

Wisconsin's Phosphorus Rule

The Watershed Adaptive
Management Option: a new tool
for cost-effectively
restoring our watersheds

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Overview

- Regulatory Framework
 - Administrative rules
 - Traditional compliance strategies
 - Complications with nutrients
- Wisconsin's Watershed Adaptive Management Option
 - Overview
 - How it works
 - WAMO v. Water Quality Trading
 - Why it works
 - Where it works
- Dane County pilot

Regulatory Framework

- Wisconsin Administrative rules
 - NR 102 numeric water quality criteria (phosphorus)
 - NR 151 agricultural performance standards
 - Nr 217 phosphorus implementing language
 - Total Maximum Daily Loads Waste Load Allocations
- Traditional compliance
 - Technology controls
 - Compliance schedules, Variances, UAAs, Site-Specific Criteria
 - Water Quality Trading (?)
- Complications with nutrients

Watershed Adaptive Management Option (WAMO)

- Wis. Admin. Code NR 217.18:
 - A strategy option for WPDES permittees to comply with phosphorus standards in a timely and cost-effective manner, taking into consideration the contributions of phosphorus from point and nonpoint sources in a watershed
 - Permittees submit a WAMO plan with WPDES permit reissuance application
 - Compliance contingent on water quality

Watershed Adaptive Management Option (WAMO)

- WAMO plan elements:
 - Demonstration that addressing nonpoint source pollution is critical to achieving water quality standards
 - Demonstration that permittee compliance would require expensive control technology
 - Analysis of phosphorus loading in watershed
 - Planned specific and verifiable runoff control actions to achieve water quality standards
 - Measurable goals for plan implementation
 - Demonstration of funding ability and partners

WAMO: How it works

- Drivers: Permitted point sources
 - WPDES Permit compliance via actions that result in water quality standards being met in waterbody
- End game: water quality standards met
- Routes: nonpoint reductions, partnerships
- WAMO 3 step:
 - Pollution source assessment
 - Pollution reduction assessment
 - Implementation plan

WAMO planning: Step 1 of 3

- Outreach: A note on inclusiveness.
- Data-gathering:
 - You have access to almost all the information you'll need.
 - Significant point and nonpoint phosphorus contributors
 - Nutrient management plans
 - Data resources: pt srcs, USGS, EPA, Google, DNR (PRESTO), TMDLs, Universities, contractors, community resources
 - Determine if sufficient baseline information for modeling; if not, plan to collect baseline data. Begin collecting data.
- Organizational structure of partnership

WAMO planning: Step 2 of 3

- Data-gathering, analysis
 - Collect data, enter it into selected model.
 - Analyze data for strategic phosphorus runoff reduction locations and practices. Using the model and analysis, determine necessary reductions to achieve water quality standards.
 - Incorporate stakeholder goals where possible to leverage other resources.
 - Model plan for those reductions necessary to meet water quality standards and beyond. Test nonpoint pollution reductions methods and strategies.

WAMO planning: Step 3 of 3

- WAMO plan creation
 - Identify options for pollution controls.
 - Compare pollution control options to other watershed priorities, and pick pollution controls that will achieve water quality goals, best address watershed priorities, and be cost-effective.
 - Create implementation plan and timeline, monitoring plan with measurable goals and planned options for adaptations.
 - Establish agreement with stakeholders that binds parties to commit the funding, resources, and policy work to implement the WAMO plan.
 - Submit compliant plan to DNR.

WAMO v. Trading

WAMO

- Focus: watershed
- Goal: meeting water quality criteria
- Compliance: water quality, via monitoring
- Liability: High
- Flexibility: High

Trading

- Focus: discharge limit
- Goal: meeting permit effluent limits
- Compliance: calculation
- Liability: medium
- Flexibility: low (must conform with framework)

WAMO: Why it works

- Appropriate elements
 - Drivers, priorities, framework concept
- Ancillary benefits
 - Phosphorus reduction strategies with habitat or energy benefits can leverage other stakeholder resources
- Catalyzes collaboration and coordination
 - Federal, state, local agencies, universities
 - Community groups, foundations
- Cost-effective
 - Cost effective solution to phosphorus problems
 - Cost effective alternative to traditional compliance

WAMO: Where it works

Where you have all of the following:

- Watershed capacity and resources to clean up phosphorus nonpoint pollution > cost to clean up phosphorus nonpoint pollution
- Point sources willingness to lead
- Nonpoint source dominated watershed
 - Size of watershed, sources of pollution
 - Possible reductions, targeting considerations
- Sufficient partnerships
 - County, state, and federal agencies/programs, research resources
 - Community resources
 - Parties with TMDL obligations

WAMO: Dane Co Pilot

- Background
- Major stakeholders
- Madison Metropolitan Sewerage District's outline for a WAMO plan
- Pilot project

WAMO in the Red Cedar Basin

- Background
- Major stakeholders
- Potential partners
 - Who's engaged in water quality?
 - Who might be interested in ancillary benefits?
- Pilot project

WAMO: Questions, discussion



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