

Lake Cyanobacteria Management Plan Template

- A. Title Page with Approvals
 - a. Lake Name Cyanobacteria Management Plan
 - b. Lake, County
 - c. Organization
 - d. Date prepared
 - e. Signature page
- B. Table of Contents
- C. Table of Figures and Tables
- D. Executive Summary
- E. Background
 - a. Study Area
 - i. Lake and Watershed
 - ii. Beneficial uses of the lake
 - iii. Current and historical land uses
 - iv. Number and location of houses on septic
 - v. Water use
 - vi. Water withdrawals
 - vii. Fisheries
 - viii. Aquatic plants
 - ix. Endangered/rare species
 - b. Water Quality History
 - i. Past water quality conditions
 - ii. Efforts to improve water quality
 - c. Current Conditions
 - i. Water quality
 - ii. Stormwater entry untreated?
 - iii. Contaminants of concern
 - a. Cyanotoxins
 - b. 303 d list status
 - c. TMDLs
 - d. Regulatory criteria of contaminants and cyanotoxins
 - d. Community Involvement
 - i. Public participation
 - ii. Public support
- F. Project Description
 - a. Project goals and objectives
 - b. Project schedule
- G. Monitoring Methods and Results
 - a. Lake level, stream inflows/outflows, groundwater & precipitation/evaporation
 - i. Monitoring methods
 - ii. Monitoring results
 - b. Lake water quality profile monitoring – Field measurements
 - i. Monitoring methods

- ii. Monitoring results
 - c. Lake water quality sampling – Lab samples
 - i. Monitoring methods
 - ii. Monitoring results
 - d. Stream water quality sampling – Lab samples and field measurements
 - i. Monitoring methods
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 - e. Phytoplankton sampling
 - i. Monitoring methods
 - ii. Monitoring results
 - f. Zooplankton sampling
 - i. Monitoring methods
 - ii. Monitoring results
 - g. Waterfowl survey
 - h. Vegetation survey
 - i. Submersed plants
 - ii. Emergent plants
 - iii. Shoreline plants
 - i. Shoreline modification survey
 - j. Lake sediment sampling
 - i. Monitoring methods
 - ii. Monitoring results
- H. Hydrologic Budget
 - a. Description of water budget components
 - b. Inflows
 - c. Outflows
- I. Nutrient Budget and Phosphorus Model
 - a. External phosphorus loading
 - b. Internal phosphorus loading
 - c. Phosphorus model
 - i. Model description
 - ii. Model results
- J. Management Methods for Cyanobacteria Control and Lake Restoration
 - a. Direct algae control methods
 - b. Internal loading control methods
 - c. External loading control methods
- K. Management / Restoration Methods Rejected
- L. Recommended Management / Lake Restoration Plan
- M. Future Monitoring and Adaptive Management
 - a. Evaluation
 - b. Adaptive changes
- N. Funding Strategy
- O. Roles and Responsibilities
- P. References