

A collaborative approach for cyanobacteria monitoring and bloom detection in surface waters

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The **CYANOBACTERIA MONITORING COLLABORATIVE** uses a **3-prong** approach to monitor & document cyanobacteria in lakes



look **RIGHT** for more details

The **CYANOBACTERIA MONITORING COLLABORATIVE** is made up of a **wide range of organizations** including volunteer, government, academia and private industry



look **BELOW** for more details

#Cyanobacteria Monitoring Collaborative Core Participants

- Connecticut Dept. of Energy and Environmental Protection
- Connecticut Federation of Lakes
- Candlewood Lake Authority
- Maine Department of Environmental Protection
- Dover-Foxcroft Water District
- Abington and Rockland Joint Water District
- Charles River Watershed Association
- Esperanza Academy
- Massachusetts Department of Environmental Protection
- Massachusetts Department of Public Health
- Concord New Hampshire Water Works
- Lim-Tex, LLC
- Eastern Analytical, Inc.
- Manchester New Hampshire Water Works
- Meredith New Hampshire Water Works
- New Hampshire Department of Environmental Services
- Rochester New Hampshire Water Works
- University of New Hampshire Center For Freshwater Biology
- University of New Hampshire Cooperative Extension
- Rhode Island Department of Environmental Management
- University of Rhode Island Watershed Watch
- Vermont Department of Environmental Conservation
- Abenaki Tribe
- Acton Wakefield Watershed Alliance
- Lake Champlain Basin Monitoring Program
- New England Interstate Water Pollution Control Commission
- Passamaquoddy Tribe
- Penobscot Nation
- US Environmental Protection Agency: Atlantic Ecology Division
- US Environmental Protection Agency: Mid-Continent Ecology Division
- US Environmental Protection Agency: Region 1
- US Environmental Protection Agency: Region 8
- United States Geological Survey: New England Water Science Center

Connecticut | Maine | Massachusetts | New Hampshire | Rhode Island | Vermont | No/Multi

Anyone can join the **CYANOBACTERIA MONITORING COLLABORATIVE** (not just groups from New England) go to **CYANOS.ORG** for more details

BLOOMWATCH APP

the bloomWatch App is used to photograph blooms and lake conditions

additional info is documented

picture & details sent to database and relevant state authorities

CYANOSCOPE

cyanobacteria are collected, concentrated and viewed under a microscope

cyanos are ID'ed using the "Dirty Dozen" key

pictures and identification submitted and shared for confirmation and analysis

CYANOMONITORING

lake water is collected to examine long-term & seasonal patterns of cyanobacteria

collected from shore or boat

analyzed for phycocyanin and chlorophyll

DATA GATHERED FOR MAPPING & ANALYSIS

pictures and data will be made available online and will be shared with relevant authorities, scientists and other stakeholders

location and duration of HCBs
vulnerability assessment
geomorphology and landcover effects
seasonal cyanobacteria dynamics
educational programs
web-based maps of HCBs
outreach and engagement
local planning

lake associations
citizen awareness
HCBs related to climatic factors
public health
lake management

scientific community | general public | education and outreach

TRAINING VIA MOBILE LAB

training in all three approaches
all states in the region in 2016
coordinated with local lake organizations

RESOURCES ON CYANOS.ORG

outreach, program information, training, resources, data and analysis