



# Midwest Environmental Compliance Conference

KANSAS CITY CONVENTION CENTER | MISSOURI

April 11-12, 2018

## **Regional Water Issues Panel**

A regional update on water quality standards, nutrients, groundwater issues, regulatory reform, and implications for remediation.

**Day Two - April 12 | 8:40 am – 9:30 am**

**Phil Harvey** | GHD (Moderator)

# The Panel

A regional update on water quality standards, nutrients, groundwater issues, regulatory reform, and implications for remediation.

**Chris Wieberg** | Director, Water Protection Program, MDNR

**Tom Stiles** | Assistant Director, Bureau of Water, KDHE

**Adam Schnieders** | Water Quality Resource Coordinator, Iowa DNR

**Sean McMahon** | Executive Director, Iowa Agriculture Water Alliance

**Rob Morrison** | Vice President, Sr Water Resources Engineer, Barr Engineering

**Aimee Davenport** | Partner, Stinson Leonard Street LLP



IOWA DEPARTMENT OF  
NATURAL RESOURCES



**Chris Wieberg**

Director, Water Protection Program, MDNR

# Relevant Issues | Chris Wieberg

- 1 Missouri Numeric Nutrient Criteria for Lakes
- 2 Lake Ecoregion Values ( $\mu\text{g/L}$ )

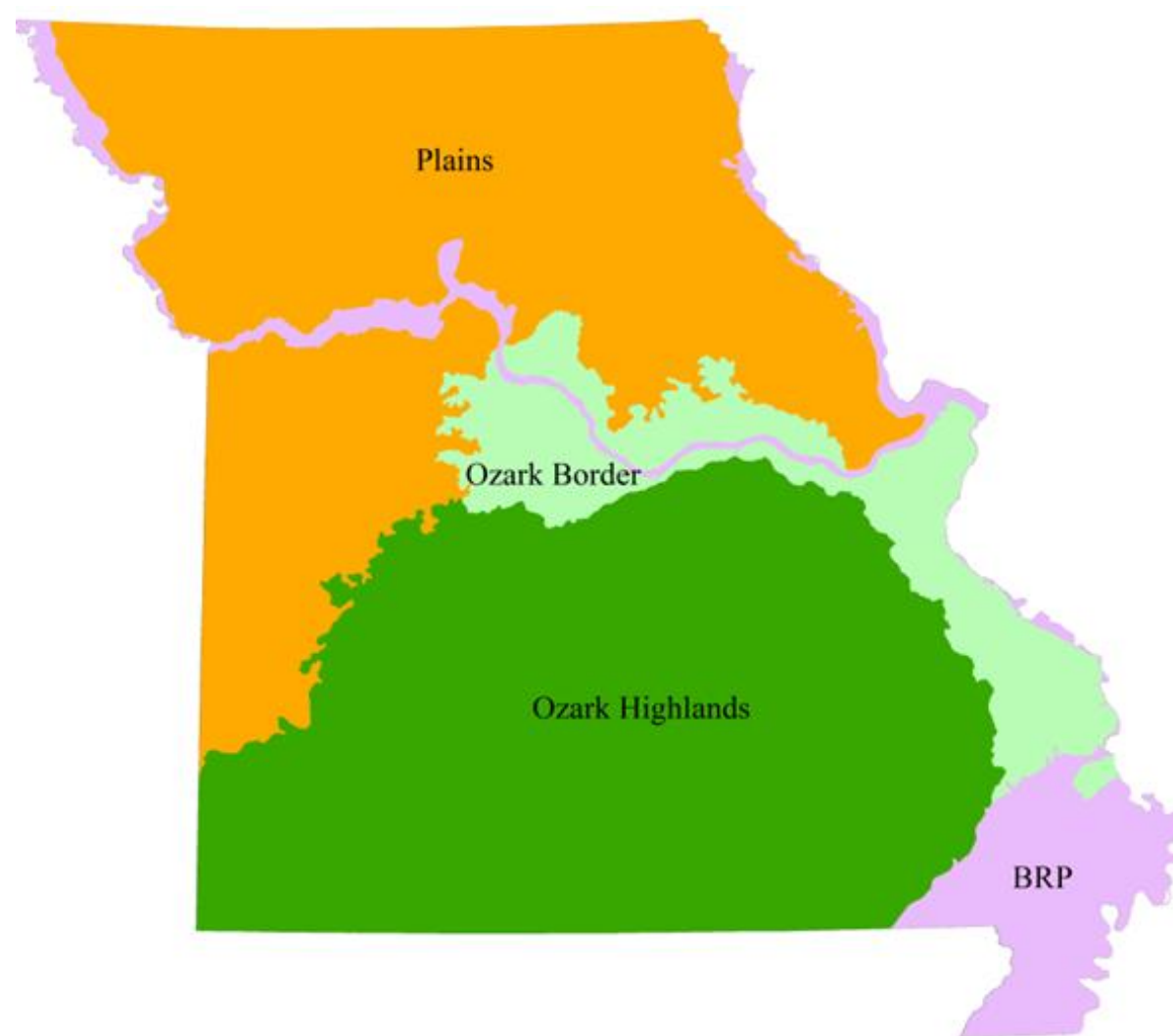
# Missouri Numeric Nutrient Criteria for Lakes





# Lake Ecoregion Values (µg/L)

Lake Ecoregion	Chl-a Response Impairment Thresholds	Nutrient Screening Threshold s		
		TP	TN	Chl-a
Plains	30	49	843	18
Ozark Border	22	40	733	13
Ozark Highlands	15	16	401	6



**Tom Stiles**

Assistant Director

KDHE Bureau of Water

# Relevant Issues | Tom Stiles

- 1 Implementing nutrient reduction through NPDES permits
- 2 Navigating small town compliance through the Clean Water Act
- 3 Public Water Supply Treatment Plants needing NPDES permits



**Adam Schnieders**

Water Quality Resource Coordinator

Iowa DNR

# Relevant Issues | Adam Schnieders

- 1 Nutrient Reduction Strategy - permitting impacts, commitments, new WQ funding
- 2 Aluminum WQS
- 3 316b for powerplants and manufacturers
- 4 Metals WQS shift from total recoverable to dissolved
- 5 Wasteload Allocation Implementation procedures

**Sean McMahon**

Executive Director

Iowa Agricultural Water Alliance

# Relevant Issues | Sean McMahon

- 1 Conservation Infrastructure
- 2 Midwest Agriculture Water Quality Partnership
- 3 Technological Innovations Around Watershed Planning

# Conservation Infrastructure



## Water Quality

### DEFINITION OF SUCCESS:

Conservation practices are economically compelling and easier for farmers and landowners to implement. Increased investments in conservation practices that lead to healthy soil and improved water quality for the benefits of all Iowans and downstream communities.



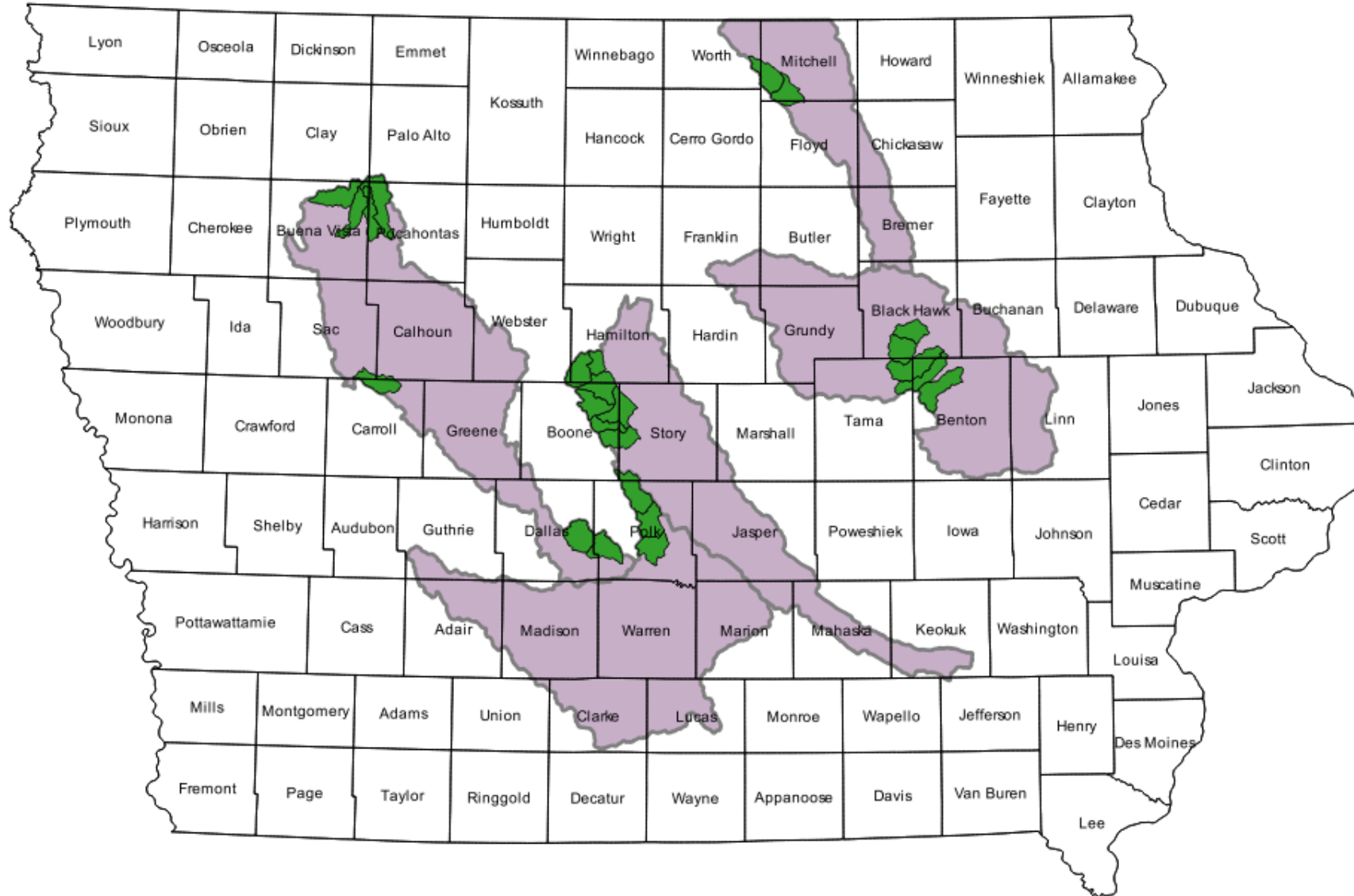
### VISION:

We envision a prosperous, sustainable and resilient Iowa with **HEALTHY SOIL AND WATER** and **ECONOMICALLY VIBRANT COMMUNITIES** that is recognized as **THE** national leader in both agriculture and conservation.



## Economic development

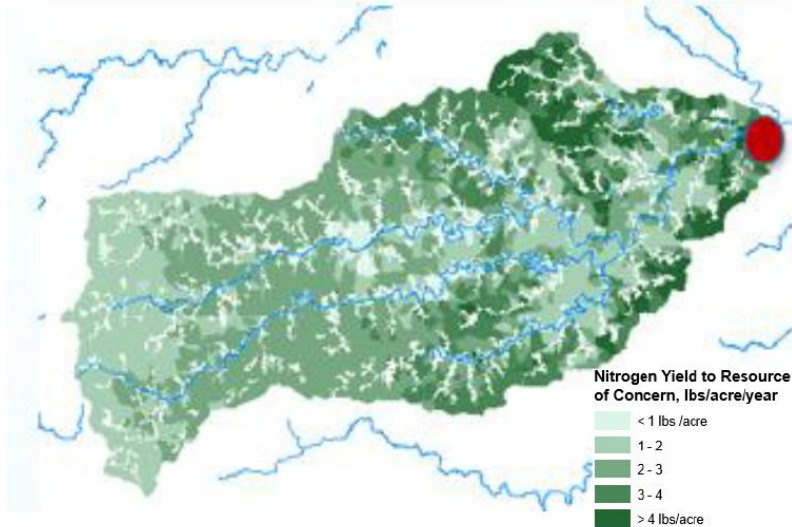
# Midwest Agriculture Water Quality Partnership



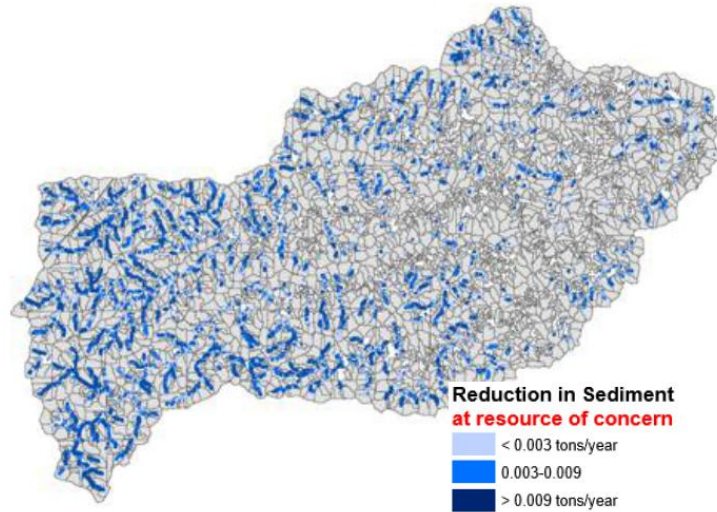


# Watershed Planning – Technological Innovations

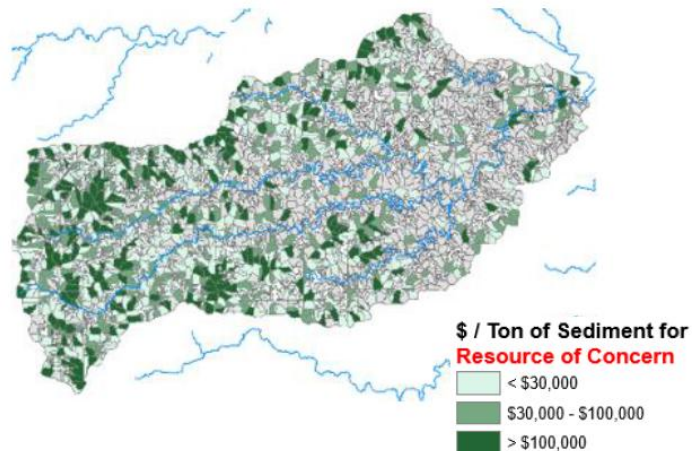
Source Identification and Loads Delivered Downstream



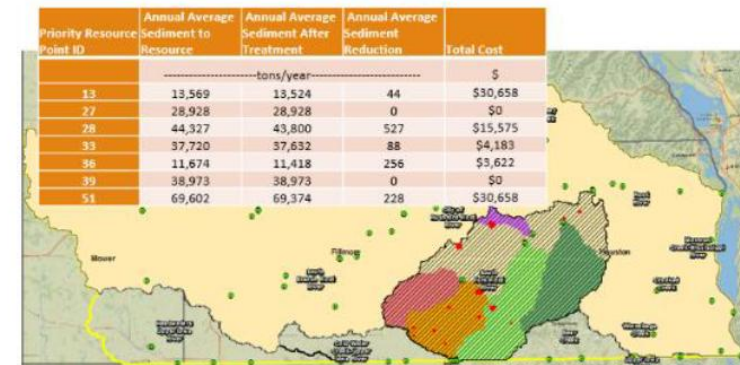
Conservation Practice Effectiveness



Estimate Treatment Cost/Load Reduction



Develop a Targeted Implementation Plan





**Rob Morrison**

Vice President, Senior Water Resources Engineer  
Barr Engineering

# Relevant Issues | Rob Morrison

- 1 Maui County, HI vs Hawaii Wildlife Fund et al 9th Circuit Court of Appeals Decision
- 2 Revisions to federal 304a criteria for chloride/sulfate/aluminum/selenium
- 3 Nutrient Criteria – state vs EPA promulgation
- 4 Implementation of federal 304a criteria for the protection of human health (organism + water)

**Aimee Davenport**

Partner

Stinson Leonard Street LLP



# **Groundwaters...Are They In or Out?**

U.S. Courts Issue Contradictory Rulings



# Relevant Issues | Aimee Davenport

- 1** Groundwaters...Are They In or Out?
  - U.S. Courts Issue Contradictory Rulings

- 2** Nutrients TMDLs
  - 8<sup>th</sup> Circuit Litigation





**Q&A**