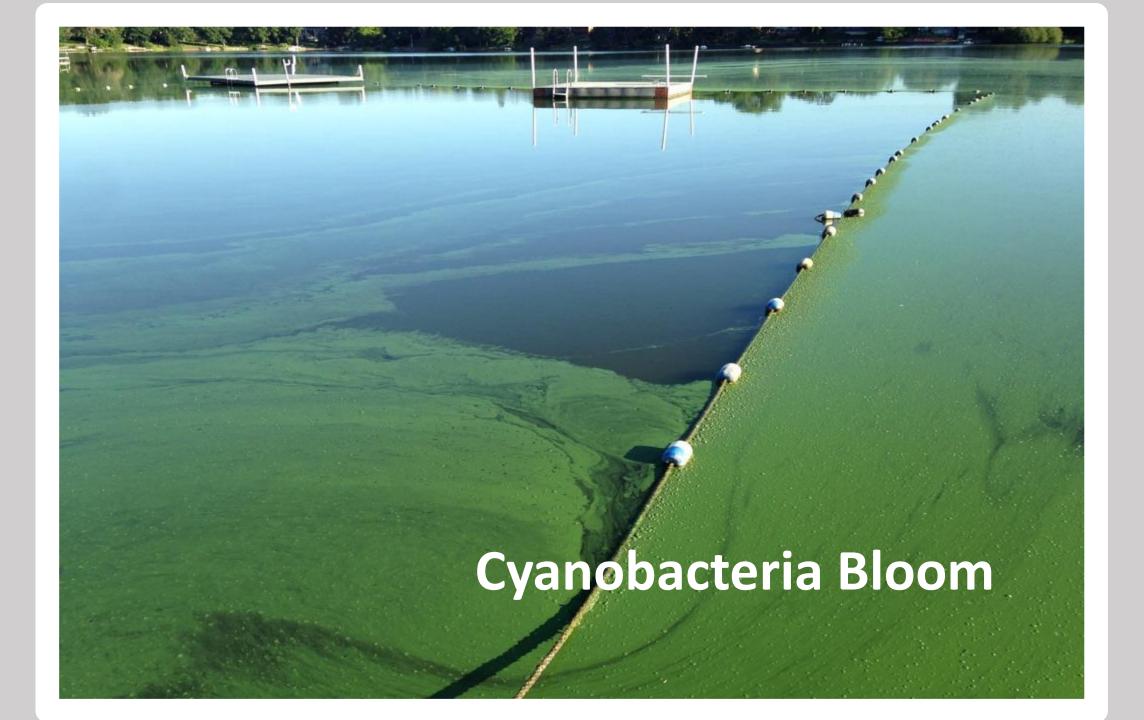


Reporting a Cyanobacteria Bloom

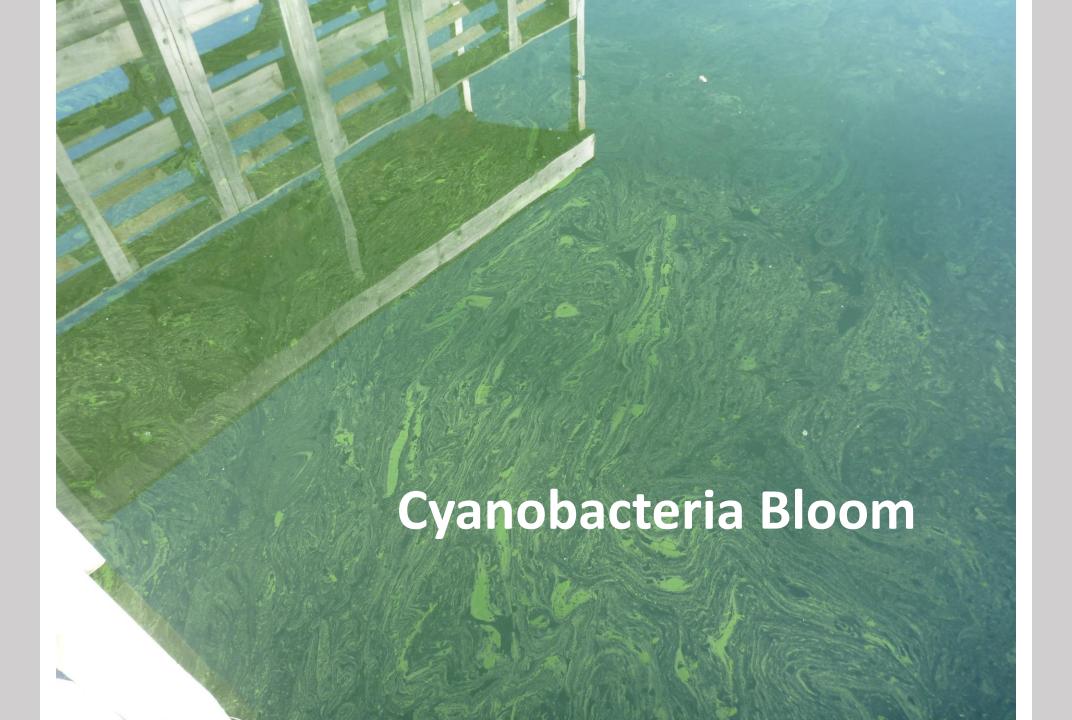
Teri Holland Illinois Environmental Protection Agency

teri.holland@Illinois.gov 217-782-3362









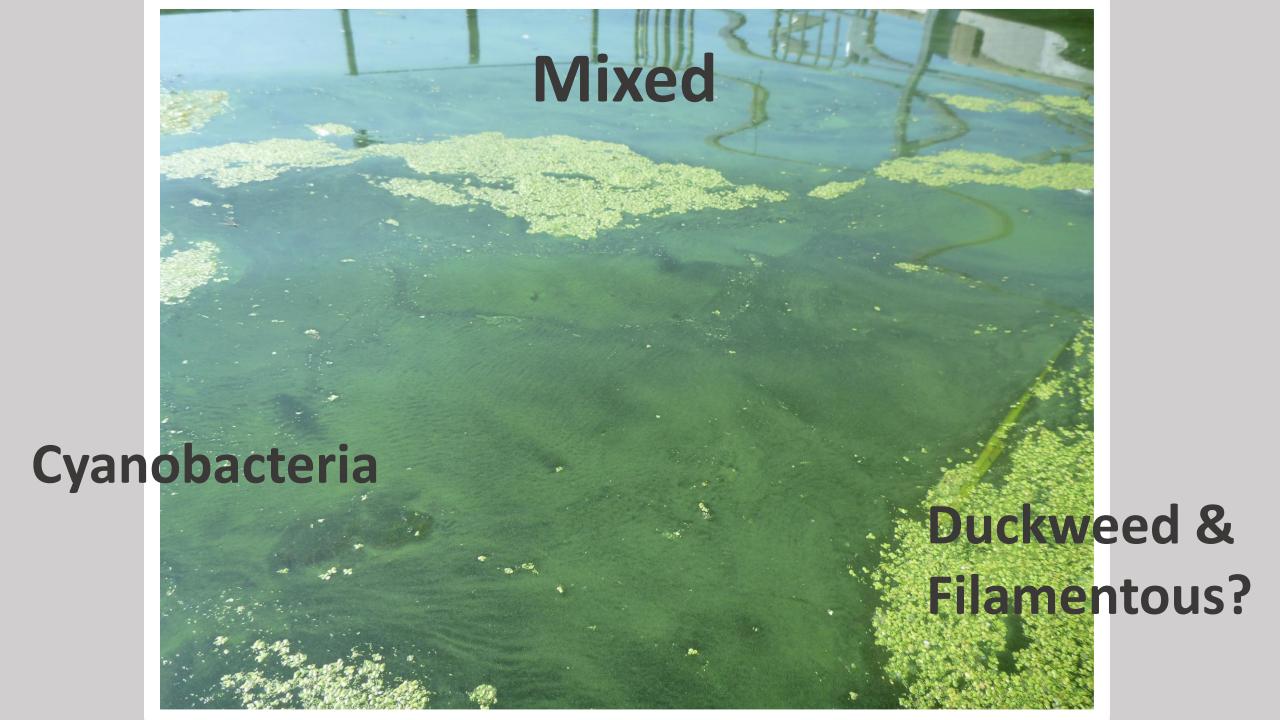




Duckweed







Why is it Important to Report a Cyanobacteria Bloom?

- ➤ Allow us (Agency) to track geographical distribution of blooms (What's conditions might be contributing to blooms)
- ➤ Track trends (within a lake or statewide)
- ➤ Follow-up:
- Determine if toxins are present
 Important for public health!!!!!



Illinois EPA HAB Coordinator

Teri Holland 217-782-3362

StatewideGreg Ratliff217-782-3362Coordinator:Illinois EPA, DWPC, SWS #15greg.ratliff@illinois.gov

1021 North Grand Ave. East, P.O. Box 19276

Springfield, IL 62794-9276

Regional Coordinators:



Northeastern

Chicago Metropolitan Agency for Planning (CMAP) 233 S. Wacker Drive, Suite 800, Chicago, IL 60606

Lake County

abartolai2@lakecountyil.gov

Lake County Health Department (LCHD)

500 W. Winchester Road, Unit #102, Libertyville, IL 60048

Southern

tylercarpenter@greateregypt.org

Greater Egypt Regional Planning & Development Commission (Greater Egypt)

3000 W. DeYoung St., Suite 800B-3, Marion, IL 62959

http://www.epa.illinois.gov/topics/water-quality/monitoring/algal-bloom/reporting/index



Citizens *

Business *

Government ▼

Educators *

About IEPA ♥

Reporting a Harmful Algal Bloom

Home / Topics / Water Quality / Water Quality Monitoring / Harmful Algal Blooms / Reporting HABs

If you suspect a blue-green algal bloom on your lake or on a public lake you've visited, you can report it to the Illinois EPA. Complete a Bloom Report Form (Coogle Chrome users: You may need to download the form first before opening it. Right-click the link and select Save link as..." from the menu.) The form can also be obtained from the Volunteer Lake Monitoring Program (VLMP) coordinators listed below.

Fill out as much of the form as possible. Take two photographs of the bloom. One photo should be a close-up of the algal bloom or scum, and the other photo should include the surrounding landscape to help identify the location of the bloom or scum on the lake.

Electronic copies of the photos and form should be submitted to the Illinois EPA at EPA.HAB@illinois.gov and, if you are a volunteer in the VLMP, your regional VLMP coordinator.

Note: Illinois EPA will review all forms submitted; however, the ability to initiate follow-up activities will be dependent on time and resources of the Illinois EPA at the time of the submittal. Priority will be given to publicly-owned lakes.

- Holly Hudson ³⁸⁸, Chicago Metropolitan Agency for Planning (Cook, DuPage, Kane, Kendall, McHenry, and Will Counties)
- Greg Ratliff ³⁸⁸, Illinois Environmental Protection Agency (Any County)



Illinois Environmental Protection Agency

Bureau of Water • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Bloom Report Form

Please provide information about the potential blue-green algae bloom observed. This form must be typewritten or printed legibly. This form may be completed manually or online using Adobe Reader and saved to your computer. Please email a completed copy of this form to EPA.HAB@illinois.gov.

Include at least two digital photographs (one close up and one landscape photo to show the surroundings) as email attachments.

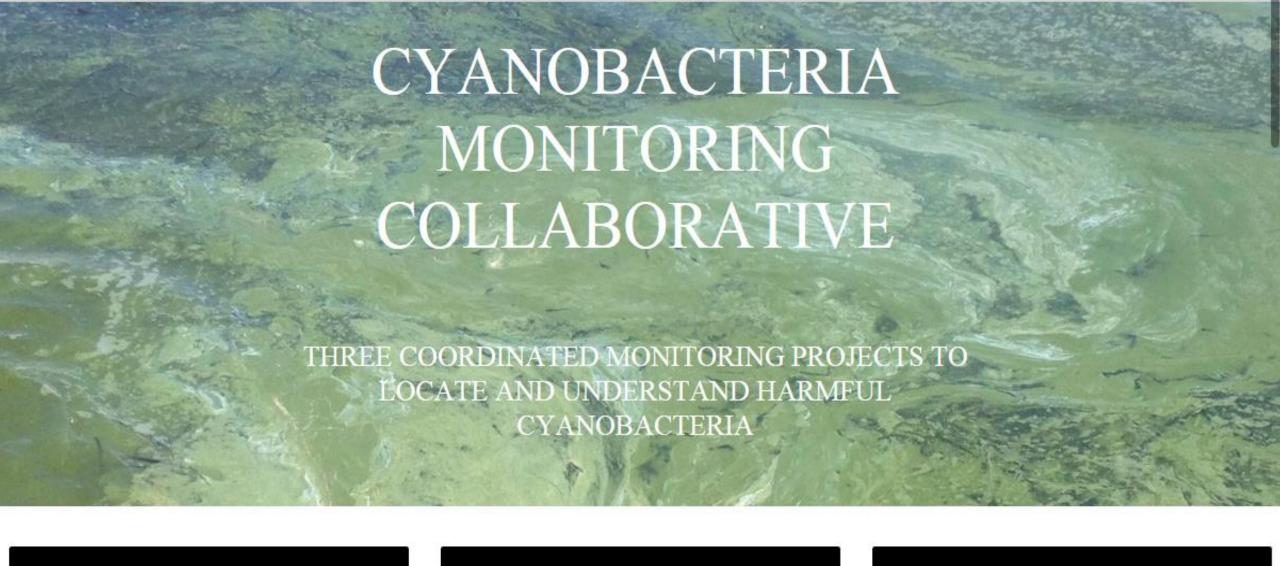
Note: Illinois EPA will review all forms submitted. As staff and resources allow, monitoring and follow-up response action may be initiated with priority given to publicly owned lakes.

Waterbody Information												
Waterbody Name:				Lake Code (if known)	:							
County:	Water T	уре:	•	Water Flow:		▼						
Waterbody Used for (select all that apply):											
Recreation	Resider	ntial Use	Cooling Water									
Drinking Water	Supply Aquacu	ılture 🔲 l	Jnknown									
Agriculture	Industri	al	Other									
Is the lake publicly owned? O Yes O No O Unknown Are Digital Photos Attached? O Yes O No Attach Photos												
GPS coordinates in D	ecimal Degrees (if othe	er, please specify):										
Latitude (Decimal N 0	00.000)	GPS Measure	d									
Longitude (Decimal V	V 00.000)	Google Earth	Other:									

Report Cor	npleted By	
Name		Organization:
Γitle:		Phone:
Email:		Are you a VLMP volunteer? O Yes O No
Bloom Des	cription	
Date Bloom	Observed:	Estimated Size of the bloom (sq. ft.)
Describe an	y color(s) you see in the bloom: T	ne box below will expand as needed
Describe an	y odor(s) associated with the bloc	m (e.g. septic, rotten, fishy, earthy, etc.): The box below will expand as needed
s there an a	accumulation of algae at the surfa	e? O Yes O No O Uncertain
Note: algae	at the surface can look like grass	clippings, green/blue thick foam, spilled paint.
s bloom ne	ar a public beach, boat ramp or m	arina? O Yes O No O Unknown
ls bloom ne	ar a public water supply intake?	Yes No Unknown

WPC 764 5/2015

Sampling Information					
Vere samples taken?		Yes	O No		
o you know if other water quality in	formation is availabl	le? (please	e specify)		
Attach a File Save F	ile with New Name		Print Form	Submit by Emai	
	A	Agency Us	se Only		
Action taken, if any:		•			



GET INFORMED

GET INVOLVED

GET IN TOUCH

We work with citizen scientists, trained water professionals, and the general public to find and study cyanobacteria in waterbodies.

GET INVOLVED

Check out bloomWatch, cyanoScope, and cyanoMonitoring to find ways you can start monitoring cyanobacteria.



bloomWatch App

Crowdsourcing to find and report potential cyanobacteria blooms

Engaging the public to report when and where potential cyanobacteria blooms appear.

LEARN MORE



cyanoScope

Mapping cyanobacteria one slide at a time

Engaging trained citizen scientists and professional water quality managers to understand where and when cyanobacteria species occur.

LEARN MORE



cyanoMonitoring

Monitoring cyanobacteria populations over time

Engaging professionals and trained citizen scientists to track seasonal patterns of cyanobacteria.

LEARN MORE



HOW DOES THE BLOOMWATCH APP WORK?







2. Learn what to look for

Get familiar with the appearance of cyanobacteria blooms

SEE REPORTED BLOOMS

bloomWatch!

Photo 1: Attempt to capture the areal extent of the bloom, (lake/pond wide, along the shoreline, etc.). If additional description is necessary, enter it in the box below.



3. Report what you found

Document blooms with the app

 use bloomWatch app to take good photos of potential blooms, 2) submit your photos to the project, 3) send info to the relevant state agency

NOTE: Avoid bloom and don't touch the water

NOTE: Submissions through bloomWatch do not constitute a formal report to authorities

NOTE: Images submitted via bloomWatch will be used only for citizen science purposes and will not be sold or distributed to advertisers or other entities



CYANOBACTERIA MONITORING COLLABORATIVE

QUICK START GUIDE



bloom bloom

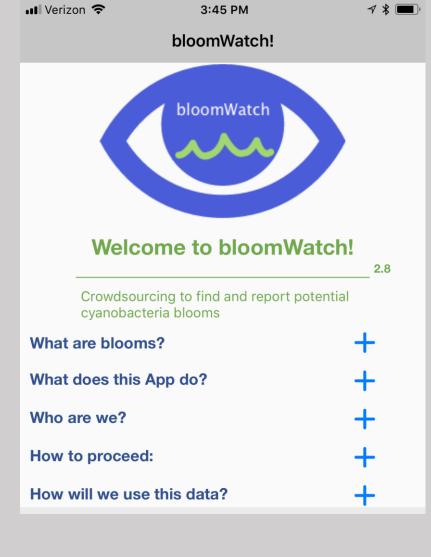
OBJECTIVE:

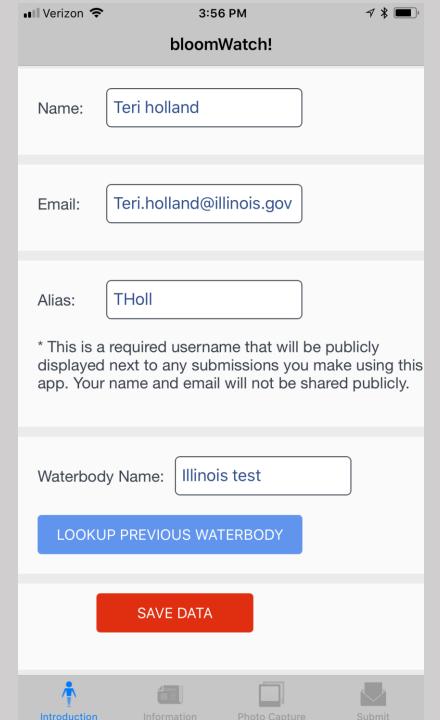
Photographically document when and where potential cyanobacteria blooms are occurring for further verification.

WHAT YOU NEED: The only tools required for this program is a smartphone and its accompanying bloomWatch App. IOS phones must have version 7.1 or newer, and Androids must have version 4.0 or newer.

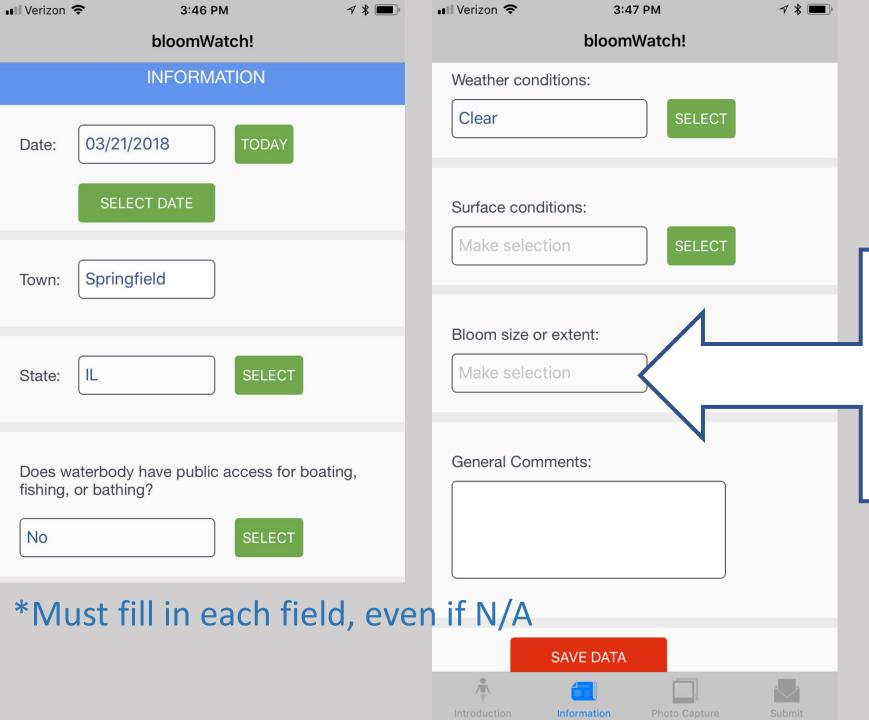
VISIT CYANOS.ORG/BLOOMWATCH FOR MORE INFORMATION.

GET STARTED





Screen 1 Introductory/ Welcome



Screen 2 Information

Larger than a football field

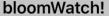
Between a football field & tennis court

Between a tennis court & a sedan

Smaller than a sedan



bloomWatch!









Describe Photo 1

Latitude:

Longitude:

39.6935844...

-89.6115493...

Get Coordinates From Device





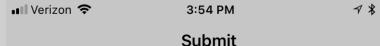


Photo 1: Attempt to capture the areal extent of the bloom. Include some shoreline and skyline.

Photo 2: Image of water surface taken from a standing position 10 - 30 ft. away.

Photo 3: Close up photo of the bloom from 3 ft. away or less.

Screen 3 Photos



SUBMIT

Waterbody Name: Illinois test

Date: 03/21/2018

When you press "Submit" your data will be uploaded automatically to our database on CitSci.org, but your personal information (name and email) will be hidden. Based on the location of your submission, a notification email to your state contact will pop up. Please hit send.

On Android devices, select EMAIL as the choice for your submissions.

SUBMIT DATA

Interested in being more involved and learning more about cyanobacteria? Take a look at some of them under the microscope and report your findings through our sister project:

cyanoScope

Once the waterbody information and pictures have been submitted, you can delete the waterbody from your device to save space. Simply select the waterbody you wish to delete from the list below and click the "DELETE







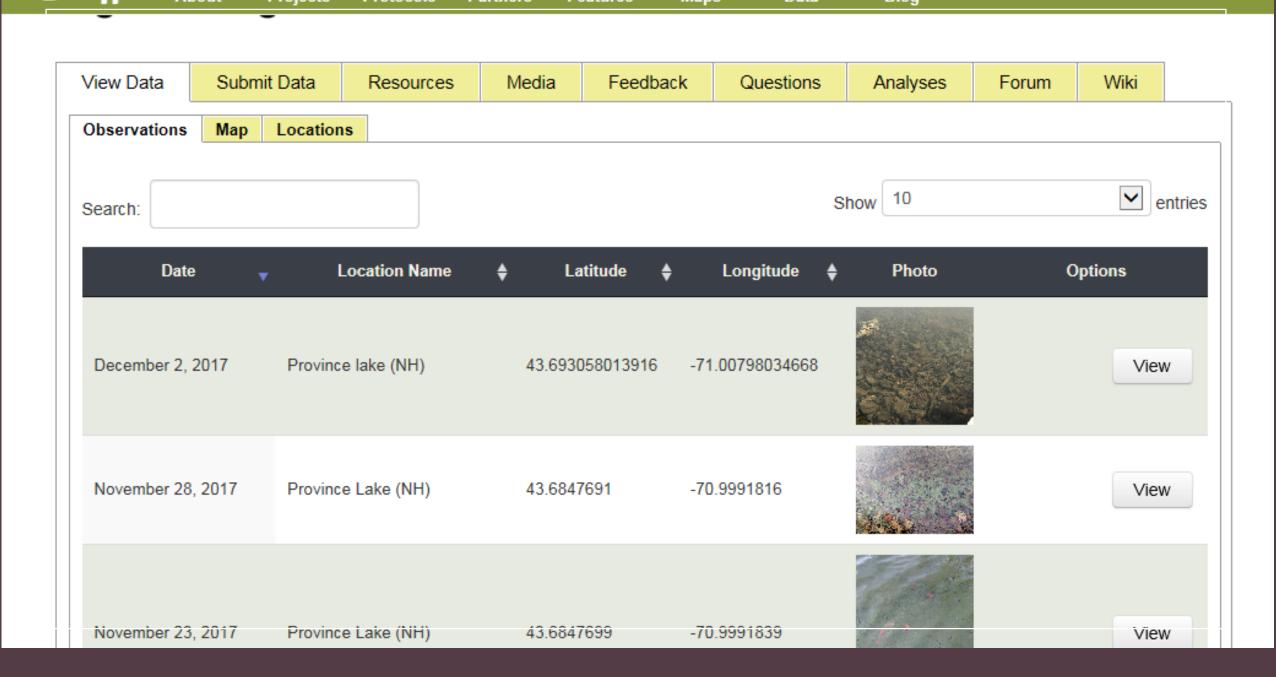


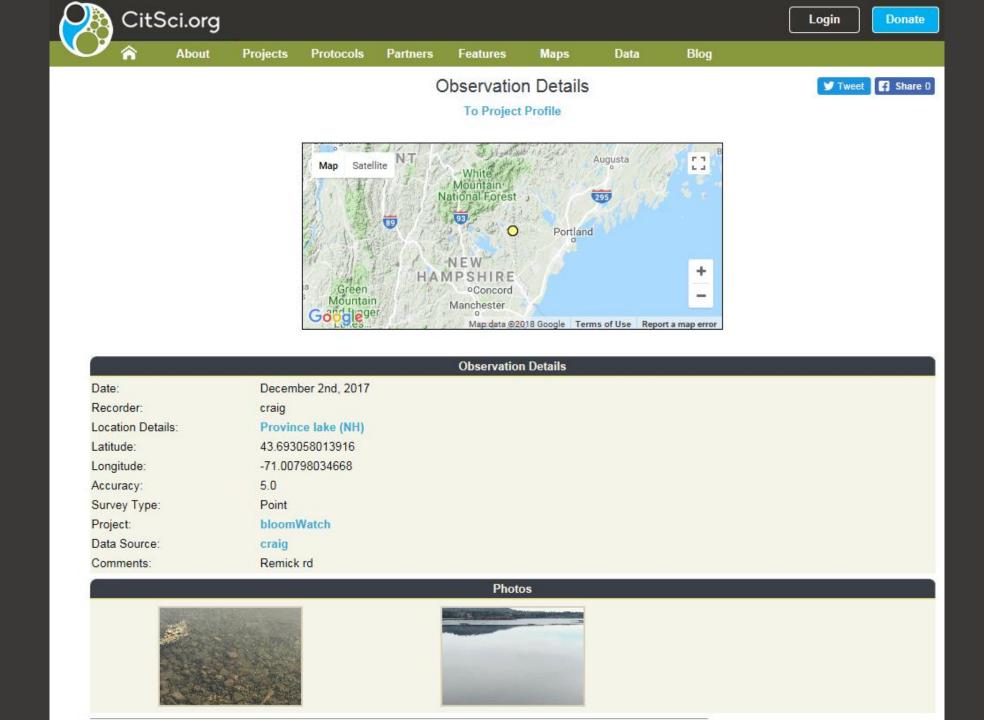


Screen 4

Review & Submit

- Data goes to database on CitSci.org
- Personal information hidden
- A notification email to your state contact (ME) will pop up. Hit SEND





Current Numbers: . 208 iOS users

- 20 States
- 280 Android users
- 137 CitSci Members
- 35 Reports



- NH 9
- MA 8
- CT 6
- **CA-5**

