



pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION



Office of Water Management

The Alphabet Soup of Water Regulations

April 2015

Chapter 93

Chapter 91

Chapter 96

Clean Streams Law

303(d)

TMDL

Clean Water Act

MS4

NPDES

CAFO

Integrated Report

Chapter 94

Act 167

Act 537

Overview

- What are the Pieces
- Tying the Pieces Together
- Putting it all in perspective
- How Water Quality Concerns have Evolved

What are the Pieces

- Federal Law
 - Clean Water Act – 1972
 - Others (HSCA, CERCLA, RCRA)
- State Law
 - Clean Stream Law
 - Act 167 – Stormwater Management - 1978
 - Act 537 – Sewage Facilities Planning - 1966

What are the Pieces

- Federal Regulations and Programs
 - 40 CFR 122 – 130:Covers (NPDES, Monitoring and Assessment, Continuing Planning Process)
- Water Quality Standards
- Permitting
- Follow up Actions
- Integrated Water Quality Report

What are the Pieces

- State Regulation
 - Chapter 91 – General Provisions – WQM Permits
 - Chapter 92a – NPDES Permits
 - Chapter 93 – Water Quality Standards (WQS)
 - Chapter 95 – Wastewater Treatment Requirements
 - Chapter 96 – WQS Implementation
 - Chapter 102 – Erosion and Sediment Control
 - Chapter 105 – Dam Safety & Waterway Management

Tying the Pieces Together

- Water Quality Standards
 - Numeric Criteria
 - Designated Uses
 - Special Protection Waters
 - Monitoring and Assessment
 - Integrate Water Quality Report

Permitting

- NPDES permits
 - Authorization to Discharge
 - Written to insure that WQS are met
 - Covers (MS4, CAFO, Sewage, Industrial Waste)
 - Implement TMDLs
- Water Quality Management Permits (WQM)
 - Authorize the construction of wastewater treatment facilities
 - Permit non-stream discharge systems (spray, drip irrigation)

Follow Up

- Inspections at Facilities
 - Is the permittee complying with the terms and conditions of their permit
 - Can be opportunities to better understand responsibilities
- Review of Annual Report Submittals
- Streams Assessment
 - Did the Department do a good job writing the permit
 - Are Designated uses being met

Watershed Management Cycle

- A stream/watershed assessment
- Streams that fail assessment criteria are included on Pennsylvania's Impaired Waters List
- The TMDL or Alternative is completed to address the Impairments
- TMDL Implementation
- Reassess the waters

Evolving Water Quality Concerns

- The Shift in Pollutants of Concern
 - Dissolved Oxygen/ Ammonia Toxicity
 - Metals
 - Nutrients/Sediment
 - Emerging Contaminants
- 303(d) revisioning
 - What is it
 - How does this affect you
 - Why did DEP Pick Sediment as the Focus

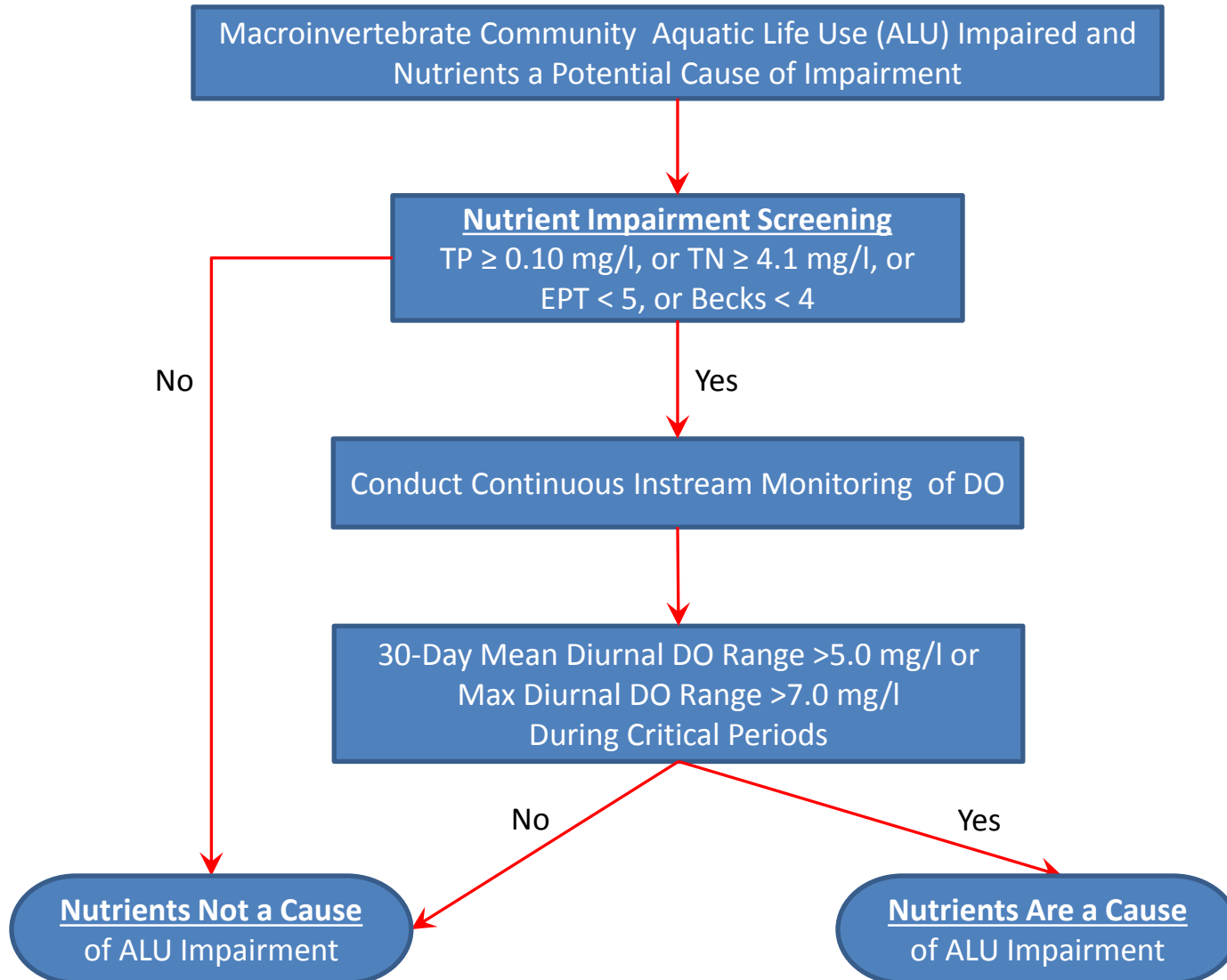
➤ Opportunities for Collaboration – MS4

- **MCMs**
 - Education/outreach
 - Training
- **Plans**
 - TMDL
 - Chesapeake Bay Pollutant Reduction Plans
- **Permits**

MS4 Plans

- **TMDL Plans**
- **Chesapeake Bay Pollutant Reduction Plans**
- **Watershed Restoration/Maintenance Plan**

Conceptual Model of Wadeable Stream ALU Nutrient Impact Assessment Methodology





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