Update on the NC Nutrient Criteria Development Plan

Dianne Reed, Environmental Sciences Section Chief

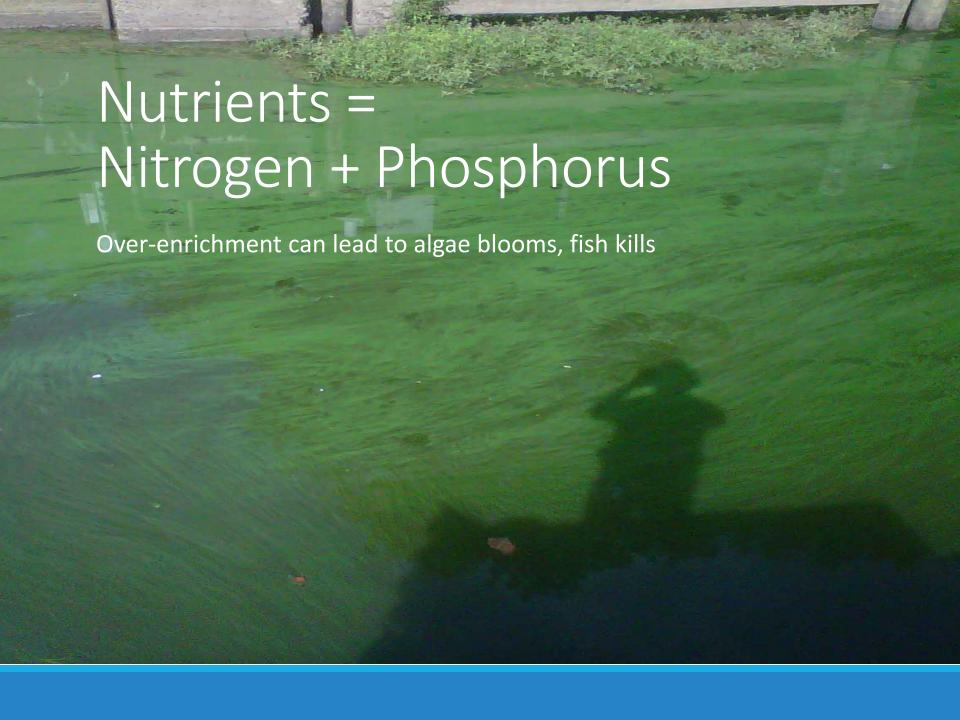
NC Division of Water Resources



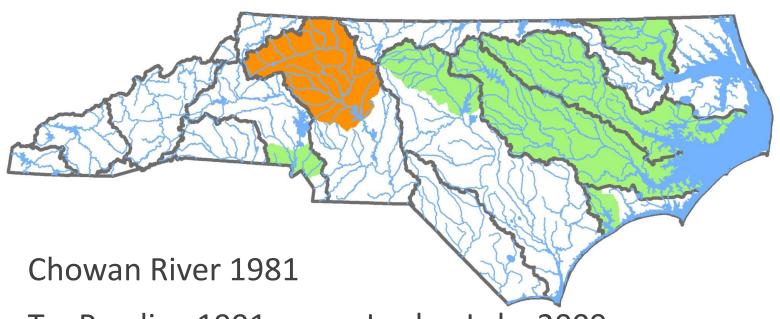
Agenda

- Background
- Recent Activities
- The Plan
- Comments
- Next Steps





NC Nutrient Management History



Tar Pamlico 1991

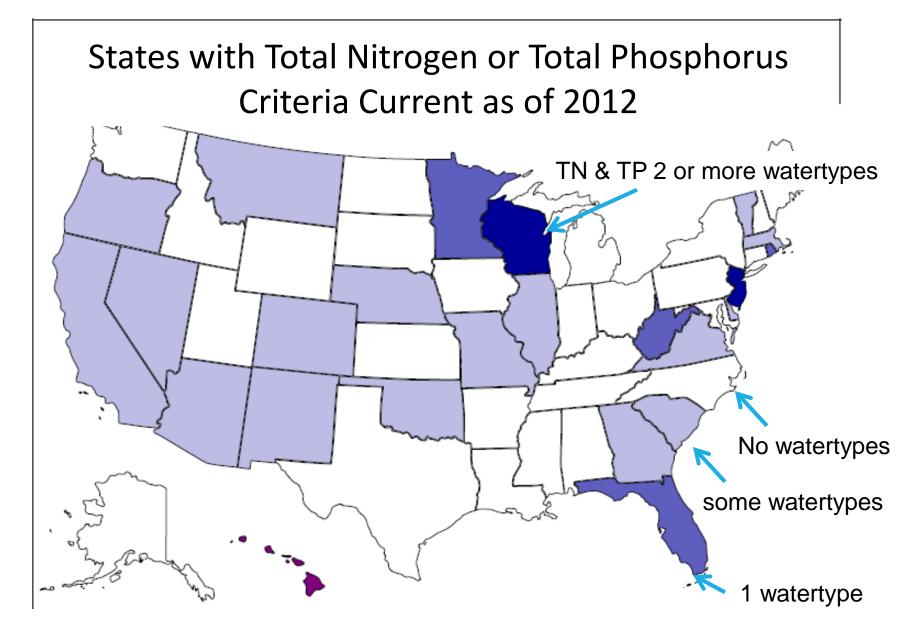
Lake Wylie 1996

Neuse River 1997

Jordan Lake 2009

Falls Lake 2010

High Rock Lake?



Source: http://cfpub.epa.gov/wqsits/nnc-development/index.html

Nutrients, EPA & NC

2000

2004

2011

2013

- National Ecoregional Numeric Nitrogen & Phosphorus Criteria published by US EPA
- NC's 1st Nutrient Criteria Development Plan (NCDP)
- EPA does not concur on updated NC NCDP
- Draft NC NCDP & Public Meetings

Recent EMC Activities

January 2009 – January 2011

✓ Proposed modified chlorophyll a criteria

May 2012

NC Forum on Nutrient Over-Enrichment

Nutrient Over-Enrichment Forum May 2012

- Alternatives to numeric N & P criteria
- Clearer understanding of science
- Consider other criteria
- Other "trending" or "change" indicators
- Review of costs and savings

Forum Panelists' Highlights

- Site-specific & waterbody type- specific approaches
- Scientific, balanced, & fair
- Stakeholders
- Goals & targets
- Proactive & integrative
- Improve NC's current approach

NCDP: The Backbone

- Evaluation of Response & Causal variables
- Waterbody Approaches
- EPA Nitrogen & Phosphorus

NCDP Development

- Public Meetings December 2012
- New Draft April 2013
- End Comment Period May 24, 2013
- New Draft August 2013
- Commenter Meeting September 25, 2013
- Update Draft now

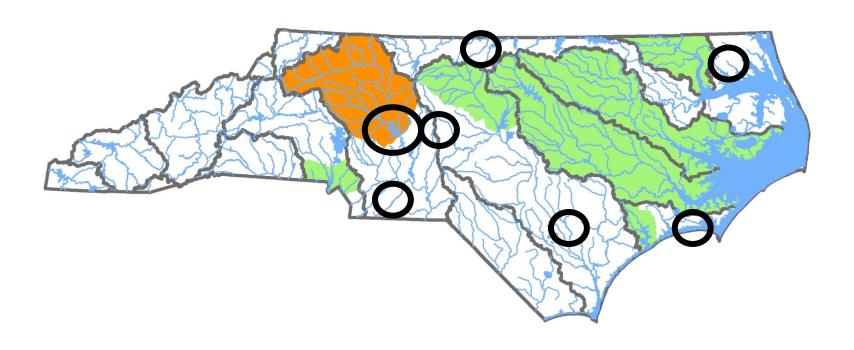
Comments on Drafts

- Emphasize NC's strong nutrient management history
- Exempt waters with existing TMDLS & nutrient management plans
- Clarify priorities and regions/waters
- Develop management strategies along with standards

Comments on Drafts

- Support Technical Workgroup & regular stakeholder updates
- Develop clear process for site-specific criteria
- Evaluate appropriate location for implementation
- Tie to designated use attainment

Potential Areas for Prioritization Based on Chlorophyll a Impairments



NCDP Implementation

- EPA agreement
- Implement plan
 - Stakeholder participation
 - Draft criteria
 - Implementation discussions to refine criteria
- EMC determines what moves forward (rule-making)

Questions?

Contacts:

Dianne Reid — 919.743.8416 Kathy Stecker — 919.807.6422 Connie Brower — 919.807.6417

North Carolina Division of Water Resources