



Michigan's Citizen Volunteer Partnership for Lakes

2017 Annual Summary

Managed By:
Michigan Department of Environmental Quality
Michigan Lake & Stream Associations, Inc.
Michigan State University Department of Fisheries and Wildlife
Great Lakes Commission
Huron River Watershed Council



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I. Introduction

The Michigan Department of Environmental Quality (DEQ), Michigan Lake & Stream Associations (MLSA), the Great Lakes Commission, the Huron River Watershed Council, and Michigan State University have partnered to implement the Cooperative Lakes Monitoring Program (CLMP).

The goals of the CLMP are to:

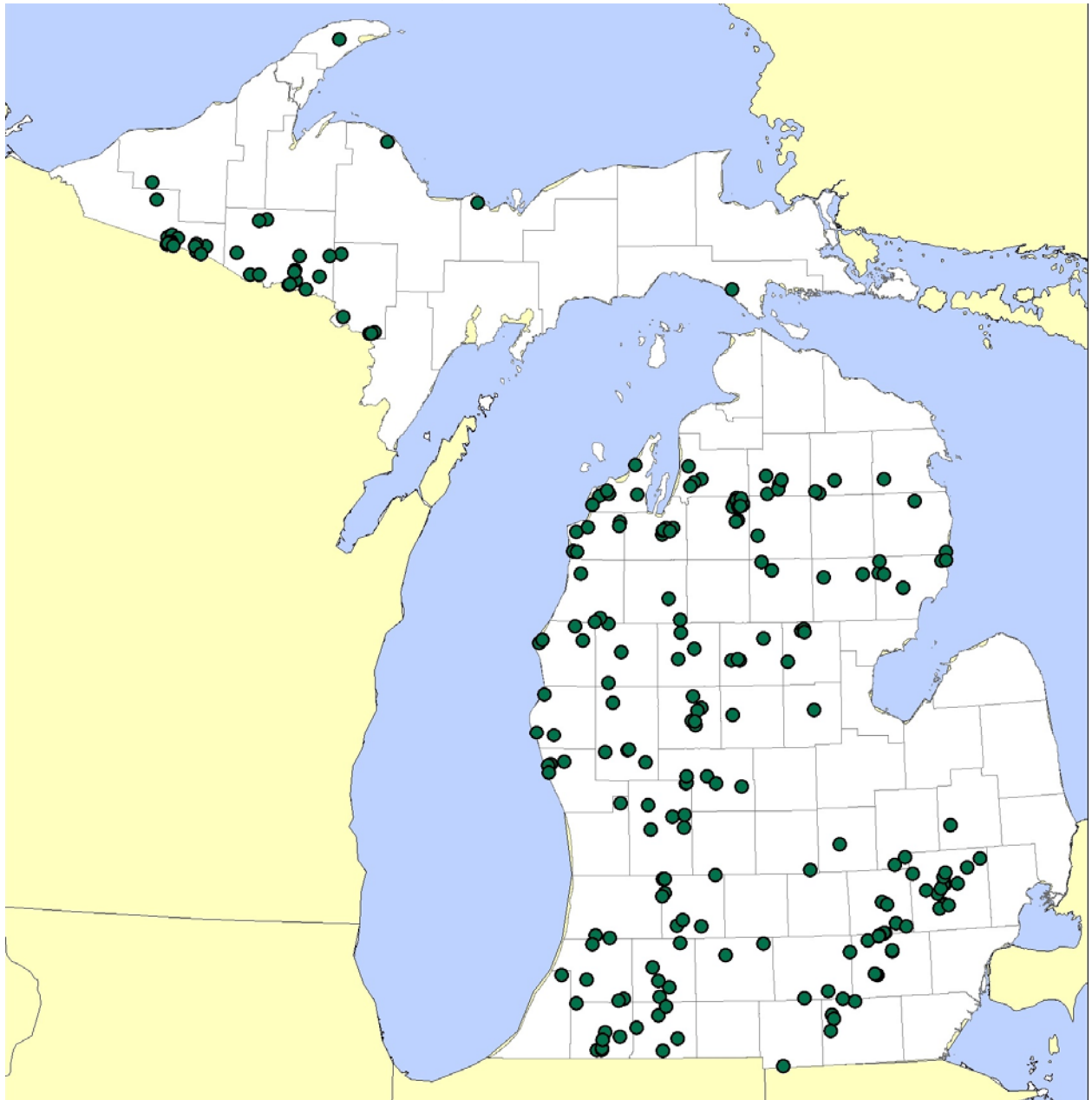
- Provide baseline information and document trends in water quality for individual lakes.
- Educate lake residents, users, and interested citizens in the collection of water quality data, lake ecology, and lake management practices.
- Build a constituency of citizens to practice sound lake management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

This report summarizes the 2017 CLMP field season.

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 including the online database which contains all CLMP data. <https://micorps.net>
2. The CLMP Manual contains an overview of the program and all of the volunteer monitoring procedures: <https://cdn.cloud1.cemah.net/wp-content/uploads/sites/63/2017/12/CLMP-Manual.pdf>
3. Starting in 2014, each lake enrolling in the program received an individual report summarizing their data. <https://micorps.net/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://cdn.cloud1.cemah.net/wp-content/uploads/sites/63/2017/12/QAPP-CLMP.pdf>

II. Map of 2017 CLMP Participating Lakes



III. Summary Statistics of Monitored Parameters

A. 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. Minimum participation requires submitting 1 measurement; full participation is submitting at least 8 measurements.

2017 Secchi Disk Transparency	
No. of sites enrolled	259
No. of sites meeting minimum participation	226 (86%)
No. of sites meeting full participation	198 (76%)
Total no. of measurements reported	2800
Lake with lowest average transparency	4.0' (Diane Lake, Hillsdale County)
Lake with high average transparency	36.6' (Torch Lake, Antrim County)
Mean (average) measurement of all lakes	12.1'

B. 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.

2017 Total Phosphorus Monitoring	
<u>Spring Overturn Sampling</u>	
No. of sites enrolled	211
No. of sites submitting valid samples	189 (90%)
Minimum reported value	< 3 µg/L (multiple lakes)
Maximum reported value	120 µg/L (Manitou Lake, Shiawassee Co)
Mean (average) value	11.6 µg/L
<u>Summer Stratification Sampling</u>	
No. of sites enrolled	236
No. of sites submitting valid samples	204 (86%)
Minimum reported value	< 3 µg/L (multiple lakes)
Maximum reported value	100 µg/L (Derby Lake, Montcalm Co)
Mean (average) value	11.4 µg/L

C. 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. Minimum participation requires at least one valid sample be submitted; at least four valid samples must be submitted to be considered full participation in this parameter.

2017 Chlorophyll-a Monitoring	
No. of sites enrolled	144
No. of sites meeting minimum participation	136 (94%)
No. of sites meeting full participation	119 (83%)
Total no. of valid samples	616
Minimum median Lake measurement	< 1 µg/L (multiple lakes)
Maximum median Lake measurement	9.4 µg/L (Diane Lake, Hillsdale Co.)
Median Lake measurement	2.1 µg/L

D. 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 meter, ideally every two weeks from mid-May through mid-September.

2017 Dissolved Oxygen and Temperature Monitoring	
No. of sites enrolled	66
No. of sites submitting at least one profile	54 (82%)
Total no. of profiles submitted	356

E. 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, and starry stonewort.

2017 Exotic Aquatic Plant Watch	
No. of sites enrolled	36
No. of sites submitting report	21 (58%)

F. 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 assistants 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.

2017 Aquatic Plant Mapping	
No. of sites enrolled	15
No. of sites submitting report	2 (13%)

G. Score the Shore

Volunteers motor around the lake, reviewing 1000 foot sections of shoreline in regards to littoral habitat, riparian habitat, and erosion control.

2017 Score the Shore	
No. of sites enrolled	34
No. of sites submitting report	11 (32%)

IV. DEQ Side-by-side Data Verification

DEQ staff monitor several lakes a year alongside the CLMP volunteer for phosphorus and chlorophyll. In the early years of the program, the DEQ used its standard operating procedures to collect the data, which differ slightly from the volunteers' monitoring procedures. The goal of the side-by-side visits was to ensure that the volunteer procedures produced accurate data. The correlation between DEQ samples and volunteers' samples has proven to be very high through many years of these side-by-side tests. CLMP and DEQ staff have concluded that the original goal of the side-by-sides has been met.

Starting in 2011, DEQ began to use the volunteer procedures to run the side-by-side data verifications. The new goal of the side-by-side visits are to build relationships with the volunteers and ensure that they correctly follow the volunteer procedures as a check on the training protocols.

A. 2017 Total Phosphorus Side-by-side samples

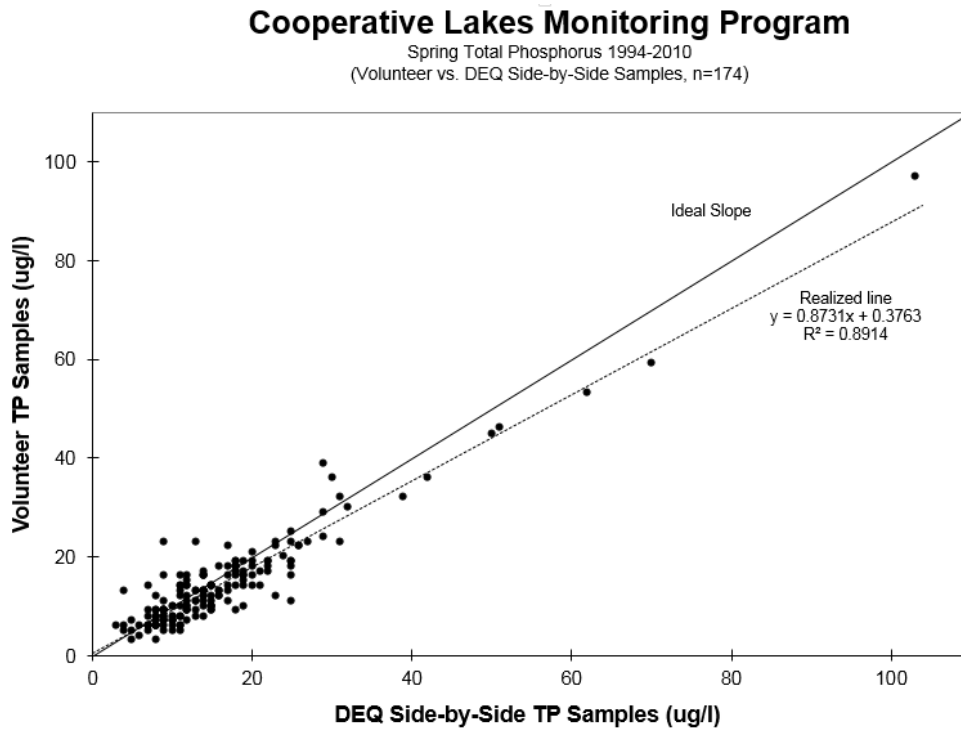
Date	Lake	Lake ID	County	Vol	Phosphorus (µg/L)		
					Rep	DEQ	Rep
8/31/17	Avery	600023	Montmorency	4		<=3	
9/14/17	Round	540073	Mecosta	13		7	9
9/14/17	Rogers Pond	540207370135	Mecosta	11		11	9

B. 2017 Chlorophyll Side-by-side samples

Date	Lake	Lake ID	County	Vol	Chlorophyll (µg/L)		
					Rep	DEQ	Rep
6/16/17	Big Pine Island	410437	Kent	3.7		4.7	3.0
8/16/17	Brooks	450222	Leelanau	1.7		3.2	
6/15/17	Cobb	080259	Barry	<1.0		<1.0	
7/11/17	George	180056	Clare	2.3		2.1	<1.0
5/15/17	Portage	750245	St. Joseph	<1.0		4.2	5.3
7/11/17	Shingle	180108	Shingle	3.6		5.1	5.9

C. Total Spring Phosphorus side by side data

1994-2010

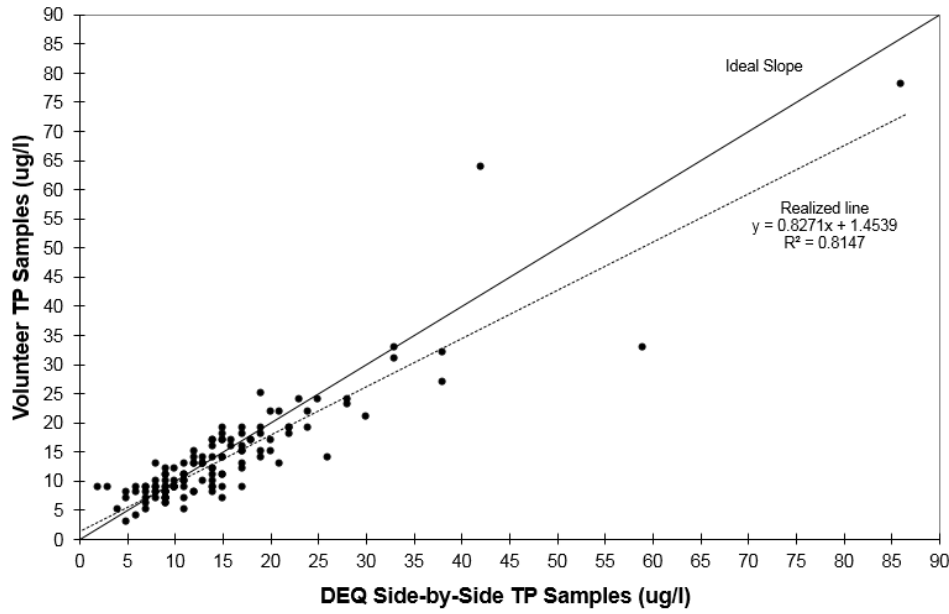


2011-2017: Graph not produced. (Because spring phosphorus is taken quickly after ice out, it is not possible to plan ahead for spring P side-by-sides and these samples are no longer taken).

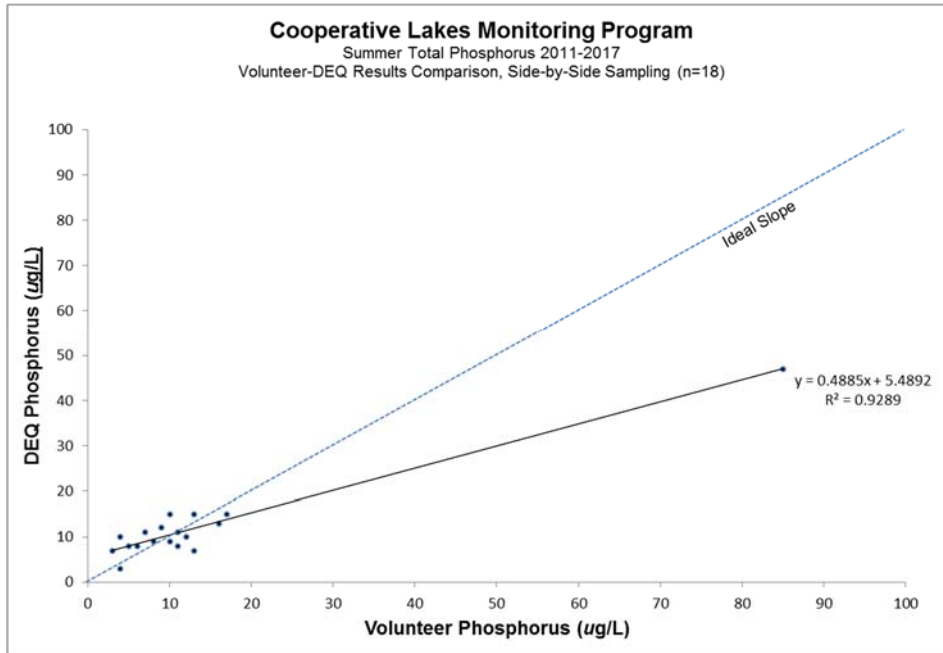
D. Total Summer Phosphorus side-by-side data

Cooperative Lakes Monitoring Program

Summer Total Phosphorus 1998-2010
(Volunteer vs. DEQ Side-by-Side Samples; n = 126)



2011-2017

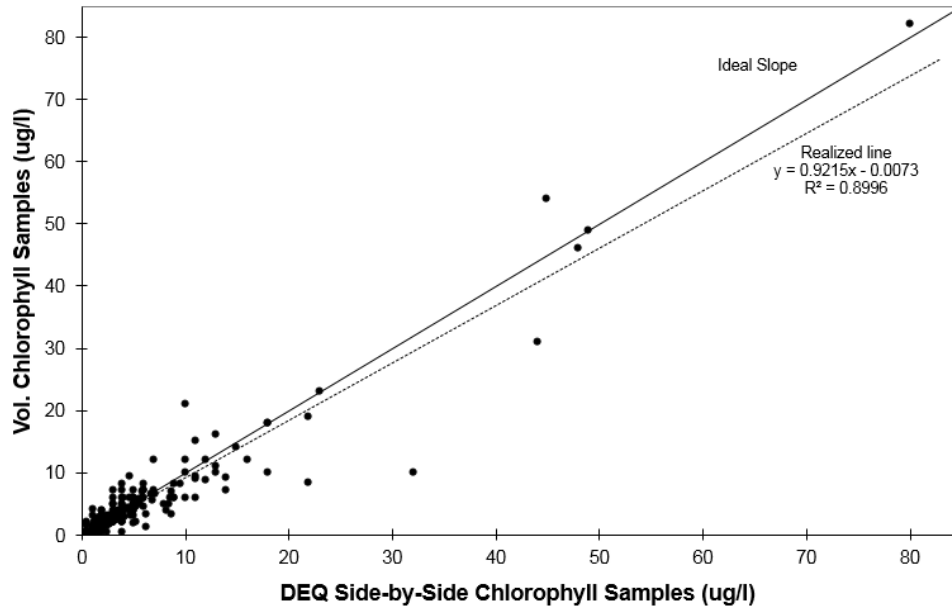


E. Chlorophyll, side-by-side data

1994-2010

Cooperative Lakes Monitoring Program

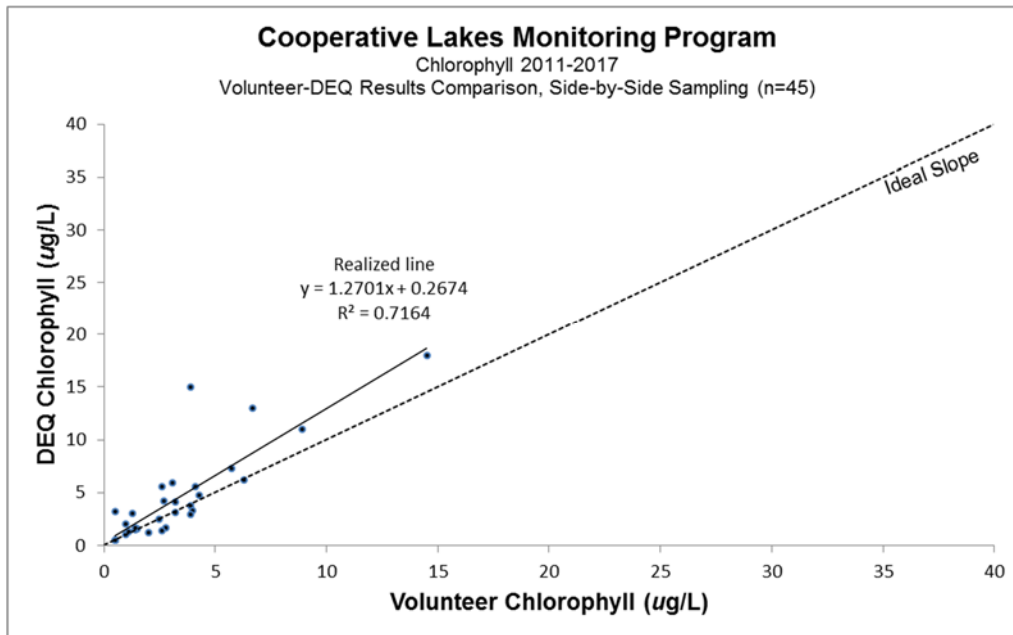
Chlorophyll a 1998-2010
(Volunteer vs. DEQ Side-by-Side Samples, n=198)



2011-2017

Cooperative Lakes Monitoring Program

Chlorophyll 2011-2017
Volunteer-DEQ Results Comparison, Side-by-Side Sampling (n=45)



V. Thank you, CLMP Volunteers!

<u>Lake Name</u>	<u>County</u>	<u>Volunteers</u>
Africa (Big)	Gogebic	Greg Wenzel
Africa (Little)	Gogebic	Greg Wenzel
Angelus	Oakland	Linda Daniels, Jan Burke, Lee Embrey Jr., Jacqueline Dauw, Steve Presby
Ann	Benzie	David Maxson, Sven Anderson
Antoine	Dickinson	Connie Jayne
Arcadia	Manistee	Donald Oswell
Arbutus	Grand Traverse	Robert Johnson
Arnold	Clare	John Hause, Donald Ferguson
Avery	Montmorency	Lyle Dodson, Joyce Dodson
Bar (South)	Leelanau	John Peterson, John Collins
Barlow	Barry	Michael Cunningham, Barbara Cunningham
Barton	Kalamazoo	Mark Mitchell
Baseline	Washtenaw	Jon Waitz, Craig Kivi, Jim Collins, Jim Meyer, Diane Tryon, Judy Forman
Bear	Kalkaska	Sue Boss, Mike Boss
Bear	Manistee	Chuck Wolverton, Wm. Fronk, James Koning
Beaver	Alpena	Jeff Meyer Sr., Jeff Meyer Jr.
Bellaire	Antrim	Duane Drake, John Kreag, Kathleen Anne Petersen, Arthur Hoadley
Big	Gogebic	Greg Wenzel
Big Blue	Kalkaska	Neil Barr, Bob Barr
Bills	Newaygo	Ed Waits
Birch	Cass	Paul Fallon, Terry Dugan
Blue	Mecosta	David Lewis, Jay Benivegna, Al McNamara
Blue (Chancellor)	Mason	Howard Wandell
Blue (North)	Kalkaska	Jack Walls, Mary Shaw
Bostwick	Kent	Julie Lovelace
Bradford (Big)	Otsego/Crawford	Gary Johnson
Brevoort	Mackinac	Arthur Bombrys

<u>Lake Name</u>	<u>County</u>	<u>Volunteers</u>
Bristol	Barry	Ric Rentfro, Dena Rentfro
Brooks	Leelanau	Calvin Killen, Bill Meserve
Browns	Jackson	Linda Hass, Ed Hass
Buck	Iron	Chad Reed, David Morton
Byram	Genesee	Bob Hutchings
Camp	Iron	Gale Cerney
Carney	Dickinson	Lindsay Peterson, Butch Hiatt
Cedar	Alcona/Iosco	Gary Cross, Ron Henning
Cedar	Van Buren	Dave Mason
Center	Osceola	Harris John Iler, Joanne Iler
Chain	Iosco	Jean Roth, Jim Roth, Mike Gearin, Barb Gearin
Chemung	Livingston	Virginia Himich, John (Red) Warner
Chicagon	Iron	William Rossi
Chippewa	Mecosta	Bryan Roels
Christiana (PJC)	Cass	Doug Hansen, Chuck Goll, Olivia Hansen, Carli Hansen
Cisco	Gogebic	Greg Wenzel, Bob McGuffin, Tom Krautkramer, Jack Erhart, Jessica Ryden, Jay Sweeny
Clam (Three Lk. Asn.)	Antrim	Duane Drake, Art Hoadley
Clark	Jackson	Carolyn Zader
Clear	Ogemaw	David Ball
Clear	Jackson	Allen Dyer, Cheryl Dyer, Wally Alexander
Clearwater	Gogebic	Greg Wenzel
Clifford	Montcalm	Larry Deuel
Cobb	Barry	Jeff Ulin
Cool	Lake	David Jones
Corey	St. Joseph	Mary Sue Pollitt, Ralph Vogel
Cranberry	Oakland	Ronald Heady, Rita Heady
Crockery	Ottawa	Pat Wolters, Dennis Arms, Robert Blauwkamp
Crooked	Kalkaska	Bob Barr, Daryl Allison-Busch

<u>Lake Name</u>	<u>County</u>	<u>Volunteers</u>
Crooked (Upper)	Barry	Michael Mutschler, John Hoek
Crystal	Benzie	John Ransom
Crystal	Montcalm	Bonnie Kanitz, Kim Morgan
Crystal	Gogebic	Yvonne Stone
Crystal	Washtenaw	Joe Evans
Cub	Kalkaska	Bonnie Isaacs
Deer	Alger	Char McDonnell, Gerald Gerou, Ron Rausch, Kay Gerou
Deer	Oakland	Ken Gill, Rob Namowicz, Rick Rumstead, Fred Daris, Sharon Hurlbert
Derby	Montcalm	Ron Reid, Steve Ploehn
Devils (Lk. Pres)	Lenawee	Cheryl Zuelke, John Zuelke
Diamond	Cass	Robert Clark, Terry Gerber, Gary Gries, Fred Dean
Diane	Hillsdale	Arda Bucher, Wm. Smith
Dinner	Gogebic	Patricia Wendt
Dorner	Manistee	Kayla Knoll
Duck	Calhoun	Nanette Hibler
Duck	Muskegon	Dr. Thomas Tissue
Duck (North)	Gogebic	Ursula Charaf, Cheryl Pytlarz, William Charaf
Duck (South)	Gogebic	Ursula Charaf, Cheryl Pytlarz, William Charaf
Duncan	Barry	Dennis LaFave
Eagle	Cass	Lori Mroczek, Michael Dombrowski, Brigid Forlenza, Charlie Bushkill
Eagle	Allegan	Cary Hamann
Eagle	Kalkaska	Jane Patterson
Earl	Livingston	John Hartsig, John DiGiovanni, Michael Borys, James Gonzalez
East Bay	Gogebic	Greg Wenzel
Elbow	Lake	Kayla Knoll
Ellen	Iron	Michael Finney, William Fleming, Lynn Fleming
Emerald	Kent	Mike Devarenne
Emerald	Newaygo	Rich Meeuwenberg
Emily	Iron	Fred Hauser

<u>Lake Name</u>	<u>County</u>	<u>Volunteers</u>
Evans	Lenawee	James Feudi
Farwell	Jackson	Mark Little, Jan Omo, Lynda Little
Fenton	Genesee	Richard Brown
Fern	Grand Traverse	Treenen Sturman, Kristina Weidenfeller
Fish	Van Buren	Connie Selles, Joe Czuk
Fisher's (Big)	Leelanau	Calvin Killen, Andy DuPont
Fisher's	St. Joseph	Eric Shafer, Georgina Shafer
Fish Hawk	Gogebic	Greg Wenzel
Fortune (First)	Iron	Steve Peterman, Craig Nelson
Fortune (Second)	Iron	Steve Peterman, Craig Nelson
Fremont	Newaygo	Todd Blake
George	Clare	Dennis Zimmerman, Joe Rentz
Glacier	Washtenaw	Joe Evans
Glen	Leelanau	Calvin Killen, Mike Litch, Bruce Litchliter, John Lund, Barbara Lund, William Meserve
Glen (Little)	Leelanau	Calvin Killen, Barb Lund, John Lund
Gogebic (North)	Ontonogan	Mark Gregory, Kent McDonough
Gogebic (South)	Ontonogan	Mark Gregory, Kent McDonough
Golden	Iron	Dean Pelkey, David Ukleja, Lynn Ukleja
Gratiot	Keweenaw	Bonnie Hay, Dorothy Jamison, Jim Hay
Gravel	Van Buren	Greg Garrett
Gull	Kalamazoo/Barry	Mike Gallagher, Ed McCarty
Hagerman	Iron	Mike Bukovitz
Hamlin - Lower	Mason	Bruce Pelletier, Lynn Hoepfinger
Hamlin - Upper	Mason	Bruce Pelletier, Lynn Hoepfinger
Hamilton	Dickinson	Martin Straka
Hannah Webb	Iron	Sara Basso, Ronald Basso
Hawk	Oakland	Doris Loomans
Herring (Lower)	Benzie	Mark Smith

<u>Lake Name</u>	<u>County</u>	<u>Volunteers</u>
Herring (Upper)	Benzie	Bill Henning, Dave Long
Hicks	Osceola	Nancy Beckwith
Higgins (North Basin)	Roscommon	R.J. Bolzman, Rick Meeks
Higgins (South Basin)	Roscommon	R.J. Bolzman, Rick Meeks
High	Kent	Robert Schirado
Hoags	Mason	Kayla Knoll
Horsehead	Mecosta	Bob Forche, Fred Kuebler
Hubbard	Alcona	Chuck VanGorden
Hunter	Gladwin	Kathryn Houghton
Independence	Marquette	Alexandra Maxwell, Rochelle Dale
Indian	Kalamazoo	John Wilks, Tom Kowalski, Jeff Schimp, Mike Gildea
Indian	Kalkaska	Cindy McCulloch
Indian	Osceola	Andy Tomaszewski, Bill Tomaszewski
Indian	Gogebic	Greg Wenzel
Isabella	Isabella	Michael Scherba, George King, Gary Clark
Island	Grand Traverse	John Mater
Island (Little)	Iosco	Karl Jacob
Jordan	Barry	David Fillion
Juno	Cass	Doug Hansen, Chuck Goll, Olivia Hansen, Carli Hansen
Klinger	St. Joseph	Michael Needham
Lake of the Woods	Manistee	Kayla Knoll
Lakeville	Oakland	Jeff Banaszynski
Lancer	Gladwin	Tim Stegeman, Jac Groppuso
Lancelot	Gladwin	Tim Stegeman, Robert Heydenburg, Jac Groppuso
Langford	Gogebic	James Donlan
Leelanau (North)	Leelanau	John Lutchko, Wayne Wunderlich
Leelanau (South)	Leelanau	John Lutchko, Wayne Swallow
Lindsley	Gogebic	Greg Wenzel
List	Lake	Kayla Knoll

<u>Lake Name</u>	<u>County</u>	<u>Volunteers</u>
Little Long	Barry/Kalamazoo	Susan Houseman, John Etcorn
Loon	Iosco	Patsy Mortimer, Jim Mortimer, Jennifer Karas
Long	Iosco	Wes Durbin, Janet Durbin
Long	Gogebic	Arnold Domanus Jr.
Louise	Dickinson	Martin Straka
Lotus	Oakland	Marilyn Merit, Rick Sotolongo, Al Jacobson, Robin Erkfritz, Heidi Nettler, Brent Gatecliff
Maceday	Oakland	Marilyn Merit, Rick Sotolongo, Al Jacobson, Robin Erkfritz, Heidi Nettler, Brent Gatecliff
Maggie (Big)	Iron	Robert Willing, John Waclawski
Maggie (West)	Iron	Robert Willing, Judith Briggs
Magician	Cass	Dick Morey, Darlene Morey
Mamie	Gogebic	Greg Wenzel
Manitou	Shiawassee	Fred Farkas, Charlie Jones, Russ Friess
Margrethe	Crawford	Joe Porter, Sandra Michalik
Marion	Gogebic	Tony Zoars
Mary	Dickinson	Martin Straka
Mary	Iron	Paul Dalpra, Emil Kezerle
Maston	Kent	Jon Wilford, Susan White, Fred Jensen, Jerry Bukoski
Middle Straits	Oakland	Jacob Calkins
Moon	Gogebic	Dale Sharpee, Tom Wheeler, Robert Turnquist
Morley	Gogebic	Greg Wenzel
Murray	Kent	Alan Rumbaugh, Tom Donaldson, Mark Bradburn
Muskellunge	Kent	Jon Wilford, Jerry Bukoski, Frederick Jensen, Susan White
Muskellunge	Montcalm	Jack Freyling
Nepessing	Lapeer	Robert VanDenBrouck, Lonnie Loveland
North	Washtenaw	Richard Frenndt, Charlie Taylor, Paul Lammers, Dave Pruess
Opal	Otsego	Bob Baroni
Ore	Livingston	Kurt Richardson, Georgia Richardson, Carol Richardson

<u>Lake Name</u>	<u>County</u>	<u>Volunteers</u>
Orion	Oakland	George Hanley, Gerald Richards
Osterhout	Allegan	Chuck Pugh, Judith Pugh
Ottawa	Iron	Mike Bukovitz
Owasippe	Muskegon	Steven Pierce, Bob Tuttle, Susie Williams, Jim Bolger
Oxbow	Oakland	Richard Walklet
Painter (PJC Lk. Asn)	Cass	Doug Hansen, Chuck Goll, Olivia Hansen, Carli Hansen
Papoose	Kalkaska	Eldonna May
Park	Clinton	Nola Parkey, Donald Parkey, Daniel Hayes, J.B. McCombs
Payne	Barry	Linda Davis, John TenCate
Paw Paw (Little)	Berrien	Patricia Nelson
Pentwater	Oceana	Joe Primozich, Bill Bainton, Thomas Osborn
Perch	Iron	James Novitski, Mike O'Brien
Perch	Otsego	Mary Bremigan, Bob Peckham, Jeff Kempfer
Perrin	St. Joseph	Stan Grove, Matthew Ropp, Christine Oswald, Cheryl Mast
Pickerel	Kalkaska	Paul Curell
Pine	Manistee	Kayla Knoll
Pine Island (Big)	Kent	Cristal Belk, Andrew Belk, Scott DeMeyer, Dan Bailey, Doug Medema
Platt (Big)	Benzie	Maris Ziemelis
Pleasant	Wexford	Bill Miner, Charlie Spoering, Roger Hopkins
Pleasant	Washtenaw	Lon Nordeen
Pontiac	Oakland	Bodo Lux, Henry Buerd, Tammy Miller
Poor	Gogebic	Greg Wenzel
Portage	St. Joseph	Carolyn Grace, Carol Higgins
Portage	Liv/Wash	Jim Collins
Portage (Little)	Liv/Wash	Jon Waitz, Craig Kivi
Posey	Lenawee	Terry Mohler
Pretty	Mecosta	John Maharg
Puterbaugh	Cass	George Purlee
Ranger	Otsego	Curt Horvath, Ann Marie Horvath

<u>Lake Name</u>	<u>County</u>	<u>Volunteers</u>
Record	Gogebic	Greg Wenzel
Rennie	Grand Traverse	Susan LaRose-Grover
Rifle	Ogemaw	Jim Kelts
Robinson	Iron	Karen Ivens
Roger's Pond	Mecosta	Dan Woods, Lisa Woods
Round	Mecosta	David Lewis, Jay Benivegna, Al McNamara
Round (Lks. Pres.)	Lenawee	Joel Johnson, Cheryl Zuelka
Ryerson	Newaygo	Kaleigh Dolan
Sand	Manistee	Kayla Knoll
Sanford	Midland	Adam Beebe
Sanford	Benzie	Dennis Curtice
Sawyer	Dickinson	Mike Alexa
School Section	Mecosta	Don Swanson
Scram	Kent	Randy Kaja
Shavehead	Cass	Jack Delee, Jeff Downing, Steve Cramer
Shingle	Clare	Dennis Zimmerman
Silver (Green Oak)	Livingston	Dale French
Silver	Van Buren	Ronald Kreiger, Ted Gatto
Smoky Little	Iron	Jeff Kinner
Spider	Grand Traverse	Bob Akins, Darrin Wassom
Stager	Iron	Thomas Madden, Sylvia Madden
Stanley	Iron	John Reed, Angie Stine
Star (Big)	Lake	Bernard Woltjer
Starvation	Kalkaska	Jesse Roeck
Stony	Oceana	John Stivers, Thomas Best, Jim Mitteer
Stoneledge	Wexford	Mark Lynes
Straits (Upper)	Oakland	Douglas Cooper, Jim Cherfoli, Paul Gluski, Bob Haase
Squaw	Kalkaska	Mitchell LeClaire
Sunset	Iron	Yvonne Andersen

<u>Lake Name</u>	<u>County</u>	<u>Volunteers</u>
Swan	Iron	Tom Ollila
Sylvan	Newaygo	Rich Meeuwenberg
Tahoe (formerly Schmidt Lk.)	Oceana	Hope Bradley, Jim Bradley
Tamarack	Livingston	Craig Kivi, Jon Waitz
Taylor	Oakland	Chuck Pilar
Three Mile Lake	Van Buren	Michael Versalle
Thousand Island	Gogebic	Greg Wenzel
Timmerman	Manistee	Kayla Knoll
Torch (North)	Antrim	Duane Drake, Becky Norris, Paul Roush
Torch (South)	Antrim	Duane Drake, Christian Stoldt
East Twin	Montmorency	John Jackson, Michael Dombrowski
West Twin	Montmorency	Ronald Compton
Twin (Big)	Kalkaska	Marv Kingsley, Robert Barr
Twin (Little)	Kalkaska	Ellen Whitehead, Dave Whitehead
Van Etten	Iosco	Daniel Stock, Joe Plunkey, Doug Jager, Lee Mertz
Vineyard	Jackson	Roger Gaede
Viking	Otsego	Kent Murray
Wall	Barry	Adam Freid
West	Kalamazoo	Sarah Lee
West Bay	Gogebic	Greg Wenzel
White	Oakland	Sean Whelan, Erin Whelan
White (West)	Muskegon	Thomas Tisue, Dave Hays, Dave Ridders
White (East)	Muskegon	Thomas Tisue, Dave Hays, Dave Ridders
Whitewood	Washtenaw	Diane Tryon, Jon Waitz
Windover	Clare	Edwin Novak Jr., Rosemary LaPresti
Winslow	Iron	J. Mark Klink
Wolf	Lake	Don Klobucar, Gretchen Klobucar
Woods	Kalamazoo	Frank Wolf, Heidi Berven, Steve Clark

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.

Beth Anderson
James Caron
Kristina Coffey
Debra Frazier
Greg Goudy
Martin Hedges
Sonya Hudson
Nicole McIntyre
Deana Mercs
Amanda Nelson
Deana North
Lindsay Peterson
Jeff Pytlarz
Lucy Robinson
Jean Roth
Crystal Smith

VIII. CLMP Contacts

Questions about enrollment or monitoring equipment:

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Questions about aquatic plants or sample turn-in for any parameter:

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Michigan State University
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Questions about Dissolved Oxygen/Temperature meters or side-by-side sampling:

Marcy Knoll Wilmes
Michigan DEQ
517-342-4348, knollM@michigan.gov

Questions about data entry or getting a login/password for the MiCorps Data Exchange:

Michele Leduc-Lapierre
Great Lakes Commission
734-971-9135, midata@glc.org

Questions about anything else:

Dr. Paul Steen
Huron River Watershed Council
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