

Setting the Right Standards & Loading Targets

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Ohio Nutrient Forum Visioning Workshop – November 14, 2012



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Water Quality Criteria

- **State Flexibility**
- **Reflect Local Conditions**
- **Quantifiable Endpoint**
- **Protect Designated Uses**

Source: USEPA , 2000, Ambient Water Quality Criteria Recommendations, Information Supporting the Development of State and Tribal Nutrient Criteria

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Regionalization

Ecoregions

- **History -Biocriteria**
- **Similar Ecosystem Components**
- **Reference Sites**
- **No “One Size Fits All”**

Source: USEPA , 2000, Ambient Water Quality Criteria Recommendations, Information Supporting the Development of State and Tribal Nutrient Criteria

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Nutrient Standard

- Form – Total? Dissolved?
- Background Concentration
- Ecological Response
- Designated Use

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Ohio Nutrient Reduction Strategy

“The task ahead is to find **cost effective** means to reduce the delivery of nutrients present in point source effluents and in NPS runoff from urban and agricultural land use. And this must occur in a manner that does not **interfere** with Ohio’s overall **economic recovery**.”

Source: Nutrient Reduction Strategy Framework for Ohio Waters (DRAFT),
Ohio EPA, November 15, 2011

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Reduction Target

- Realistic
- Attainable
- Areal Based
- Economical



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Load Reduction

- Form
- Sources
- Transport & Delivery
- Management
- Economics
- Lag Time



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