Agenda

Day 1 - Tuesday, Feb 15

8:00  Registration
8:30  Welcome
8:45  Workshop Purpose and Goals
      Menchu Martinez, US EPA Headquarters and Jim Ruppel, US EPA Region 8

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| 9:00  | Overview Session 1 – Programmatic and Scientific Background  
      Moderator: Mike Haire, US EPA HQ |
| 9:00  | Nutrient Effects on Aquatic Ecology, Recreation and Drinking Water Supply: Nutrient and Key Response Indicators  
      Michael Paul, Tetra Tech |
| 9:30  | Nutrients and the Clean Water Act Section 303(d) Listing and TMDL Program  
      John Goodin, US EPA Headquarters |
| 10:15 | Questions and Answers |
| 10:30 | Break |

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| 10:45 | Overview Session 2 – Nutrient Criteria Development  
      Moderator: Mike Haire, US EPA HQ |
| 10:45 | Nutrient Criteria: National Overview/Recent Developments/Look to the Future  
      Dana Thomas, US EPA Headquarters |
| 11:20 | Overview of EPA’s Promulgated Numeric Nutrient Criteria for Florida’s Streams, Lakes and Springs  
      Daryll Joyner and Jan Mandrup-PoulSEN, Florida Department of Environmental Protection |
12:15 – 1:30   Lunch on your own

Listing Session 1 – Assessing and Listing Nutrient Impairments
Moderator: Kim Caviness, Mississippi Department of Environmental Quality

1:30   Results of the National Survey
Sarah Lehmann, US EPA Headquarters

2:00   Listings Based on Narrative Water Quality Criteria
Bill Painter, US EPA Headquarters

2:20   Stressor Identification
Jeffery Frithsen, US EPA Headquarters

3:00   Discussion, Questions and Answers

3:30   Break

TMDL Session 1 – Overview of the Existing Methods for Nutrient TMDL Development
Moderator: Kim Caviness, Mississippi Department of Environmental Quality

3:45   Overview of Findings from Compendium of Nutrient TMDLs
Rosaura Conde, US EPA Headquarters and Jennifer Olson, Tetra Tech

4:15   Quantitative Prediction of Nutrient Effects on Key Response Indicators and Use
Tim Wool, US EPA Region 4

5:00   Adjourn

Day 2 - Wednesday, February 16

8:30   Opening Remarks

TMDL Session 2 – Setting Nutrient Targets
Moderator: Tom Stiles, Kansas Department of Health

8:45   Developing Nutrient Concentration Targets from Narrative Criteria
Bill Painter, US EPA Headquarters

9:00   Setting Water Quality Targets for Phosphorus and Nitrogen
Michael Paul, Tetra Tech
9:30  Pennsylvania Nutrient TMDLs – Using a Weight of Evidence Approach  
Elizabeth Gaige, US EPA Region 3

10:00 Michigan Approach to Setting Nutrient Targets Based on Biological Impairments  
Sylvia Heaton, Michigan Department of Environmental Quality

10:30 Break

10:45 Identification of Nutrient Concentrations and Enrichment Indicators for Application in a Weight-of-Evidence Based Nutrient Water Quality Standard for Ohio  
Bob Miltner, Ohio Environmental Protection Agency

11:15 Development of Biologically Based Total Maximum Daily Loads for Nutrients in the Upper Midwest  
Shivi Selvaratnam, Indiana Department of Environmental Management and Jeff Frey, USGS

11:45 Panel Discussion

12 – 1 Lunch

Concurrent Session 1A – TMDL Modeling Applications  
Moderator: Joni Nuttle, Colorado Department of Public Health & Environment

1:00 Nutrient Modeling Overview  
Dr. Mazdak Arabi, Colorado State University

1:45 Using Load Duration Curves in Nutrient TMDLs  
Bruce Cleland, Tetra Tech

2:05 Water Quality Modeling – Technical Applications Using Mechanistic Models  
Tim Wool, US EPA Region 4

2:40 Nutrient TMDLs for Reservoirs with Limited Data: Assessing Uncertainty Using Monte Carlo Simulation  
Andrew Fang, Oklahoma Department of Environmental Quality

Concurrent Session 1B – State Approaches to Nutrient TMDLs  
Moderator: Mark Osborn, Missouri DNR

1:00 Nutrient TMDLs Issues in Kentucky  
Andrea Fredenburg, Kentucky Division of Water
1:20  Nutrient TMDL Development and Implementation in New Mexico  
Shelly Lemon, New Mexico Environment Department

1:40  North Carolina Nutrient TMDLs: Integrating State and Federal Programs  
Pam Behm, North Carolina Division of Water Quality

2:05  Los Angeles Area Lake TMDLs  
Valentina Cabrera-Stagno, US EPA Region 9

2:30  Expressing Load Allocations for Nutrient TMDLs with Direct Linkage to Implementation Tools  
Kevin Kirsch, Wisconsin Department of Natural Resources

3:00  Break

Concurrent Session 2A – Technical and Regulatory Issues in TMDL Development  
**Moderator: Joni Nuttle, Colorado Department of Public Health & Environment**

3:15  Linking Nutrients and Sediment Oxygen Demand, Souris River TMDL  
Heather Husband Duchscherer, North Dakota Department of Health

3:45  Cutler Reservoir’s Phased TMDL for Nutrients & Dissolved Oxygen  
Michael Allred, Utah Department of Environmental Quality

4:15  Convergence of the Clean Water Act and a Federal Civil Works Project – the Central and South Florida Project Canals  
Kevin Carter, South Florida Water Management District

Concurrent Session 2B – TMDL Implementation  
**Moderator: Amy Walkenbach, Illinois Environmental Protection Agency**

3:15  Addressing Uncertainty in TMDL Implementation  
Tom Davenport, US EPA Region 5

3:45  Development of a Water Quality Trading Framework in Wisconsin for Phosphorus  
Kevin Kirsch, Wisconsin Department of Natural Resources

4:15  Grand Lake St. Mary’s Lake Restoration  
Russ Gibson, Ohio EPA and Tom Davenport, US EPA Region 5

4:45  Adjourn
Day 3 - Thursday, February 17

8:30     Opening Remarks

Implementation Session  
*Moderator: Amy Walkenbach, Illinois Environmental Protection Agency*

9:00     Point Source Reduction Strategies  
         *Joh Kang, Tetra Tech*

9:30     Implementation Strategies for Reducing Nonpoint Source Nutrient Impacts  
         *Russ Gibson, Ohio Environmental Protection Agency*

10:00    eRAMS – A Tool to Integrate Point and Nonpoint Source Reduction Strategies  
         *Dr. Mazdak Arabi, Colorado State University*

10:30    Break

Multi-Jurisdictional Efforts  
*Moderator: Chris Lewicki, US EPA Headquarters*

10:45    Update from the Gulf of Mexico Alliance and the Mississippi River/Gulf of Mexico Nutrient Task Force  
         *Kim Caviness, Mississippi Department of Environmental Quality*

11:05    Multi-Jurisdictional TMDLs – Chesapeake Bay and Others  
         *Mike Haire, US EPA Headquarters*

11:45    Closing Remarks  
         *John Goodin, US EPA Headquarters*

12:00    Adjourn Workshop