



# Update on Drinking Water Supply Reservoir Protection Act Implementation

Presented to the Environmental Review  
Committee

April 11, 2006

# Drinking Water Supply Reservoir Protection Act

- Session Law 2005-190
- Nutrient Control Measures
- Reports

# Eutrophication

Chlorophyll-a

Turbidity

Nutrients

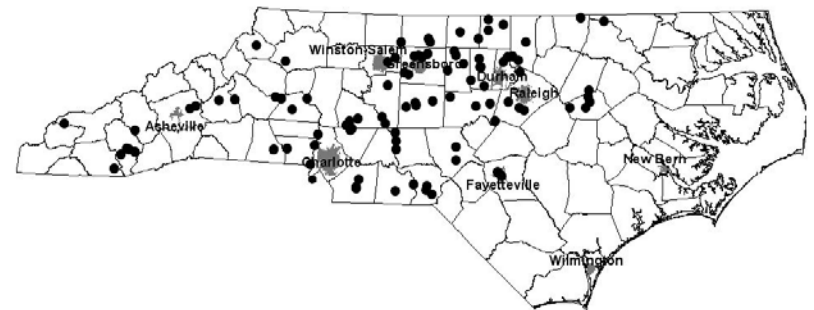
pH

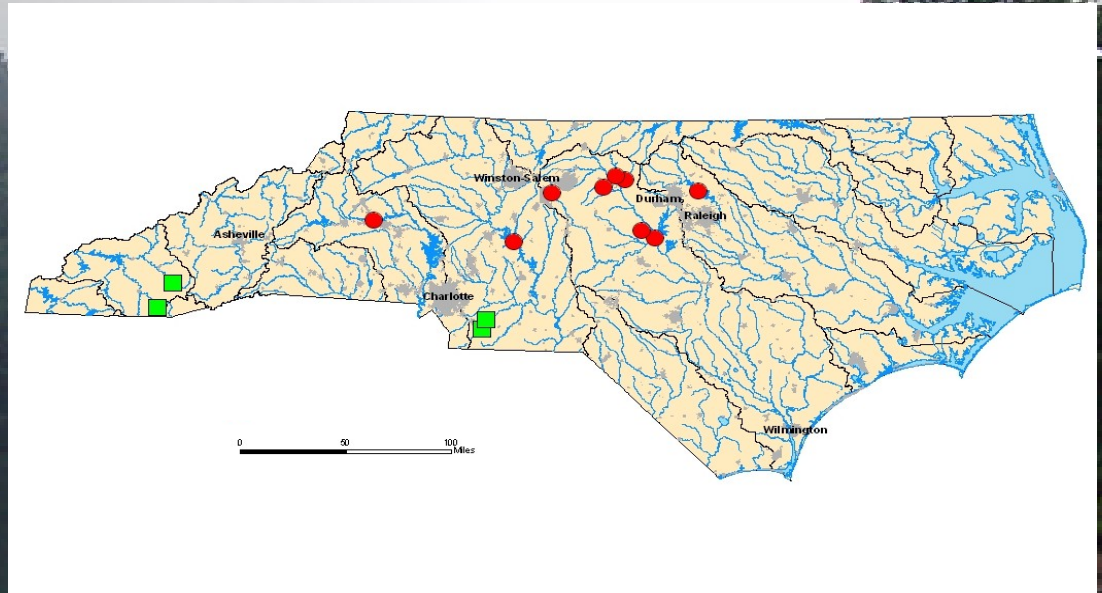
Dissolved Oxygen



# Drinking Water Supply Reservoir Water Quality Report

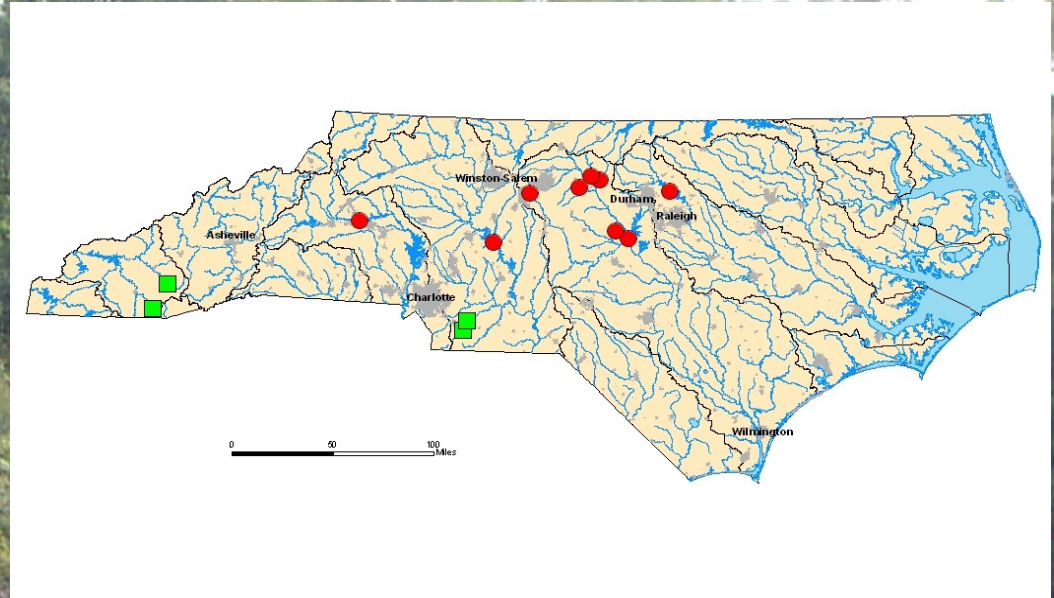
- **95 water supply reservoirs**
- **1995-2005**
- **13 Lakes not meeting eutrophication-related standards**





- Adaptive Management
  - Sequoyah
  - Cedar Cliff
  - Lee
  - Twitty (Lake Stewart)





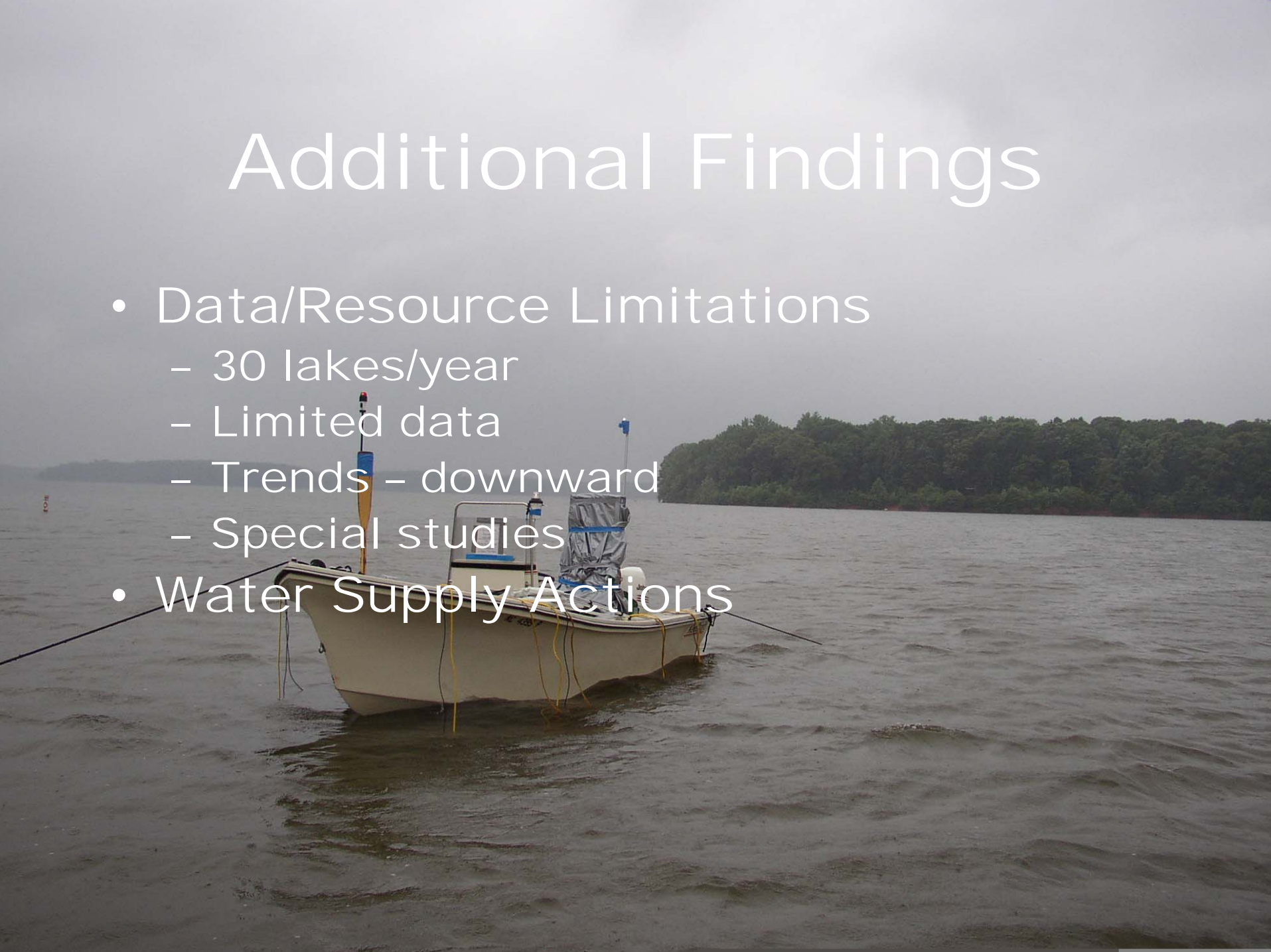
## Actions Under Way

- Falls of the Neuse
- B. Everett Jordan
- Pittsboro
- Graham-Mebane
- Stoney Creek (Lake Burlington)
- Mackintosh
- High Point
- High Rock
- Rhodhiss



# Additional Findings

- Data/Resource Limitations
  - 30 lakes/year
  - Limited data
  - Trends – downward
  - Special studies
- Water Supply Actions



# Recommendations

- Updating Nutrient Control Strategies
  - Jordan Lake Watershed
  - Falls of the Neuse Watershed
- Complete study & model development – High Rock



# Recommendations

- Listing as Impaired
  - High Point
  - Rhodhiss
- Additional Sampling
  - Lake Lee
  - Lake Twitty

# Why Nutrient Control Criteria?

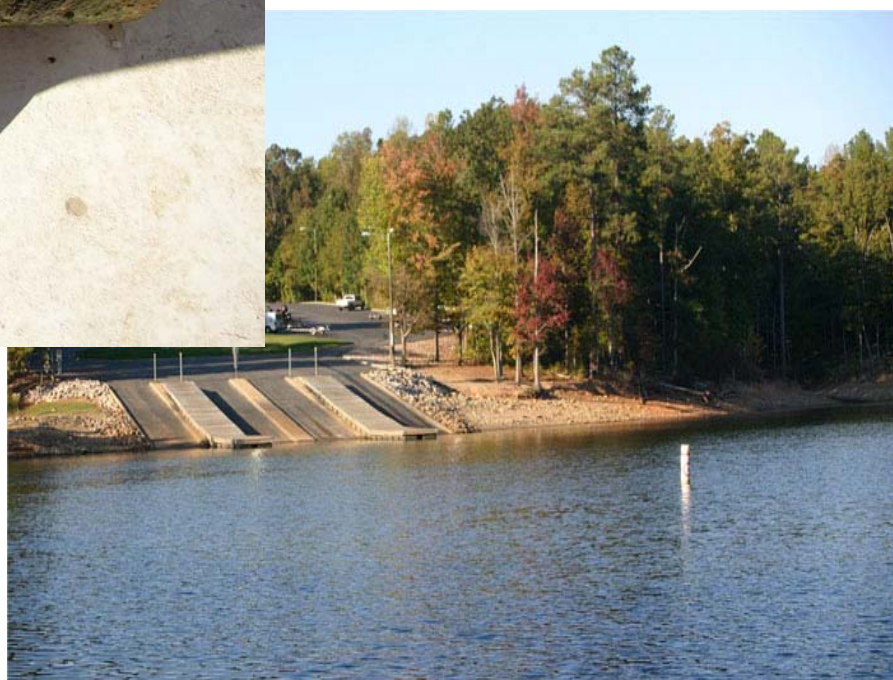


Phelps Lake July 2005



Jordan Reservoir  
Haw River arm August 2005







High Rock Lake - Second Cr arm at Bringle Ferry Rd  
7/25/02



# Nutrient Control Criteria Development

- Chlorophyll-a, pH, Dissolved Oxygen, Turbidity
- EPA Approved Plan
- 2010 Deadline

STATE OF NC





# Section 3 – Falls of the Neuse Reservoir Nutrient Rules

# Section 3 Report

- Field Study
- Technical Advisory Committee
- Chlorophyll-a
- Drought
- Extension Request



# Section 4 – Jordan Lake Nutrient Rules



Morgan Creek Arm photo by Doug Wakeman August 29, 2005

# Section 4 Report

- Town of Pittsboro – no expansion
- Comprehensive Concepts Meetings 2005
- Revising per March 2006 WQC



