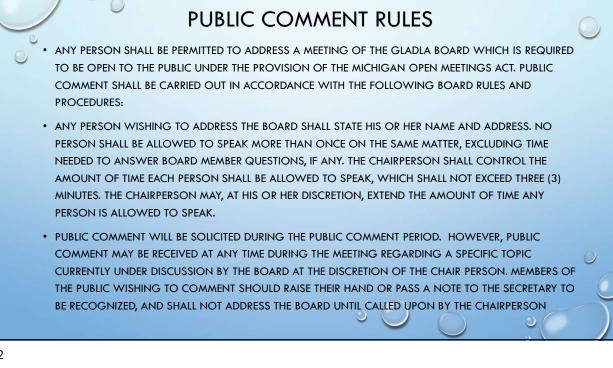
<u>Distribute Information to Members --</u>To publish and distribute newsletters, and keep the public informed about key issues affecting Green & Duck Lakes

<u>Website/Facebook</u> -- To communicate and to make online operations more convenient for members. To share information about Green and Duck Lakes with the online community.

Monitor Fiscal and Civic Matters

Work with Township, County, and State Government s, DNR, EGLE, State, and Other Lake Associations -- To work cooperatively with DNR, EGLE, Conservancies, and other Michigan Lake Associations.

<u>Membership Funds</u>—To accumulate funds to ensure the protection of Green and Duck Lakes through visionary stewardship of the Lakes Watershed, set aside money for treatment of invasive species.



GUEST SPEAKER – BREANNE GRABILL

Bre Grabill began working for PLM in 2002 and is a graduate of Michigan State University with a Bachelor's Degree is Environmental Studies and Applications. At MSU, Bre focused her studies on watershed management and limnology, studying water resources not only in Michigan but across the world in Antarctica. She currently works as our Northern Lakes Manager. Growing up on an inland lake in Newaygo County, Bre has a personal and professional interest in proper lake management, aquatic plant control and the environment. As Senior Regional Manager, Bre's division spreads over the entire Northern part of the Lower Peninsula as well as Upper Peninsula and works directly with lake associations, residents, townships, and lake boards in managing their waterbodies on some of the largest lakes in the State of Michigan. Bre is actively involved with numerous organizations and in her spare time enjoys spending time with her family on the lake.