

ANNUALMETING

THURSDAY | AUGUST 3 | 2023



Our mission is to deliver Walloon Lake, a place where people and nature thrive, to the next generations through the power of conservation.





AGENDA

- I. President's Report Mary Pat Goldich, WLAC President
- II. 2022 Annual Meeting Minutes Marianne Barry, WLAC Secretary
- III. 2022 Treasurer's Report Eden Haven, WLAC Director of Finance
- IV. A Moment of Silence for Departed Members Russ Kittleson, WLAC Vice President
- V. Retiring Trustees Recognition Russ Kittleson, WLAC Vice President
- VI. Speaker Introductions Mary Pat Goldich, WLAC President
 - a. 2022 Water Quality Report Connor Dennis, Land & Water Protection Specialist
 - b. Tips + Tricks: Shoreline Restoration and Greenbelts Jen Buchanan,Red Twig Environmental
- VII. Proxy Results Mary Pat Goldich, WLAC President
- VIII. 2023-2024 WLAC Board President, Russ Kittleson
- IX. Closing Remarks & Adjournment Mary Pat Goldich, WLAC President



PRESIDENT'S REPORT

Mary Pat Goldich, WLAC President





TRUSTEE CANDIDATES

Mary Ann Smith

John Fettig

Marty Makinen (Incumbent)























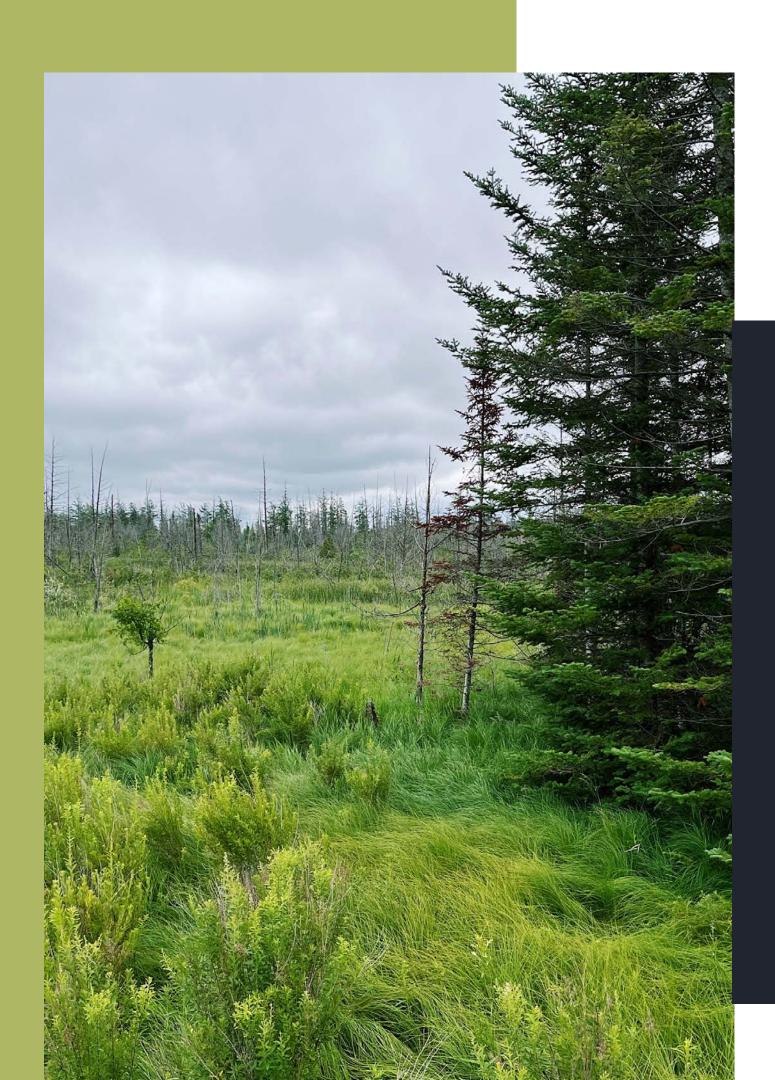






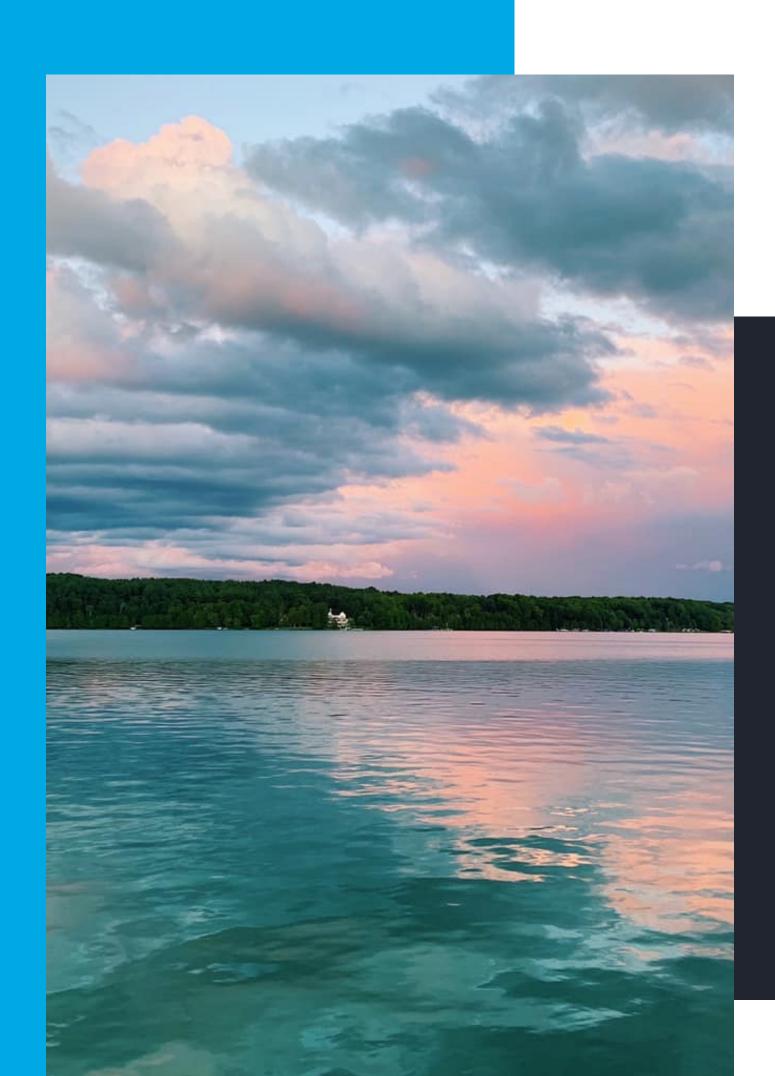






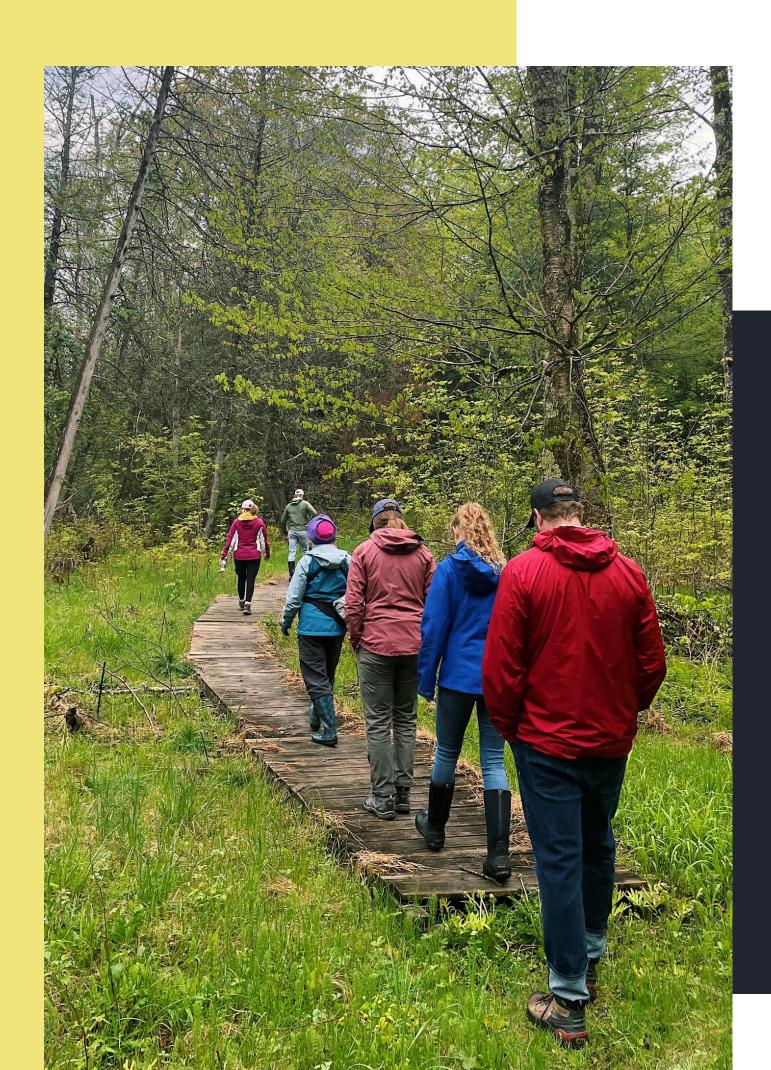
LAND

- Maus Conservation Easement Land Acquisition:
 60 acres adjacent to the Mill Pond Nature Area
- Frog Hollow Expansion: 40-acre wetland addition to Frog Hollow Preserve
- Pollinator Protector Program at Wildwood Harbor Preserve and Voran Family Preserve
- Kiosks installed at all Ambassador properties
- Critical Lands Campaign: An ambitious effort to raise funds for several land protection projects in the Walloon Lake watershed



WATER

- Permanent Boat Cleaning Stations: 4 of 6 launch sites protected!
- Launch of the Move Your Wake, Respect the Lake Campaign
- Ongoing paid Marine Patrol Hours
- Organizational boat donated for water quality monitoring
- Contracted with Jen Buchanan at Red Twig
 Environmental for shoreline, greenbelt, watershed management and grants
- 3rd Annual Native Plant Sale



PEOPLE

- Lake Ambassador Program Relaunch
- New 5-Year Strategic Plan
- Seven Wander Walloons Hikes & Events
- Two Boater Safety Certificate Classes with the Charlevoix County Sheriff's Office
- 75 Dog Memberships
- July "Safety Month"
- Walloon Women's Luncheon
- Intergovernmental Agreement in progress
- Successful Boots on the Ground FUNdraiser!



2022 MEETING MINUTES

Marianne Barry, WLAC Secretary

Introduce Mary Pat Goldich as the upcoming new board president.

Goldich Presentation of the Past President's Burgee

Hatch Closing Remarks

Hatch Adjournment



2022 TREASURER'S REPORT

Eden Haven, WLAC Director of Finance

2022 AUDITED FINANCIALS

WALLOON LAKE ASSOCIATION AND CONSERVANCY

STATEMENTS OF FINANCIAL POSITION

December 31, 2022 and 2021

ASSETS

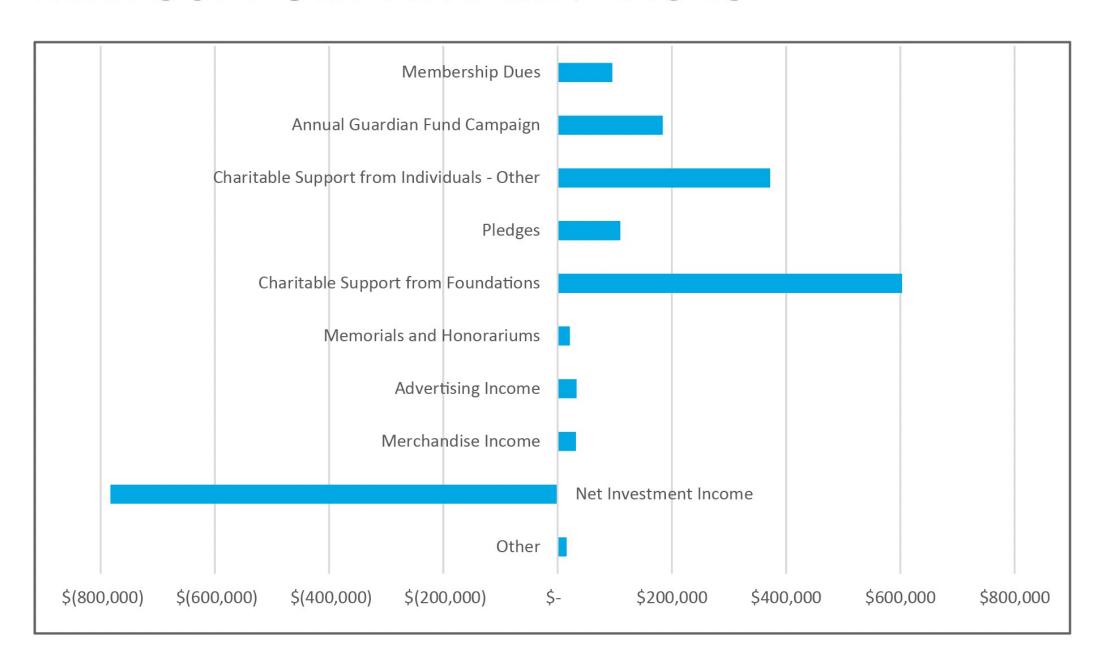
<u>-</u>	2022	2021
Current Assets: Cash in bank Pledges and accounts receivable due within one year Inventory	\$ 454,890 159,459 4,874	\$ 422,668 116,459
Total current assets	619,223	539,127
Investments, at market Pledges and accounts receivable, net of current portion Land and land conservation easements Office equipment and furnishings, net of accumulated depreciation of \$15,014	3,973,561 76,832 8,137,137	4,890,117 176,291 7,782,137
Total assets	\$ 12,817,153	\$ 13,387,672
Current Liabilities: Accounts payable	\$ 7,595	\$ -
Retirement payable Prepaid dues and advertising Notes payable due within one year	19,308 22,615 57,271	3,725 15,275 38,401
Total current liabilities	106,789	57,401
Long-Term Liabilities: Notes payable, less portion due within one year Total liabilities	457,408 564,197	836,858 894,259
Net Assets: Without donor restrictions With donor restrictions	8,884,693 3,368,263	8,932,564 3,560,849
Total net assets	12,252,956	12,493,413
Total liabilities and net assets	\$ 12,817,153	\$ 13,387,672

The accompanying notes are a part of the financial statements.

2022 AUDITED FINANCIALS

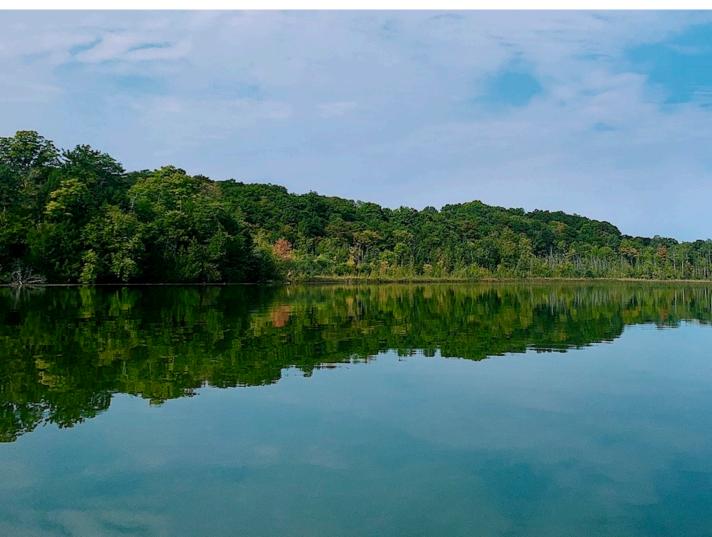
2022 Support and Revenues	
Membership Dues	\$95,455
Annual Guardian Fund Campaign	\$183,877
Charitable Support from Individuals -	
Other	\$371,672
Pledges	\$109,500
Charitable Support from Foundations	\$602,736
Memorials and Honorariums	\$21,032
Advertising Income	\$32,820
Net Investment Income	\$(782,657)
Other	\$15,651
Total:	\$681,589

2022 SUPPORT AND REVENUES





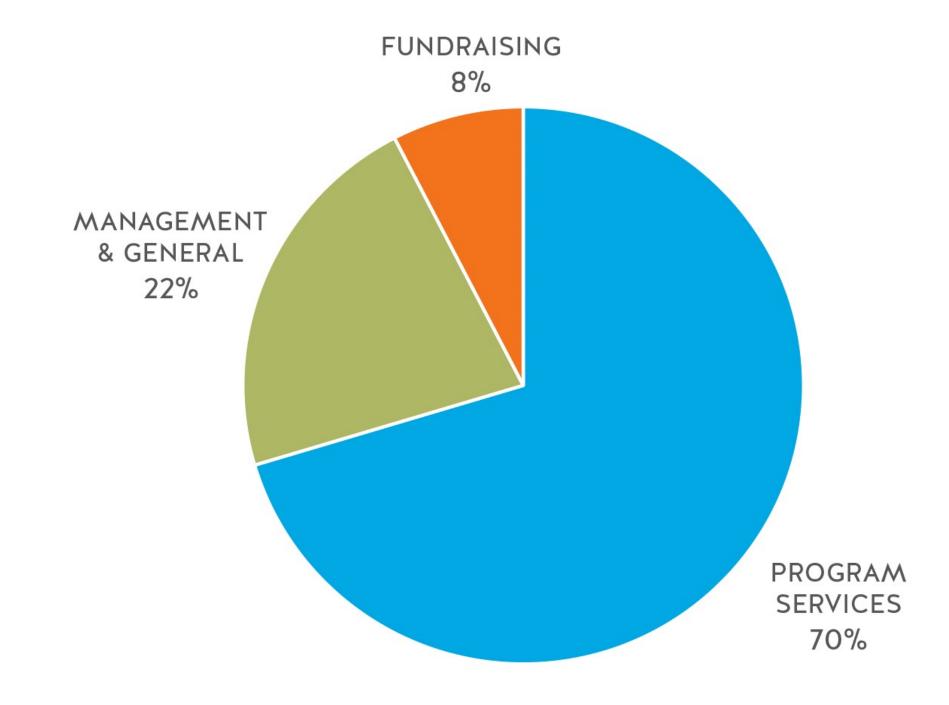




2022 AUDITED FINANCIALS

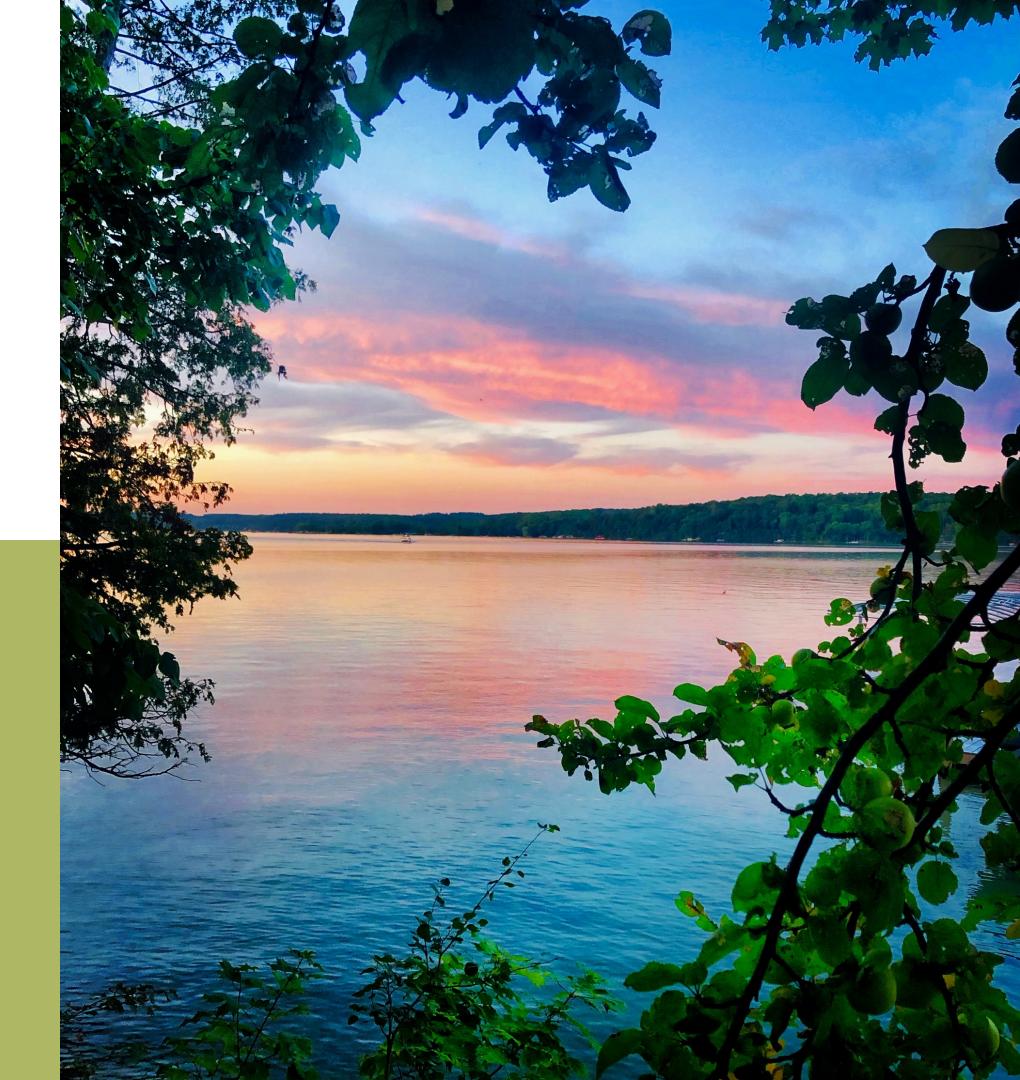
2022 Functional Expenses	
Program Services	\$648,933
Management and General	\$203,082
Fundraising	\$70,031
Total:	\$922,046

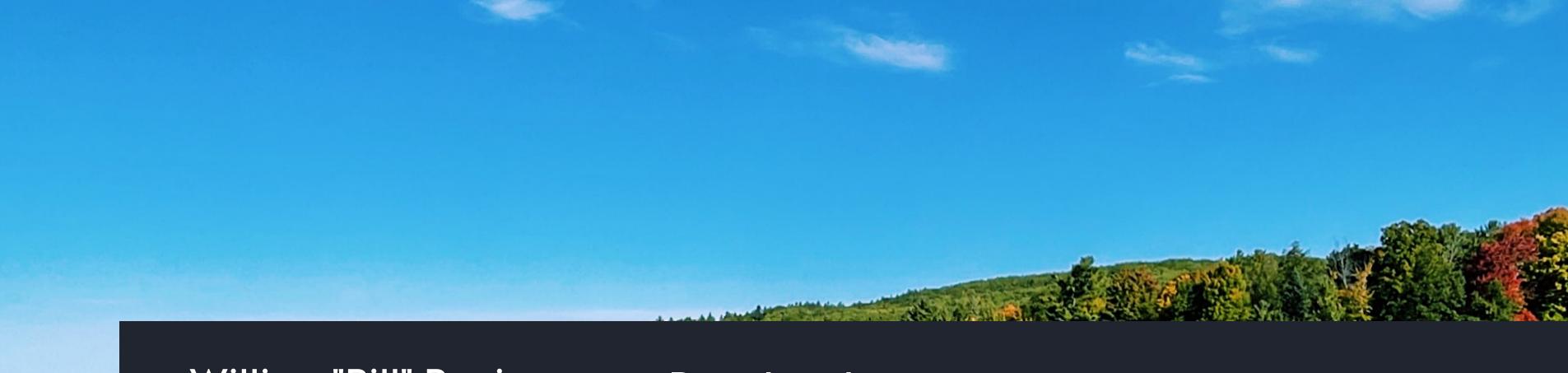
2022 FUNCTIONAL EXPENSES





A moment of silence for our departed members and friends...





William "Bill" Barringer

Dana Lapekas

Stephen "Coach" Rentschler

Mary Erb

Mary Jo Maguire

David Ryan

Maria Furgeson

James Marshall Sr.

Tobey Steinman

Patricia Harkaway

Beverly McKenney

Howard "Jim" Ternes

Robert Hermann

William "Bill" Norcross

Eleanor Zent

Bud Pohl





THANK YOU TO OUR RETIRING WLAC TRUSTEES!

JOHN MARKLEWITZ,

Water Quality Committee
Member, Stewardship
Committee Member/Past Chair,
Water Quality CHAMPION
Volunteer

MARY PAT GOLDICH,

WLAC President, Government Affairs Committee Chair





2022 WATER QUALITY REPORT

Connor Dennis, WLAC Land + Water Protection Specialist, in partnership with Tip of the Mitt Watershed Council

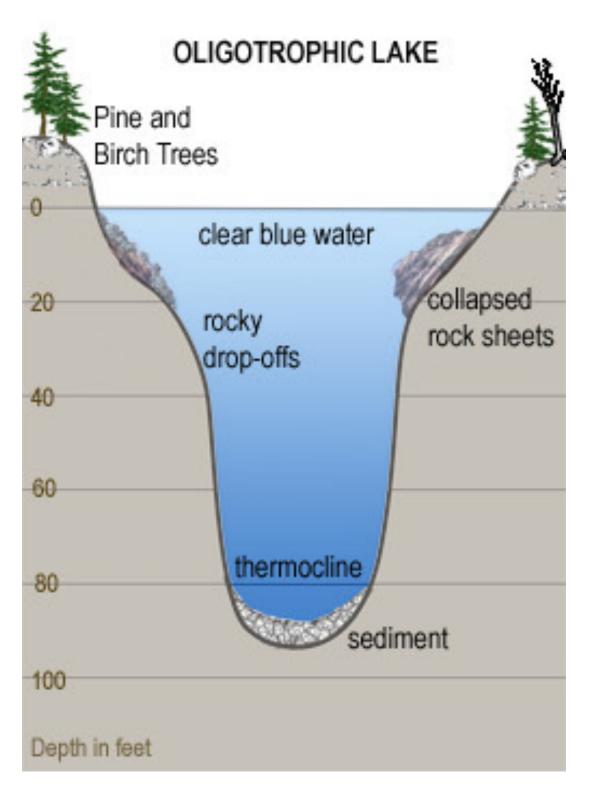


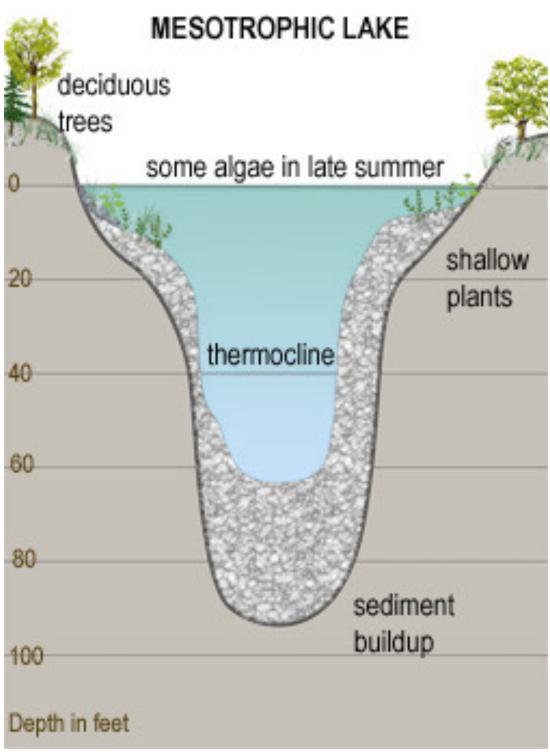
We are pleased to present the results of lake monitoring performed in 2022 by Walloon Lake volunteers as part of the Tip of the Mitt Watershed Council Volunteer Lake Monitoring Program.

- Volunteers collected data following protocols outlined in **Tip of the Mitt Watershed Council's Volunteer Lake Monitoring Quality Assurance Project Plan (QAPP).**
- Water transparency was measured weekly by lowering a black and white Secchi disk
 into the water and recording the depth at which it is no longer visible.
- Chlorophyll-a, a pigment found in all green plants and algae, was collected using a
 water sampler lowered to twice the depth of the Secchi reading. Water was then
 filtered and later analyzed to estimate the density of phytoplankton in the water
 column. Higher chlorophyll-a concentrations indicate greater phytoplankton
 densities, which reduce water clarity.
- These two parameters together can tell us about a lake's productivity, or ability to support aquatic life.
- Water that is clear can indicate a lake without a lot of plant growth, while water that is turbid, or cloudy, can indicate abundant plant life.
- Most lakes in Northern Michigan are phosphorus-limited, meaning the biological productivity (i.e., algal growth) is limited by the amount of phosphorus available.
 Phosphorus is an important nutrient for plant and algal growth; however, too much can have a negative impact on water quality.

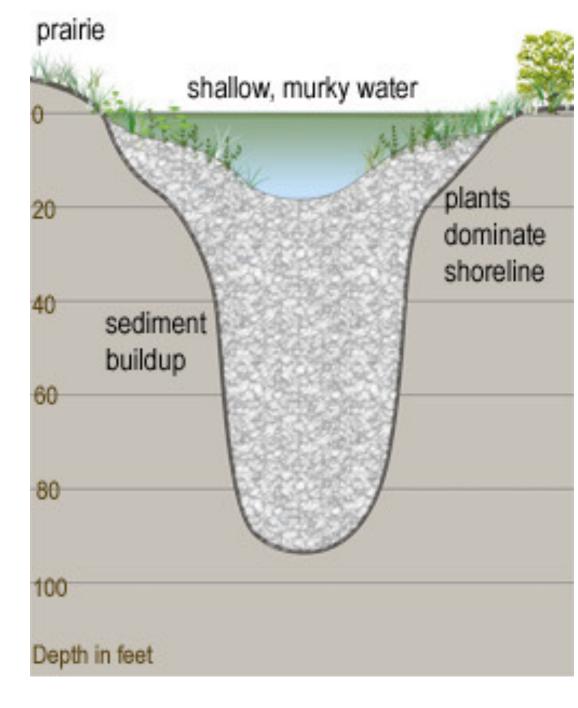


TROPHIC LEVELS





EUTROPHIC LAKE



TROPHIC STATE INDEX

- Trophic state index (TSI) is a way to classify lakes using Secchi disk and chlorophyll-a measurements.
- TSI values range from 0 to 100.

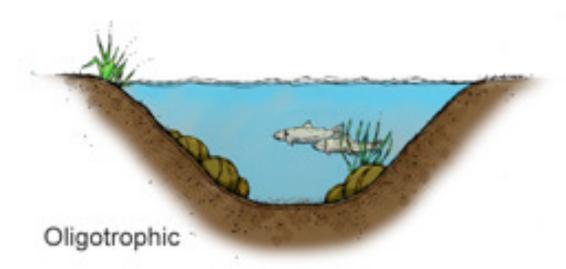
Table 2. Comparison of Classification Schemes.

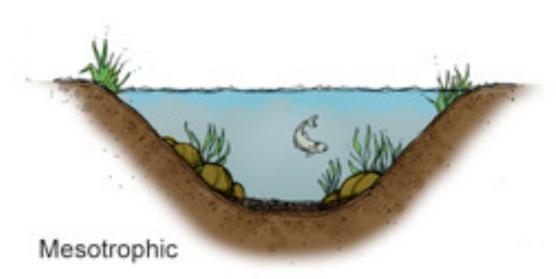
Trophic State Index	Trophic State Classification	Water Quality	
0-59	Oligotrophic through	Good	
	Mid-Eutrophic		
60.60	Mid-Eutrophic through	Fair	
60-69	Eutrophic		
70-100	Hypereutrophic	Poor	

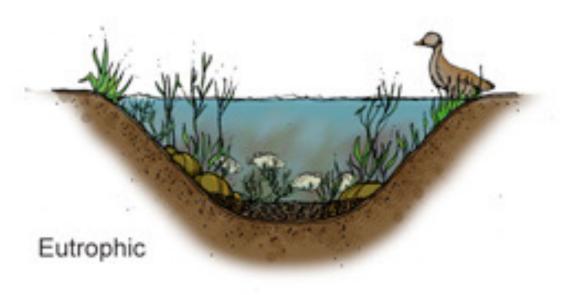
- The TSI is relative to productivity levels.
- An increasing trend in TSI values over a period of several years may indicate a degradation of the health of a lake.
- Chlorophyll-a and Secchi disk depth were monitored in 2022 and will be used in the following sections to determine overall lake quality.

CHLOROPHYLL-A RESULTS

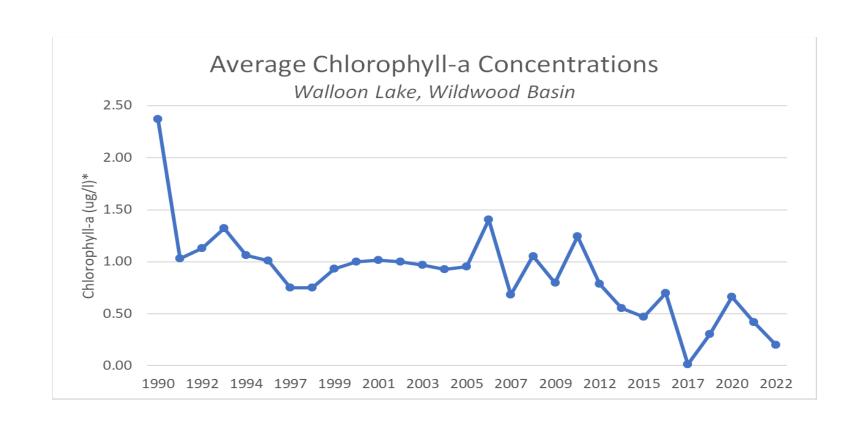
- Lakes with chlorophyll-a results under 2.2 ug/l are defined as oligotrophic.
- Chlorophyll-a readings for **Walloon Lake** show that it resides in the **oligotrophic category**.
- Oligotrophic lakes have clear waters, with low productivity levels.
- While other sites around the lake seem to be trending downward, the West Basin site had a slight upward trend since the past year. While this is not alarming, it is a trend to watch.

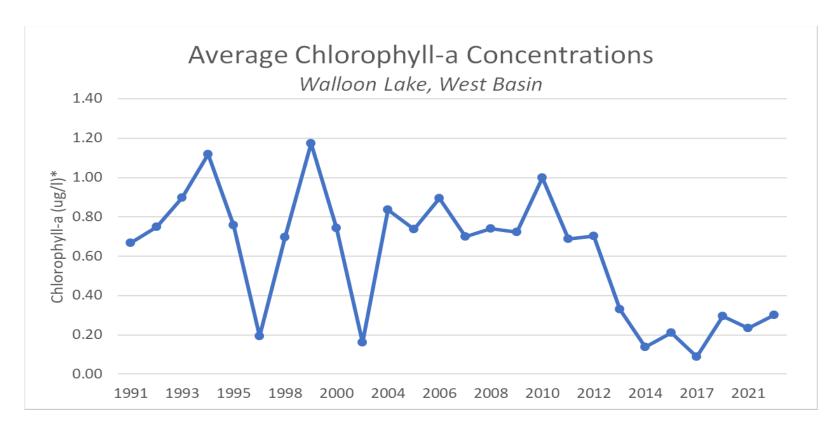


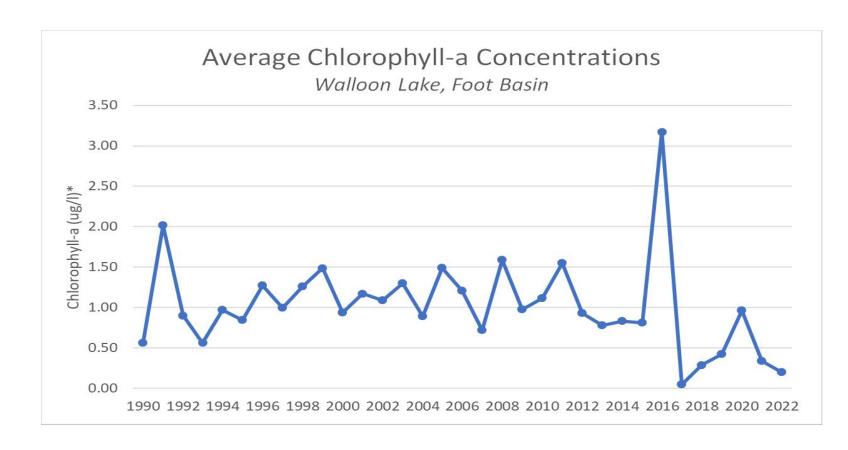


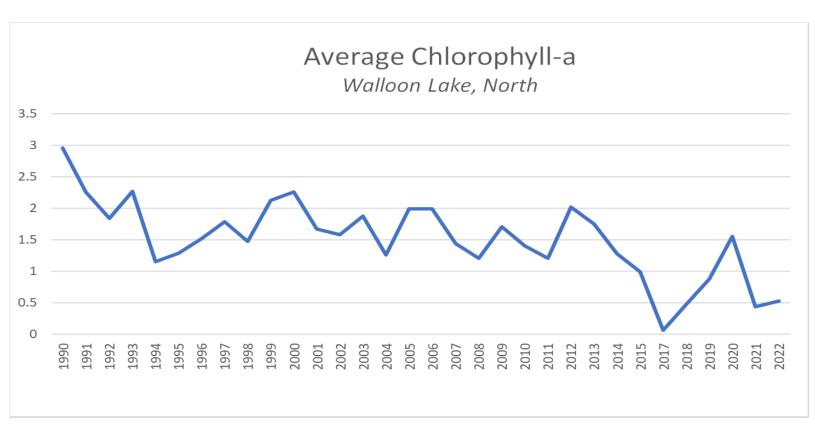


CHLOROPHYLL-A CONCENTRATIONS



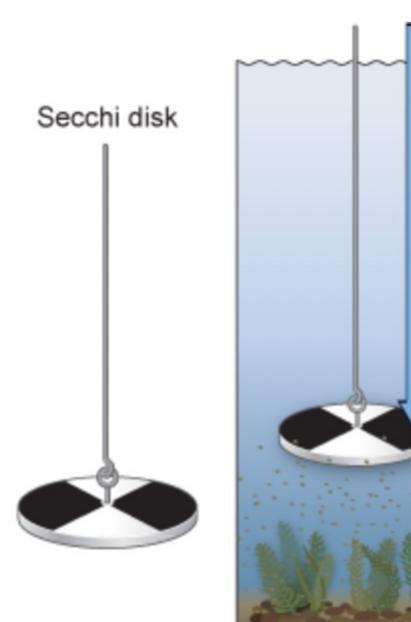






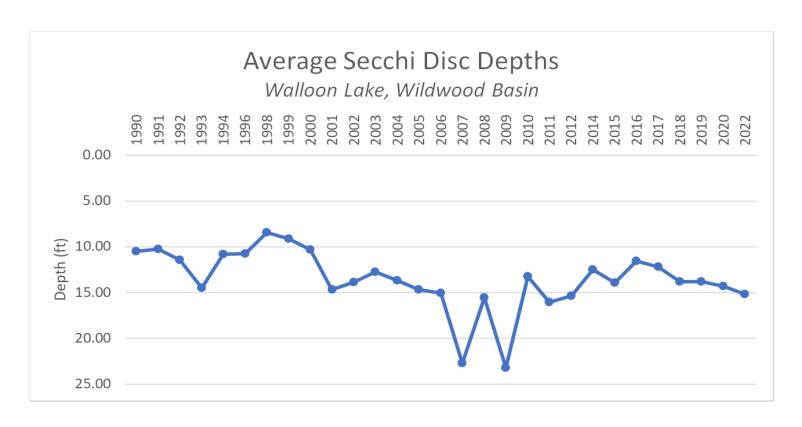
SECCHI DISK RESULTS

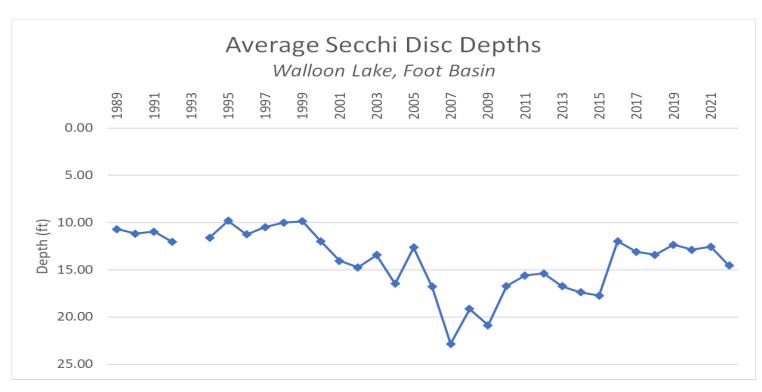
- Secchi disk depths above 15 feet are considered oligotrophic and depths between 7.5 and 15 are defined as mesotrophic results.
- In 2022 the average Secchi depths at the monitoring sites in Walloon were 15 ft and over, which means the lake was oligotrophic last year.
- The monitoring location in the **North Arm** of the lake has remained in the **mesotrophic** category historically.
- It is also recognizable that the average Secchi disc depths are trending upward, meaning the lake is becoming more oligotrophic and clearer.

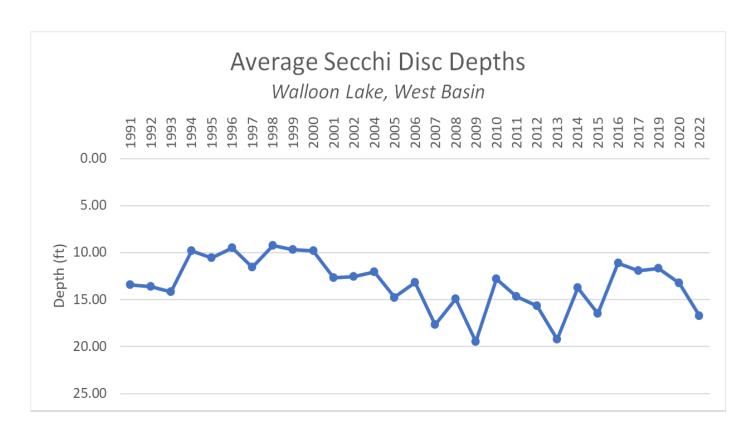


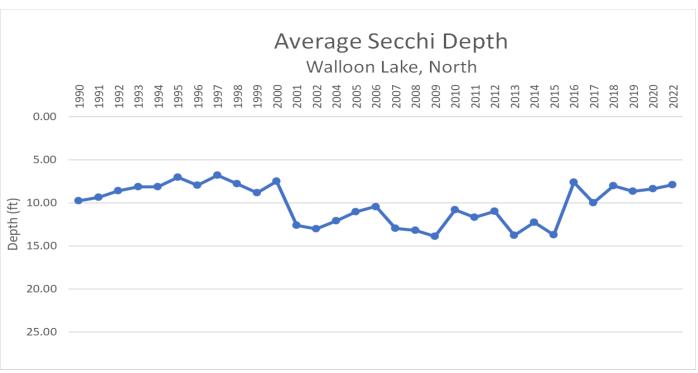
clear water

SECCHI DISK RESULTS OVERTIME







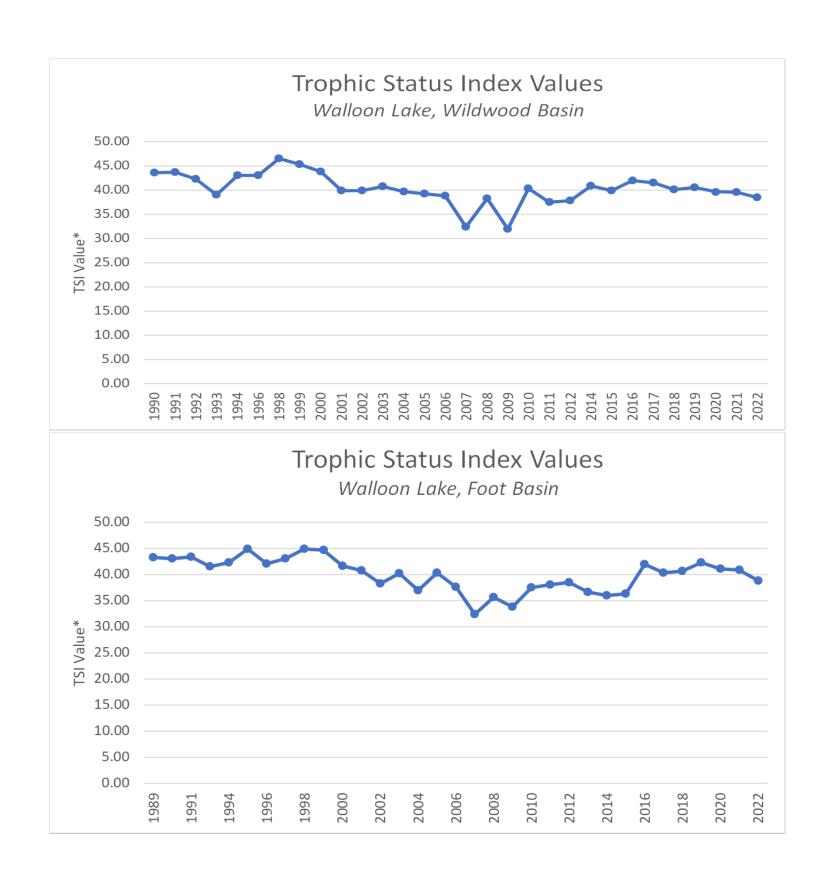


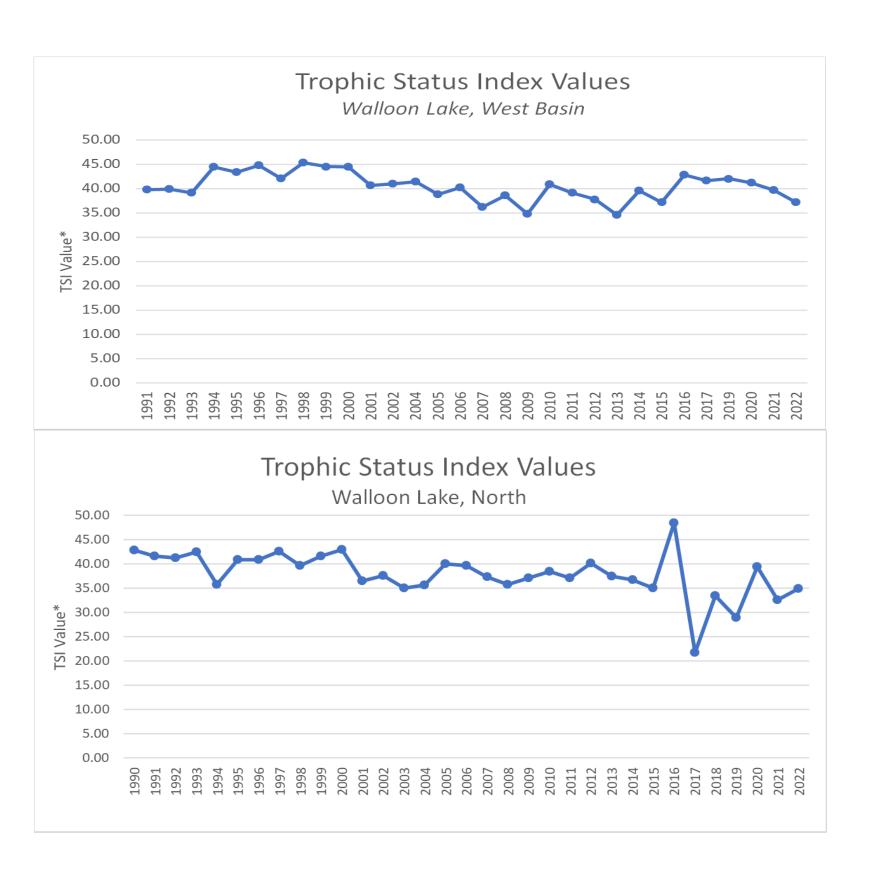
TSI RESULTS

- Trophic Status Index (TSI) is a classification system that is used to rate and compare biological productivity in water bodies.
- TSI scores are based on both Secchi depth and chlorophyll-a results.
- In 2022 the TSI averages around **Walloon Lake** were between **35 and 40**.
- All of these scores remain in the oligotrophic category.



TSI RESULTS OVERTIME





SUMMARY

Based on the results from 2022 monitoring, the water quality of Walloon Lake is high. Water quality trends in the lake do not currently raise any concern. Homeowners around the lake can ensure that they protect water quality by following the best practices below:

- Creating or maintaining a greenbelt, or a strip of diverse vegetation including trees, shrubs, grasses, and wildflowers that grow naturally or are planted along the shoreline. Please consider maintaining a greenbelt on your property to prevent pollutants from entering Walloon.
- Take care of your septic tank and make sure to get it pumped every 3-5 years.
- Avoid fertilizing within at least 30 feet of the shoreline and only use no-phosphorus fertilizer.
- Leave native aquatic plants as they provide habitat for fish and wildlife and help keep the. lake healthy.



TIPS + TRICKS: SHORELINE RESTORATION AND GREENBELTS

Jen Buchanan, Red Twig Environmental

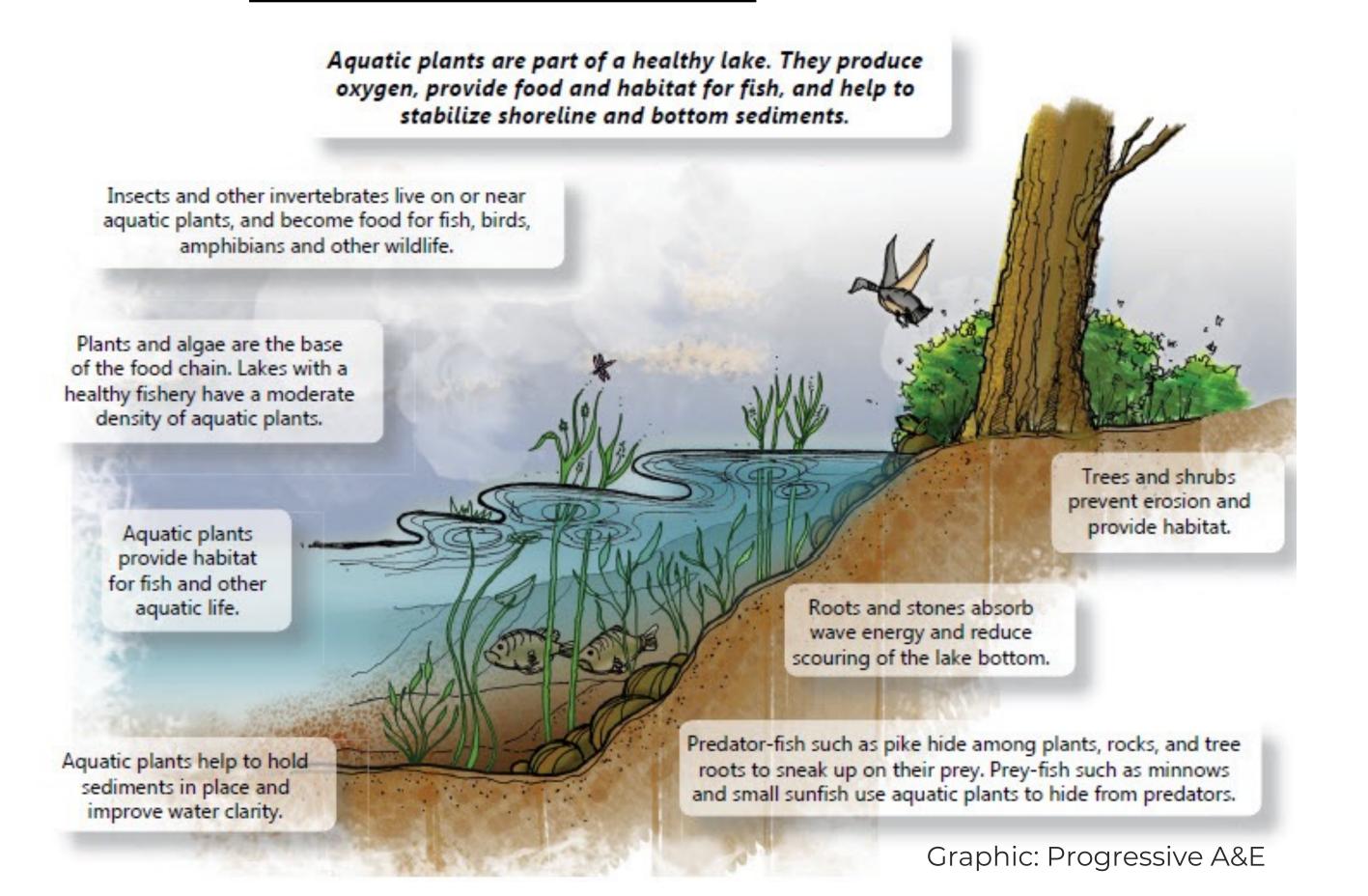




A Transition Between Land and Water

Essential for water quality and critical habitat



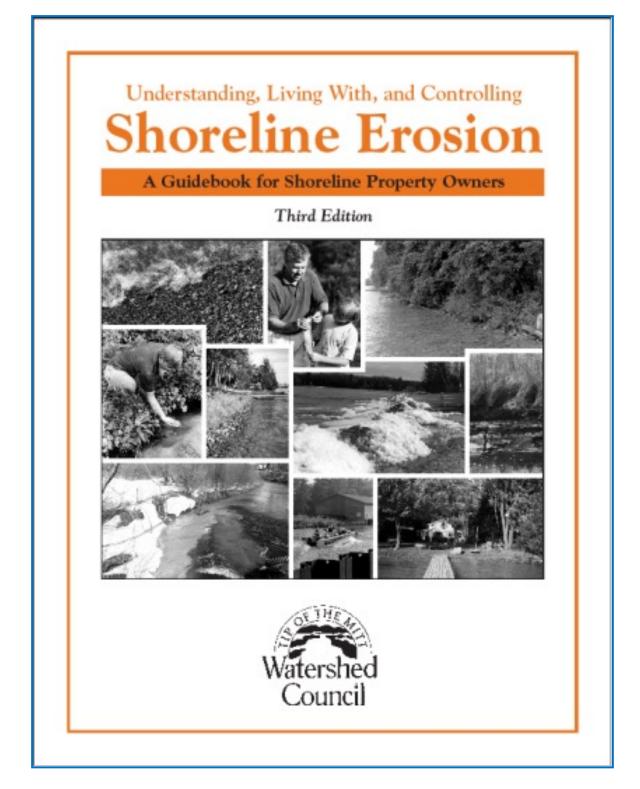


RED TWIG

Shorelines are dynamic and subject to constant influences!

There are three different groups of factors that cause erosion:

- 1. Terrestrial (Land based) forces
 - Stormwater runoff, land use changes within the watershed, etc.
- 2. Aquatic (Water based) forces
 - Wind, waves, ice, lake levels, artificial alterations, climate/weather
- 3. Human activities

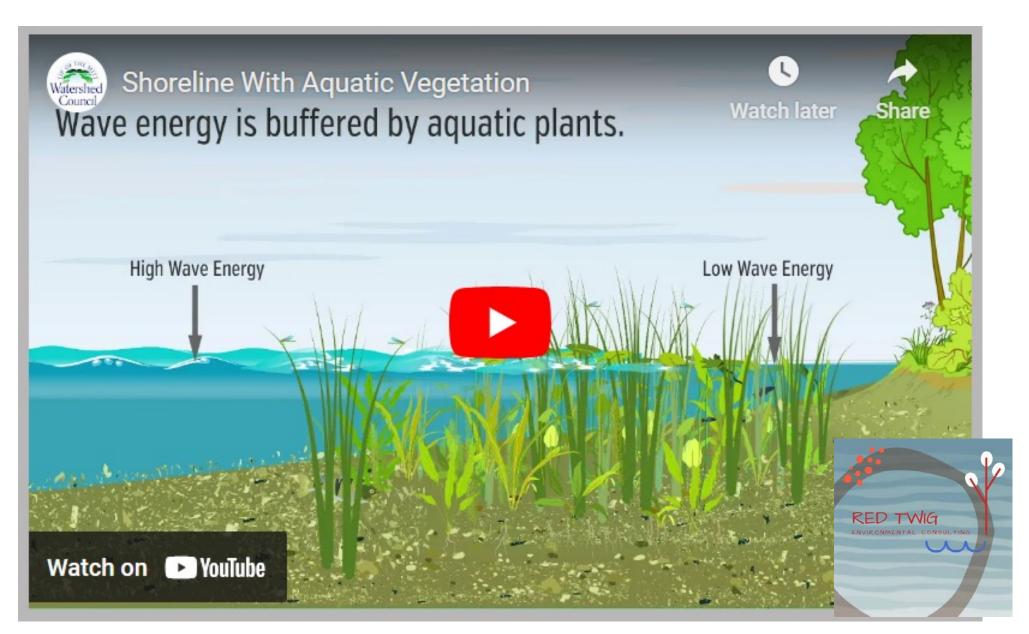


Tip of the Mitt Watershed Council www.watershedcouncil.org





Michigan Natural Shoreline Partnership www.mishorelinepartnership.org





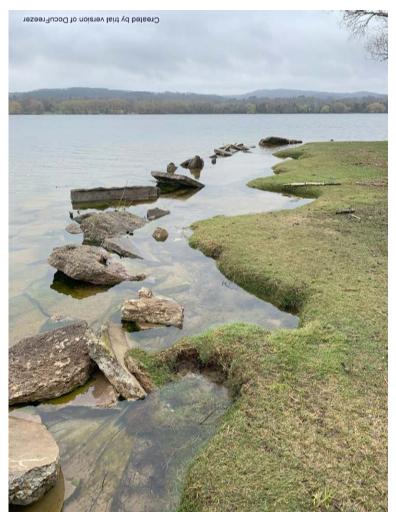




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Understand-Protect-Restore







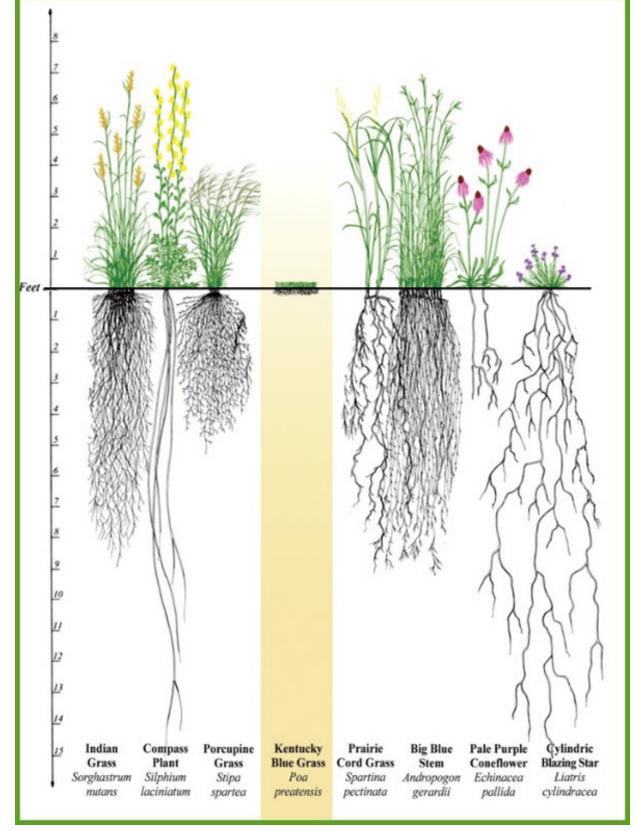
MICHIGAN SHORELAND STEWARDS PROGRAM

www.mishorelandstewards.org





- Limit shoreline alterations
- Minimize the footprint of impervious surfaces: buildings, driveways, parking areas, etc.
- Preserve aquatic vegetation in the nearshore areas, along the shoreline and buffer areas, and the upland zone, too!
- Limit wetland impacts (filling/draining)
- Maintain a robust, healthy greenbelt of native shrubs, grasses, and perennials both in nearshore areas and on land (the buffer zone)



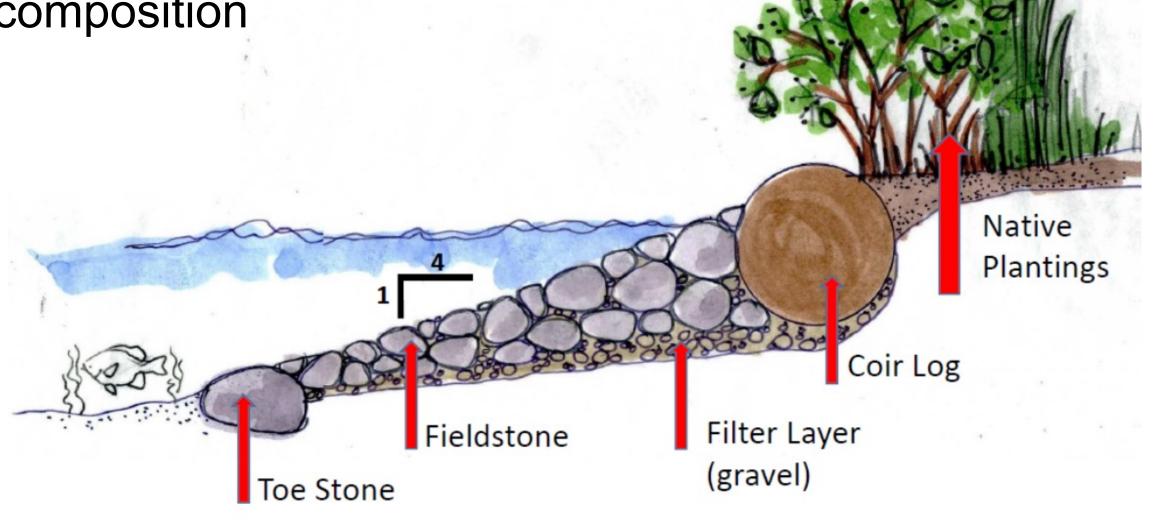
Graphic: Conservation Research Institute adapted by

Tip of the Mitt Watershed Council

When Coir Logs Alone Aren't Enough

Key Components:

- Slope
- Toe stone
- Fieldstone size and composition
- Coir elevation
- Filter layer
- Native plants!







Certified Natural Shoreline Professionals Listing

www.mishorelinepartnership.org

Firm Name	County	Last Name	First Name	Address	City, State, Zip
360 Landscaping and Property Services	AA-Statewide	Knickerbocker	Kyle	13369 Caulkins Lake Rd	Johannesburg, MI 49751
A1 Seawall Specialists	AA-Statewide	Beaudry	Michael	108 Kirkshire Avenue	Roscommon, MI 48653
A1 Seawall Specialists	AA-Statewide	Smith	Ryan	11362 Snowbowl Ro	Houghton LK, MI 48629
Abonmarche Consultants, Inc.	AA-Statewide	Morphey	Mike	95 W. Main Street	Benton Harbor, MI 49022
Abonmarche Consultants, Inc.	AA-Statewide	Thies	Jason	95 W. Main Street	Benton Harbor, MI 49022
Alluring Landscape Design	Livingston	Rowley	Beth	45222 Glengarry Rd.	Canton, MI 48188
Alluring Landscape Design	Monroe	Rowley	Beth	45222 Glengarry Rd.	Canton, MI 48188
Alluring Landscape Design	Oakland	Rowley	Beth	45222 Glengarry Rd.	Canton, MI 48188
Alluring Landscape Design	Washtenaw	Rowley	Beth	45222 Glengarry Rd.	Canton, MI 48188
Alluring Landscape Design	Wayne	Rowley	Beth	45222 Glengarry Rd.	Canton, MI 48188
Arbor Hill Landscaping	Cass	Freer	Alex	107 E Bitely	Lawton, MI 49065
Arbor Hill Landscaping	Kalamazoo	Freer	Alex	107 E Bitely	Lawton, MI 49065
Arbor Hill Landscaping	St. Joseph	Freer	Alex	107 E Bitely	Lawton, MI 49065
Arbor Hill Landscaping	Van Buren	Freer	Alex	107 E Bitely	Lawton, MI 49065
Armstrong Environmental	AA-Statewide	Armstrong	Wendy	1060 W. Gruler Rd.	Petoskey, MI 49770
Back to Nature	AA-Statewide	Reese	Charlene	29315 Grandview	Harrison Twp, MI 48045









Understand-Protect-

Restore







PROXY RESULTS



RESOLVED, the WLAC Membership approves the Board candidates as presented:

- Mary Ann Smith
- John Fettig
- Marty Makinen (Incumbent)



INCOMING WLAC PRESIDENT



RUSS KITTLESON

- Current WLAC Vice President
- WLAC Water Quality Committee Chair



