

**Meeting Minutes of the Lake Oakland
Lake Improvement Board
Hearing of Practicability and Hearing of Assessment
July 17, 2023**

Rick Sabina called the meeting to order at 6:30 p.m. at the Waterford Town Hall Auditorium.

PRESENT: Rick Sabina, Citizen Member/Chairperson
Stephanie Petriello, Oakland County WRC, Secretary
Kimberly Markee, Waterford Township Clerk
Theresa Nallamothu, Independence Township Trustee

ALSO PRESENT: Paul Hausler, Progressive AE
Several Residents, see attached sign-in sheets (Attachment 'A')

OPEN MEETING:

All board members stated their name and affiliation for the record.

Rick Sabina reminded everyone to sign the attendance sheet (see Attachment 'A').

APPROVAL OF THE MEETING AGENDA:

Kimberly Markee, supported by Theresa Nallamothu, moved to accept the meeting agenda as presented (see Attachment 'B').

Motion Carried Unanimously

APPROVAL OF MEETING MINUTES:

Kimberly Markee, supported by Theresa Nallamothu, moved to accept the minutes as presented for the meeting of June 7, 2023.

Motion Carried Unanimously

Paul Hausler will post the meeting minutes on the Lake Oakland website.

EXPLAIN OUTLINE OF MEETING AGENDA

Rick Sabina stated the purpose of this meeting was because the current project and assessment roll is expiring at the end of this year requiring that new public hearings be conducted. The first

hearing will be on the proposed program of practicability, and the second hearing will be on the assessment roll. Following those two hearings, general business items will be discussed. Rick Sabina also stated that everyone will have an opportunity to speak during the public comment periods.

CONVENE PUBLIC HEARING OF PRACTICABILITY

The Hearing of Practicability began at approximately 6:34 p.m.

Stephanie Petriello, supported by Theresa Nallamothu, moved to pre-approve payment for the publication of a legal ad in the Oakland Press Newspaper on July 5th for the sum of \$593.00.

Motion Carried Unanimously

Theresa Nallamothu, supported by Kimberly Markee, moved to pre-approve payment that will be issued for the publication of legal ads in the Oakland Press Newspaper for the Notice of Determination that will be published after the Hearing.

Motion Carried Unanimously

Stephanie Petriello presented the Affidavit of Publication verifying publication of legal ads run on June 20, 2023 and July 5, 2023 for the Hearing of Practicability (see Attachment 'C').

Stephanie Petriello presented the Affidavit of Mailing that stated a first-class letter to each individual property owner was mailed on June 26, 2023 (see Attachment 'D').

Paul Hausler provided a PowerPoint presentation (see Attachment 'E') outlining the proposed program and estimate of cost. The proposed budget for 2024 through 2028 has an annual cost of \$101,500. This incorporates an annual drawdown of surplus funds in the amount of \$10,000/year. The Lake Oakland plant control program would include a combination of herbicide treatments, mechanical harvesting, and biological control. The program will primarily focus on controlling invasive species.

Assessments are spread based on the following formula:

Waterfront parcels are assessed one (1) unit of benefit equaling \$192/year

Back lot parcels are assessed one-quarter (1/4) unit of benefit equaling \$48/year

Rick Sabina opened the Hearing of Practicability for public comment at approximately 7:30 p.m.

Paul Hausler and the Board answered several questions from the audience. Several topics were covered, including: aggressive swans, administrative fees in the budget, finding a more effective way to notify homeowners of lake treatments, the new harvesting company, wake boats, lack of sheriff presence, aeration vs muck pellets, lawn fertilizer companies, and the safety of aquatic chemicals on wildlife.

Rick Sabina closed the Hearing of Practicability for public comment at approximately 7:59 p.m.

RESOLUTION FOR PRACTICABILITY

Kimberly Markee, supported by Theresa Nallamotheu, moved that the Lake Oakland Lake Improvement Board determined the proposed project with an annual cost of \$101,500 for the years 2024 through 2028 is practicable and directed that the Notice of Determination be published pursuant to the provisions of Act 451 of the Public Acts of 1994, as amended.

Motion Carried Unanimously

CONVENE PUBLIC HEARING OF THE ASSESSMENT ROLL

Rick Sabina opened the Hearing of the Assessment Roll at approximately 8:02 p.m.

Kimberly Markee, supported by Stephanie Petriello, moved to pre-approve payment that will be issued for the publication of legal ads in the Oakland Press Newspaper for the Notice of Confirmation that will be published after the Hearing.

Motion Carried Unanimously

Stephanie Petriello presented the Affidavit of Publication verifying publication of legal ads run on June 20, 2023 and July 5, 2023 for the Hearing of Practicability (see Attachment 'C').

Stephanie Petriello presented the Affidavit of Mailing that stated a first-class letter to each individual property owner was mailed on June 26, 2023 (see Attachment 'D').

Stephanie Petriello stated at the time of the Hearing, eight (8) letters were returned by the post office for incorrect addresses or no forwarding address (see Attachment 'F'). Four (4) additional letters were returned after the meeting and are also included in Attachment 'F'. The envelopes will be forwarded to the respective Township clerks.

Rick Sabina reviewed the formula for the annual Assessment Roll that was outlined in the Legal Notice that was mailed to each property owner. Assessments are spread based on the following formula:

Waterfront parcels are assessed one (1) unit of benefit equaling \$192 annually. Total Assessment Roll for five years is \$960.

Back lot parcels are assessed one-quarter (1/4) unit of benefit equaling \$48 annually. Total Assessment Roll for five years is \$240.

Rick Sabina opened the Hearing of Assessment for Individual Appeals at approximately 8:07 p.m.

The Lake Oakland Lake Improvement Board did not receive any letters from individuals appealing their assessment.

Rick Sabina opened the floor for public comments.

There were no Individual Appeals registered during the Hearing of Assessment. However, there was a discussion about residents with access to Woodhall Lake and whether they are assessed. It was stated that under State law, the Lake Oakland Lake Improvement Board does not have the authority to assess those residents because they reside on a different waterbody. There is not a Lake Improvement Board for Woodhall Lake because they have not yet reached a 2/3 consensus from property owners.

Rick Sabina closed the Hearing for Assessments on Individual Appeals at approximately 8:10 p.m.

RESOLUTION FOR ASSESSMENT

Kimberly Markee, supported by Theresa Nallamotheu, moved that the Lake Oakland Lake Improvement Board confirm a 5-year Special Assessment Roll for Lake Oakland as presented by the Lake Improvement Board in the annual amount of \$101,500 and direct the Clerks of Waterford and Independence Townships to endorse upon the Roll the date of July 17, 2023 as the date of confirmation and direct that the Notice of Confirmation be published pursuant to the provisions of Act 451 of the Public Acts of 1994, as amended.

Motion Carried Unanimously

OLD BUSINESS:

A. Project Work Journal

Paul Hausler discussed the Project Work Journal that outlines the services regarding plant control and associated costs to date for the 2023 calendar year. There have been three (3) treatments and one (1) harvesting. As of July 13, 2023 the balance for the Aquatic Plant Control line item is \$4,624.38, unofficially. Based on this, the Board would need to move \$6,000 from the contingency fund to the plant control fund if they are interested in a second harvest this year.

B. DNR Lake Report Update

Rick Sabina stated that fish data was taken in 2021 and the report has been written but it has not been fully reviewed. Once the Board receives the report, it will be published on the website.

C. AIS Mobile Unit Update

Rick Sabina stated that the AIS mobile unit was on the lake for two (2) weeks in June. He expects to receive a usage report in the fall which will also be put on the website.

NEW BUSINESS:

A. Second Harvest

Rick Sabina would like to consider conducting a second harvest in early September or late August. For this to be an option, the Board would need to transfer \$6,000 from the contingency fund to the plant control budget in advance of the perceived need and desire to have a second harvest.

Kimberly Markee, supported by Stephanie Petriello, moved to transfer \$6,000 from the contingency fund to the plant harvesting fund.

Motion Carried Unanimously

PUBLIC COMMENTS:

The public had a few comments and questions regarding swans, new sod, and Woodhall Lake. There is no clear reason for why it appears that swans are attracted to Lake Oakland or for why there seem to be more swans and less egrets than in years past. The installation of new sod in September should not be affected by any lake treatments. For those concerned about trash and other items coming from Woodhall Lake, it is recommended that this issue be brought up in the local Township meetings.

LAKE OAKLAND INVOICES:

Kimberly Markee, supported by Theresa Nallamothe, moved to approve Invoice #193535, dated July 3, 2023, from Progressive AE for Lake Management Administration and Oversight Quarterly Services thru June 30, 2023 in the amount of \$5,000.

Motion Carried Unanimously

Theresa Nallamothe, supported by Stephanie Petriello, moved to approve Invoice #1-2023, dated 7/17/23, from Oakland Harvesters for nuisance aquatic plant control work conducted from July 10, 2023 thru July 14, 2023 in the amount of \$24,300.00.

Motion Carried Unanimously

LAKE OAKLAND INVOICE RATIFICATION:

Rick Sabina outlined Invoice #19362 from Aqua-Weed Control (dated 05/26/23) for aquatic plant control treatment of Lake Oakland on May 17, 2023, in the amount of \$16,362.50, as noted in Item '13a'.

Kimberly Markee, supported by Theresa Nallamothe, moved to ratify payment of invoice #19362 in the amount of \$16,362.50.

Motion Carried Unanimously

Rick Sabina outlined Invoice #19480 from Aqua-Weed Control (dated 06/14/23) for aquatic plant control treatment of Lake Oakland on June 13, 2023, in the amount of \$19,099.37, as noted in Item '13b'.

Kimberly Markee, supported by Stephanie Petriello, moved to ratify payment of invoice #19480 in the amount of \$19,099.37.

Motion Carried Unanimously

Rick Sabina outlined Invoice 220-MH-4139 from Goose Busters! (dated 06/17/23) for goose nest and egg removal on Lake Oakland in the amount of \$460.00, as noted in Item '13c'.

Kimberly Markee, supported by Stephanie Petriello, moved to ratify payment of Invoice 220-MH-4139 in the amount of \$460.00.

Motion Carried Unanimously

Rick Sabina outlined 21st Century Media – Michigan Invoice for AD # 2477221 (dated 06/20/23) for legal ad publication on June 20, 2023 in the amount of \$593.00, as noted in Item '13a'.

Theresa Nallamothe, supported by Kimberly Markee, moved to ratify payment of invoice for AD #2477221 in the amount of \$593.00.

Motion Carried Unanimously

BOARD MEMBER COMMENTS:

Kimberly Markee verified that the increased assessment rates were only \$8 for Waterfront Lots and \$2 for Back Lots.

MEETING SCHEDULE:

The next Lake Board meeting will be held on Wednesday, August 30, 2023, at 3:00.

ADJOURNMENT:

Kimberly Markee, supported by Theresa Nallamothu, moved to adjourn the meeting at 8:31 p.m.

Motion Carried Unanimously

Stephanie L. Petriello

Stephanie L. Petriello

Lake Improvement Board Secretary

For Lake Oakland

STATE OF MICHIGAN)
) SS:
COUNTY OF OAKLAND)

I hereby certify that the foregoing is a true and complete copy of the minutes of the Lake Improvement Board for Lake Oakland, Oakland County, Michigan held on the 7th day of June 2023, and that the said minutes are on file in the Office of the Oakland County Water Resources Commissioner and are available to the public.

I further certify that notice of the meeting was posted at least 18 hours before the meeting at the Office of the Oakland County Water Resources Commissioner, which is the principal office of the Lake Improvement Board for Lake Oakland.

Stephanie L. Petriello
Stephanie L. Petriello
Lake Improvement Board Secretary
For Lake Oakland

Dated: August 8, 2023

Attachment 'A'

**OAKLAND COUNTY WATER RESOURCES COMMISSIONER
ATTENDANCE SHEET**

DATE: July 17, 2023 @ 6:30 p.m. **FACILITATOR:** _____

TYPE Lake Improvement Board Meeting (Waterford Town Hall Auditorium)

TOPIC: Lake Oakland Lake Improvement Board Meeting

PRINTED NAME	E-MAIL	ADDRESS	CONTACT NUMBER
Stephanie Petrello	petrellos@oakgov.com		947-500-7006
Terri Nallamothu	tnallamothu@indtwp.com		2488920210
RICK SABINA	Sabina@oakland.edu	3112 Pine Tree Ct	248-877-0150
Kim Markee	Kmarkee@waterfordmi.gov Kim.markee@gmail.com	Waterford Twp.	248-674-6266

**OAKLAND COUNTY WATER RESOURCES COMMISSIONER
ATTENDANCE SHEET**

DATE: July 17, 2023 @ 6:30 p.m. **FACILITATOR:** _____

TYPE Lake Improvement Board Meeting (Waterford Town Hall Auditorium)

TOPIC: Lake Oakland Lake Improvement Board Meeting

PRINTED NAME	E-MAIL	ADDRESS	CONTACT NUMBER
FRANK KOTZ	FRANK@KOTZHEATING.COM	4415 PARNER	2-836-9828
Preston Banks	Prestonbanksjr@gmail.com	4450 Lamson	(248) 770-6914
Jim and Lari Barrett	Freedomnings2018@gmail	4108 Lamont	248-670-3339
JOHN & JERAN Young	—————	3320 ALCO	(248) 383-8052
TOM SCHULZ	SCHULZ3990@Comcast.NET	3990 EMBARCADERO	248/891/0116
MIKE & SHANNON MORRISON	yahoo.com MJMORRISON2000@	3115 ALCO	248 575 0540
Eric Andraw	epa400@gmail.com	3421 Mann	248-961-8190
Bob Fons	onscout27@gmail.com	3445 Mann	248-709-1539
Tim CULBERTSON	culbertson517@gmail.com	4036 LAKE OAKLAND SHORES	(248) 673-9294
Nancy Mathura	fossiltrucker@aol.com	3925 LK Delk Shores	248-673-9637
Marilyn MUSICK	marilyn.musick@gmail.com	3909 LG Oakland Shores Dr.	248-761-8916
DAVID A. OKOFSKI	DAOKANSKI@COMCAST.NET	3781 RUTHERFORD CT.	(248) 521-9101

**OAKLAND COUNTY WATER RESOURCES COMMISSIONER
ATTENDANCE SHEET**

DATE: July 17, 2023 @ 6:30 p.m. **FACILITATOR:** _____

TYPE Lake Improvement Board Meeting (Waterford Town Hall Auditorium)

TOPIC: Lake Oakland Lake Improvement Board Meeting

PRINTED NAME	E-MAIL	ADDRESS	CONTACT NUMBER
Kevin & Lynn Gleason	kgteason58@gmail.com	3615 Mann Rd Clarkston	248-568-5352
MARGARET RABIDEAU	CORSICAN 45 @YAHOO.COM	4393 Parnell Clarkston	248-673-4339
Deborah Bradley	bradley-deborah @YAHOO.COM	" Clarkston	SAME
Jerry Durkin	durkinjr2005@hotmail.com	5052 Timber Hill Trsic	810- 730-8721
Michael Perzyk	bakesT85@hotmail.com	3790 Rutherford Ct	248- 892-3518
kins msn de	jmcubride7@gmail.com	4356 Saskabaw com	248 496 3829
David Bergman	dbergman@me.com	4097 Aquarist Waterford MI	616 295 0375
George Nichols	nicholsge@oakgov.com	1 Public Work Dr. Waterford, MI 49386	248-841-3806

Attachment 'B'

AGENDA

LAKE OAKLAND LAKE IMPROVEMENT BOARD

Monday, July 17, 2023 – 6:30 p.m.

Waterford Town Hall Auditorium

1. Open Meeting
 - a. Introductions and Attendance
2. Approval of the Meeting Agenda for July 17, 2023
3. Approval of Meeting Minutes from June 7, 2023
4. Explain Outline of Meeting Agenda
 - a. Current project and assessment roll is expiring, requiring that new public hearings be conducted
 - i. First hearing will be on the proposed program of practicability
 - ii. Second hearing will be on the assessment roll
 - b. General Business items
5. Convene Public Hearing of Practicability
 - a. Pre-approve invoice that will be issued for publication of legal ad in the Oakland Press Newspaper that was published on July 5, 2023 for the sum of \$593.00.
 - b. Pre-approve invoice that will be issued for publication of legal ads in the Oakland Press Newspaper for the Notice of Determination that will be published after the Hearing.
 - c. Present Affidavit verifying publication of legal ads run on June 20, 2023 and July 5, 2023 for the Hearing of Practicability.
 - d. Present Affidavit of Mailing of first-class letters to each individual property owner that was mailed on June 26, 2023.
 - e. PowerPoint presentation outlining the proposed program and estimate of cost.
 - f. Open Hearing of Practicability for public comment
 - i. Present any letter or emails from property owners opposing the project.
 - ii. Floor open to public comment
 - g. Close Hearing of Practicability for public comment
6. Resolution for Practicability
 - a. Moved by _____, supported by _____ that the Lake Oakland Lake Improvement Board determined the proposed project with an annual cost of \$101,500 for the years 2024 through 2028 is practicable and directed that the Notice of Determination be published pursuant to the provisions of Act 451 of the Public Acts of 1994, as amended.

7. Convene Public Hearing of the Assessment Roll
 - a. Pre-approve invoice that will be issued for publication of legal ads in the Oakland Press Newspaper for the Notice of Confirmation that will be published after the Hearing.
 - b. Present Affidavit verifying publication of legal ads run on June 20, 2023 and July 5, 2023 for the Hearing of Assessment and Right to Appeal.
 - c. Present Affidavit of Mailing of first-class letters to each individual property owner that was mailed on June 26, 2023 giving notice of assessment and right to appeal.
 - d. Record to reflect that the following assessment letters (8) were returned by the post office for incorrect address or no forwarding address.
 - e. Presentation of annual Assessment Roll
 - i. Formula for annual assessment
 - ii. Assessments are spread based on the following formula:
 1. Waterfront parcels are assessed one (1) unit of benefit
 2. Back lot parcels are assessed one-quarter (1/4) unit of benefit
 - iii. Annual assessment roll is \$192 (Waterfront Parcels) and \$48 (Back Lot Parcels)
 - iv. Total Assessment Roll is \$960 (Waterfront Parcels) and \$240 (Back Lot Parcels)
 - f. Open Hearing of Assessment for Individual Appeals
 - i. Letters from 0 individuals
 - ii. Floor open for public comment
 - g. Close Hearing of Assessments on Individual Appeals
8. Resolution for Assessment
 - a. Moved by _____, supported by _____ that the Lake Oakland Lake Improvement Board confirm a 5-year Special Assessment Roll for Lake Oakland as presented by the Lake Improvement Board in the annual amount of \$101,500 and direct the Clerks of Waterford and Independence Townships to endorse upon the Roll the date of July 17, 2023 as the date of confirmation and direct that the Notice of Confirmation be published pursuant to the provisions of Act 451 of the Public Acts of 1994, as amended.
9. Old Business
 - a. Project Work Journal
 - i. Survey
 - ii. Herbicide Treatment
 - iii. Plant Harvesting
 - b. DNR Lake Report Update
 - c. AIS Mobile Unit Update
10. New Business

11. Public Comments

12. Lake Oakland Invoices

- a. Invoice approval (#193535, dated July 3, 2023, from Progressive AE for Lake Management Administration and Oversight Quarterly Services thru June 30, 2023 in the amount of \$5,000.)
- b. Invoice Approval (#1-2023, dated 7/17/23, from Oakland Harvesters for nuisance aquatic plant control work conducted from July 10, 2023 thru July 14, 2023 in the amount of \$24,300.00).

13. Lake Oakland Invoice Ratification

- a. Ratification of Aqua-Weed Control Invoice #19362 (dated 05/26/23) for aquatic plant control treatment of Lake Oakland on May 17, 2023. Rick Sabina, supported by Stephanie Petriello, to pay invoice in the amount of \$16,362.50.
- b. Ratification of Aqua-Weed Control Invoice #19480 (dated 06/14/23) for aquatic plant control treatment of Lake Oakland on June 13, 2023. Rick Sabina, supported by Stephanie Petriello, to pay invoice in the amount of \$19,099.37.
- c. Ratification of Goose Busters! Invoice 220-MH-4139 (dated 6/17/23) for goose nest and egg removal on Lake Oakland. Rick Sabina, supported by Kim Markee, to pay the invoice in the amount of \$460.00.
- d. Ratification of 21st Century Media – Michigan Invoice for AD # 2477221 (dated 06/20/23) for legal ad publication on June 20, 2023. Stephanie Petriello, supported by Rick Sabina, to pay the invoice in the amount of \$593.00.

14. Board Member Comments

15. Schedule Next Meeting Date

16. Adjournment

Attachment 'C'

AFFIDAVIT OF PUBLICATION
2125 Butterfield Dr, Suite 102N • Troy MI 48084

Oakland County Water Resources
One Public Works Drive

Waterford, MI 48328
Attention: Stephanie Petriello

STATE OF MICHIGAN,
COUNTY OF OAKLAND

The undersigned _____, being duly sworn the
he/she is the principal clerk of Oakland Press, theoaklandpress.com, theoaklandpress.
com2, published in the English language for the dissemination of local or transmitted
news and intelligence of a general character, which are duly qualified newspapers, and
the annexed hereto is a copy of certain order, notice, publication or advertisement of:

Oakland County Water Resources

Published in the following edition(s):

Table with 2 columns: Publication Outlet and Date. Includes Oakland Press (06/20/23), Oakland Press (07/05/23), theoaklandpress.com (06/20/23), theoaklandpress.com (07/05/23), theoaklandpress.com2 (06/20/23).

VICKI ARSENAULT
NOTARY PUBLIC - STATE OF MICHIGAN
COUNTY OF OAKLAND
My Commission Expires May 11, 2026
Acting in the County of _____

Sworn to the subscribed before me this 7 July, 2023.
Vicki Arsenault
Notary Public, State of Michigan
Acting in Oakland County

LEGAL NOTICE
Lake Oakland Improvement Board
Oakland County, Michigan
HEARING OF PRACTICABILITY AND HEARING OF ASSESSMENT
TAKE NOTICE that the Lake Oakland Improvement Board will hold a public hearing at 6:30 pm on Monday, July 17, 2023 at the Waterford Township Hall Auditorium, 5200 Civic Center Drive, Waterford, Michigan to determine the practicability of a five-year improvement project for Lake Oakland. The lake improvement project would include aquatic plant control, aquatic plant control consulting services, water quality monitoring (four deep basins), information and education, purple loosestrife and goose control, administration and contingency, and less existing surplus. The project would begin in 2024 and continue through 2028, with an annual budget of \$101,500.
NOTICE IS FURTHER GIVEN that a special assessment roll has been prepared and is available for public examination during normal business hours at the Waterford Township Hall located at 5200 Civic Center Drive, Waterford, Michigan and Independence Township Hall located at 6483 Waldon Center Drive, Clarkston, Michigan. Said special assessment roll has been prepared for the purpose of assessing the cost of the improvement project to benefiting properties.
NOTICE IS FURTHER GIVEN that, if the project is found practicable, the Lake Oakland Improvement Board will hold a hearing of assessment immediately following the aforementioned hearing of practicability for the purpose of reviewing said special assessment roll and for hearing any objections thereto. An owner of or party with interest in real property to be assessed or his/her agent may appear in person to object to the special assessment or may protest such special assessment by letter filed with the Lake Board at or prior to the time of the hearing, in which case personal appearance is not required. Written objections may be filed with or mailed to the Lake Oakland Improvement Board c/o Ms. Stephanie Petriello, Secretary, Lake Oakland Improvement Board, Building 95 West, One Public Works Drive, Waterford, MI 48328-1907.
NOTICE IS FURTHER GIVEN that the owner of or any party with interest in real property within the Lake Oakland Special Assessment District who, having protested said special assessment either in person or in writing, may, within thirty (30) days after the confirmation of the special assessment roll has been published in a newspaper of general circulation, appeal such special assessment to the Michigan Tax Tribunal or other court of competent jurisdiction.
The above-referenced hearings are being held pursuant to Part 309 of Public Act No. 451 of 1994, as amended.
Lake Oakland Improvement Board
Oakland County, Michigan

Advertisement Information
Client Id: 644508 Ad Id: 2477221 PO:
Sales Person: 200309

Attachment 'D'

Affidavit of Mailing

I hereby certify and attest that the attached Notice of Hearing of Practicability and Hearing of Assessment was mailed first-class to all property owners in the Lake Oakland Special Assessment District as shown on the attached listing. Said mailing was conducted from the office of Progressive AE located at 1811 4 Mile Road, Grand Rapids, MI 49525 on the 26 day of June, 2023.



Signature

Dan Olson

Printed

Subscribed and sworn to before me this 26th day of June, 2023.



Notary Public Signature

Rose Mary Fox

Printed

My commission expires 5-29-2025

LEGAL NOTICE

Lake Oakland Improvement Board Oakland County, Michigan

HEARING OF PRACTICABILITY AND HEARING OF ASSESSMENT

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Additional information about the proposed scope and cost of the project is included on the back of this notice. Please take a few minutes to review this information.

NOTICE IS FURTHER GIVEN that a special assessment roll has been prepared and is available for public examination during normal business hours at the Waterford Township Hall located at 5200 Civic Center Drive, Waterford, Michigan and Independence Township Hall located at 6483 Waldon Center Drive, Clarkston, Michigan. Said special assessment roll has been prepared for the purpose of assessing the cost of the improvement project to benefiting properties.

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The above-referenced hearings are being held pursuant to Part 309 of Public Act No. 451 of 1994, as amended.

Lake Oakland Improvement Board
Oakland County, Michigan

Attachment 'F'



Lake Oakland, Oakland Co. Public Hearings 6:30 pm July 17, 2023

Paul Hausler, Water Resources Practice Leader

progressive|ae

Topics for Tonight's Meeting



What variables affect plant growth on Lake Oakland?



How can residents reduce their cumulative effects on water quality and nuisance conditions?

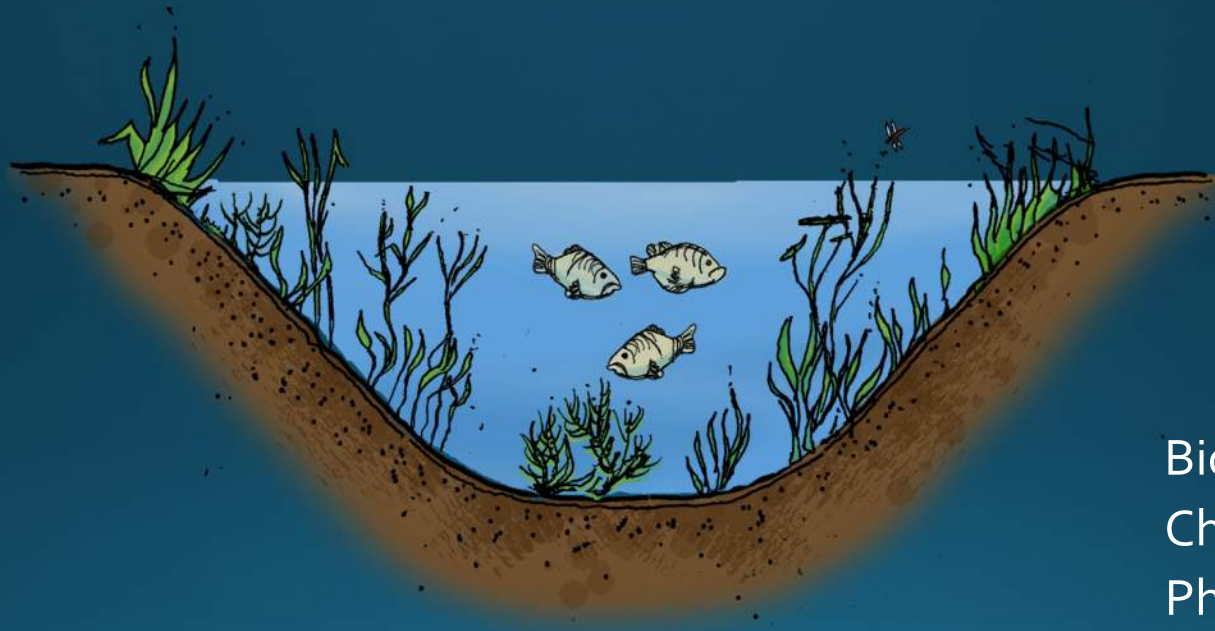


What are the goals of the plant control program?



What are the most cost-effective means of achieving these goals?

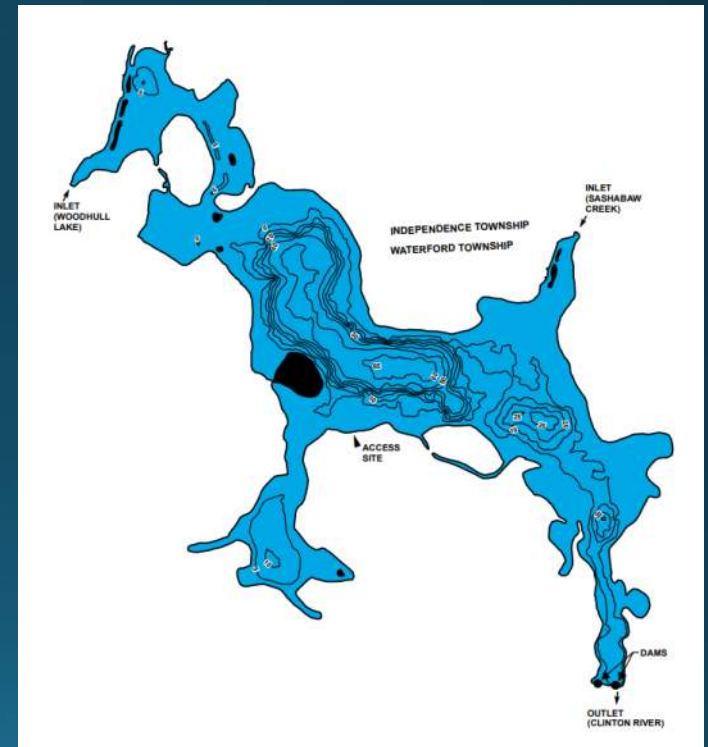
Limnology



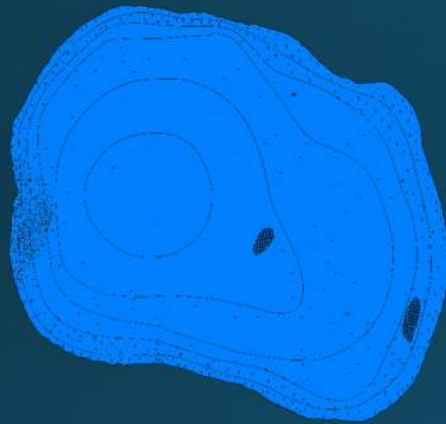
Biological
Chemical
Physical

Physical Characteristics

- Lake surface area 311 acres
- Maximum depth 65 feet
- Mean depth 10.8 feet
- Lake volume 3,364 acre-feet
- Shoreline length 10.5 miles
- Shoreline development factor 4.2
- Watershed area 66 square miles
- Ratio of lake to watershed area 1:138



Shoreline Development Factor



Walsh Lake, Washtenaw County

1.03



Spider Lake, Grand Traverse County

3.91



Smallwood Lake, Gladwin County

11.37

Lake Oakland

Shallow Lake Considerations

- Lakes that have more than 50% of surface area less than 15 feet deep (approx. 80 percent of Lake Oakland is < 15 feet deep)
- Mixing throughout the water column (in shallow areas)
- Usually have higher nutrient levels due to sediment suspension – lack of settling – more prone to algae blooms
- Macrophyte (rooted plant) dominated systems can be prone to shifting towards algae dominated systems – proceed with caution when controlling macrophytes

Macrophyte or Phytoplankton Dominated

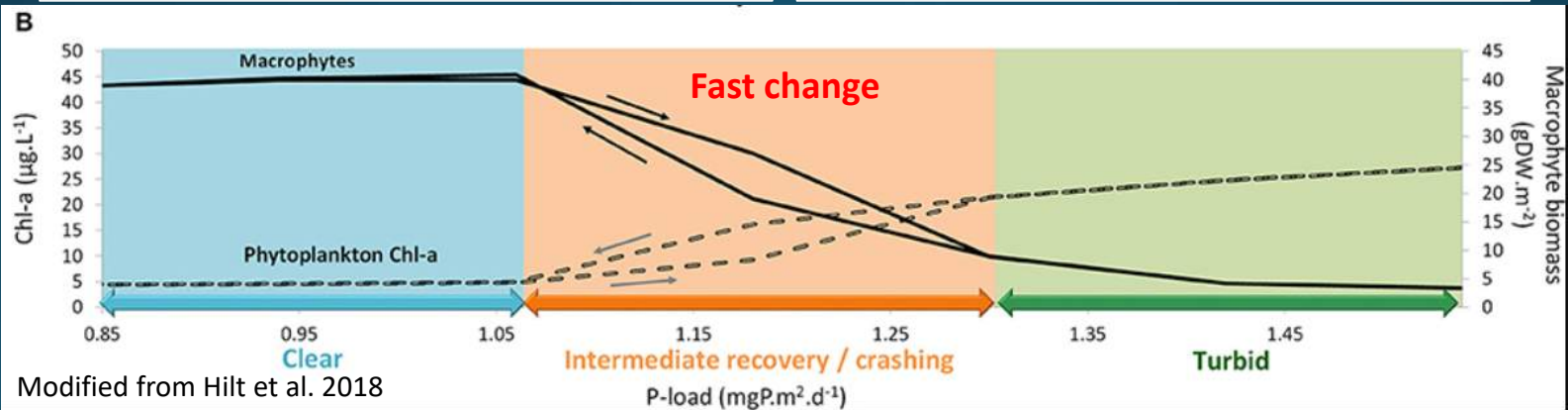
Clear Water State



Turbid Water State



Slide from
Erick Elgin,
MSU
Cooperative
Extension –
used with
permission



Lake Classification

(based upon historical data)

Lake Oakland



Lake Oakland Improvement Board
One Public Works Drive
Building 95 West
Waterford, MI

Rick Sabins, Chair
Lake Oakland Resident Representative

George Nichols, Secretary
Water Resources Commission's Office
Representative

Kim Markee, Clerk
Waterford Township Representative

Theresa Nafanochi, Trustee
Independence Township Representative

Karen Jakiel
Oakland County Commissioner

Lake Oakland 2022 Water Quality Report

A publication of the Lake Oakland Improvement Board

Water quality monitoring on Lake Oakland has been ongoing since 2018. This report provides background information on lake water quality and a discussion of sampling results.

Lakes can be classified into three broad categories based on their productivity or ability to support plant and animal life. The three basic lake classifications are oligotrophic, mesotrophic, and eutrophic.

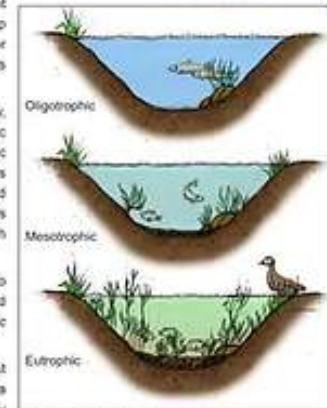
Oligotrophic lakes are generally deep and clear with little aquatic plant growth. These lakes maintain sufficient dissolved oxygen in the cool, deep bottom waters during late summer to support cold water fish such as trout and whitefish.

Eutrophic lakes have poor clarity, and support abundant aquatic plant growth. In deep eutrophic lakes, the cool bottom waters usually contain little or no dissolved oxygen. Therefore, these lakes can only support warm water fish such as bass and pike.

Lakes that fall between the two extremes of oligotrophic and eutrophic are called mesotrophic lakes.

Under natural conditions, most lakes will ultimately evolve to a eutrophic state as they gradually fill with sediment and organic matter transported to the lake from the surrounding watershed. As the lake becomes shallower, the process accelerates. When aquatic plants become abundant, the lake slowly begins to fill in as sediment and decaying plant matter accumulate on the lake bottom. Eventually, terrestrial plants become established and the lake is transformed to a marshland. The natural lake aging process can be greatly accelerated if excessive amounts of sediment and nutrients (which stimulate aquatic plant growth) enter the lake from the surrounding watershed. Because these added inputs are usually associated with human activity, this accelerated lake aging process is often referred to as cultural eutrophication.

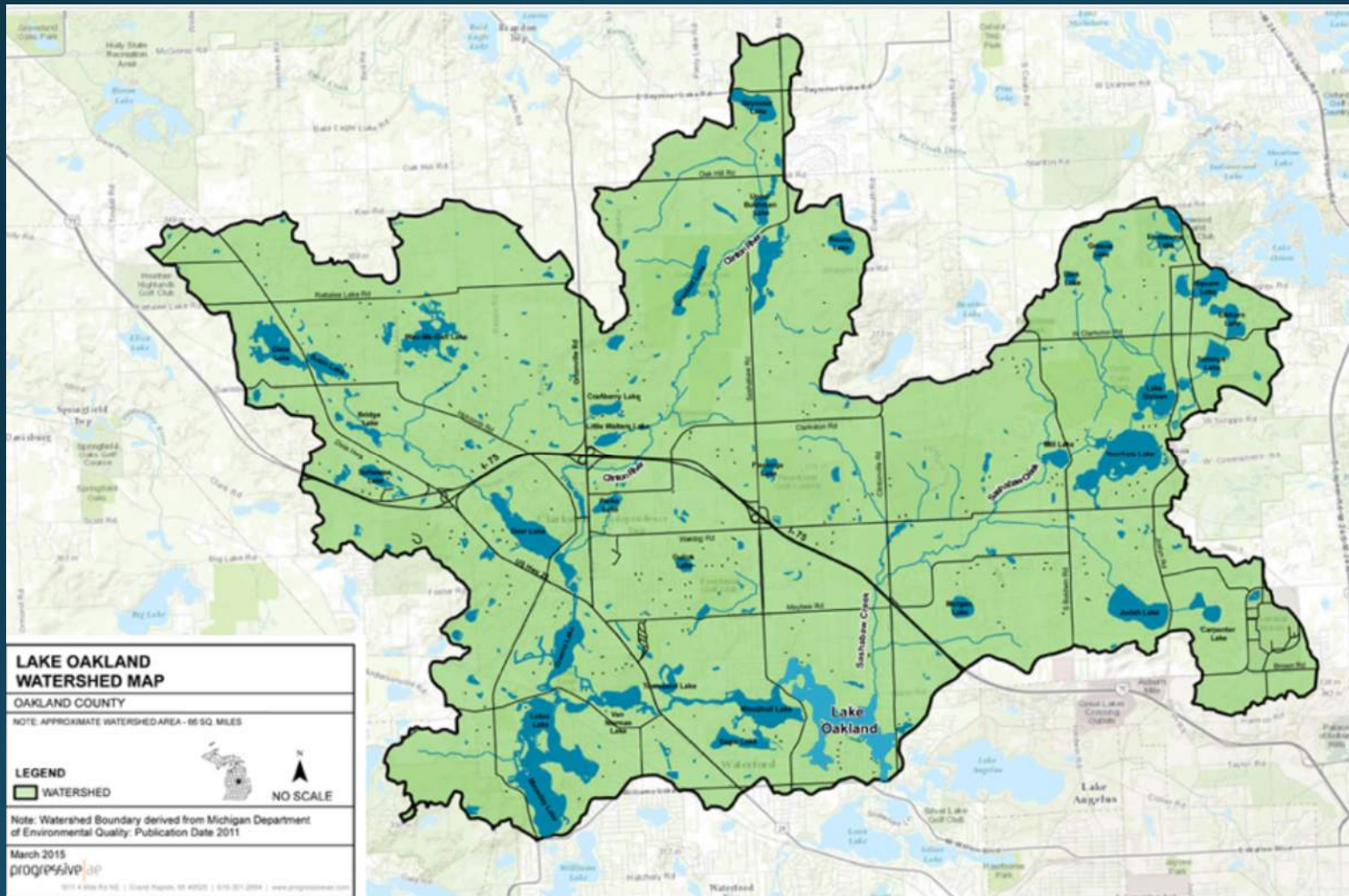
For more information, visit:
www.michiganlakeinfo.com/trophic-state



Lake trophic states.

Environmental Consultant
Progressive AE

Lake Oakland Watershed

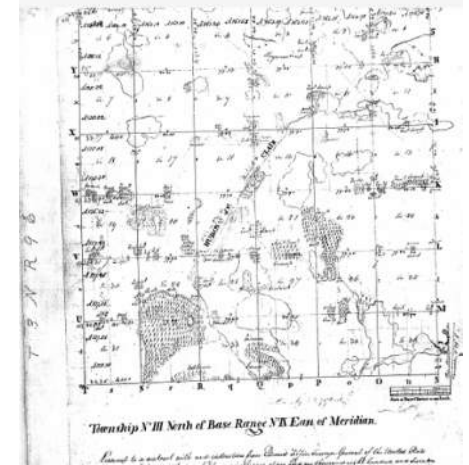


Cultural Effects on Plant Growth

- Original 1818 Government Land Survey of Waterford Township
- USGS topographic map from 1907
- Many of the areas that were previously wetland were flooded by the construction of the dam
- Wetlands act to filter stormwater and act as a sponge to stabilize flooding
- Climate change predictors indicate wetlands will become more critical
- Also, note lack of development around lakes
- Development primarily adjacent to road network



Lake Oakland



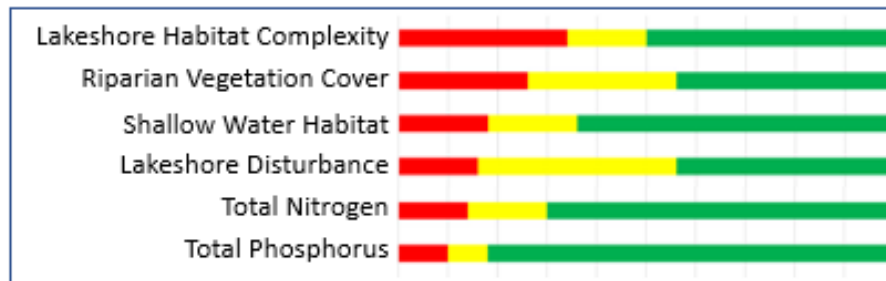
Cultural Effects on Plant Growth (cont.)

- ≡ USGS 1997 topographic map
- ≡ Note encroachment on wetland areas since 1907
- ≡ Many wetland areas were filled in and replaced by cottages and now homes
- ≡ Shoreline development increased exponentially from a handful of homes on the lake in 1907 to around 400 homes currently.



Historical Perspective

2017 Extent of Stressors in Michigan Lakes



■ Poor ■ Fair ■ Good

EPA's National Lakes Assessment occurs every 5 years. Based on 50 Michigan lakes in each study, the number one stressor was due to reduced lakeshore habitat complexity followed by reduced vegetation cover. The Michigan Natural Shoreline Partnership is working to increase natural shorelines through its Contractors training program and shoreline Stewards program.

● 10,000+ acres

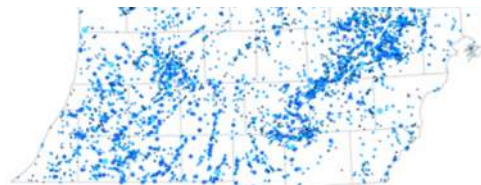


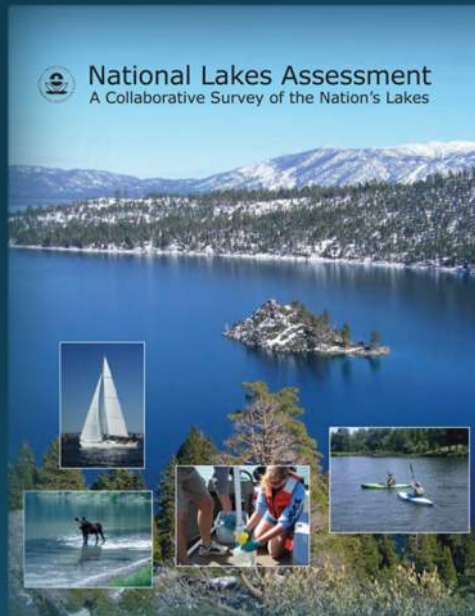
Figure 2. Statewide distribution of Michigan inland lakes greater than five acres. Source: Michigan GIS Open Data.

- Over 10,000 inland lakes in Michigan (>5 acres)*
- Over 60 percent of Michigan's lakes have impaired shoreline vegetative cover and over 50 percent have degraded lake habitat complexity and lakeshore habitat**

* Michigan GIS open database

** US EPA National Lakes Assessment 2022

Why is Shoreline Habitat Important to the Health of a Lake?



- Provides a transition zone between lake and upland
- Natural shoreline habitat often buffers wave action – reducing or eliminating erosion
- Densely vegetated shorelines provide a riparian buffer to reduce nutrient inputs to the lake, and thus, protect water quality
- EPA National Lakes Assessment, 2009 – “Poor biological health is three times more likely in lakes with poor lakeshore habitat relative to lakes with good habitat.”

Problems Associated with Shoreline Development



- Erosion caused by removal of roots and woody debris which anchor lakeshore sediments
- Increased wave action – more boat traffic – less vegetative buffering
- Loss of habitat for fish, waterfowl, and other aquatic organisms
- Increased nutrient loading from both surface runoff and groundwater

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Aquatic plants are part of a healthy lake. They produce oxygen, provide food and habitat for fish, and help to stabilize shoreline and bottom sediments.

Insects and other invertebrates live on or near aquatic plants, and become food for fish, birds, amphibians and other wildlife.

Plants and algae are the base of the food chain. Lakes with a healthy fishery have a moderate density of aquatic plants.

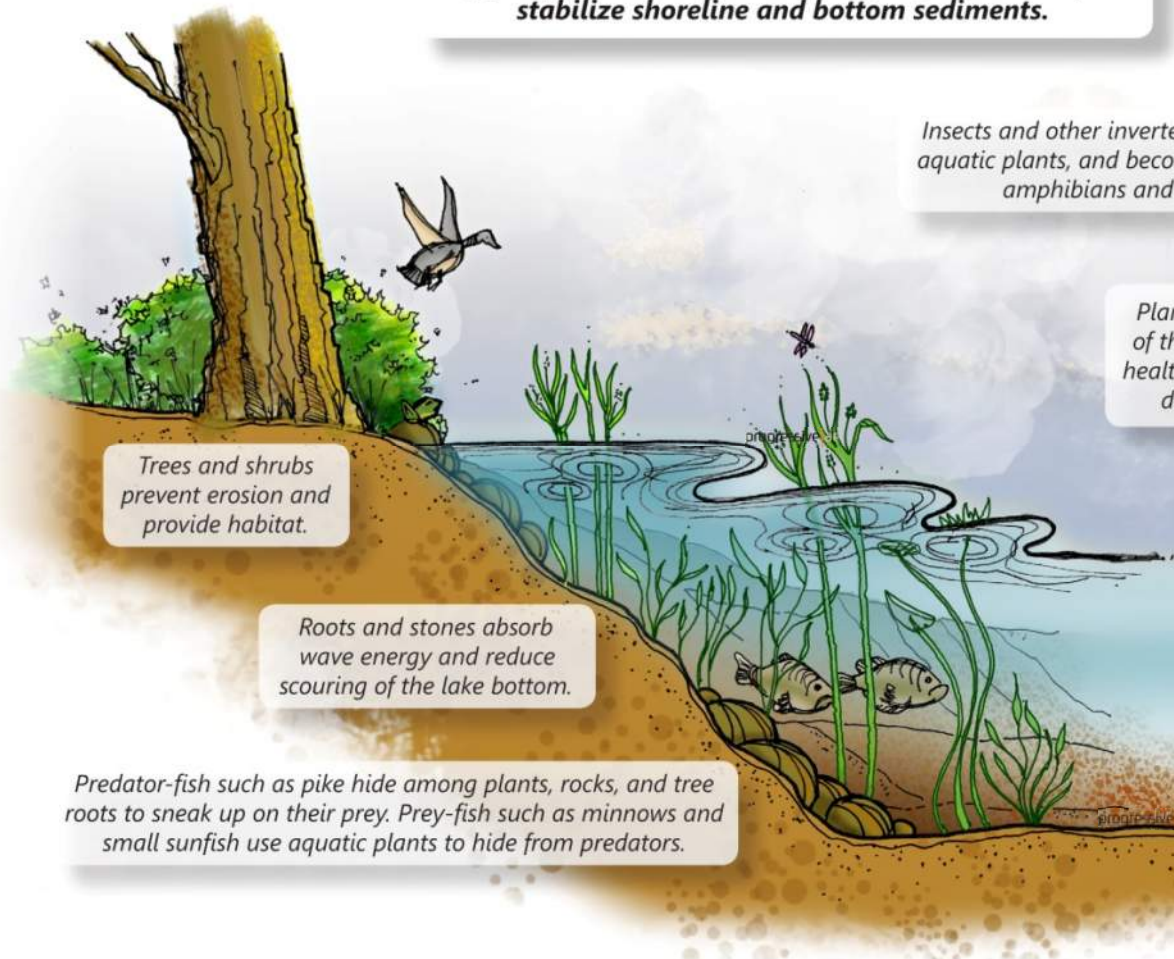
Trees and shrubs prevent erosion and provide habitat.

Roots and stones absorb wave energy and reduce scouring of the lake bottom.

Aquatic plants provide habitat for fish and other aquatic life.

Predator-fish such as pike hide among plants, rocks, and tree roots to sneak up on their prey. Prey-fish such as minnows and small sunfish use aquatic plants to hide from predators.

Aquatic plants help to hold sediments in place and improve water clarity.



Aquatic Plant Control

Plants of Primary Concern

Invasive exotic species:

Eurasian (hybrid) milfoil



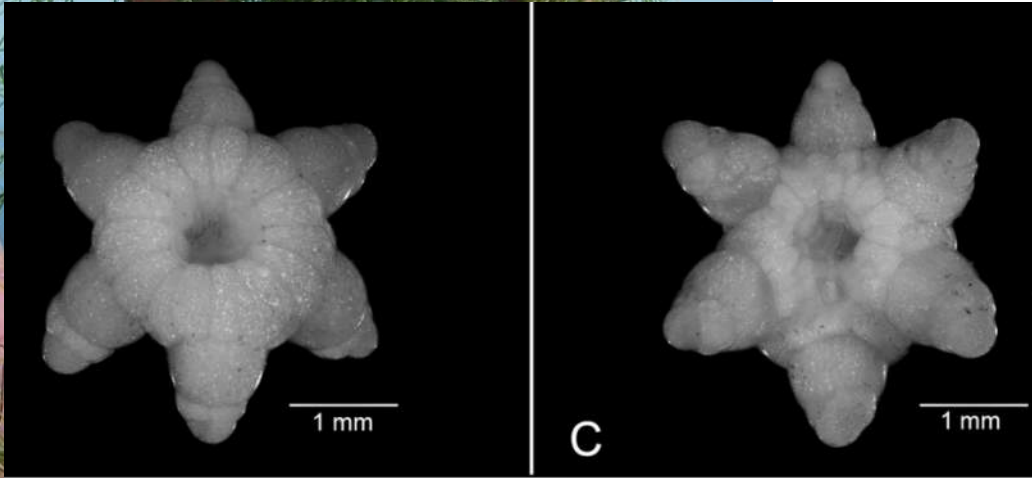
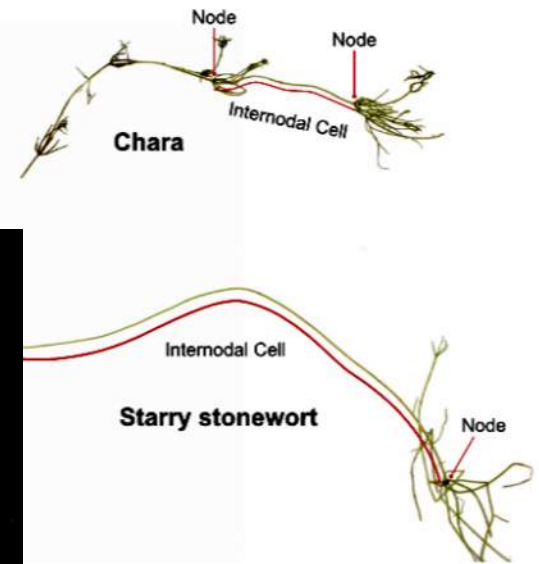
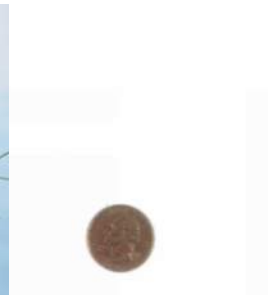
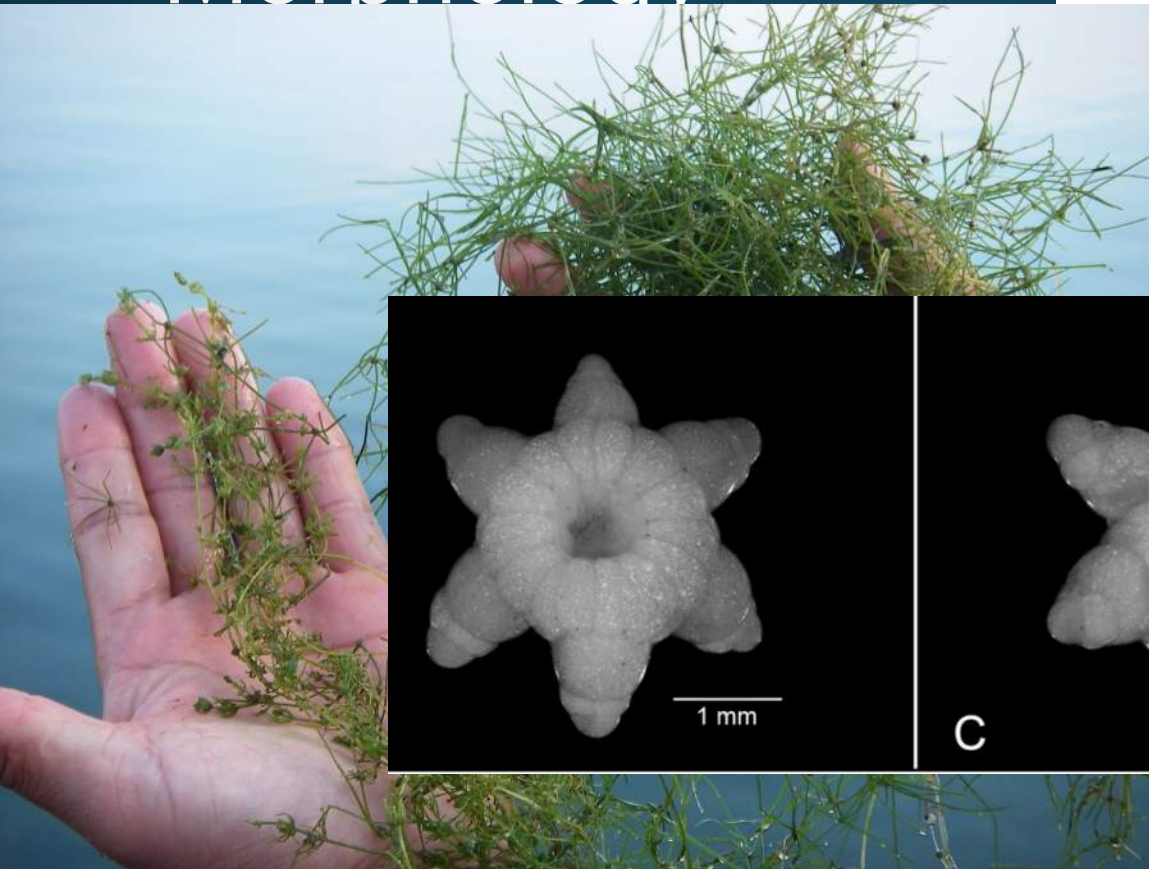
Curly-leaf pondweed



Starry stonewort



Starry Stonewort vs. *Chara* sp. Morphology



Bulbil photos from Sleith et al. 2015

Ecology and Management
of Starry Stonewort *Nitellopsis obtusa*

Aquatic Plant Control

Plants of Primary Concern

Native plant species:

Chara



Wild celery



Illinois pondweed



Aqu



ing gum, using tobacco or
icide gets inside. Then wash
his product. Wash the outside
ossible, wash thoroughly and

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**distributed between
(S)****

**DIXIELAKEBOARD.ORG
MAPS**

WITH HERBICIDES AND

ermit for the treatment has
not required.

proposed treatment area. In
to advise persons who may

iations, or with the owners of
ions about the proposed

and weed control.

o water use restrictions apply.

pril thru September.

EGLE Native Plant & Algae Restrictions (updated in 2021)



Can treat invasive exotics (EWM, starry stonewort) anywhere with systemics

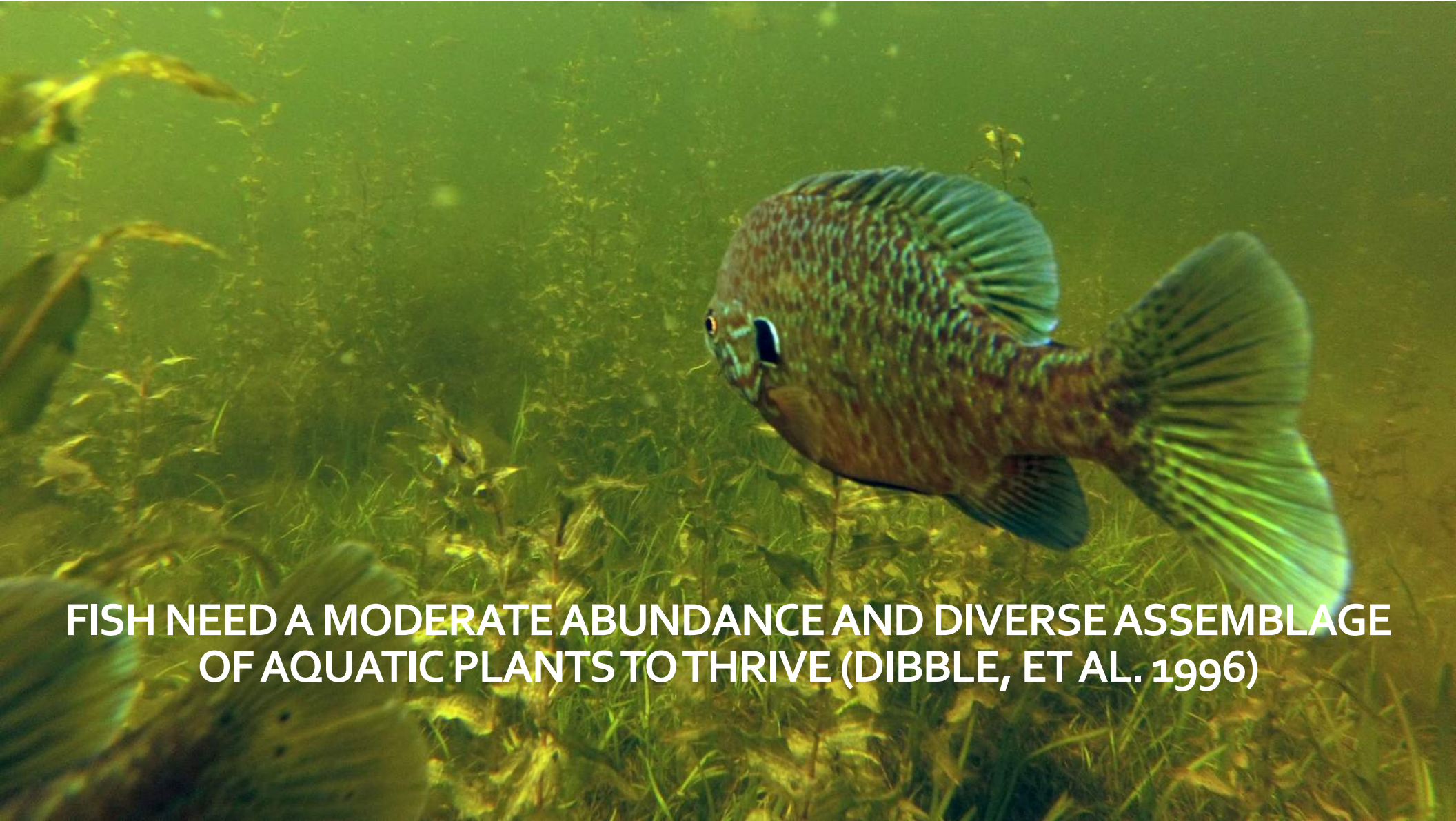


Cannot treat native plants and algae beyond 100 feet from shore or 5-foot contour (whichever comes first)

Cannot use copper sulfate for algae in May or June (also spawning restrictions)



For large lots, cannot treat more than 100 feet of frontage in any treatment



FISH NEED A MODERATE ABUNDANCE AND DIVERSE ASSEMBLAGE OF AQUATIC PLANTS TO THRIVE (DIBBLE, ET AL. 1996)



Photo credit Univ. of Wisconsin

Change in Growth Rates Between Surveys

- ⊖ 14 treatment lakes - 7 lakes had increased growth rates (versus state average) amongst most species; two lakes had decreased growth rates; five lakes remained the same.
- ⊖ 7 control lakes – one lake had decreased growth rates amongst most species; six lakes remained the same.
- ⊖ Lake Oakland saw an increase in growth rates for most species and gained a total of three species (18 to 21) since the 2001 survey.

Aquatic Plant Control

Algae concerns and what you can do:

Common algae
Filamentous algae



michiganlakeinfo

Home

Info

Links

Associations

MNSP



WELCOME

The Michigan Shoreland Stewards Program provides recognition for lakefront

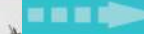
Your shoreland can be maintained to provide beach and boat access for you while maintaining habitat for fish and wildlife.

Don't dump into storm drains; pollutants may be piped directly to the lake



Most lakeside soils have more than enough phosphorus to grow lawns, trees, and shrubs. Adding phosphorus fertilizer is usually not necessary, and can cause excessive growth of aquatic plants.

Maintain a greenbelt of trees, shrubs, and ground cover—it's good for fish and wildlife, and protects water quality too.

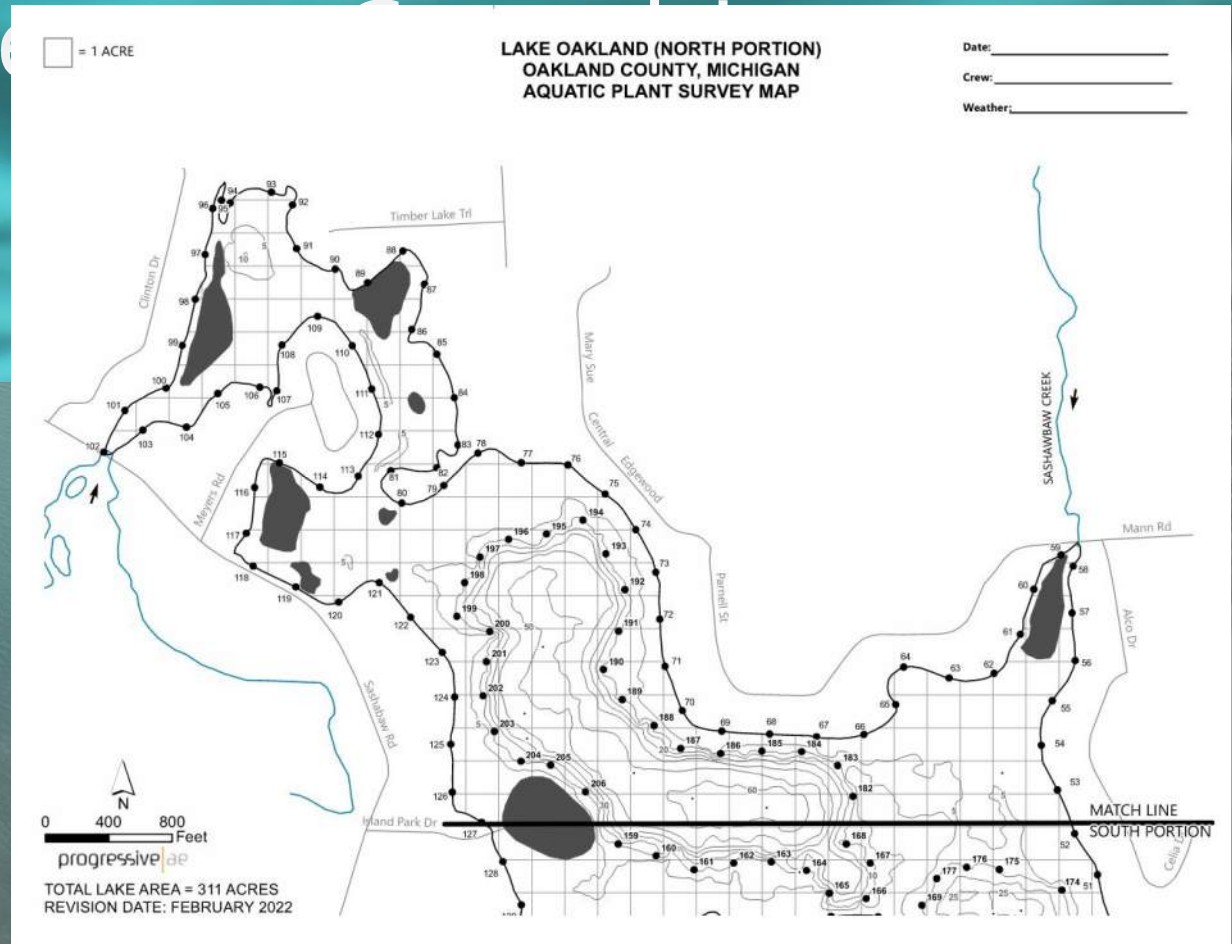


Less turf means less maintenance—and less mowing! It's more efficient and easier on you.



Lake Management

- Aquatic plant surveys
- Contractor oversight
- Record keeping
- Meeting attendance



Prepa

Intranet - Home x Project Dashb

water.progressiveae.com/Pro

progressiveae



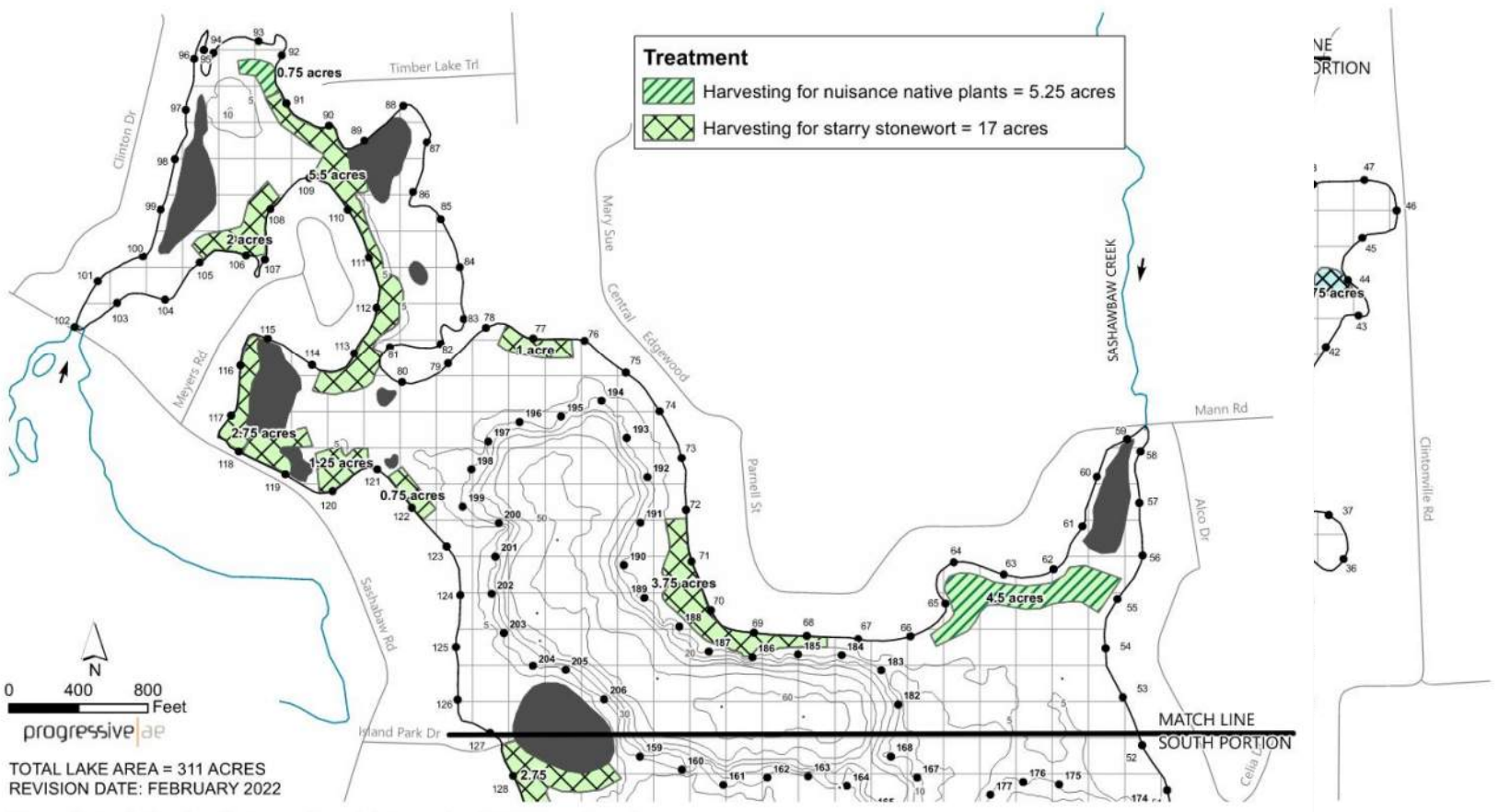
JOURNAL

2022		
Type	Date	Summary
Permit	1/3/2022	Reimbursement for 202
	1/19/2022	Stone 2022 EGLE permit
Survey	5/25/2022	Found some milfoil and
	6/6/2022	Stone 05 24 22 Treatme
	6/20/2022	Stone 05 24 22 Harvest
Survey	6/23/2022	LJA Survey. One patch o

□ = 1 ACRE

LAKE OAKLAND (NORTH PORTION) OAKLAND COUNTY, MICHIGAN JUNE 30, 2022 HARVEST MAP

□ = 1 ACRE

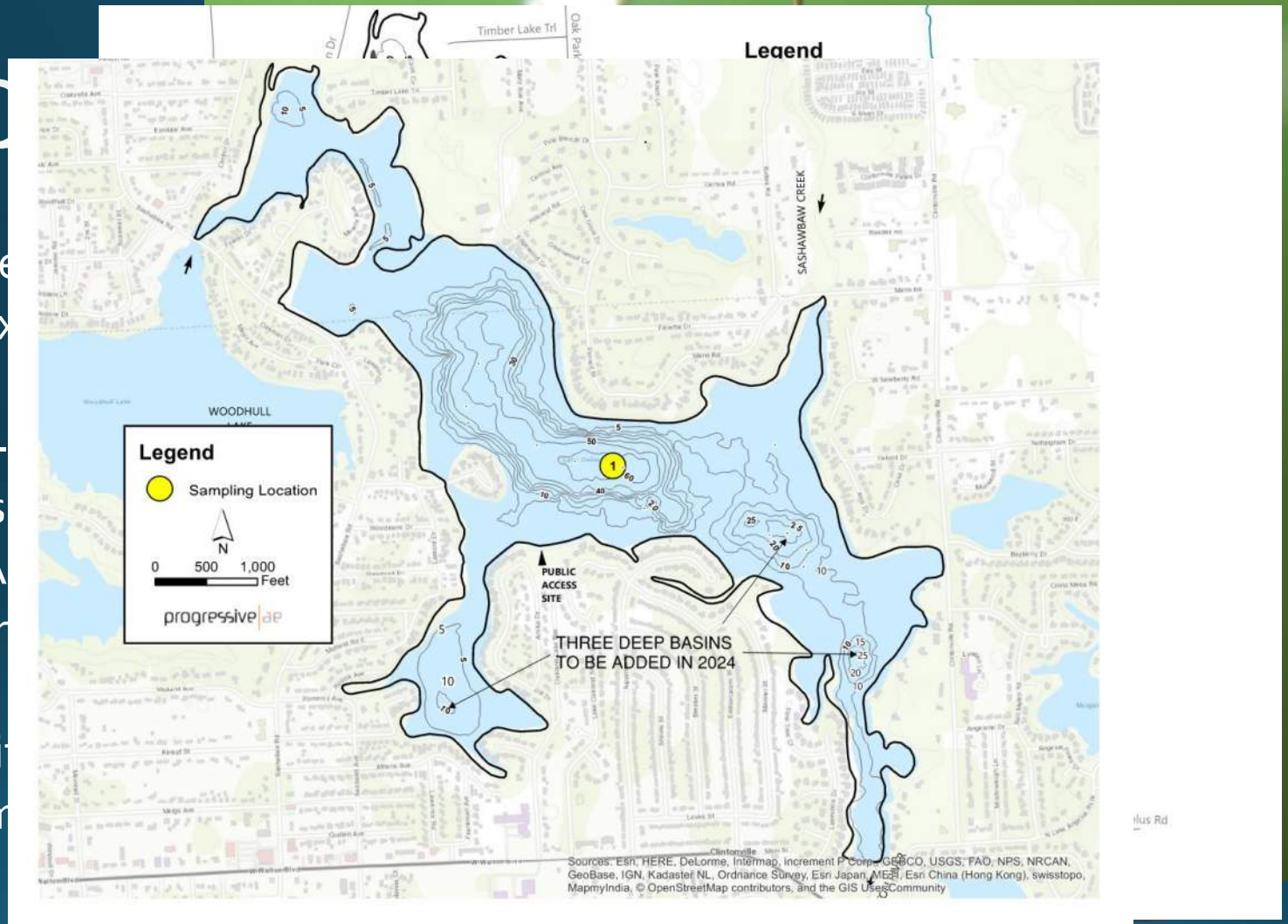


The applicator shall make adjustments, if needed, to comply with EGLE permit requirements.

7/6/2023

Water Quality

- Temperature
- Dissolved Oxygen
- Phosphorus
- Chlorophyll-a
- Secchi Transparency
- pH & Total Alkalinity
- Total Suspended Solids
- Chloride
- QA/QC is critical
- Discreet sampling



Information and Education

- Website lakeoaklandboard.org
- Reports
- Meetings



Purple Loosestrife & Goose Control



Contingency Funds

- Public hearing related costs (mailings, advertisements, etc....)
- Administrative costs incurred by the lake board
- Additional herbicide treatments and/or mechanical harvesting

2024-2028 Budget

	Annual Cost
= Improvement	
= Aquatic Plant Control (Treatments & Harvesting)	\$80,000
= Lake Management Consulting	
= Plant Control Oversight & Coordination	
= Project Administration	\$12,500
= Water Quality Monitoring (Four Deep Basins)	\$4,500
= Information & Education	\$3,000
= Purple Loosestrife & Goose Control	\$2,500
= Contingency	\$9,000
= Less Existing Surplus	<u>-\$10,000</u>
= TOTAL	\$101,500

2024 – 2028 Annual Assessment Breakdown

Lakefront parcels	\$192
Backlots w/deeded or dedicated access	\$48

Thank you!

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Lake Oakland Improvement Board

OAKLAND COUNTY, MICHIGAN

Attachment 'E'

Lake Oakland Improvement Board
c/o Ms. Stephanie Petriello
Oakland County Water Resources
Commissioner's Office
One Public Works Drive, Bldg 95 West
Waterford, MI 48328-1907

Stephanie Petriello

LOIS MARSHALL
3801 MARINER
WATERFORD, MI 48329
1302453025

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1302327014

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c/o Ms. Stephanie Petriello
Oakland County Water Resources
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Stephanie Petriello

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WATERFORD, MI 48329
1302305002

James Ward

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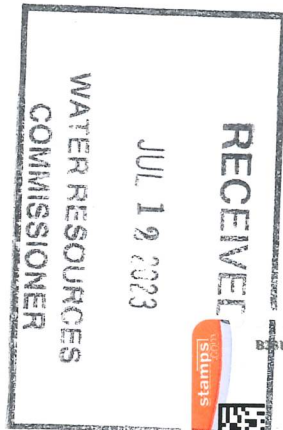
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Oakland County Water Resources
Commissioner's Office
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Oakland County Water Resources
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KENNETH MATHEIS SR
4200 AQUARINA
WATERFORD, MI 48328-1302
130240

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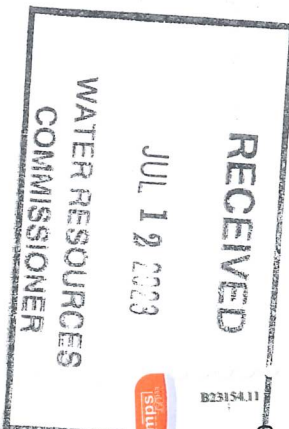


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SUSAN MARGULIS
1888 LAKESHORE
WATERFORD, MI 48329
1302480006

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MICHAEL GATLIN
3793 MARINER
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1303229010

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PAUL RIDLEY
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WATERFORD, MI 48329
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