### Fall 2023

### Note from the President

from Noah Lottig, PhD, TLA President

Dear Tomahawk Lake Association Members and Supporters,

Association, Ind

As the vibrant hues of autumn transition to blankets of snow on Tomahawk Lake, I find myself reflecting on the summer gone by. It was a season filled with shared memories, laughter echoing across the water, and the collective efforts of our community to ensure the health and beauty of our lake system.

First and foremost, I want to extend my heartfelt gratitude to every one of you. Your unwavering support, both financially and through countless volunteer hours, has been the backbone of the Tomahawk Lake Association (TLA). Without you, TLA would simply not exist. Your commitment and passion for our lake system have been evident in every endeavor we've undertaken.

Additionally, I'd like to take this opportunity to remind everyone about the importance of renewing your TLA membership. If you haven't done so already, please consider renewing today. Your membership not only provides vital financial support, but also strengthens our collective voice and commitment to the lake. Together, as a united community, we can achieve so much more. Renew today and continue to help us "Preserve and Protect Tomahawk Lake."

We have many accomplishments to be proud of this summer as a community. One of our most significant achievements was minimizing the impacts of Eurasian Water Milfoil (EWM) on our recreational activities. This was made possible through our harvesting initiative, which we proudly executed in partnership with the Wisconsin Department of Natural Resources and Aquatic Plant Management, LLC. After the setback of the unsuccessful ProcellaCOR trial in 2019, we are thrilled to report a successful application in Town Bay this year. Jim Kavemeier led an effort, in collaboration with the Town of Lake Tomahawk, to install a new sign and information center at the Town Bay landing. This center serves as a hub for information dissemination. Finally, our commitment to preserving the pristine nature of our lakes continued with the Clean Boats Clean Waters program. Through

(Continued on page 2)

Hazelhurst • Lake Tomahawk • Minocqua • Woodruff

Lake life in the Northwoods

#### GO ONLINE TODAY TO DONATE www.tomahawklake.org

#### **DEDICATED TO TOMAHAWK LAKE**

The Tomahawk Lake Association is the only resource dedicated exclusively to Tomahawk Lake. This does not mean that the issues we address necessarily are unique to our lake, but they are of high concern to those who care about the lake. Tomahawk Lake unites us as an "interest group," which gives us greater capacity to preserve and protect this beautiful lake through our combined efforts and financial resources.

#### SIGN UP ONLINE FOR E-NEWSLETTER www.tomahawklake.org

#### **Learn More About Your TLA**

We hope you take a little extra time to carefully read through all the educational articles in this newsletter. Feel free to reach out to any board member with questions or concerns.

Tomahawk Lake Association's Purpose, Vision, and Mission Page 2
Leading The Way – Lake Management Plans Page 4
Update on Town Bay Chemical Treatment Page 8
Strategy Behind Fall Harvesting of Milfoil Page 8
Why TLA No Longer Operates DASH Boats Page 9
TLA's Evolution in Managing EWM with Chemicals
Have a wonderful Holiday Season.

Please shop local for your holiday gifts and gift cards to support our area businesses!

Join our Facebook page at: www.facebook.com/ groups/104527072922/

info@tomahawklake.org | www.tomahawklake.org

Tomahawk Lake Association P.O. Box 535 Minocqua, WI 54548

### Note from the President

(Continued from page 1)

this initiative, we've emphasized and taken proactive steps to minimize the introduction of new invasive species into our beloved lakes.

The overarching goal of our newsletters is to keep you informed, engaged, and inspired. We aim to provide a comprehensive overview of our activities, insights into our strategies, and a glimpse of our vision for the future.

In this newsletter, we share our purpose, vision, and mission along with our overarching lake management plans. We are also including a brief history of our fight against EWM and how the use of mechanical harvesting, chemicals, and DASH (Diver-Assisted Suction Harvesting) boats all figure into our strategy. It's a testament to our shared journey: our challenges, our successes, and our unwavering commitment to Tomahawk Lake.

As we look ahead, I am filled with optimism. With your continued support, I am confident that we will overcome challenges, seize opportunities, and ensure that the Tomahawk Lake System remains a cherished haven for generations to come. Thank you for being a part of this journey.



Noah Lottig, PhD♥ President, TLA, Inc. 218-310-7460 info@tomahawklake.org



# Tomahawk Lake Association's Purpose, Mission and Vision

Organization Purpose: As outlined in our Articles of Incorporation, TLA's foundational purpose is "to provide for education and support for the protection of the Tomahawk Lake Watershed." The

document further elaborates on our commitment to "promote and support the public and users of Tomahawk Lake, Little Tomahawk Lake, Mud Lake, and Ink Well Lake." In alignment with these goals, TLA actively acquires, shares, and circulates information among its volunteer members concerning environmental protection, water quality, land use, and other related topics.

In essence, TLA's overarching objective is to lead the efforts to protect the Tomahawk Lake Watershed through **education**, **advocacy**, **and support**. Our purpose is multifaceted by addressing both the environmental and regulatory dimensions of lake conservation and ensuring a comprehensive approach to the wellbeing of our cherished lake system.

#### Mission Statement: "To promote and enhance the health of the Tomahawk Lake System and its watershed."

Originating from our 2009 Comprehensive Lake Management Plan (CLMP), TLA's mission underscores the vitality of the lake system, encompassing facets like water quality, biodiversity, and ecological equilibrium. The terminology "promote" conveys our dedication to raising awareness and advocacy, while "enhance" signifies our active endeavors to uplift the lake's present condition.

#### **Vision Statement:**

"The Tomahawk Lake System is a place where water quality, wildlife habitat, natural beauty, recreational opportunities, and peace and tranquility are preserved and enhanced for the enjoyment of both current and future generations."



Also developed in the 2009 CLMP, our vision for the Tomahawk Lake System is both ambitious and inspiring. It seeks a harmonious blend of ecological preservation and recreational enjoyment. By emphasizing the interests of both today's community and generations to come, our vision sets a clear and sustainable path for TLA's strategic efforts.

#### Tagline: "Preserve and Protect Tomahawk Lake"

TLA's tagline, both brief and resonant, captures the essence of our association's commitment. The term "Preserve" reflects our pledge to uphold the lake's existing splendor, while "Protect" reiterates our proactive stance against potential threats.

We invite all members and stakeholders to join us in our continuous journey to uphold and realize these guiding principles for the betterment of the Tomahawk Lake System.

## A Huge Thank You to Margo!



It is at this time that the Tomahawk Lake Association (TLA) announces Margo Oppenheim's decision not to seek another term on the TLA Board. This is done

with tremendous respect, admiration, and appreciation for all Margo has contributed to the TLA and its Board.

The Tomahawk Lake Association is grateful for Margo's dedication and commitment to protecting the pristine waters of Tomahawk Lake through her volunteer service to the TLA. Margo has been an important part of the TLA dating back nearly to its inception in the early 2000's. She served on the Executive Committee as secretary for many years before becoming vice president. She also chaired the Events Committee, on which she led the efforts for the Hermit Island Swim & Paddle Challenge and Sip 'n Bid fund-raising events. Margo coordinated donations from local business owners to make fund-raising events a success, sold TLA merchandise out of her garage, and served as a historian of sorts on many matters surrounding the Minocqua area. During the last several years, Margo supplemented our newsletters with "Margo's Minocqua Minute," allowing those of us from afar to stay abreast of local changes on the restaurant scene and other "big developments" in town.

Margo has spent almost her entire life on Tomahawk Lake. Her family owned Klippel's Landing (now Lakeside Grill) in the 1950's and 60's. She and her husband, Al, built a home on the site of the old homestead and spent many wonderful summers with their daughter, Lindsay, on the lake.

Margo, we <u>thank you</u> for your years of service and dedication to the Tomahawk Lake Association. Your contribution and passion for Tomahawk Lake are immeasurable. You will be missed!

# By the Numbers \$!!

#### from the Treasurer's desk

Dear TLA Contributing Members,

Thank you is again the message of this article. The chart below summarizes our performance to the 2023 annual budget. Although the year is not complete, I am pleased to report we should finish the year with a small surplus of \$3,400 vs. the \$22,000 deficit we projected earlier this year.

#### Here are a few words behind the numbers...

Membership dues exceeded expectations. In our Spring newsletter, we asked you to "Stay the Course" and consider renewing your 2023 membership at the same level as 2022. Your commitment to the TLA is appreciated and helped us exceed our budgeted income by over \$15,000.
Chemical Treatment expense will be under budget by \$20,000. Since the Wisconsin DNR did not approve our permit to apply ProcellaCOR in Echo Bay, these unspent grant funds will be carried over to treat another bay next year based on permit approval.

• Harvested 95 days instead of 90 days. Our original budget of \$180,000 included 90 days of harvesting at \$2,000 per day. We decided to extend harvesting into early October to give us a head start on controlling EWM in the spring (see the Strategy Behind Fall Harvesting of Milfoil article on page 8).

The Board of Directors remains committed to managing all sources of our income with the utmost care and does not take any of them for granted. We appreciate the funding we receive from our town governments and support from DNR grants when awarded. **But most of all, we appreciate you and your support of the TLA!** Your membership dues are our most important source of income to help us preserve and protect Tomahawk Lake.

Bruce Forsberg, TLA Treasurer

#### Tomahawk Lake Association 2023 Annual Operating Budget Comparison

	ANNUAL BUDGET		ANNUAL FORECAST	
		90 DAYS IARVESTING		95 DAYS IARVESTING
Income				
Town Revenue	\$	24,000	\$	24,000
Grant Revenue		137,759		121,469
Membership Dues		110,000		135,855
Event Income		8,000		4,650
Misc. Income		7,241		16,026
Total Income	\$	287,000	\$	302,000
Expenses				
Payroll Expenses	\$	10,000	\$	9,437
EWM Monitoring / Planning		22,745		20,866
Chemcial Treatment		59,920		39,887
Harvesting Contractor		180,000		190,800
Member Communication		8,000		8,027
Event Expenses		10,000		4,858
Shoreland Stewardship		8,450		8,343
General Operations		4,875		5,162
Depreciation		510		510
Accounting & Legal Services		4,500		10,710
Total Expenses	\$	309,000	\$	298,600
Shortfall / Surplus	\$	(22,000)	\$	3,400

## Tomahawk Lake Association – Leading the Way

### Comprehensive Lake Management Plan and Aquatic Plant Management Plan

Preserving the Tomahawk Lake System's health, beauty, and recreational use requires careful stewardship. This effort is Tomahawk Lake Association's (TLA) primary goal.

The Tomahawk Lake System includes Tomahawk, Little Tomahawk, Mud, Inkwell Lakes, Paddle Pond, and the Tomahawk Thoroughfare to Thoroughfare Road Bridge. Tomahawk Lake and Little Tomahawk Lake are designated Outstanding Resource Waters (ORW) by the Wisconsin Department of Natural Resources (WDNR). To receive the ORW designation, a lake must meet three criteria: provide outstanding recreational opportunities, support valuable fisheries and wildlife habitat, and have good water quality. Unfortunately, only 1% of all Wisconsin lakes, rivers, and streams have received this designation.

Two documents guide TLA in its lake management decision-making process. The Comprehensive Lake Management Plan (CLMP) and the Aquatic Plant Management Plan (APM).

#### **Comprehensive Lake Management**

**Plan:** The CLMP, as its name implies, provides a comprehensive foundation to make good management decisions for years to come. The plan includes data about the aquatic plant community, watershed, shoreland management, fisheries, wildlife, and water quality to determine the condition and quality of the Tomahawk Lake System. It also presents a strategy for lake management actions to achieve the lake management plan goals. The plan is guided by shoreland property owner input, scientific data, and Wisconsin Department of Natural Resources requirements.

The WDNR considers the CLMP current for a period of ten years. The WDNR may determine that a longer lifespan for the CLMP is appropriate when the plan has been actively implemented and updated during its lifespan. To continue eligibility to apply for WDNR grants, the CLMP must be considered current.

#### A CLMP for the Tomahawk Lake System was approved by the WDNR in 2016.

The 2016 CLMP goals are:

- 1. Maintain a diverse, native aquatic community.
- 2. Preserve the quality of Tomahawk Lake System waters.
- 3. Balance recreational uses important to lake residents and visitors with preserving the natural lake environment.
- 4. Engage the lake community in lake and watershed stewardship practices.
- 5. Partner with area organizations, government agencies, and local businesses to support the goals of the lake management plan.

## Since 2016, TLA implemented the CLMP goals by:

 Managing existing invasive species while preserving native aquatic plant communities and providing recreational access to the lake;

- Preventing the introduction of new aquatic species; and
- Promoting good shoreland management practices by encouraging shoreland owners, through the *Lake Steward Initiative*, to maintain and improve critical shoreland habitats and minimize runoff from entering the Tomahawk Lake System.

#### Aquatic Plant Management (APM)

**Plan:** Aquatic plants are a critical component of the freshwater environment. They help to ensure good water quality and clarity through their influence on sediment stability, nutrient uptake, and oxygen content while providing habitat and food for fish and wildlife. *Said differently, without a healthy balance of native aquatic plants, water can become cloudy, smelly, and filled with algae.* 

#### The APM Plan includes:

- (a) native and non-native shoreland and aquatic plant surveys, so we know what plants are growing and where they are growing,
- (b) a riparian property owners survey,
- (c) aquatic plant best management plan (BMP) options and recommendations, and
- (d) a public presentation of the plan. BPMs for aquatic plant management change rapidly as new information about the effectiveness, non-target impacts, and risk assessment emerges.

Because the science and understanding of aquatic plant management is constantly evolving, and to be eligible to apply for grants that provide cost sharing for Aquatic Invasive Species (AIS) control and monitoring, the WDNR recommends the APM Plan be updated every five years. The WDNR may determine a longer life span when the plan has been actively implemented and updated during its lifespan.

During 2021-2022, content of the APM Plan was updated based on the lessons learned and also incorporated aspects of shoreland condition and lake stewardship. The WDNR approved the updated APM Plan in December 2022.

#### **APM Plan Key Takeaways**

- 1. The APM Plan fulfilled two main objectives:
- a. Collect detailed information regarding the aquatic plant community of the Tomahawk Lake System, with additional emphasis on Eurasian Water Milfoil (EWM).
- b. Collect sociological information from Tomahawk Lake riparian owners regarding their use of the lake and their thoughts on its past and current condition and management of the lake, including use of herbicides and harvesting.
- 2. Native aquatic vegetation is the foundation of a lake ecosystem. The Tomahawk Lake Systems' overall aquatic plant community continues to be healthy and diverse.
- Vasey's pondweed, a species listed as a special concern by the WDNR Natural Heritage Inventory Program, was found in the Tomahawk Thoroughfare. Two submergent non-native species were found: EWM and curly-leaf pondweed. Four non-native emergent species were discovered: pale-yellow

iris, purple loosestrife, narrow-leaf cattail, and flowering rush.

- 4. Best Management Practice is often used in environmental management to represent the current management option supported by the latest science and policy. The herbicide strategies used in the past on the Tomahawk Lake System were considered the Best Management Practices of the time. However, some of these management actions have gone out of favor as new research and information have become available.
- 5. TLA started EWM treatment using a small granular herbicide 2,4-D. Emerging research demonstrated that liquid 2,4-D treatment provided more consistent results at a fraction of the cost of granular products, which prompted TLA to move towards liquid herbicides. The exposed and offshore locations of many of the EWM colonies on the Tomahawk Lake System still proved difficult for 2,4-D to reach sufficient exposure times. New herbicide chemistries. such as ProcellaCOR, have recently been found to be effective in spot treatments, particularly when employed in partially contained bays. While ProcellaCOR's toxicological rating may suggest it is safer than other herbicides, it is not without risk. The TLA Planning Committee discussed these risks and was mainly concerned with the unknown long-term risks of herbicides.
- 6. The TLA Planning Committee devised an Integrated Pest Management (IPM) program for managing EWM populations on Tomahawk Lake and portions of Little Tomahawk Lake. An IPM program is an approach to manage a species that utilizes

a combination of methods more effective when applied collectively as part of a defined strategy than when conducted separately. Because most of the lake is not conducive to herbicide management, TLA will primarily use mechanical harvesting to minimize the nuisance conditions caused by EWM populations.

 TLA intends to use herbicide management in areas less compatible with mechanical harvesting, such as shallow back bays, and areas of the lake which are constrained on three sides where chemicals are expected to be most effective.



8. TLA promotes diver-assisted suction harvesting (DASH). Removing EWM in navigation lanes through hand harvesting can be an effective nuisance mitigation technique. TLA intends to help connect the benefiting riparian owner with a contracting firm and assist with the permitting. The cost of the activity will be the responsibility of the benefiting riparian owner.

#### Copies of the CLMP, APM, and APM appendices are available on our website at www.tomahawklake.org/ resources

#### **Environment & Education Committee**

Jim Kavemeier David Burbie Donna Kempf Tess Mallery Paul Shain

# THANK YOU! from your TLA Membership Committee

For the second consecutive year, your membership contributions exceeded our annual budget! Your generosity clearly indicates your commitment to our Comprehensive Lake Management Plan (CLMP) to preserve and protect Tomahawk Lake for future generations. For the 2023 calendar year through September 30, 232 members contributed over \$137,000. A list of our contributing members can be found on the next page.

Membership contributions continue to be our largest and most important source of income. Although we have been fortunate to receive Wisconsin DNR grants in each of the last two years for both harvesting and chemical treatments, those carry the biggest amount of uncertainty given the competitive nature of the process, limited state resources, and increasing number of lakes competing for funding to fight invasive aquatic species.

Your membership dues enabled us to harvest Eurasian Water Milfoil (EWM) for 95 days, 5 days beyond what we planned! Your dues also allowed us to continue our effort to staff the Lake Tomahawk and Indian Mounds campground boat ramps with attendants who check boats to prevent the spread of other invasive species from entering our lake. Their attention to detail is exactly what we need to continue to benefit from our Clean Boats Clean Water program.

In June, we held our annual meeting at Kemp Natural Resource Conference Center with over 70 participants in person and via the online web stream. Eddie Heath of Onterra Consulting provided a status of our CLMP. He also educated us on how the effectiveness of chemical treatments is dependent upon the geography of the treatment area (i.e., why past chemical treatments in Lakes Minocqua and Kawaguesaga were more effective than in Lake Tomahawk). The Aquatic Plant Management team also provided a summary of the 2022 harvesting activity and the June 2023 chemical treatment of Town Bay.

This annual meeting communicates critical updates regarding our lake management plan and shares education regarding the latest science on EWM management methods such as harvesting and herbicides and their impact and effectiveness of our lake and chain. Just as important, the annual meeting is an efficient time when you can share feedback and ask questions. After-all,

Tier	Contribution Range	Contributing Members	Percent
Soaring Eagles	\$1,000 & over	48	21%
Whispering Pines	\$500 - \$999	74	32%
Calling Loons	\$100 - \$499	107	46%
Other	< \$100	3	<u>1%</u>
		232	100%

#### **Contribution Profile through September 30, 2023**

#### Average contribution per member is \$591.

your input helps shape TLA's lake management plan, so please come learn and share your thoughts! Details for our 2024 annual meeting will be in our Spring newsletter.

If you have not had a chance to renew your membership or you would like to join the TLA, you can do so on our website at https:// www.tomahawklake.org/join-tla-or-renew-your-membership/ Thank you for your continued support and we wish you and your family and friends a safe and healthy winter season.

#### TLA Membership Committee

Bruce Forsberg Sheila Forsberg Jake Harmsen Adam Redman

#### **TLA BOARD MEMBERS**

Noah Lottig – President noah.lottig@tomahawklake.org 218-310-7460

Scott Harmsen – Vice President scott.harmsen@tomahawklake.org 414-617-4541

Bruce Forsberg – Treasurer bruce.forsberg@tomahawklake.org 847-567-2020 Nancy Olson – Secretary nancy.olson@tomahawklake.org 414-915-4062

Jim Kavemeier – Director at Large jim.kavemeier@tomahawklake.org 262-542-0212

David Burbie – Director david.burbie@tomahawklake.org 626-429-0798

Mary DeNamur – Director mary.denamur@tomahawklake.org 715-367-4010 Tess Mallery – Director tess.mallery@tomahawklake.org 773-562-6424

Louis Molepske, Jr. – Director louis.molepske@tomahawklake.org 715-340-2898

Adam Redman – Director adam.redman@tomahawklake.org 712-892-7325

Josh Rikkers – Director josh.rikkers@tomahawklake.org 608-228-2427

# THANK YOU! to our TLA Members!

#### Soaring Eagles \$1,000 or

more (53 members) Abbott, Kathryn Andersen, lames Anderson, Tom & Pam Beech, Tom & Carol Bilik, John & Lisa John Black & Ann Taylor Sarah Boles & David Norris **Clearwater Camp Foundation** Daly, Pat & Kathy Dell, JD & Ann Donner, Keith & Gail Fites, Donald & Joyce Foster, Race & Lynne Fox, Tony & Erin Francois, Joseph & Penny Gauchel, Peter & Brenda Gauerke, Scott & Pam Gerdin, Michael & Nicole Gerstner, Jeff & Dian Griffin, John & Kim Groth, Michael & Linda Harmsen, Scott & Tammy Hoehne, Faye Kavemeier, Jim & Kathy Krueger, Ken & Mary Kujak, David & Erin Lakeside Landing Condominum Assoc. Larsen, John & Theresa Laurino, Carl & Jerilyn Lynch, Patrick & Gail Mallery, Ryan & Denise Tess Mallery & Matt Hankins Mallery, Tuck McFarlane, Tim & Deborah Morrissey, Scot & Christine Orr, Joanne Redman, Adam & Melissa Rikkers, Fred & Linda Roehl, Richard & Tamie Roehl, Donna Schuette, Jay & Gretchen Schuette, Rudie Schutz, David & Susan Schwantes, William & Nanette Shain, Paul & Suzy Solberg, Trygve & Tula Sperling, James Swaney, Tom & Pat Thompson, Patrick & Janet Tomahawk Shores Owners Assoc Ltd Vehrs, Don & Chrisy Willer, Kurt & Constance Wright, David

#### **Whispering Pines**

**\$500 – \$999** (77 members) In Memory of Mike Igoe & Don Janssen Albee, Alan Baines, Jim & Cathy

Bany, Stephen & Lynda Bateman, Bill & Marsha Bergman, Don & Bonnie Burbie, David & Trish Coriell, Gene & Chris Cote, Roger & Fran Cote, Steven & Lyn DeNamur, Steve & Mary Dierberg, Jeff & Birgit Drummond, Gary & Lori Egen, James & Mary Sue Ferguson & Family Fisher, Russell & Chris Fitzgerald, John & Kate Forsberg, Bruce & Sheila Fowler, Jim & Susan Gabby, Bill Gantz, James & Jean Gjermo, Bruce & Sherri Goltermann, John & Lori Good, David & Patricia Hanson, Mark & Marisa Hardel, Jeff & Jen Harry, David & Kathy Hartwig, Mary Hearthwood Property Owners Assoc. Hertz, Bob & Leslie Hoellerich, Daniel & Lynn Igoe Family Indian Shores RV Resort & Campground Janssen Family Johnson, Todd & Ellen Keele, Doug & Christy Kehart, Michael & Linda Kennedy, Kyle & Nikki Kirschner, Dean & Barb Lottig, Noah & Bryn Lynch, Ross & Ruth Malsack, Philip Martin, Ann & Sally McCorison, Kyle & Katie McEachron, Andy & Barbara McNamar, Pat & Marlys McNamar, Justin Nicholson, Bill & Katie Nisk, Alice Olson, Tom & Nancy Oppenheim, Alan & Margo Paulsen, Patti Paulsen, Richard & Theresa Petersen, David & Carlene Pregont, Daniel & Sally Priebe, Becky Michael Randa & Laura Riesterer Ripp, Mickey Rogers, Jeff & Karen Ross, Bill & Cindy Schuette, Clark & Kathy Scuglik, Jim & Betsy Seramur, John & Joan Sonneland III, Arthur & Kay

Steiner, Kimberly & Dean Stengl, Jim & Chris Thiede, Bob & Cindi Thiel, Eric & Julie Van Asten, Michael Van Ells, Chris & Doreen Vintika, Raymond & Jori Walsh, Jim & Kim Wanserski, David & Lorri Watkins, Clyde & Cheryl Winchester, Brad & Casey Wisnewski, Myron & Rita Yentz, Tom & Patty

#### **Calling Loons**

**\$100- \$499** (110 members) Andersen, Randy & Kathy Bartling, Peter & Lynn Blackwell, Tricia Bloom, John & Judith Bortner, Rebecca Bradish, Alan Broomell, David Broomell, Ken & Nancy Broomell, Dare & Mary Buchheit, Charles & Susan Chupita, Diane & Amy Clausen, Annemette & Henrik Connor, Eugene & Yvonne Converse, Patrick Converse, Arlan & Marilyn Correnti, James & Carol Correnti, Christopher & Cynthia Cote, Mark Crone, John & Linda Dalton, Daniel & Sheila Davidson, Michael & Martha Drewke, Richard & Denise Dwyer, Peter & Marika Edgerley, David & Laura Elliott, Craig Etzel, Gary & Holly Faulks, Robert & Christine Filippo, Sam & Susan Bryan Fink & Amanda Zoellner Fisher, Roger & Donna Franck, Aaron & Carla Frost, Jack & Delores Gazeley, Janis & Gail Gelinas, Mike & Cathy Glencoe Lake House LLC Goltermann, Christine Gudenkaufs Hagnauer, E.F. & Julie Hamel, Joseph & Ruth Hanson, John & Carolyn Harding, Ann Harwood, Richard Haugh, David Haugh, John & Pamela Hilgemann, Paul & Rene Hilgemann, John & Sandy Hill, Jeffrey

The following list includes contributions and Hermit Island Swim & Paddle Challenge sponsorships received from 240 members between November 1, 2022 through October 31, 2023.

> Hilltop Condominums Hogan, Scott & Shelly Huggett, Wes & Kelley Jacobs, Mark & Judy Johnson, Mike & Dawn Jones, Wendy Kempf, Donna Klecker, Francis & Judith Klement, Jeff & Patricia Kuettner, Karen Lesch, Donna Lewis, Trevor Lloyd, David & Rose MacDonald, Helen Mackie, Alexander & Kelly McCarthy, Justin & Nora McDonald Family McLay, Douglas & Kathleen Meitus, Scott Molepske, Sr., Louis & Sue Mortlock, Kevin & Nicole Nichol, Patricia Nichols, Christopher & Maureen Nikolai, Allan & Rob Oberpriller, Mary O'Connor, Brian & Nicole O'Connor, Todd & Patricia Pagel, Keith & Lisa Palmer, Sarah & Pete Perina, Robert & Sarah Pokorny, Laddie & Evalyn Priebe, Dustin & Kimberly Rheinschmidt, David & Judie Rich, Mark & Devra **Rikkers Kids** Rine, Gary & Sharon Romanski, Roger Romanski-Morlock Family Saari, Robert & Susan Scharer, Nathan & Krista Simenstad, David & Martha Sloan, Raymond Smith, Laird & Nancy Smithing, William & Patricia Sobocinski, Michael & Sarah Sosnowski, Brian & Darlene Sovine, Tom & C.C. Stankowski, Ervin & Patricia Stansell, Gil & Sandy Steiner, Kimberly & Dean Swaney, Tom & Pat Thalacker, Rick & Cyndi Thompson, James Troyer, Bryan & Jane Vance, Hobey & Carol Watson, James & Beverly Weddle, Andrew Weldon, Robert & Elizabeth Winger, Kevin & Patti Witte, Mark Woller, Steve & Nancy Wright, Daniel & Elizabeth Zimmer, David & Patti

# Update on Town Bay Chemical Treatment

In alignment with our Aquatic Plant Management (APM) Plan, the Tomahawk Lake Association (TLA) sought permits from the Wisconsin Department of Natural Resources (WDNR) to conduct chemical treatments in two specific bays: Town Bay and Echo Bay. Although our application for Echo Bay was declined due to concerns surrounding walleye spawning habitats, we received approval to treat Town Bay.

In mid-June, shortly before our Annual Meeting, we partnered with Aquatic Plant Management, LLC to apply ProcellaCOR in Town Bay. Fast forward to late September, Onterra, our lake consulting partner, undertook a survey of Town Bay to evaluate the effectiveness of the chemical treatment.

The ProcellaCOR treatment proved highly effective in eradicating EWM within the treated zone, leaving no significant areas of EWM this fall as shown in the 2023 map compared to 2021. *Typically, such treatments offer relief from nuisances for an estimated three years*. Considering the unsuccessful application of ProcellaCOR in other areas of the lake in 2019, this recent positive outcome has increased our confidence in incorporating ProcellaCOR into our future management strategies.

We plan to apply for a permit to treat additional areas in 2024.

Onterra is still completing its analysis of the Fall 2023 survey data. For a comprehensive analysis of this treatment, as well as results from our entire lake EWM survey, stay tuned for our Spring 2024 newsletter. We're committed to keeping our community informed and ensuring the health and beauty of Tomahawk Lake.



### Strategy Behind Fall Harvesting of Milfoil

As the summer season winds down and many residents depart from the serene surroundings



of Tomahawk Lake, some might notice the TLA harvester still at work, cutting down milfoil in the late September and early October chill. This might raise the question: Why does the TLA continue its harvesting operations after most property owners have left for the season? The answer lies in understanding the unique life cycle of Eurasian Water Milfoil (EWM).

#### EWM's Evergreen Nature

Unlike many aquatic plants that die back during the colder months, EWM is evergreen. This means it remains alive throughout the winter, albeit in a dormant state. Come late September, the plant ceases its growth and, rather than dying, it simply slumps over. As winter recedes and spring emerges, the EWM stands back up, resuming its growth from the height it had achieved the previous fall. This gives EWM a significant advantage, as it can overshadow and block out native plants, preventing them from flourishing.

#### **Benefits of Fall Harvesting** Harvesting EWM in the fall offers several strategic advantages:

**1. Weakening the Plant:** Preliminary evidence suggests that consistent cutting of EWM in the late fall, over multiple years, can weaken the plant. This repeated cutting may reduce the plant's overall health, leading to a decrease in its density in the lake.

2. Preventing a Spring Nuisance: If left uncut, the tall EWM plants would have a considerable head start come spring. They would immediately become a nuisance, overshadowing the lake's surface and hindering the growth of native plants. By cutting them in the fall after they have stopped growing, we ensure that the lake doesn't start the new season already overwhelmed by EWM.

**3. Giving Native Plants a Fighting Chance:** Removing the tall EWM plants in the fall levels the playing field for the early-growing native plants. Come spring, without the towering presence of EWM, these native plants have a better opportunity to grow, potentially outcompeting the EWM.

**In conclusion, TLA's fall harvesting strategy** is a deliberate and informed approach, grounded in understanding the biology of EWM and the broader ecosystem of Tomahawk Lake. While it might seem counterintuitive, this approach is a testament to our commitment to preserving the lake's natural balance.

## Why TLA No Longer Operates DASH Boats

The Tomahawk Lake Association (TLA) has always been committed to preserving the beauty and health of Tomahawk Lake. One of the challenges we've faced over the years is the proliferation of Eurasian Water Milfoil (EWM) around our docks, shore stations, and swim rafts. In the past, we employed TLA-operated Diver Assisted Suction Harvesting (DASH) boats as a method to combat this invasive species. However, after careful consideration and consultation with our community, we decided to discontinue the operation of DASH boats on the lake in 2022.

#### Here's why:

**Time Constraints:** Providing DASH services for all residents of Tomahawk Lake is a time-intensive process. It would take between 70 and 90 days to cover the entire lake. Moreover, for the treatment to be effective and provide relief to residents before the end of summer, DASH services would need to be completed by mid-July. We would have needed 3 or 4 DASH boats to accomplish this and operators who only wanted to work for a short period of time.

**Operational Costs:** The two existing TLA boats come with a hefty price tag. The cost to operate each DASH boat exceeds \$30,000 for a summer. With the retirement of our executive director, we lost our in-house expertise in operating, maintaining, and training staff for the DASH boats. Hiring a permanent employee to take over these responsibilities would have added significant costs along with needed upgrades and maintenance of the existing boats.

**Logistical Challenges:** Beyond the operational costs, we faced logistical challenges. Finding docking locations for the boats during the summer proved difficult. Additionally, we lacked the necessary vehicles and trailers to transport the harvested EWM to waste facilities. Addressing these

challenges would have further increased our operational costs.

#### Limited Coverage:

With only two boats, it was impossible to provide shoreline services to every homeowner on the



lake. This posed a significant challenge: how do we decide who receives the services and who doesn't?

**Outsourcing Considerations:** We explored the option of contracting out these services. Estimates ranged from \$138,000 to \$200,000 annually. While this might seem extremely expensive relative to running our own boats, when factoring in insurance, maintenance, storage, vehicles, trailers for disposal, and the salary of an operations manager, the costs to run our own boats would likely be similar.

**Community Involvement:** On September 25, 2021, the TLA board held a public meeting at Kemp Station to discuss these challenges. We ensured that the entire TLA community was invited and even live-streamed the event for remote participation. The consensus from this meeting was clear: it was not financially feasible to continue providing free DASH services to all homeowners. Moreover, operating a limited DASH service would be problematic due to the challenges in determining service recipients. This meeting resulted in the collaborative decision to embrace a Dock-Out strategy that we have implemented in our management activities.

A New Approach: Understanding the importance of addressing the EWM issue, we negotiated a reduced DASH rate with Aquatic Plant Management (APM) for our Whispering Pines and Soaring Eagles TLA members. This allows individuals to acquire DASH services on their own, at a discounted rate. Furthermore, to simplify the process for homeowners, as part of TLA's services to homeowners, TLA now handles the annual permit applications required for homeowners to work with APM. This eliminates the need for homeowners to navigate the often-burdensome process of obtaining their own permits for DASH services. For individuals who are concerned about the cost of DASH services, there is also the ability to use weed razors to cut weeds around docks, boat lifts, and swim rafts.

In conclusion, the decision to discontinue the operation of DASH boats was not taken lightly and funds allocated to prior DASH efforts are now allocated to harvesting and chemical treatment activities. We believe that our new approach not only addresses the financial challenges we faced, but also provides a more sustainable and equitable solution for all residents.



Join our Facebook page at: https://www.facebook.com/groups/104527072922/

## TLA's Evolution in Managing EWM with Chemicals From 2,4-D to ProcellaCOR

The Tomahawk Lake Association (TLA) has been at the forefront of managing the invasive Eurasian Water Milfoil (EWM) to ensure the health and beauty of our beloved lake. Over the years, our approach has evolved, adapting to new research, regulations, and the unique challenges each year brings.

This article aims to provide an overview of our journey in managing EWM, especially focusing on our use of chemicals.

#### **Historical Approach**

Historically, TLA employed a twopronged strategy to manage EWM: the use of a chemical called 2,4-D and Diver Assisted Suction Harvesting (DASH) boats. However, in 2017, due to several scientific studies, Wisconsin DNR (WDNR) determined 2,4-D was no longer deemed suitable for Tomahawk Lake. For a detailed account of this decision, please refer to the article by our former executive director in the Spring 2017 newsletter located on our website at www.tomahawklake.org/ resources.

#### **Treat-no-Treat Study**

In 2018, with the absence of 2,4-D, TLA embarked on the Treat-no-Treat study to test ProcellaCOR—a newer chemical alternative. The following year, we invested approximately \$56,000 to treat two bays, Echo and Pickeral. The weather conditions seemed perfect, and our neighboring Minocqua Kawaga Lake Association employed the same contractor for the same treatment on Minocqua Lake the following day. However, by summer's end, it became evident that the chemical treatment had failed, as detailed in Ned Greedy's article, "Treat/No Treat" Eurasian Milfoil Study, in the Fall 2019 newsletter at www.tomahawklake.org/ resources. Understandably, this failure made us hesitant to retry, especially considering the financial implications.

#### Challenges of 2020

The COVID-19 pandemic brought its own set of challenges in 2020. Early in the year, we faced uncertainties about hiring staff due to restrictions on state funds intended for our DASH operations and we were also hoping the prior chemical treatments in 2019 would miraculously show success the year <u>after</u> treatment. Unfortunately, our EWM surveys in the treated areas demonstrated that there was no longer any difference in EWM populations in the treated and untreated areas of the study.

#### Regulatory Hurdles and A New Plan

In 2021, we encountered another obstacle. Due to changes in WDNR regulations, our Aquatic Plant Management (APM) plan, which is required to obtain chemical permits, had to be revamped sooner than expected. To address this, we contracted with Onterra to update our APM plan—which was finalized in 2022. This update not only made us eligible for grant funding but also identified ProcellaCOR as a potential treatment option, replacing the now-outdated 2,4-D. A group of lake residents in consultation with Onterra, as part of this planning process, recommended a new trial in 2023 of ProcellaCOR to ascertain if the 2019 failure was an anomaly or due to other factors.

#### 2023: ProcellaCOR Take 2

With our updated APM plan in hand, TLA sought grant funding to support our trial ProcellaCOR treatment. The WDNR awarded us a grant in early 2023, and we applied to treat two bays, Echo Bay and Town Bay. However, the WDNR denied our application for Echo Bay, citing concerns about walleye spawning and the ongoing walleye rehabilitation effort on the Minocqua chain. Minocqua lakes faced similar

herbicide permit denials for two of their three proposed treatment areas in summer 2023. Fortunately, our application for Town Bay was approved and the treatment there proved highly successful based on Onterra's survey this fall.



ī.

#### Looking Ahead

As we move into 2024, TLA plans to identify additional bays for treatment in 2024 and beyond. We remain committed to using chemicals in a scientifically supported and judicious manner, as outlined in our WDNR-approved APM plan. While we recognize that we may not always be able to use chemicals everywhere we'd like, we'll continue collaborating with the WDNR to identify the best potential treatment areas. Our multifaceted approach from the approved APM plan, including DASH, harvesting, chemicals, and in some cases, allowing nature to take its course, will continue to guide our efforts.

#### **Concerns with Chemicals**

The use of chemicals in our lake management strategy is not without its concerns. It took years to fully grasp the non-target impacts of 2,4-D on our lakes. With ProcellaCOR being a relatively recent addition, first used in WI in 2019, there's limited research available on its non-target impacts. As responsible custodians of Tomahawk Lake, we are committed to staying updated with the latest research on ProcellaCOR's effectiveness and any unforeseen effects it might have on the ecosystem. Our primary goal is to ensure that while we address the challenges of today, we do not inadvertently compromise the lake's

health for future generations. We are deeply invested in preserving the legacy of this magnificent lake, ensuring that the decisions we make today are both informed and considerate of tomorrow.

In conclusion, TLA's journey in managing EWM reflects our unwavering commitment to Tomahawk Lake. Through challenges and changes, our goal remains the same: to ensure the health and beauty of our lake for generations to come through sound, scientific-based management actions.

## Introduction to – Shoreline Services Group

Chuck Buchheit, a Pottawattomie Colony resident, is forming and overseeing a new entity called Shoreline Services Group (SSG). This is a service for property owners, within Pottawattomie Colony, who are interested in using the herbicide ProcellaCOR to manage EWM around their individual docks and shorelines. SSG is not eligible for WDNR grants, so the cost of the treatment will be an expense to the individual property owner.

Herbicide application permits for ProcellaCOR treatments are required by the WDNR. SSG will assist Pottawattomie property owners with completing their WDNR permit application. The applications will be collected by SSG and submitted in bulk for approval. If the DNR approaches TLA, TLA will indicate that they are not part of this management effort and will not take a position either in support of or against the herbicide treatment application. If the SSG applications are approved, ProcellaCOR will be applied by Aquatic Plant Management LLC (APM). APM LLC has been approved to apply ProcellaCOR by the WDNR. This past June, TLA used APM LLC to apply ProcellaCOR in Town Bay as part of its awarded 2023 chemical grant and approved permit by the WDNR.



TLA and SSG share a common interest in avoiding overlapping treatment areas. As 2024 plans develop, TLA will advise SSG which areas it proposes for chemical treatment and expects SSG to inform TLA of its plans to treat shoreline areas that are approved for individual ProcellaCOR treatment.

TLA will continue its multifaceted approach to manage EWM throughout the entire lake as set forth in its WDNR-approved Aquatic Plant Management Plan (see the Leading the Way article on page 4 about this plan). Therefore, it is imperative that property owners continue to contribute to TLA to protect and preserve our entire lake.

If you have questions or interest in SSG, contact Chuck Buchheit directly at chuck.buchheit@gmail.com.



Tomahawk Lake Association P.O. Box 535, Minocqua, WI 54548

Update your contact information Email membership@tomahawklake.org to update any information. We need to keep you up to date on happenings around Tomahawk Lake. Thanks!

## 'Tis the Season...

...to start shopping for those on your Christmas list! What better place to start than the Tomahawk Lake Association!

Our new merchandise has been flying off the shelves, but it's not too late to pick up some great gifts.

#### Nike Dri-Fit ½-zip Pullovers

For those chilly mornings or evenings on the boat, we offer Nike Dri-Fit ½ zip pullovers, embroidered with our TLA logo. Available in royal blue (men) and white (women). **\$95** 

#### **OGIO Endurance t-shirts**

Also new this year are men's and women's OGIO Endurance t-shirts with stay-cool wicking technology. T-shirts boldly display the TLA logo for all to see! Available in gear gray heather (men) and gear gray (women). **\$30** 



#### **Sherpa Throw Blanket**

For those cold winter nights, we have a few cozy sherpa throw blankets available! The gray blanket features a plush microfiber on one side and a sherpa fleece on the reverse. It proudly displays our TLA logo and looks as nice as it feels! **\$40** 

**Remember:** All purchases help support and maintain the most beautiful lake in the Northwoods –Tomahawk Lake!

To order your TLA merchandise, please contact Trish Burbie at tmareck@yahoo.com