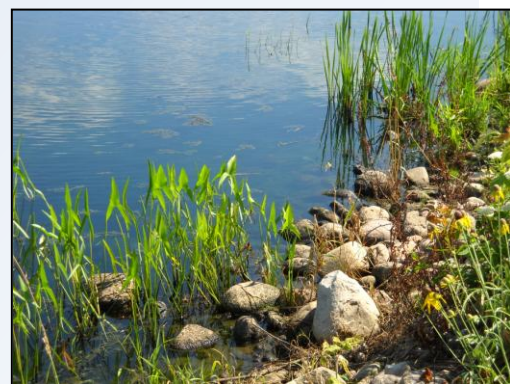


## Common Pond Problems and Effective Solutions

### **PROBLEM: Poor water quality due to *ALGAE BLOOMS***

#### SOLUTIONS:

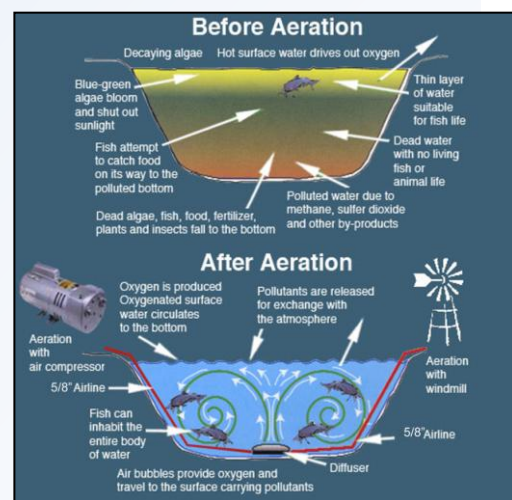
1. *Eliminate nutrient sources:*
  - Reshape banks to limit runoff entering the pond
  - Create settling basins for inflowing waters
  - Selectively remove trees and brush to limit leaf litter entering the pond
  - Do not fertilize lawns near your pond
  - Do not encourage excessive waterfowl usage
  - Stabilize eroding banks with rip rap and an appropriate seed mix
  - Introduce pro-active nutrient reduction tools
    - Buffered alum, Phoslock, polymers
2. *Consider other organisms or tools to compete with algae for available nutrients:*
  - Maintain a balanced fishery
  - Establish desirable aquatic plants
  - Add aeration to establish a healthy environment
    - Couple with Bio-feed metering system
  - Introduce pro-active tools
    - Bacteria, enzymes, pond & lake dyes
3. *Chemical treatments:*
  - Use chelated algaecides as effective temporary control method that is environmentally safe.
  - Avoid excessive or improper use of algaecides
  - Avoid products such as copper sulfate and Aquazine
4. *Make environmental conditions unfavorable:*
  - Minimize stagnant water with aeration
  - Maintain proper pond depths (12-15')



### **PROBLEM: Excessive *WEED GROWTH***

#### SOLUTIONS:

1. *Eliminate nutrient sources* using methods listed above
2. *Chemical treatments:*
  - Identify nuisance species and use recommended aquatic herbicides. Many are species selective
3. *Make environmental conditions unfavorable:*
  - Use aquatic dyes to reduce light penetration and inhibit weed growth
  - Maximize depths when possible
4. *Physical removal:*
  - Harvest nuisance plants with weed cutters and rakes
  - Avoid cutting Eurasian Watermilfoil to discourage spreading



## **PROBLEM: UNDESIRABLE FISHERY**

### **SOLUTIONS:**

1. *Improve water quality:*
  - Minimize fish kills due to low dissolved oxygen by installing aerators
  - Reduce runoff
2. *Improve habitat:*
  - Install rocks, logs, fish cribs and aquatic plants to provide fish cover and spawning habitat and to improve forage base
  - Maintain tall grasses and forbes along pond banks to provide insect forage
3. *Manipulate populations:*
  - Collect length and age data on fish populations to make informed management decisions
  - Use angling, seining or netting to remove excessive or unwanted fish
  - Develop a forage stocking program to improve growth rates
  - Consider stocking sterile hybrid panfish to eliminate overpopulation
  - Restrict harvests when needed
  - Treat with Rotenone to eradicate undesirable fishery and start over



## **PROBLEM: HEAVY SEDIMENT BUILDUP**

### **SOLUTIONS:**

1. *Control erosion and influx of organic matter*
2. *Install a bottom-diffused aeration system*
3. *Apply bacterial cultures to speed up organic sediment reduction*
4. *Use enzymes to enhance colonization of both native and cultured bacteria*
5. *Consider dredging for severe cases*
6. *Remove undesirable trees*
7. *Treat nuisance aquatic plants early to reduce biomass*



## **PROBLEM: POOR WATER QUALITY**

### **SOLUTIONS:**

1. *Eliminate erosion points*
2. *Stabilize shoreline and basin sediment*
3. *Introduce beneficial aquatic plants*
4. *Introduce water clarifiers*
  - Polymers, enzymes, alum
5. *Adjust aeration, waterfall, or fountain equipment*
6. *Remove carp, suckers, catfish or any bottom feeding fish species*



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