

**AGENDA**  
**Nutrients and Water Quality – A Region 8 Collaborative Workshop**  
February 15-17, 2011  
Hilton Salt Lake City Center, Salt Lake City, UT

**Tuesday, February 15, 2011**

Alpine Ballroom

*Day 1: What is the Problem?*

*1:00 pm – Welcome and Overview*

**Mac McKee** (Utah Water Research Laboratory)

**Jim Martin** (EPA Region 8)

*1:30 pm – Perspectives on the Problem*

**Nancy Mesner** (Utah State University) - **Moderator**

**John Stednick** (Colorado State University) – Nitrogen and Phosphorus Dynamics in Natural and Managed Systems

**Bill Lewis** (University of Colorado-Boulder) - Fundamental Issues for Nutrient Regulation

**Lori Sprague** (USGS) - Nutrients in the Nation's Streams and Groundwater, 1992–2004

**Bob Clement** (US EPA) – Understanding the Significance of Nutrient Loading to Drinking Water Treatment

*3:00 pm – Break and Poster Session - Alpine Foyer*

*3:30 pm – Panel Response and Participant Dialogue*

**Nancy Mesner** (Utah State University) and **MaryLou Smith** (Colorado Water Institute) - **Facilitators**

**Todd Ambs** (River Network)

**Richard Fasching** (USDA-NRCS)

**Kristin Gardner** (Blue Water Task Force)

**Leland Myers** (Central Davis Sewer District)

**Florence Reynolds** (Salt Lake City Department of Public Utilities)

*5:30 pm - Reception and Poster Session- Alpine Foyer*

**Wednesday, February 16, 2011**

Alpine Ballroom

*Day 2: What is Being Done About the Problem?*

8:00 am - Welcome

**Amanda Smith** (Utah Department of Environmental Quality)

8:15 am - *Addressing Nutrient Problems: State Overviews*

**Jeff Ostermiller** (Utah Division of Water Quality) - **Moderator**

**Walt Baker** (Utah Division of Water Quality)

**Mike Ell** (North Dakota Department of Health)

**Steve Gunderson** (Colorado Department of Public Health and the Environment)

**Patrick Snyder** (South Dakota Department of Environment and Natural Resources)

**Mike Suplee** (Ph.D. – Limnologist from Helena, MT)

**John Wagner** (Wyoming Department of Environmental Quality)

9:15 am - *Break and Poster Session* - Alpine Foyer

9:45 am – *Common Points Across States: Panel and Participant Dialogue*

**Jeff Ostermiller** (Utah Division of Water Quality) and **MaryLou Smith** (Colorado Water Institute) - **Facilitators**

11:00 am - *Nutrient Reduction and Control Tools – Case Studies on What is Working in Key Sectors*

**Bob Brobst** (US EPA) - **Moderator**

**Al Basile** (US EPA) - Nutrients and Nonpoint Sources

**Dave Clark** (HDR Engineering, Inc.) -Wastewater Nutrient Removal, Sustainability and Permitting

**Trace Robinson** (Riverton City) - Nutrient Removal from Stormwater, is it Practical or Only a Wish?

**Cody Stanger** (CH2MHill) - Nutrient Credit Trading: a Model for Success

**Ron Wiederholt** (North Dakota State University) - AFO/CAFO Regulations: What is Happening on the Ranch?

12:30 pm – *Lunch*

**Mike Wireman** (US EPA) – The Occurrence of Nitrate in Groundwater and the Connection to Nutrient Loading to Surface Water

1:30 pm –*Economic Cost/Benefit Assessment of Nutrients in Surface Water*

**Adam Sigler** (Montana State University) - **Moderator**

**Mary Jo Kealy** (CH2MHill) -Assessing Costs and Benefits Related to Nutrients and Water Quality

**Nanette Nelson** (University of Wyoming) - Quantifying Recreation Benefits from Clean Water

**Paul Krauth** (Utah Division of Water Quality) - Cost of Nutrient Treatment at Wastewater Treatment Plants

2:30 pm – *Break and Poster Session*- Alpine Foyer

2:45 pm - *Break into groups by sector to identify key problems and barriers to successful implementation of strategies to deal with nutrients in water.*

**Ag - NPS**

Alpine Ballroom

Facilitated by: **Jennifer Meints** (US EPA)

Reporter/Recorder: **Jim Bauder** (Montana State University)

**Ag - CAFO/AFO**

Canyon A

Facilitated by: **Ginger Paige** (University of Wyoming)

Reporter/Recorder: **Tommy Bass** (Montana State University Extension)

**Drinking Water**

Canyon B

Facilitated by: **Mike Suplee** (Ph.D. - Limnologist from Helena, Montana)

Reporter/Recorder: **Roxanne Johnson** (North Dakota State University)

**Stormwater**

Canyon C

Facilitated by: **Mike Ell** (North Dakota Department of Health)

Reporter/Recorder: **Adam Sigler** (Montana State University)

**Wastewater**

Topaz

Facilitated by: **David Waterstreet** (Wyoming Department of Environmental Quality)

Reporter/Recorder: **Bob Brobst** (US EPA)

*4:00 pm – Reports by sector*

**Reagan Waskom** (Colorado Water Institute) – **Facilitator**

*4:30 pm - Success Stories*

**Tommy Bass** (Montana State University Extension) - **Moderator**

**Russ Clayshulte** (RNC Consulting LLC) - Bear Creek Watershed Case Study

**Jay Gilbertson** (East Dakota Water Development District) - Big Sioux Case Study

**Michael Luers** (Snyderville Basin Water Reclamation District) - Phosphorus Removal: The Park City Experience

**Mark Petersen** (Utah Farm Bureau Federation) – Utah CAFO/AFO Strategy

*5:30 pm - Reception and Poster Session- Alpine Foyer*

**Thursday, February 17, 2011**

Alpine Ballroom

*Day 3: How Can Stakeholders and Agencies Work Together in Managing the Problem?*

*8:00 am –Agriculture, Stormwater, Wastewater and Drinking Water Stakeholder Panel: Perspectives on Working Together*

**Jeff Ostermiller** (Utah Division of Water Quality) **Facilitator**

**Alan Blaylock** (Agrium)

**Tad Foster** (Colorado Nutrient Coalition)

**Alan Johnstone** (Shields River Watershed Group)

**Jay Olsen** (Utah Water Quality Board)

**Florence Reynolds** (Salt Lake City Department of Public Utilities)

**Don Rutledge** (Colorado Agriculture Commission)

9:00 am - Break into groups by sector to identify possible recommendations for EPA, state agencies and key stakeholder groups.

**Ag - NPS**

Alpine Ballroom

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Reporter/Recorder: **Jim Bauder** (Montana State University)

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Reporter/Recorder: **Roxanne Johnson** (North Dakota State University)

**Stormwater**

Canyon C

Facilitated by: **Mike Ell** (North Dakota Department of Health)

Reporter/Recorder: **Adam Sigler** (Montana State University)

**Wastewater**

Topaz

Facilitated by: **David Waterstreet** (Wyoming Department of Environmental Quality)

Reporter/Recorder: **Bob Brobst** (US EPA)

10:00 am - Break- Alpine Foyer

10:30 am – Facilitated dialog with all workshop participants to develop agreed upon recommendations for EPA, state agencies and key stakeholder groups

**Reagan Waskom** and **MaryLou Smith** (Colorado Water Institute) - **Facilitators**

11:30 am – Closing Speaker

**Walt Baker** (Utah Division of Water Quality)

11:45 am - Workshop Summary and Wrap-up

**Reagan Waskom** (Colorado Water Institute)

12:00 pm – Adjourn