

**Minutes of the  
U.S. Environmental Protection Agency  
Science Advisory Board (SAB)  
Hypoxia Advisory Panel (HAP)  
Public Teleconference  
July 30, 2007**

Committee Members: Dr. Virginia Dale  
Dr. Hans Paerl  
Dr. Bill Crumpton  
Dr. Mark David  
Dr. Richard Lowrance  
Dr. Clifford Snyder  
Dr. Denis Gilbert  
Dr. Walter Boynton  
Dr. Andrew Sharpley  
Dr. Don Wright  
Dr. James Opaluch  
Dr. Kyle Mankin  
Dr. Tom Simpson  
Dr. Alan Blumberg  
Dr. Bob Howarth  
Dr. James Sanders  
Dr. Cathy Kling

Date and Time: July 30, 2007

Purpose: The Hypoxia Advisory Panel will discuss its Draft Advisory.

SAB Staff: Dr. Holly Stallworth, Designated Federal Officer

Other EPA Staff: Darrell Brown, John Wilson

Other: Janice Ward, U.S. Geological Survey  
Dean Lemke, Iowa Department of Agriculture and Land Stewardship  
James Baker, Iowa Department of Agriculture and Land Stewardship  
Cynthia Finley, National Association of Clean Water Agencies  
Alan Plummer, Plummer & Associates

Mark Tomasek, Minnesota Pollution Control  
Wayne Anderson, Minnesota Pollution Control  
Mike Sullivan, USDA Natural Resource Conservation  
Service  
Nancy Rabalais, Louisiana Universities Marine Consortium  
Eugene Turner, Louisiana State University  
Dennis McKenna, Illinois Department of Agriculture  
Bill Hunley, Hampton Roads Sanitation District

### **Meeting Summary**

The discussion followed the issues and general timing as presented in the meeting agenda. Dr. Stallworth convened the meeting and explained the SAB Hypoxia Advisory Panel will operate under the Federal Advisory Committee Act. Dr. Dale reviewed the agenda. There were no requests for public comment.

Dr. Dale then led the HAP in a discussion of the Draft Advisory posted 7-24-07 beginning with Chapter 1 and ending with Chapter 4, Section 4.4. With each successive section, panelists were asked to describe what revisions, if any, were made since the New Orleans meeting (June 13-15, 2007) and what revisions still need to be made in light of the public comments posted at [http://www.epa.gov/sab/panels/hypoxia\\_adv\\_panel.htm](http://www.epa.gov/sab/panels/hypoxia_adv_panel.htm).

In discussing Chapters 1 – 4, panelists touched on issues such as metrics for N and P, characterization of uncertainty, the differences in results between the SPARROW model and calculations of Net Anthropogenic Nitrogen Input (NANI), and data on fertilizer sales.

The following section summarizes action items from the teleconference.

### **Action Items from the Teleconference**

- Dr. Howarth was assigned to look at Section 2.1.7 on Denitrification to see if any of the public comments warrant a revision.
- Dr. Blumberg volunteered to revise Section 2.1.9 on Current State of Forecasting.
- Dr. Crumpton was assigned to revise Section 3.1 on Temporal Characteristics.
- Dr. Simpson will suggest language to strengthen Section 3.2 on Mass Balance of Nutrients.
- Dr. Meyer will re-examine Section 3.3 on Nutrient Transport Processes in light of public comments.
- Dr. Mankin will revise Section 3.4 on Ability to Route and Predict Nutrient Delivery.
- Howarth will revise Section 4.2 on Setting Targets for N and P Reduction.
- Dr. Opaluch will suggest revisions for Section 4.3 on Protecting Water Quality and Social Welfare.

- Dr. David will pursue information on anhydrous fall fertilizer use to go into Section 4.5.6 on In-Field Nutrient Management.

On Behalf of the Panel,  
Respectfully Submitted,

*/Signed/*

Holly Stallworth, Ph.D.  
Designated Federal Officer

Certified as True:

*/Signed/*

Virginia Dale, Ph.D.  
Chair, Hypoxia Advisory Panel