



Michigan's Citizen Volunteer Partnership for Lakes

2022 Annual Summary

Managed By:
Michigan Department of Environment, Great Lakes, and Energy
Michigan State University
Michigan Lakes and Streams Association, Inc.
Huron River Watershed Council



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I. Introduction

The Michigan Department of Environment, Great Lakes, and Energy (EGLE), Michigan State University Extension, Michigan Lakes and Streams Association, and the Huron River Watershed Council partner to implement the MiCorps Cooperative Lakes Monitoring Program (CLMP).

This report summarizes the 2022 CLMP field season.

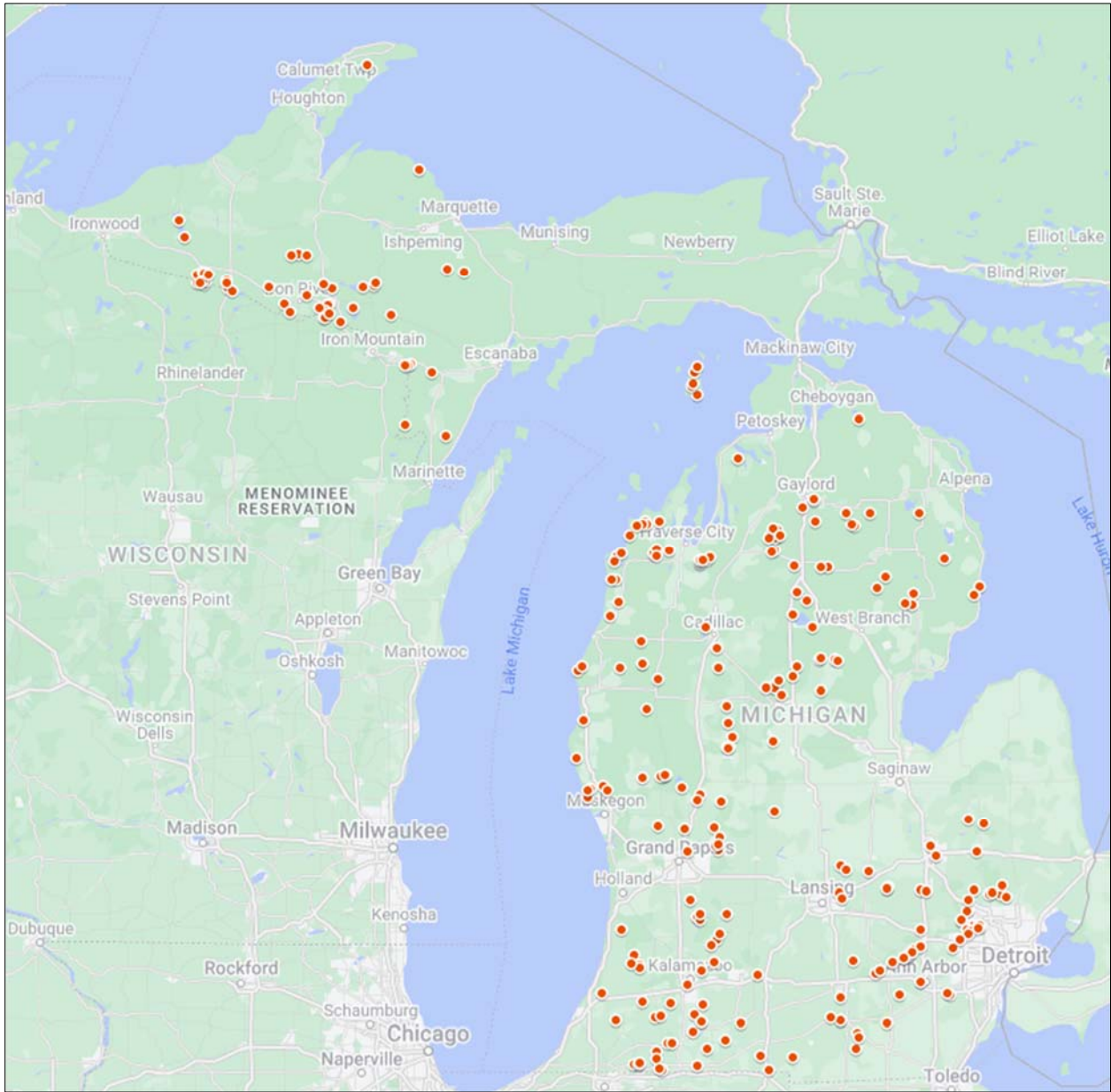
The goals of the CLMP are to:

- Provide baseline information and document trends in water quality for individual lakes.
- Educate lake residents, users, and interested citizens in the collection of water quality data, lake ecology, and lake management practices.
- Build a constituency of citizens to practice sound lake management at the local level and to build public support for lake quality protection.
- Provide a cost-effective process for EGLE to increase baseline data for lakes state-wide.

To learn more about the CLMP program, there are many other resources available:

1. The Michigan Clean Water Corps website includes a variety of resources such as the online database which contains all CLMP data. <https://data.micorps.net/view/lake/>
2. The CLMP Manual contains an overview of the program and the volunteer monitoring procedures: https://micorps.net/wp-content/uploads/2021/03/CLMP-Manual-2019update2_2021.pdf
3. Starting in 2014, each lake enrolling in the program received an individual report summarizing their data. <https://micorps.net/lake-monitoring/individual-lake-reports/>
4. The CLMP Quality Assurance Project Plan (QAPP) is a detailed report on how the CLMP collects and maintains high quality scientific data: https://micorps.net/wp-content/uploads/2018/06/QAPP_CLMP_2018.pdf

II. Map of 2022 CLMP Participating Lakes



III. A Note About Trophic Status and Carlson's TSI

A Trophic Status Index (TSI) is a lake classification system that rates water bodies on the amount of biological production they sustain. The CLMP uses the TSI scheme developed in 1977 by limnologist Dr. Robert Carlson, who created a numerical scale (0-100) where the numbers indicate the level of nutrient enrichment. Using the proper equations, the CLMP convert results from Summer Total Phosphorus, Secchi Depth, and Chlorophyll-a to this TSI scale.

There are 3 primary categories of Trophic Status:

Oligotrophic: Generally deep and clear lakes with little aquatic plant or algae 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. Carlson TSI score: Equal to or less than 38.

Eutrophic: Highly productive eutrophic lakes are generally shallow, turbid, 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. Carlson TSI Score: Greater than 48.

- **Hypereutrophic:** A specialized category of eutrophic lakes. These lakes exhibit extremely high productivity, such as nuisance algae and weed growth. Carlson TSI Score: Greater than 61.

IV. Summary Statistics of Monitored Parameters

A. General Statistics

2022 General Statistics	
No. of sites enrolled in at least one parameter	295
Number of sites meeting participation criteria for at least one parameter	260 (88%)
Number of sites with full participation in all three parameters measuring trophic status (Secchi Disk, Summer Total Phosphorus, Chlorophyll-a):	115 (39%)
Average TSI of those sites with full trophic participation	42.7 (Mesotrophic rating)

B. Secchi Disk Transparency

CLMP volunteers measure water transparency using a Secchi disk from late spring to the end of the summer. Ideally, 18 weekly measurements are made from mid-May through mid-September. Participation involves submitting at least 8 measurements.

2022 Secchi Disk Transparency	
No. of sites enrolled	275
No. of sites meeting participation criteria	191 (69%)
Total no. of measurements reported	2726
Lake with lowest average transparency (in ft)	1.0 (Fox Lake, Muskegon, Co.)
Lake with highest average transparency (in ft)	35.1 (Bear Lake, Kalkaska Co.)
Mean (average) measurement of all lakes (in ft)	11.3
Mean (average) TSI of all lakes	43.6 (Mesotrophic rating)

C. Total Phosphorus

CLMP volunteers collect water samples for total phosphorus during spring overturn, when the lake is generally well mixed from top to bottom, and during late summer, when the lake is at maximum temperature stratification from the surface to the bottom.

2022 Total Phosphorus Monitoring	
<u>Spring Overturn Sampling</u>	
No. of sites enrolled	199
No. of sites submitting valid samples	174 (87%)
Minimum reported value	< 5 µg/L (Little Twin, Kalkaska Co and First Fortune, Iron Co)

Maximum reported value	220 µg/L (Crockery Lake, Ottawa Co)
Mean (average) value	20.5 µg/L
<u>Summer Stratification Sampling</u>	
No. of sites enrolled	257
No. of sites submitting valid samples	232 (90%)
Minimum reported value	< 5 µg/L (multiple lakes)
Maximum reported value	150 µg/L (Fox Lake, Muskegon Co)
Mean (average) value	17.4 µg/L
Mean (average) TSI	42.7 (Mesotrophic)

D. Chlorophyll-a

Volunteers collect water samples for chlorophyll-a, an estimator of the amount of algae in the water column, once per month from May through September. At least four valid samples must be submitted to be considered full participation in this parameter.

2022 Chlorophyll-a Monitoring	
No. of sites enrolled	161
No. of sites meeting full participation	143 (89%)
Total no. of valid samples	622
Minimum median measurement	< 1 µg/L (multiple lakes)
Maximum median measurement	43 µg/L (Lost Lake, Oakland)
Median Lake measurement	4.8 µg/L
Mean (average) TSI	43.3 (Mesotrophic)

E. Dissolved Oxygen and Temperature

CLMP volunteers measure dissolved oxygen and temperature profiles for their lakes, measured from the surface to within 3 feet of the bottom, at the deepest point in the lake. These profile measurements are made with an electronic dissolved oxygen meter (YSI Pro20 or YSI 550A), ideally every two weeks from mid-May through mid-September.

2022 Dissolved Oxygen and Temperature Monitoring	
No. of sites enrolled	95
No. of sites submitting at least one profile	77 (81%)
Total no. of profiles submitted	611

F. Exotic Aquatic Plant Watch

Volunteers in this monitoring program survey their lakes for invasive aquatic plants of special concern for Michigan lakes: curly-leaf pondweed, Eurasian watermilfoil, Hydrilla, starry stonewort, and European frog-bit.

2022 Exotic Aquatic Plant Watch	
No. of sites enrolled	63
No. of sites submitting report	49 (78%)
No. of lakes reporting Eurasian water milfoil:	22 (44%)
No. of lakes reporting curly-leaf pondweed:	8 (16%)
No. of lakes reporting Hydrilla:	0 (0%)
No. of lakes reporting starry stonewort:	9 (18%)
No. of lakes reporting European frog-bit:	0 (0%)

D. Aquatic Plant Identification and Mapping

This program is the most labor-intensive volunteer activity within the CLMP. Typically, a team of volunteers from each enrolled lake is involved, with assistance from a MiCorps biologist. The end result is a plant distribution map and abundance report for all plants growing in the lake, including both native and, if found, invasive species.

2022 Aquatic Plant Mapping	
No. of sites enrolled	11
No. of sites submitting report	11 (100%)

G. Score the Shore

Volunteers motor around their lake, reviewing 1000-foot sections of shoreline for littoral habitat, riparian habitat, and erosion control. Sections with natural habitat will have higher scores than ones with hardened shorelines. Each lake is scored on a 0-100 scale, with 100 having the highest quality habitat. Scores for each section as well as for the entire lake allow volunteers to review high quality areas as well as sections that would benefit from habitat enhancement.

2022 Score the Shore	
No. of sites enrolled	20
No. of sites submitting report	15 (75%)
Total No. of lake sections scored	244
Avg Score	77.6

V. Thank you, CLMP Volunteers!

Name	Role	Lakes
John Ackerman Jr	Lead Volunteer	No lake on record
Lisa Adams	Lead Volunteer	Big Bass Lake, Little Bass Lake
Camilla Anden McGeehin	Lead Volunteer	Kassuba
Tom Anderson	Lead Volunteer	Blue
Mike Andrachick	Lead Volunteer	Pecks
Molly Bacon	Lead Volunteer	Grass
Joey Badall	Lead Volunteer	Browns
Sue Bade	Lead Volunteer	Silver
Terry Bakewell	Lead Volunteer	Horsehead
Douglas Bamfield	Lead Volunteer	Long
Jeff Banaszynski	Lead Volunteer	Lakeville
Sara Basso	Lead Volunteer	No lake on record
Jerry Beattie	Lead Volunteer	Twin West
Curtis Bedbury	Assisting Volunteer	No lake on record
Ralph Bednarz	Lead Volunteer	Rennie Grand
Daniel Behring	Assisting Volunteer	No lake on record
Bruce Beilfuss	Lead Volunteer	First Fortune, Second Fortune
Deb Berkey	Lead Volunteer	Great Bear
Patrick Betcher	Assisting Volunteer	No lake on record
Tom Betts	Lead Volunteer	No lake on record
Jack Billi	Lead Volunteer	No lake on record
Robert Blauwkamp	Assisting Volunteer	No lake on record
Kathleen Boehm	Assisting Volunteer	No lake on record
Fredrick Bojack	Assisting Volunteer	No lake on record
Terry Bone	Lead Volunteer	James
Mark T Bradburn	Lead Volunteer	Murray
Mick Braman	Lead Volunteer	No lake on record
Jenny Bremer	Assisting Volunteer	No lake on record
Mary Bremigan	Lead Volunteer	Perch
Greg Bright	Lead Volunteer	Paw Paw
Abbie Broersma	Assisting Volunteer	No lake on record
Stephen C Brown	Lead Volunteer	Bass
Shawn Brozovich	Lead Volunteer	No lake on record
Daniel Burton	Lead Volunteer	Paw Paw
John Butcher	Lead Volunteer	Mack
Dan Carbaugh	Lead Volunteer	Cedar, Cedar Island

Roy Carlson	Lead Volunteer	Buck
Sue Carmichael	Assisting Volunteer	Eagle
Jane Carnarvon	Assisting Volunteer	No lake on record
Lynne Carothers	Lead Volunteer	Avery
Jesse Casari	Assisting Volunteer	No lake on record
Dennis Cerney	Lead Volunteer	Camp
Ellen Champagne	Lead Volunteer	No lake on record
Ursula Charaf	Lead Volunteer	No lake on record
Mike Cipriano	Assisting Volunteer	No lake on record
Leslie Clark	Lead Volunteer	Cass, Dollar
Steven Clark	Lead Volunteer	Woods
Greg Clark	Lead Volunteer	Long
Brian Cline	Lead Volunteer	Ackerson
James Collins	Assisting Volunteer	Portage
Joette Collins	Lead Volunteer	Devils, Round
Chelsea Cooper	Assisting Volunteer	Portage
Lisa & Mike Cooper	Lead Volunteer	No lake on record
David Cornelius	Lead Volunteer	Whitefish Big
Loretta Cornfield	Lead Volunteer	Many, many lakes in Gogebic Co
Richard Costello	Lead Volunteer	Hemingway
Bruce Costen	Assisting Volunteer	No lake on record
William Courliss	Lead Volunteer	Union
Jeffrey Cousins	Assisting Volunteer	No lake on record
Tim Crites	Lead Volunteer	No lake on record
Beau Crnkovich	Assisting Volunteer	No lake on record
John Cummiskey	Assisting Volunteer	No lake on record
Sherri Curry	Lead Volunteer	No lake on record
Jeffrey Czymbor	Assisting Volunteer	No lake on record
Paul Dalpra	Lead Volunteer	Mary
Jeffrey Darnell	Lead Volunteer	No lake on record
Jeffrey Davis	Lead Volunteer	Cub
Lids Davis	Lead Volunteer	No lake on record
Phillip De Jonge	Lead Volunteer	No lake on record
Corey Dean	Assisting Volunteer	No lake on record
Alexis DeGabriele	Assisting Volunteer	Portage
Brian Degnore	Lead Volunteer	No lake on record
Jack DeLee	Lead Volunteer	Shavehead
Linda Deneen	Assisting Volunteer	No lake on record
Bob Deneen	Assisting Volunteer	No lake on record
Melissa DeSimone	Lead Volunteer	Gravel

Mike Devarenne	Lead Volunteer	Emerald
Will Dew	Lead Volunteer	Sugarloaf
lisa Donati	Lead Volunteer	Eagle
Kelly Duggan	Lead Volunteer	No lake on record
Megan East	Lead Volunteer	No lake on record
Steve Edwards	Lead Volunteer	Nowland
Matthew Endres	Assisting Volunteer	No lake on record
John Etcorn	Lead Volunteer	Little Long
Paul Fallon	Lead Volunteer	Birch
Wanda Feick-Chall	Assisting Volunteer	No lake on record
Nicole Fickes	Assisting Volunteer	No lake on record
Michael Finney	Lead Volunteer	Ellen
Richard Flegel	Lead Volunteer	Portage
Shannon Flynn	Lead Volunteer	Pleasant
Kaitlin Fochesato	Assisting Volunteer	No lake on record
Jim Fogarty	Lead Volunteer	No lake on record
Brooke Fogt	Lead Volunteer	Eagle
John Foran	Assisting Volunteer	No lake on record
Susan Foster	Lead Volunteer	Arbutus
Chris Freiburger	Lead Volunteer	Batteese
Alan Freid	Lead Volunteer	Wall
Linda Frost	Lead Volunteer	Island
Martha Gabrielse	Lead Volunteer	Bills
Barb Gajewski	Lead Volunteer	Ottawa, Brule
Mike Gallagher	Lead Volunteer	Gull
Greg Garrett	Assisting Volunteer	No lake on record
Tom Garrity	Lead Volunteer	Lily
Larry Gavin	Lead Volunteer	Long
Jeremy Geist	Lead Volunteer	No lake on record
Stephen George	Lead Volunteer	Long Upper
Sandy Giaier	Lead Volunteer	Island
Gary Gibson	Lead Volunteer	No lake on record
Michael Golas	Lead Volunteer	Sunset
William Gottlin	Assisting Volunteer	No lake on record
Carolyn Grace	Lead Volunteer	Palmer, Templene, Sturgeon
Tim Green	Lead Volunteer	Taylor
Gary Greene	Lead Volunteer	No lake on record
Nancy Grott	Lead Volunteer	No lake on record
Robin Hagen	Lead Volunteer	Sanford
Thomas Haight	Lead Volunteer	Perch
Ray Hall	Lead Volunteer	No lake on record

Doug Hansen	Lead Volunteer	No lake on record
Andy Harrington	Lead Volunteer	Fremont
Shelby Harris	Lead Volunteer	Barneys, Fox, Geneserath,Font, Greenes
Heidi Haskins	Assisting Volunteer	Little Bass
Kathryn Haughton	Lead Volunteer	Hunter
Florence Hawarden	Lead Volunteer	Wormer, Mohawk
Bonnie Hay	Lead Volunteer	Gratiot
Bill Hayhow	Lead Volunteer	Viking
Ron Heady	Lead Volunteer	Cranberry
William Henning	Lead Volunteer	Herring Upper
Sarah Heuer	Lead Volunteer	Independence
Erie High	Lead Volunteer	Elbow
Dawn Hoffman	Lead Volunteer	Pine Island Big
Erin Hoffman	Lead Volunteer	No lake on record
Olivia Holtgren	Assisting Volunteer	No lake on record
Jack Holtgren	Assisting Volunteer	No lake on record
Cindy Hooker	Lead Volunteer	Barlow
Roger Hopkins	Lead Volunteer	Pleasant
Autumn Hostetter	Lead Volunteer	Oatman
Megan Irving	Lead Volunteer	No lake on record
Lynne Isenbarger	Lead Volunteer	Lake of the Woods
John Jackson	Lead Volunteer	Twin East
Mike Jacobs	Lead Volunteer	No lake on record
Laura Jamrog	Assisting Volunteer	No lake on record
Kathy Jelsema	Assisting Volunteer	No lake on record
Dan Johnson	Lead Volunteer	Kimball, Pickerel
Nicholas Johnson	Lead Volunteer	No lake on record
Rick Jones	Assisting Volunteer	No lake on record
John Joyce	Lead Volunteer	No lake on record
Gregg Kabacinski	Lead Volunteer	No lake on record
Mary Kaczinski	Lead Volunteer	Farwell
John Kaiser	Lead Volunteer	Long
Randy Kaja	Lead Volunteer	Scram
Ted Kanakis	Lead Volunteer	No lake on record
Richard Kasowski	Lead Volunteer	Aginaw, Round, Rose
Margaret Kay	Lead Volunteer	Au Sable
Michael Kellar	Lead Volunteer	Orion
Janice Kessler	Assisting Volunteer	No lake on record
Wayne Kiefer	Lead Volunteer	Windover
Jessica Kimmerly	Lead Volunteer	No lake on record

Marv Kingsley	Assisting Volunteer	No lake on record
Bruce Kingsley	Lead Volunteer	No lake on record
Craig Kivi	Assisting Volunteer	Portage Little
leonard klein	Lead Volunteer	Long
Don Klobucar	Lead Volunteer	Wolf
Joe Kopchick	Assisting Volunteer	Crystal
john kopec	Lead Volunteer	No lake on record
Tony Koritnik	Lead Volunteer	Arnold
Kenneth Kosal	Lead Volunteer	Jewell
Ron Kreiger	Lead Volunteer	No lake on record
Gregory Kulesza	Lead Volunteer	Spider
Gene Lagerquist	Assisting Volunteer	No lake on record
Phyllis Laine	Assisting Volunteer	No lake on record
Linda Lane	Assisting Volunteer	Crockery
Steve lapalio	Lead Volunteer	Moon
Chris Lapins	Assisting Volunteer	No lake on record
Mario Laudicina	Lead Volunteer	Lancer, Lancelot
Wayne Leblong	Assisting Volunteer	No lake on record
Keith Lee	Lead Volunteer	Whitmore
Elizabeth Lemoine	Lead Volunteer	Fox
Michael Lesich	Lead Volunteer	Long
David Lewis	Lead Volunteer	RoundMecosta, Blue
Eric Lindstrom	Lead Volunteer	Clear
Mike Litch	Assisting Volunteer	No lake on record
Matthew Long	Lead Volunteer	Stone Ledge
Mark Lux	Lead Volunteer	Posey
Pete Macauley	Lead Volunteer	Sand
Thomas Madden	Lead Volunteer	Stager
Alex Majewski	Lead Volunteer	No lake on record
Deborah Major	Lead Volunteer	No lake on record
Patricia Makielski	Assisting Volunteer	No lake on record
Kaitlyn Mann	Lead Volunteer	No lake on record
Courtney Marek	Assisting Volunteer	No lake on record
Beth Markowski	Assisting Volunteer	No lake on record
Thomas Markowski	Assisting Volunteer	No lake on record
John Mater	Lead Volunteer	Island
David Matthews	Assisting Volunteer	No lake on record
David Maxson	Lead Volunteer	Ann
Michael Mayer	Lead Volunteer	Cedar
Linda McCallum	Lead Volunteer	No lake on record
Bill McConnell	Lead Volunteer	No lake on record

Cheryl McCormick	Assisting Volunteer	No lake on record
Linda McCracken	Lead Volunteer	No lake on record
Sarina McFadden	Assisting Volunteer	No lake on record
Mike McGarry	Lead Volunteer	Rose
Oliver McGeehin	Assisting Volunteer	Kassuba
Leo McLaughlin	Assisting Volunteer	No lake on record
Rick Meeks	Lead Volunteer	Higgins
Marilyn Merit	Lead Volunteer	Maceday, Lotus Oakland
Bill Meserve	Lead Volunteer	Glen Big, Glen Little, Brooks, Fisher Big
Jim Meyer	Assisting Volunteer	No lake on record
Jeffrey Meyer	Lead Volunteer	Beaver
Tom Michalak	Lead Volunteer	No lake on record
Sandra Michalik	Lead Volunteer	Margrethe
Jim Mikolaizik	Lead Volunteer	Houghton North Bay
Karen Miller	Assisting Volunteer	No lake on record
David Miller	Lead Volunteer	Oneida
Tina Miller	Lead Volunteer	Walled
Kelsey Mills	Assisting Volunteer	No lake on record
Mark Mitchell	Lead Volunteer	Barton
Bart Mol	Lead Volunteer	Avery
Jodi Monteith	Lead Volunteer	No lake on record
Michael Mutschler	Lead Volunteer	Crooked Upper
Sara Nedrich	Lead Volunteer	No lake on record
Michael Needham	Lead Volunteer	Klinger
Patricia Nelson	Lead Volunteer	Paw Paw
Joe Nohner	Lead Volunteer	Lansing
Denise Nurkala	Lead Volunteer	Bass
Craig O'Brien	Lead Volunteer	Bear
Jill O'Connor	Lead Volunteer	Hutchins
Robert Ogren	Lead Volunteer	Newcomb
Jim Okraszewski	Assisting Volunteer	No lake on record
John Oliver	Assisting Volunteer	No lake on record
Thomas Ollila	Lead Volunteer	Swan
Leo Osterholt	Lead Volunteer	Huyck
Jim Owens	Assisting Volunteer	Squaw
Dan Pampreen	Lead Volunteer	Ford
Gary Pangborn	Lead Volunteer	No lake on record
Nola Parkey	Lead Volunteer	Park
Kari Parnin	Assisting Volunteer	No lake on record

Bruce Pelletier	Lead Volunteer	Hamlin Lower, Hamlin Upper
Jane Perrino	Lead Volunteer	No lake on record
Kaytlin Perry	Assisting Volunteer	Gull
Deborah Peterman	Assisting Volunteer	No lake on record
Steve Peterman	Lead Volunteer	No lake on record
John Peterson	Lead Volunteer	No lake on record
Tina Peterson	Lead Volunteer	No lake on record
Lindsay Peterson	Lead Volunteer	Edey
Douglas Pohlod	Lead Volunteer	No lake on record
Judy Porman	Assisting Volunteer	No lake on record
Chris Powers	Lead Volunteer	Middle
Jeffrey Premetz	Assisting Volunteer	Lindsley
Joe Primozich	Lead Volunteer	No lake on record
Alan Proulx	Lead Volunteer	Middle Straits
Al Proulx	Lead Volunteer	No lake on record
Jeff Pu	Lead Volunteer	No lake on record
Rich Pugsley	Assisting Volunteer	No lake on record
John Ransom	Lead Volunteer	Crystal, Lime Benzie
Christiane Rathke	Lead Volunteer	No lake on record
Ron Reimink	Lead Volunteer	Lime
Bruce Reniger	Lead Volunteer	Gogebic
Gale Rewa	Lead Volunteer	Osterhout
Kurt Richardson	Lead Volunteer	Ore
Bryan Roels	Lead Volunteer	Chippewa
Nancy Rogers	Assisting Volunteer	No lake on record
Burns Rolland	Lead Volunteer	Barnes
William Rossi	Lead Volunteer	Chicagon
Brittany Ruff	Lead Volunteer	Victoria
Michael Russell	Lead Volunteer	Muskellunge
Jeff Sanborn	Lead Volunteer	Bear
Sarah Scheitler	Lead Volunteer	No lake on record
Robert Schirado	Lead Volunteer	No lake on record
Mike Schirott	Lead Volunteer	No lake on record
Colleen Schmidt	Lead Volunteer	No lake on record
Craig Schrotenboer	Lead Volunteer	No lake on record
Donna Seligman	Lead Volunteer	No lake on record
Connie Selles	Lead Volunteer	Fish
Becky Shafer	Assisting Volunteer	No lake on record
Eric Shafer	Lead Volunteer	Fishers
Tom Shear	Assisting Volunteer	Little Bass

Paul Sigg	Lead Volunteer	Long Cass
Craig Sisco	Lead Volunteer	O'Rourke
Carl Slindee	Lead Volunteer	No lake on record
Mark Smith	Lead Volunteer	Herring Lower
Mary Kay Smith	Lead Volunteer	Budd
Michael Smolka	Lead Volunteer	No lake on record
James Snell	Lead Volunteer	Corey
Wayne Snyder	Lead Volunteer	Crystal
Marie Solum	Lead Volunteer	Black
Matt Southern	Assisting Volunteer	No lake on record
Angie Stine	Lead Volunteer	Stanley
John Stivers	Lead Volunteer	Stony
Dan Stock	Lead Volunteer	Van Etten
Ben Stoline	Assisting Volunteer	No lake on record
Yvonne Stone	Lead Volunteer	Crystal
Martin Straka	Lead Volunteer	No lake on record
Christoper Summers	Lead Volunteer	No lake on record
Alicia Symanski	Assisting Volunteer	No lake on record
Ed Szumowski	Lead Volunteer	Carter
Brian Talsma	Lead Volunteer	No lake on record
Straight Tammy	Lead Volunteer	No lake on record
Charlie Taylor	Lead Volunteer	North
John TenCate	Lead Volunteer	Payne
Dane Terrill	Lead Volunteer	Cedar
Dylan Testing	Lead Volunteer	No lake on record
Robert Thompson	Lead Volunteer	No lake on record
Jannell Tillman	Lead Volunteer	Byram
Thomas Tisue	Lead Volunteer	Duck
Lara Treemore-Spears	Lead Volunteer	No lake on record
Taylor Truman	Lead Volunteer	Winyah
Deborah Truskowski	Assisting Volunteer	No lake on record
Diane Tryon	Lead Volunteer	No lake on record
Myle Turpen	Lead Volunteer	Mecosta, Round, Blue
Robert Tuttle	Lead Volunteer	Owasippe
David Ukleja	Lead Volunteer	Golden, Abeys
Jeff Ulin	Lead Volunteer	Cobb Barry
Grant Vander Laan	Assisting Volunteer	Lost, Twin Lakes
Benjamin VanderWeide	Lead Volunteer	Lost, Twin Lakes
Bruce Vanenkevort	Lead Volunteer	Maggie, West, Big Maggie, Little Maggie
Mary Ann Vargas	Lead Volunteer	Chancellor Blue

Victoria Velting	Lead Volunteer	No lake on record
Patches Vernon	Assisting Volunteer	No lake on record
Jody Vogelzang	Assisting Volunteer	No lake on record
Chelsey Wabsis	Lead Volunteer	No lake on record
Jon Waitz	Lead Volunteer	Portage Little, Portage, Baseline, Tamarack, Whitewood
David Wallace	Assisting Volunteer	No lake on record
Frances Wallace	Lead Volunteer	Portage
Mike Wallach	Lead Volunteer	Shag Big, Shag
Charlie Walmsley	Lead Volunteer	Coldwater
Sandy Waterlander	Lead Volunteer	Cable
Brendan Watson	Assisting Volunteer	No lake on record
Michael Wernette	Lead Volunteer	Oxbow
Lori Whitmyer	Lead Volunteer	No lake on record
Don Whitsitt	Lead Volunteer	Pleasant
John Wilks	Lead Volunteer	No lake on record
Kellie Willson	Lead Volunteer	Sylvan, Emerald
David Wilson	Lead Volunteer	Seymour
Patricia Wolters	Lead Volunteer	No lake on record
Bernard Woltjer	Lead Volunteer	No lake on record
Tammy Wright	Lead Volunteer	No lake on record
Lester Wyborny	Lead Volunteer	No lake on record
Katie Yates	Assisting Volunteer	No lake on record
Thomas Zeihen	Assisting Volunteer	No lake on record
Dennis Zimmerman	Lead Volunteer	George, Shingle
David Zmikly	Lead Volunteer	No lake on record

VI. Thank You Sample Collection Center Staff!

These individuals help with the logistics of collecting samples, mailing them to Lansing, and distributing and collecting Dissolved Oxygen meters.

Amber Butterfield (Dickenson County Conservation District)
Jeff Pytlarz (Lando Center)
Jean and Jim Roth (Michigan Lakes and Streams Association)

The following EGLE staff:

Jack Cotrone
Kathy David
Sonya Hudson
Tamara Lipsey
Deana Mercs
Amy Nevison
Lucy Robinson
Stevie Swanson
Crystal Zielinski

VII. CLMP Contacts

If you have any questions about the CLMP, please contact Erick Elgin with Michigan State University Extension at elgineri@msu.edu, and [subscribe to our email list](#) to receive announcements and updates on these monitoring programs.