



# Stormwater Pond Maintenance

AQUA DOC Lake and Pond Management

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- Construction

- 3:1 slope
- Location of inflows and overflows
- Shoreline
  - Gravel
  - Grass

- Runoff management

- Most sedimentation over life of pond happens during construction
- Silt screens
- Silt socks
- Planting





- Maintenance

- Management Programs

- Biweekly visits
    - Manage nuisance vegetation
    - Clear overflows
    - Inspect aeration systems
    - Service reports





- Aeration

- Benefits

- Precipitates sediment
    - Increases Dissolved Oxygen
    - Prevents stagnation
    - Decreases nuisance vegetation growth

- Cost

- \$2000-\$10,000
    - Minimal operating and maintenance cost
    - Much less than Fountain

- Easy Site Requirements

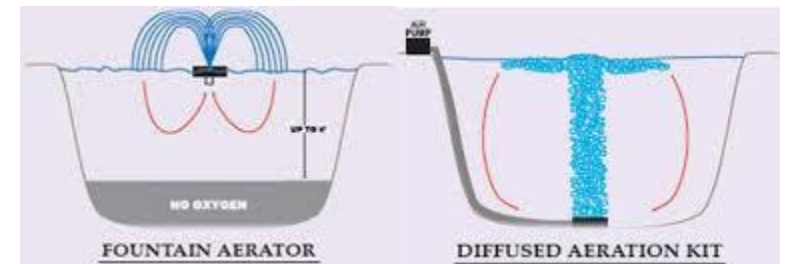
- 120V outlet





- Fountains

- Surface aeration vs Bottom diffused aeration
- Aesthetics
- Lights
- Maintenance
  - Remove in winter
  - Motor maintenance
- Site requirements
  - 240V
  - Water fluctuation
- Cost
  - \$2000-\$20,000
  - Higher operating/maintenance costs





- Emergent Vegetation
  - EPA rules and regulations
  - Cattails, Phragmites, Willow Trees
    - Spray, Cut and Remove
    - Continuous treatment for life





- Dredging

- Every pond fills in
- In maintenance package for property to be done every 10-20 years
- Plan and Budget ahead
  - \$





- Fish

- Grass Carp/White Amurs
- Bluegill
- Largemouth Bass







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