

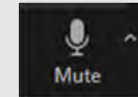
Instructions for Webinar Participation

Getting Started

- The webinar will begin at 11:00 AM.
- Audio is through your computer speakers or headset: **You may not hear sound until webinar begins.**
- Use the **Audio Settings** option to do a sound check.
- During the webinar if you do not hear audio, make sure your sound is turned on then contact the **Help Desk**.

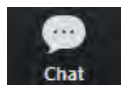
How to Ask Questions

1. Click on the Chat icon to type a question to the presenters, or
2. Click on the microphone to unmute yourself and speak.



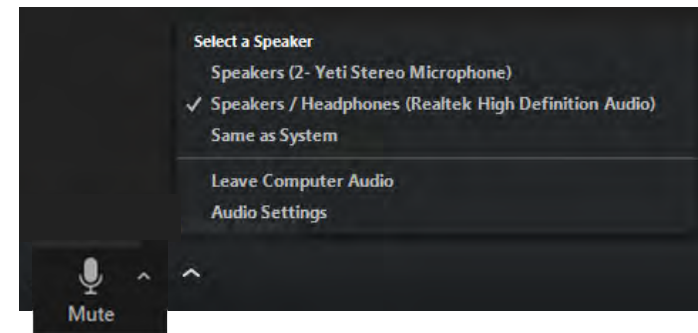
Help Desk

Call the Distance Learning Help Desk (800) 500-1554 for technical support.



Send
Message

Sound
Check





Michigan Clean
Water Corps



Cooperative Lakes Monitoring Program

2023 Summer Check-In

Summer Reminders



Ask your Assisting Volunteers to create an account

- Helps us keep track
- Need to sign waiver
- Volunteer recognition

Create your account

Username*

Please do not use your email address

Password*

Your CLMP Role

Role*

Please select an option...

Please select an option...

Lead Volunteer

Assisting Volunteer

An "Assisting Volunteer" assists the Lead Volunteer with CLMP lake monitoring activities. They do not enroll/pay for lakes or receive supplies directly from MiCorps.

Waiver

Waiver: All volunteers must sign a waiver each year.*

[View / Sign Waiver](#)



Assisting Volunteers: Make sure add your lake to your account

Step 1: Sign into your account

Step 2: Add your lake to your account



The screenshot displays the Michigan Clean Water Corps website interface. At the top, there is a navigation bar with the logo and menu items: About, Lake Monitoring, Stream Monitoring, Data Exchange, and Resources. A search bar is located in the top right corner.

The main content area is titled "Sign in to your MiCorps account". It features a login form with fields for "Username" and "Password", and a "Submit" button. Below the form are two links: "Don't have an account? Register Here" and "Forgot your username or password?".

A light blue banner below the login form contains the text: "If you have an old data entry password for data entry into the MiCorps Data Exchange, it will not work here. Please Register Here."

The second part of the screenshot shows the "CLMP Lake Enrollment & Payment" page. The navigation bar is identical. The page title is "CLMP Lake Enrollment & Payment" with user options for "Profile", "Reports", and "Logout".

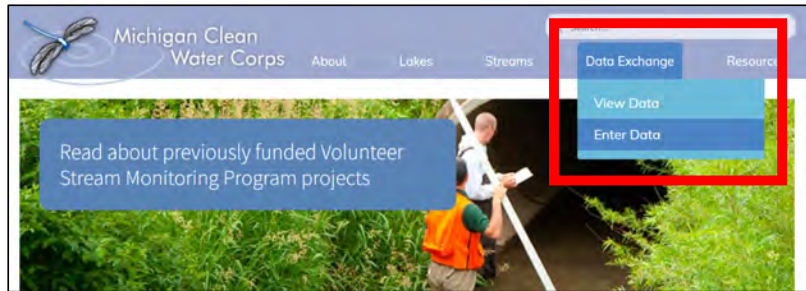
The main text on this page reads: "On this page, you can add the lake(s) you are helping to monitor to your account. The Lead Volunteer(s) will be notified that you have joined the monitoring team for your lake."

Below this text is a section titled "Add Your Lake(s) to Your Account" with a "Start Here" button. The text under this section says: "Here you can select the lake(s) you will monitor."

Further down is a section titled "Your 2023 Lake Enrollment" with a "View Your Lakes" button. The text under this section says: "Here Lead Volunteers can enroll and pay for selected parameters for each lake in their account."

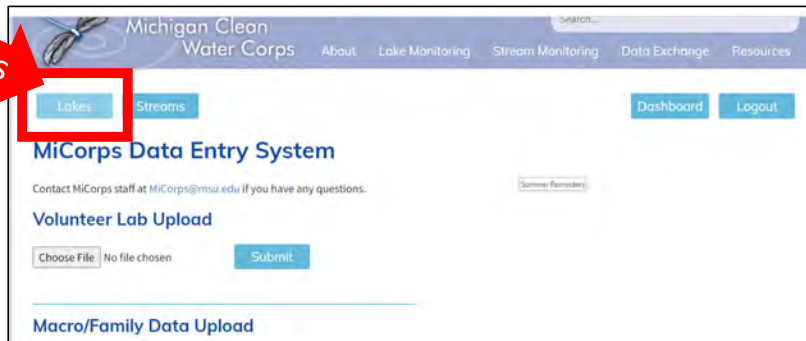
How to enter your data

Step 1



Click lakes

Step 2



Step 3

Click your lake



MiCorps Data Entry System

Contact MiCorps staff at MiCorps@msu.edu if you have any questions.

| Lake Site Information | |
|-------------------------|---------------------|
| Lake | Badger |
| STORETID | 010122 |
| Description | |
| Country | Alcona |
| Township | |
| Section | 0 |
| HUC/Watershed | 4070006 Thunder Bay |
| Latitude | 44.77750 |
| Longitude | -83.43750 |
| GPS Source | |
| Datum | NAD83/WGS84 |
| Collecting Organization | |
| Tier | |

Step 4

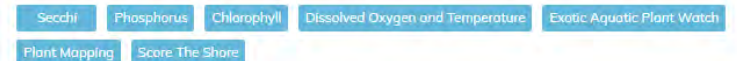
Tier 1 Data: Generated under MiCorps QAPP.

Tier 2 or 3 Data: Follow the Collecting Organization link (above) to view the QAPP or SOPs (monitoring protocols) that were utilized in the collection of this data.

More information on the Macro three-tiered data classification system is available [here](#)

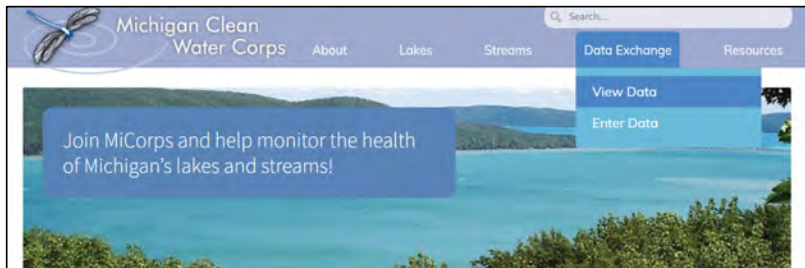
Enter a New Sample

Click a button to enter information from the corresponding data sheet. You will be given a chance to return to this page if you would like to enter more data.



How to check your data in our database

Step 1



MiCorps Data Exchange Network

The MiCorps web-based data exchange platform provides online access to volunteer monitoring data through a searchable database. Choose which water bodies you would like to search through and narrow down your search by county, hydrologic unit code (HUC) and/or water body name.

Search by Streams or Lakes

Streams

Lakes

Step 2

Narrow Your Search

County

HUC

Name

All

The left column contains items you can filter your search with. Click an item on the left to move it to the right column, which contains any items you've chosen to filter with. If you change your mind, click on an item in the right column to stop filtering with it. Multiple types of filters can be selected by clicking on each button above.

Type a word into the search box to only show items that contain that word.

badger

Badger

Date Range

From January 01 1970 to July 11 2023

Sampling Parameters

- Secchi Disk
- Phosphorus (Spring Overturn)
- Phosphorus (Late Summer)
- Chlorophyll
- Dissolved Oxygen/Temperature
- Aquatic Plants
- Exotic Plants
- Score The Shore

Data Tier

Data generated under different Quality Assurance Project Plans (QAPPs) belong to different tiers.

- Tier 1: The MiCorps QAPP
- Tier 2: Another acceptable QAPP
- Tier 3: No QAPP, but acceptable Standard Operating Procedures

Step 3

View Results

Download in Excel

How to check your data

MiCorps Data Exchange Search Results [Download in Excel](#) [New Search](#)

Searched by name: Badger Page 1 of 1

From: January, 01 1970 to July, 11 2023 5, 10, 25 sites per page

Sort by: **County** • Watershed

| County HUC and Watershed | Lake Name | STORETID |
|-------------------------------------|---------------|---------------|
| Alcona 4070006Thunder Bay | Badger | 010122 |

Secchi

| Date | Time | Depth | Weather | |
|------------------------------|----------|-------|---------------|----------------------------|
| Jan 1, 2018 | 04:21:00 | 5 ft | Sunny | View Graph |
| Sep 15, 2010 | 15:00:00 | 13 ft | Sunny | View Graph |
| Sep 1, 2010 | 10:45:00 | 12 ft | Sunny, Windy | View Graph |
| Aug 15, 2010 | 10:45:00 | 11 ft | Cloudy, Windy | View Graph |
| Aug 4, 2010 | 09:00:00 | 12 ft | Sunny | View Graph |

Step 4

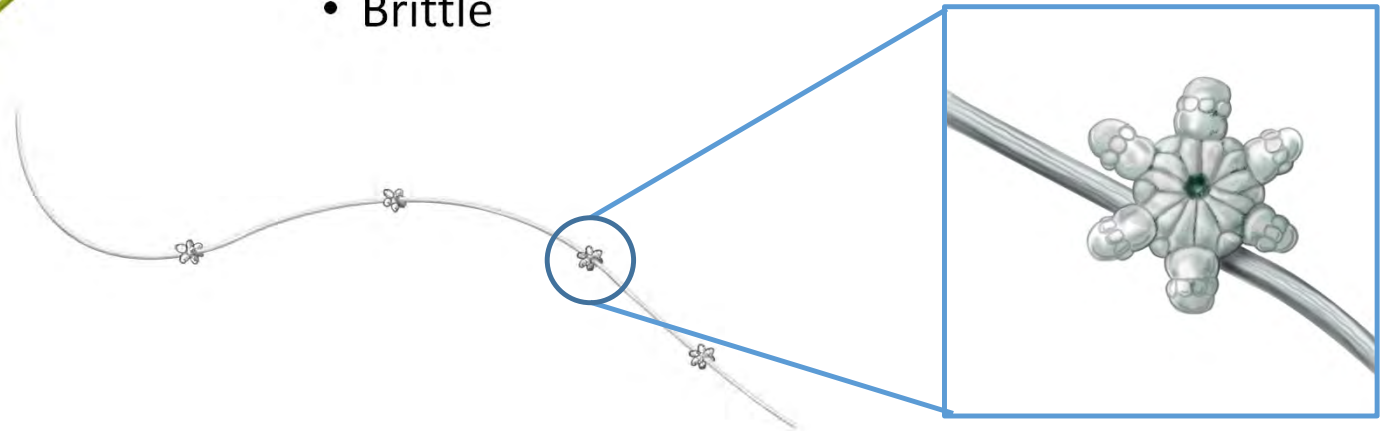
Enroll all summer in EAPW and Score the Shore

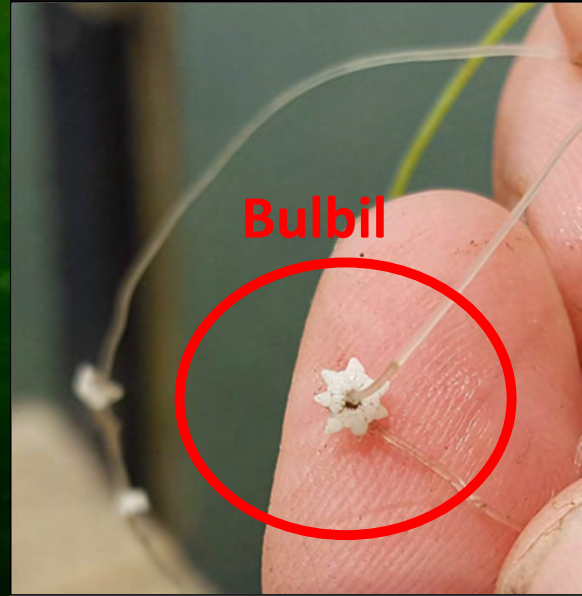


EAPW Watch List Species

Starry stonewort – *Nitellopsis obtusa*

- Tiny star-shaped, tan or white **bulbils** produced on rhizoids (clear filaments)
- Long, **uneven** length branchlets
- Smooth stem
- Brittle





Scott Brown

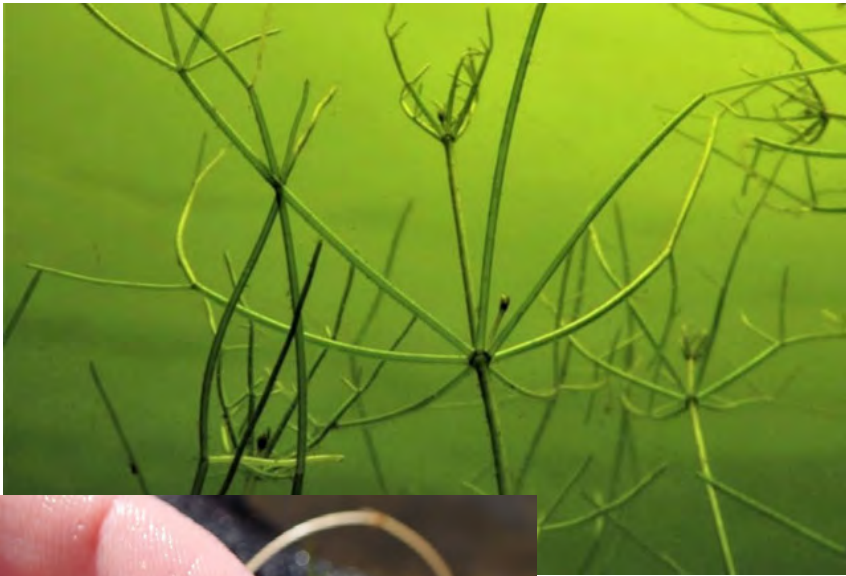
Starry Look-a-like: Native Muskgrass (*Chara*)

- Macroalgae
- **No star bulbils**
- “Smells skunky”
- **Shorter ‘branching’** (i.e. reach) of the plant compared to Starry
- Rough feel



Which one is Starry stonewort?

A



B



Summer Sampling Schedule

- Summer sampling dates for total **phosphorus** and the final **chlorophyll** sample are different depending on your county
 - Note new location for Gaylord
- Check out the Summer schedules on the MiCorps.net



SUMMER PHOSPHORUS 2023 Sample Collection and Turn-in Schedule



| COUNTY | TURN-IN ADDRESS (EGLE unless noted otherwise) | SAMPLING DATES | TURN-IN DATES |
|---|---|----------------|---------------------------|
| Allegan, Kalamazoo, Barry, Van Buren, Berrien, Cass, St. Joseph | EGLE Kalamazoo District Office 7953 Adobe Road Kalamazoo, MI 48909 Deana Mercs: 269-330-8571 | Sept 21-25 | 8 am-Noon September 26 |
| Calhoun, Jackson, Washtenaw, Branch, Hillsdale, Lenawee | EGLE Jackson District Office 301 E. Louis B. Glick Hwy. Jackson, MI 49201 Kathy David: 517-257-0251 | Sept 21-25 | 8 am-Noon September 26 |
| St. Clair, Macomb, Oakland, Wayne, Monroe | EGLE Warren District Office 27700 Donald Court Warren, MI 48092 Jack Cotrone: 248-763-1994 | Sept 21-25 | 8 am-Noon September 26 |
| Ottawa, Kent, Montcalm, Ionia, Muskegon, Oceana, Newaygo, Mecosta | EGLE Grand Rapids District Office 350 Ottawa St. NW, Unit 10, 5th Floor Grand Rapids, MI 49503 Lucy Robinson or Mercedes Alvarado: 616-250-7915 | Sept 14-18 | 8 am-Noon September 19 |



CHLOROPHYLL 2023 Sampling Dates & Sample turn-in dates & locations



| COUNTY | TURN-IN ADDRESS (EGLE unless noted otherwise) | SAMPLING DATES | TURN-IN DATES |
|---|--|----------------------|---------------------------|
| Allegan, Kalamazoo, Barry, Van Buren, Berrien, Cass, St. Joseph | EGLE Kalamazoo District Office 7953 Adobe Road Kalamazoo, MI 48909 Deana Mercs: 269-330-8571 | Sample #1 May 10-20 | 8 am-Noon June 27 |
| | | Sample #2 June 10-20 | 8 am-Noon September 26 |
| | | Sample #3 July 10-20 | 8 am-Noon September 26 |
| | | Sample #4 Aug 10-20 | 8 am-Noon September 26 |
| | | Sample #5 Sept 22-26 | 8 am-Noon September 26 |
| Calhoun, Jackson, Washtenaw, Branch, Hillsdale, Lenawee | EGLE Jackson District Office 301 E. Louis B. Glick Hwy. Jackson, MI 49201 Kathy David: 517-257-0251 | Sample #1 May 10-20 | 8 am-Noon June 27 |
| | | Sample #2 June 10-20 | 8 am-Noon September 26 |
| | | Sample #3 July 10-20 | 8 am-Noon September 26 |
| | | Sample #4 Aug 10-20 | 8 am-Noon September 26 |
| | | Sample #5 Sept 22-26 | 8 am-Noon September 26 |
| St. Clair, Macomb, Oakland, Wayne, Monroe | EGLE Warren District Office 27700 Donald Court Warren, MI 48092 Jack Cotrone: 248-763-1994 | Sample #1 May 10-20 | 8 am-Noon June 27 |
| | | Sample #2 June 10-20 | 8 am-Noon September 26 |
| | | Sample #3 July 10-20 | 8 am-Noon September 26 |
| | | Sample #4 Aug 10-20 | 8 am-Noon September 26 |
| | | Sample #5 Sept 22-26 | 8 am-Noon September 26 |

Summer Sampling Schedule

Michigan Clean Water Corps

About Lakes Streams Data Exchange Resources

Search...

Read about previously funded Volunteer Stream Monitoring Program projects

Become a Volunteer
CLMP Documents
Annual Summary Reports
Individual Lake Reports
2021 Lake Training

The Michigan Clean Water Corps (MiCorps) is a network of volunteer water quality monitoring programs in Michigan. It was created through Michigan Executive Order #2003-15 to assist the Department of Environment, Great Lakes, and Energy (EGLE) in collecting and sharing water quality data for use in water resources management and protection programs. About MiCorps.

Have questions? Ask MiCorps Staff!

News and Blog

Register for our Virtual CLMP Midsummer Check-in Today!
You are invited to our virtual midsummer check-in. The purpose of this Zoom event is to provide

Connect With Us

We're interested in learning about new volunteer efforts, resources, and events

Michigan Clean Water Corps

About Lakes Streams Data Exchange Resources

Search...

CLMP Documents

This page includes all of the documentation and forms that volunteers in the Cooperative Lakes Monitoring Program (CLMP) need to complete their sampling, including sampling procedures, sample turn-in schedules and locations, good sampling reminders, and data forms.

Program Documents

- CLMP Manual- Contains background information and all parameter procedures.
- CLMP Lake Sampling Site (Field ID) Number List (last updated March 2021)
- 2022 Spring Phosphorus Sampling Schedule
- 2022 Summer Phosphorus
- 2022 Chlorophyll Sampling Schedule
- CLMP Refund Policy
- Annual CLMP Summary Reports
- Individual Lake Data Reports
- Fact Sheet: Decontamination of Field Equipment

Inside this section:

- Become a Volunteer
- CLMP Documents
- 2022 Lake Training

Featured content

- Lake Data Reports
- Individual Lake Reports

Of related interest

- 2022 CLMP enrollment begins November 8

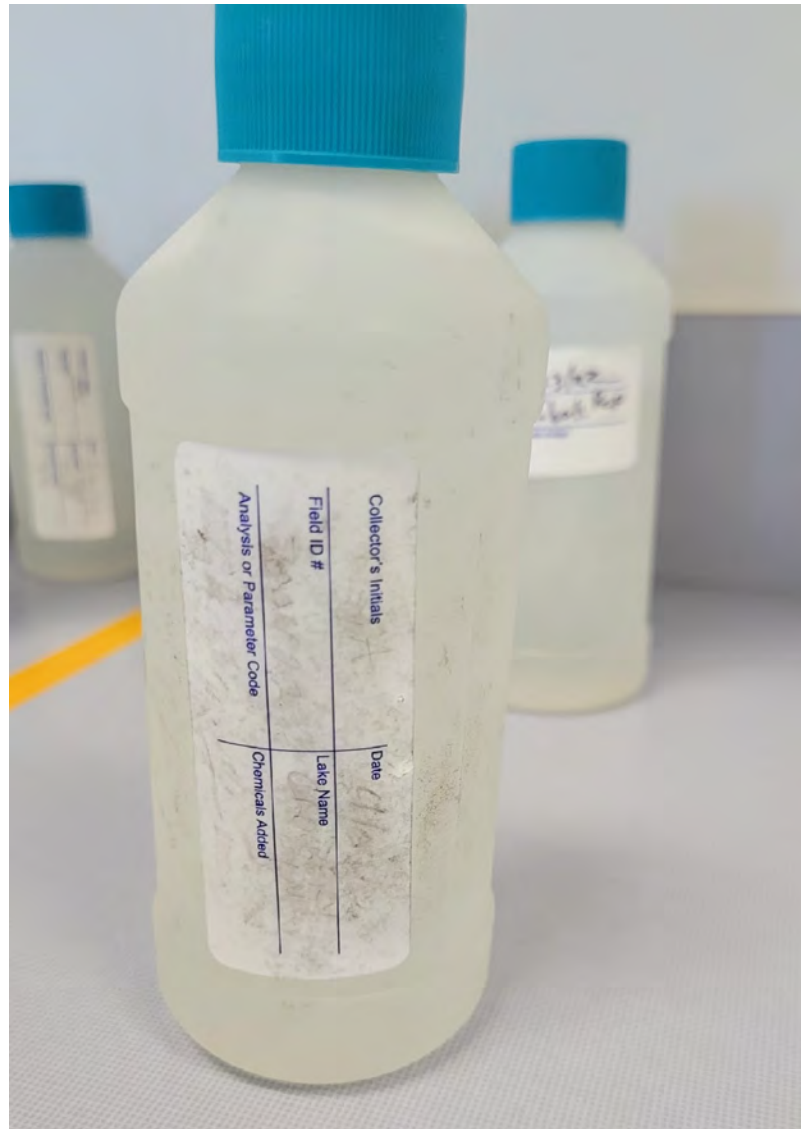
Sample Drop off between 8-Noon

- If the date and time does not work for you:
 - Reach out to your drop off location to see if you can drop them off early
- Feel free to coordinate with neighbor lakes for drop off
- You can always contact the CLMP Team to work logistics out

Keep your sample clean



Use a pencil
or waterproof
pen or marker



Chlorophyll: Slow down the Squeeze

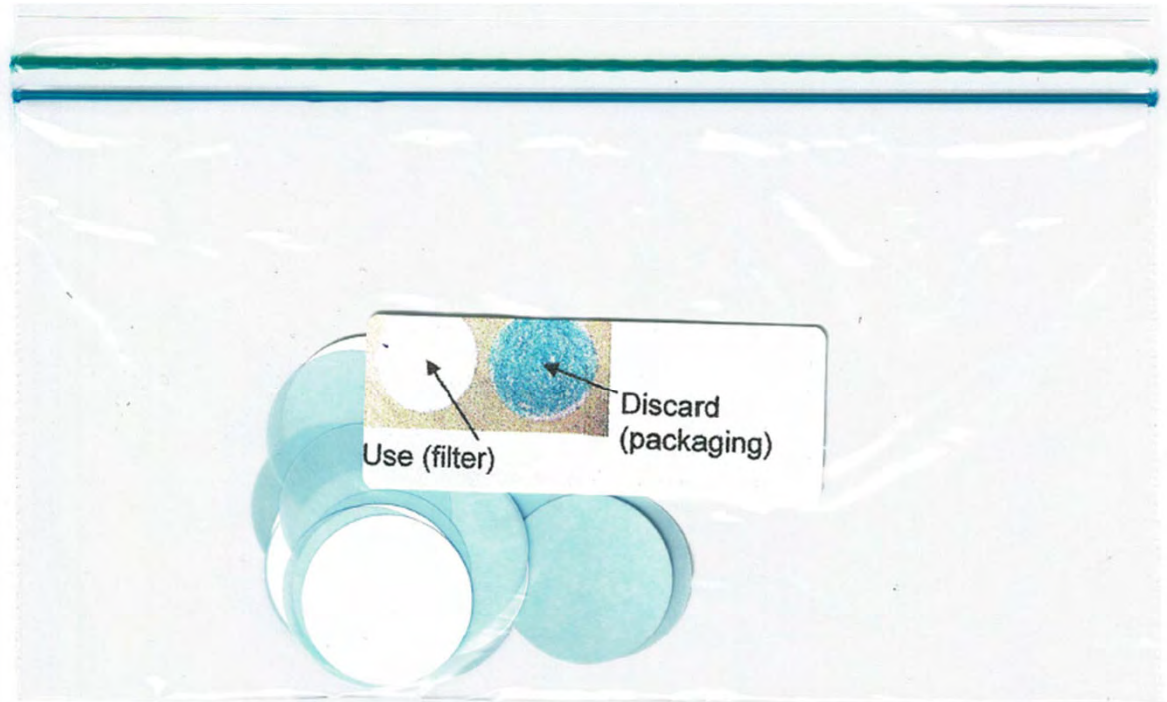


Chlorophyll Filters

Blue = BAD

Separator sheets look like tissue paper.

The good filters are solid white, “plastic” looking



Chlorophyll degrades when exposed to light
- Make sure to wrap your sample in foil



No need to wrap P
bottles in foil, though!



Data Forms

- Important to fill everything out
- Map is important for quality control

- ❖ In the box below, draw an outline of your lake (i.e. lake map). Or attach a copy of a lake map.
- ❖ On the lake map, mark your chlorophyll sampling location (this should be at the deepest location in your lake) and write the LAKE DEPTH at this location.
- ❖ Surface Area of Lake (if known): _____ (acres)



North
↑

DATA ENTRY

If you can, please enter your data into the MiCorps Data Exchange by October 31st.

DATA SHEET AND SAMPLE TURN IN

Please do the following:

- (1) Make a copy of your field data sheets to keep for your records,
- (2) Put **one copy** in a baggie to keep it dry and
- (3) Deliver the frozen chlorophyll samples together with the data sheet to the designated drop-off location on the designated turn-in dates (refer to chlorophyll schedule).

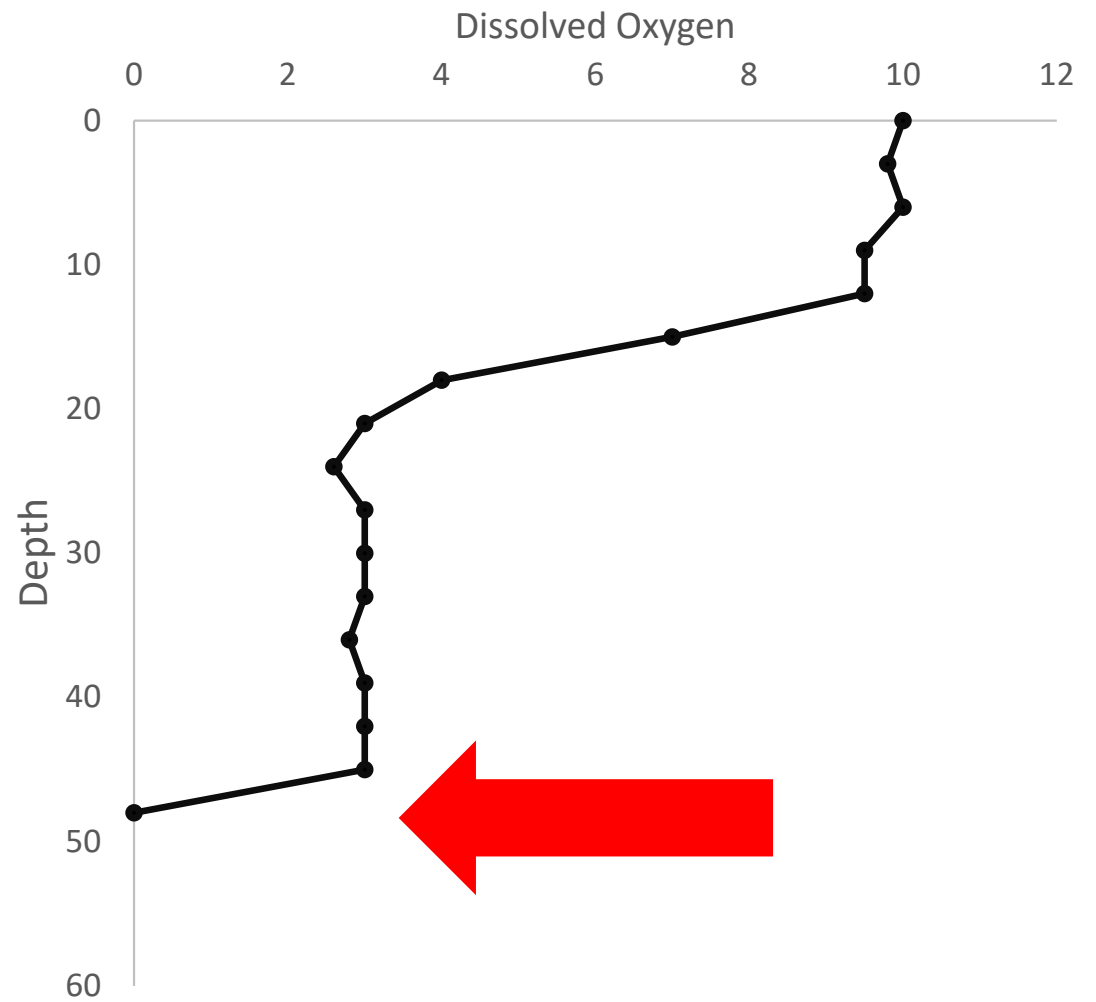
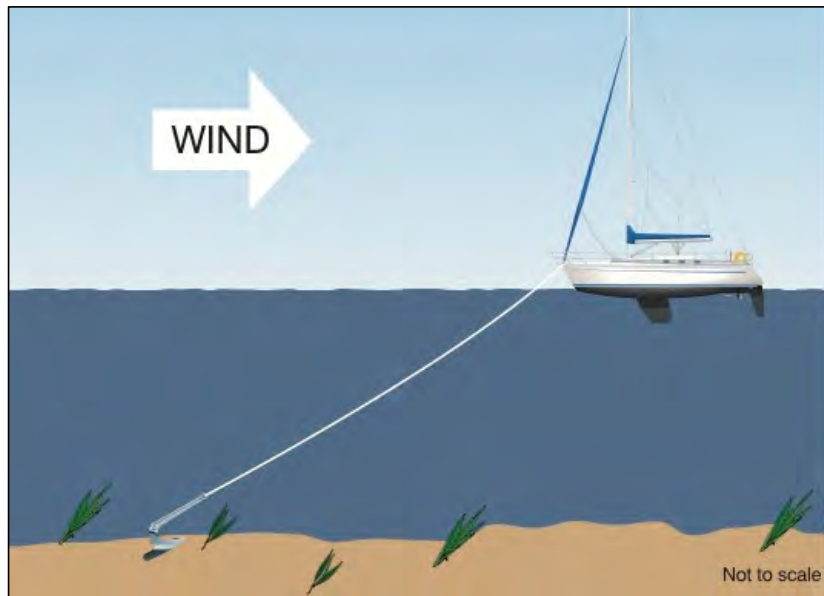


Dissolved Oxygen (DO) Reminders

- Turn on meters 15 minutes prior to calibrating
- Keep sponge in calibration chamber wet, but no standing water
- Make sure reading mg/L not % Saturation and in °C

Temperature and Dissolved Oxygen

- Watch for drift and bottom reading
- Anchoring is important
- Check depth before proceeding with measurements



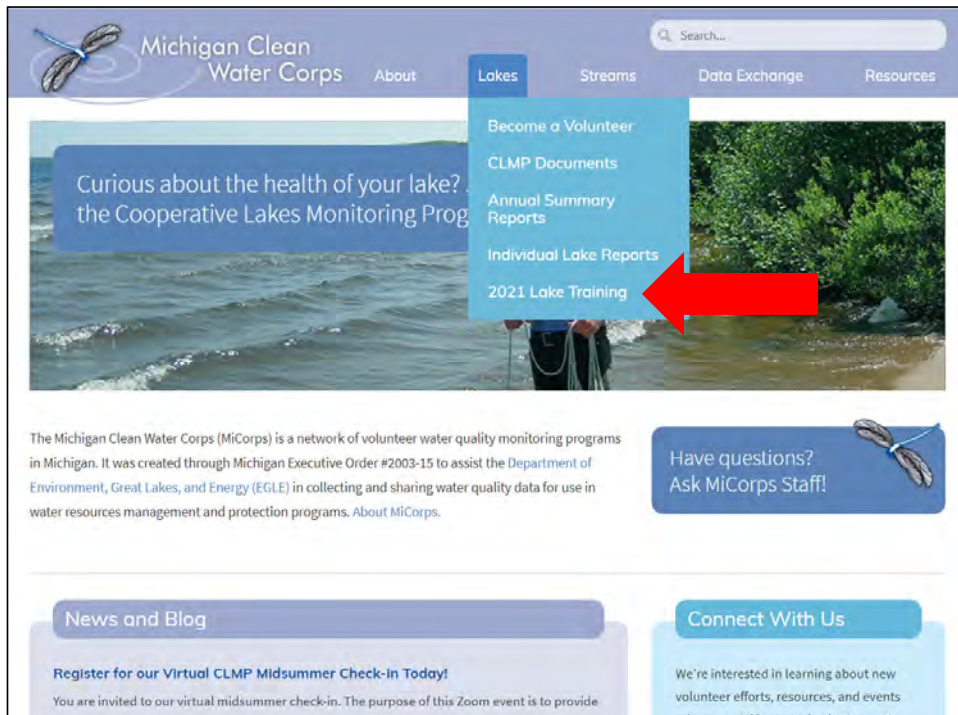
From where do you
measure Secchi?



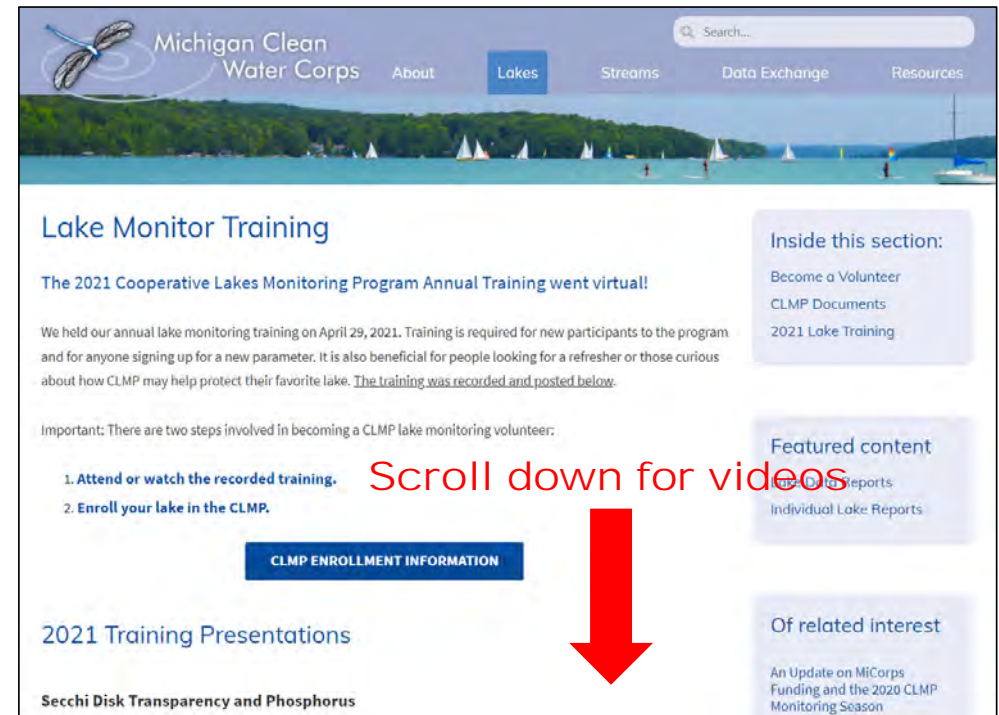
A: Top of the boat

B: Top of the water

Need a refresher? Training Videos



The screenshot shows the Michigan Clean Water Corps website home page. The navigation menu includes 'About', 'Lakes', 'Streams', 'Data Exchange', and 'Resources'. The 'Lakes' menu is open, showing options: 'Become a Volunteer', 'CLMP Documents', 'Annual Summary Reports', 'Individual Lake Reports', and '2021 Lake Training'. A red arrow points to the '2021 Lake Training' option. Below the navigation is a banner with the text 'Curious about the health of your lake? the Cooperative Lakes Monitoring Program'. Further down, there is a section titled 'The Michigan Clean Water Corps (MiCorps) is a network of volunteer water quality monitoring programs in Michigan...' and a button that says 'Have questions? Ask MiCorps Staff!'. At the bottom, there are sections for 'News and Blog' and 'Connect With Us'.



The screenshot shows the 'Lake Monitor Training' page on the Michigan Clean Water Corps website. The page title is 'Lake Monitor Training'. Below the title, it says 'The 2021 Cooperative Lakes Monitoring Program Annual Training went virtual!'. The main text reads: 'We held our annual lake monitoring training on April 29, 2021. Training is required for new participants to the program and for anyone signing up for a new parameter. It is also beneficial for people looking for a refresher or those curious about how CLMP may help protect their favorite lake. The training was recorded and posted below.' Below this, it states 'Important: There are two steps involved in becoming a CLMP lake monitoring volunteer:' followed by a numbered list: '1. Attend or watch the recorded training.' and '2. Enroll your lake in the CLMP.' A red arrow points to the first step with the text 'Scroll down for videos'. Below the list is a button labeled 'CLMP ENROLLMENT INFORMATION'. Further down, there is a section titled '2021 Training Presentations' with a sub-section 'Secchi Disk Transparency and Phosphorus'. On the right side of the page, there are three sidebar sections: 'Inside this section:' with links to 'Become a Volunteer', 'CLMP Documents', and '2021 Lake Training'; 'Featured content' with links to 'Annual Summary Reports' and 'Individual Lake Reports'; and 'Of related interest' with a link to 'An Update on MiCorps Funding and the 2020 CLMP Monitoring Season'.

Questions?

CLMP Contacts

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Jo Latimore - latimor1@msu.edu

Jean Roth - jean.roth@mymlsa.org

Tamara Lipsey - lipseyt@michigan.gov

Not sure who to ask?

MiCorps@msu.edu

