

*"To preserve, protect and enhance North Carolina's water ..."*

# Proposed Rules for Monitoring at Permitted Animal Operations

## 15A NCAC 02T .1310 & .1311

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## Timeline

- Rule making petitions filed in 2007 –  
Granted by EMC in May 2008
- Staff directed to gather more input
- Four stakeholder meetings held
- Revised Rules developed
- Approval to proceed to public comment  
process in Nov. 2008



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## Public Process

- 60-day comment period began May 15
- Comment period ends July 14
- 4 hearings
  - Statesville – June 9
  - Kenansville – June 11
  - Raleigh – June 15
  - Williamston – June 18



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## Proposed Rules

- Waste Discharge Sampling - .1310(a)
  - Observations of tile drains during every application event – similar to permit conditions
  - Observations of tile drains after application
    - Once after land application is complete
    - Once after land application and rainfall event
  - Sampling required if a discharge is discovered
  - Purpose – identify discharges that could otherwise go unnoticed



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## Proposed Rules

- Routine Surface Water Sampling - .1310(b)
  - 3 sampling events / year
  - 3 locations / farm site
- Coalitions - .1310(c)
- Groundwater Sampling - .1310(d)
  - Mirrors current policy – action required when offsite wells are impacted



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## Proposed Rules

- Reporting - .1310(e)
- Implementation - .1311
  - Immediate for new or expanding farms
  - By watershed for existing
  - Flexibility provisions



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## Sampling Locations

- Division to determine
- Up to 3 per farm site
  - One background
- Permit may cover multiple farm sites
  - Example - large farm complex with multiple lagoons spread over a large area

**UPSTREAM**

**DOWIISTREAM 1**

**DOWIISTREAM 2**

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## Routine Sampling Events

- 3 per year
  - Jan – Feb
  - March – May (after land application)
  - July – Sept. (after land application)
- Set time allows scheduling of sampling with contract labs
- Not precipitation based – may need to wait for rain to have flow during summer



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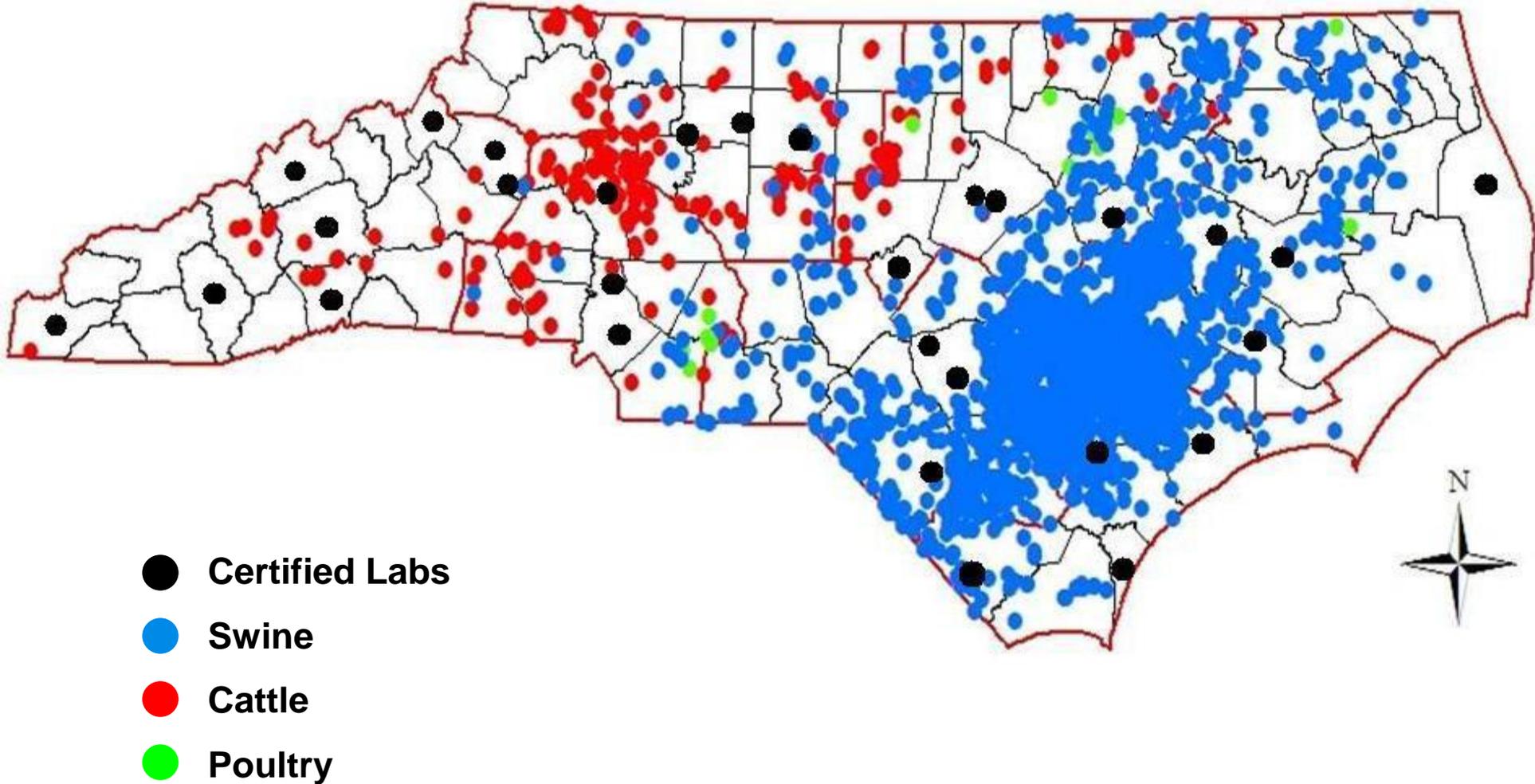
## Routine Sampling Events

- Sample Parameters
  - Ammonia ( $\text{NH}_3$ ), Nitrate ( $\text{NO}_3$ ), Fecal Coliform,  $\text{BOD}_5$ , and Chlorides
- Samples must be analyzed by a DWQ-certified lab
- Sample results submitted in an annual report to DWQ
- If sample results show no impact, reduction or elimination of routine sampling can be granted



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## Certified Lab Locations





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## Benefits

- Help identify potential pollution sources
- Follow-up by DWQ can help direct resources in a more effective manner
- Help facilities document that they are in compliance with the non-discharge conditions of their permit



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## Monitoring Coalitions

- Voluntary
- Rules provide specific authority
- Each member farm must have at least one sampling location
- Division will approve coalition monitoring plans

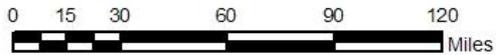
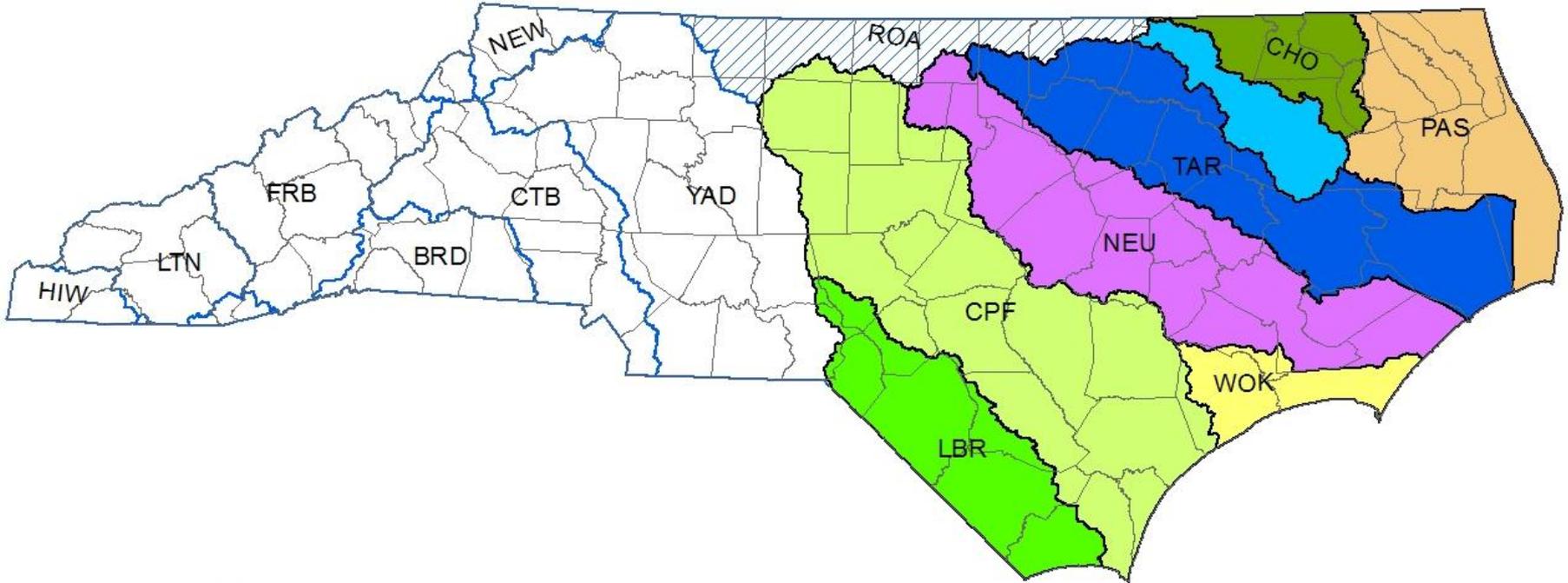


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## Implementation

- Implement on a watershed basis

# River Basins in Rule .1311





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## Implementation

- Implement on a watershed basis
- Basins with nutrient related concerns
- Flexibility provisions
  - Change in priority order for watersheds
  - Add watersheds to priority list
  - Require monitoring for individual facilities outside of watershed order
- Set schedule not provided



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## Fiscal Impact

- DWQ contacted 10 certified labs to estimate cost of sample analysis, sample transportation, and sample collection
- Annual sampling cost per farm site:
  - Lab transports samples = \$1,270
  - Lab collects and transports samples = \$1,720
  - Other costs (time, training, etc.) = \$400



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## Summary

- Observations during waste application – similar to existing permit conditions
- Routine monitoring
  - Up to 3 locations / farm site; 3 sample events / year
- Staged implementation process on a watershed basis
- Help locate potential pollution sources, and effectively use State's resources to make water quality improvements
- Hearing Officers will consider comments, and make a recommendation to the EMC



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For more information:

- Visit the "Hot Topics" section of the DWQ website

[www.ncwaterquality.org](http://www.ncwaterquality.org)

- Copies of the proposed rules
- Fiscal Note
- Fact Sheets
- Links to additional information



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Submit written comments by July 14 to:

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For more information: [www.ncwaterquality.org](http://www.ncwaterquality.org)