



FOURTEENTH ANNUAL

# 2019 MISSOURI WATER SEMINAR

Missouri's Most Important Water Protection Event of the Year

SEPTEMBER 4 & 5, 2019

Stoney Creek Hotel and Conference Center  
Columbia, Missouri

Presented by

**REGFORM** with  
REGULATORY ENVIRONMENTAL  
GROUP FOR MISSOURI



and

STINSON



# Day 1 Program Schedule

Wednesday, September 4

- 7:30 a.m. Registration & Breakfast**
- 8:05 a.m. Welcome**  
ROGER WALKER, Executive Director, REGFORM
- 8:10 a.m. Water Update—The Year in Review**  
A re-cap of the most important issues, developments, and happenings since our last Missouri Water Seminar: Water Forum outcomes, regulation/policy changes, EPA actions, permit appeals, CWC decisions, firsts, and personnel moves.  
ASHLEY MCCARTY, MO Clean Water Commission  
CHRIS WIEBERG, MDNR, WPP Director  
JAY HOSKINS, St. Louis MSD  
ROBERT BRUNDAGE, Newman, Comley, & Ruth  
JEFF ROBICHAUD, US EPA Region 7  
KEVIN PERRY, REGFORM (Moderator)
- 9:00 a.m. Mini Break**
- 9:10 a.m. New Monitoring Requirements for Nutrients**  
Ready or not, new monitoring requirements for nutrients were added during the Red Tape Reduction rulemaking. Monitoring for specific forms of nitrogen and phosphorous is required. Who's in? Who's out? Which industry and other sectors will be most impacted? Do I have to start now or can I wait until permit renewal?  
MIKE ABBOTT, MDNR, WPP
- 9:30 a.m. The State Water Plan—What Have We Learned?**  
MDNR has embarked on an update to the State Water Resources Plan. As required by law, the plan is a long-range, comprehensive assessment of our water resources. They have been evaluating water availability, quantifying demands and needs, and developing options to address those needs with technical expert and stakeholder participation. The report is nearly complete. The target for submission to legislators is February, 2020. This presentation is an overview of the major components of the plan.  
JENNIFER HOGGATT, MDNR  
JESSICA FRITSCHKE, CDM Smith
- 10:15 a.m. Networking Break**
- 10:35 a.m. Water Protection Program Update**  
The WPP Director will update us on recent developments and discuss hot topics, including the Program's work during floods, and priorities and initiatives for the upcoming year.  
CHRIS WIEBERG, MDNR WPP Director
- 11:25 a.m. Beyond the Great Hiatus**  
Is it possible that regulated entities are blissing out on the current pink cloud of cooperation with regulatory agencies to their own detriment? Can you see the pendulum about to swing in the other direction? What should you be doing to get ready for predictable changes that are coming.  
DAVID SHORR, Lathrop Gage
- 12:00 p.m. Lunch**
- 12:55 p.m. Still Waiting After All These Years—Water Quality Standards That Might Have Been**  
The Clean Water Commission adopted a Water Quality Standards rule package more than a year ago. A subset of that package, Numeric Nutrient Criteria for Lakes, has been in the limelight. They are approved by US EPA. But others are on the books and can't be used until US EPA approves. Which ones just got approved? Which didn't? What advantages/disadvantages will regulated facilities experience when these are approved? How is MDNR handling permit requirements while they wait? What should you be doing to get ready for the new standards that are expected to be approved?  
JOHN HOKE, MDNR, WPP
- 1:25 p.m. EPA Region 7 Water Update**  
Join us for a dialog with the Region 7 water director as he explores US EPA priorities and perspectives on water in Missouri and around the Region.  
JEFF ROBICHAUD, US EPA Region 7, Director, Water Division
- 2:10 p.m. Source Water Protection Plan, A Case Study**  
The City of Moberly undertook an effort to better understand its water supply. Learn about the grant they received, the watershed assessment, cooperation with USGS and MDNR, and the stressors identified. Hear about the successes they've had working with stakeholders in the watershed to move toward implementation of their plan.  
ANDREA COLLIER, Barr Engineering
- 2:40 p.m. Networking Break**
- 3:00 p.m. Permit Shield: What It Is and What It Isn't**  
The permit shield should provide certainty for both permittee and regulator, but sometimes there is confusion about what it actually does. This session provides a general overview to try to eliminate common misconceptions.  
JOEL RESCHLY, MDNR
- 3:30 p.m. The Triennial Review—What's on the Agenda?**  
The stakeholder meetings have begun. The requests for stakeholders are in. The Agenda has been set. What's going to be in the rule package for the next Water Quality Standards triennial review? What didn't make it in? What's the timeline? What are the sticky topics that may be difficult to resolve? Will there be many Factor 6 variances adopted in this process?  
ANGELA FALLS, MDNR, WPP

**4:00 p.m. Presumed Use Reviews**  
In 2014 Missouri's water quality standards incorporated over 90,000 additional stream miles with a set of presumed uses. What is a presumed use and how can it impact my permit? MDNR's presumed use reviews: What are they? What aren't they?  
ANGELA FALLS, MDNR, WPP  
COLLIN MACKEY, MDNR, WPP

**4:30 p.m. Reception sponsored by STINSON**  
(Ends at 5:45 p.m.)

## Day 2 Program Schedule

Thursday, September 5

**7:00 a.m. Breakfast**

**7:35 a.m. Welcome to Day Two**  
ROB MORRISON, Barr Engineering

**7:40 a.m. Water Tracing to Understand Flow at Industrial and Waste Sites**  
Water tracing techniques using fluorescent tracer dyes are a safe, easy-to-use, and cost-effective tool for understanding water flow at industrial and waste sites. Tracing can be used to understand groundwater flow systems, water flow between surface waters and groundwater systems, infiltration and exfiltration of sewer systems, and cross connections in industrial piping. Although traditionally identified with karst settings, dye tracing has been used extensively at waste sites in recent years in all kinds of geologic settings: karst and fractured rock, porous media, and sites involving wetlands, storm water, and surface waters.  
SHILOH BEEMAN, GeoEngineers, Inc.

**8:20 a.m. Significance of Bathtub Modeling in Watersheds with Impaired Lakes**  
Now that we have numeric nutrient criteria for Lakes the hard work begins. If a lake is impaired, how do we figure out how to reduce nutrient loading from point sources? What if point sources aren't the problem? BATHTUB is a steady-state water quality model that simulates eutrophication-related water quality conditions in lakes and reservoirs. We'll learn how it works and how it's been employed in other states and other situations. And we'll understand how it will be used in Missouri.  
GREG WILSON, Barr Engineering

**8:50 a.m. The Small Community Assistance Grant to MPA Status and DNR CWSRF Regionalization Status Update**  
Some communities in Missouri are so small they seem to lack the resources to put together an application package for funding and other assistance to help them maintain or upgrade their treatment systems. MPAU applied for and was awarded a 2 year grant to work with some of these municipalities. DNR has completed a policy that will allow for the use of CWSRF funding for the regionalization of wastewater treatment facilities. We know many of the small facilities with fewer rate

payers will have a difficult time upgrading to keep up with new regulatory requirements. DNR is now offering incentives to POTWs to take on smaller facilities. We'll learn what's been happening and what Missourians should expect to see.  
LACEY HIRSCHVOGEL, MPAU  
HANNAH HUMPHREY, MDNR, WPP

**9:10 a.m. Numeric Nutrient Criteria (NNC) Explainer**  
The new NNC have been approved and are in effect. But wait, what's in those rules? How do the two cut points screen for those lakes that are automatically in and those that are automatically out? What's the analysis process for those in the middle? How many lakes in Missouri do we expect will be listed for impairment?  
JAMES CRAWSHAW, MDNR, WPP  
ASHLEY KEELY, MDNR, WPP

**9:35 a.m. Networking Break sponsored by**



**9:55 a.m. Significant Non-Compliance (SNC), What's Happening at the Federal Level and How Can You Stay Out of this Designation**  
SNC is a term used in the CWA and RCRA programs. (HPV—High Priority Violation—is used in the CAA program. Serious Violator is used in the Safe Drinking Water Act program.) These are the most serious levels of violation noted in US EPA databases. EPA's ECHO system indicates that in Missouri 680 facilities that have been inspected in the last 5 years fall into this SNC category. A push to reduce the percentage of SNC facilities has been announced by US EPA, working with the states. DMRs and sludge reports are key targets. Hear about initiatives and strategies the WPP will be using to keep vulnerable facilities off this list and what you can do to avoid it.  
KRISTI SAVAGE-CLARKE, MDNR

**10:30 a.m. NGO Efforts Push for Stronger Water Protection**  
NGOs in Missouri have always been engaged in litigation and community activism. But new groups such as the Missouri Confluence Waterkeeper, new efforts and staffing by the Missouri Coalition for the Environment, and emerging monitoring techniques have enhanced these efforts.  
ROGER WALKER, REGFORM  
HEATHER BROUILLET NAVARRO, Missouri Coalition for the Environment

**10:55 a.m. Biotic Ligand Model vs. Water Effects Ratio**  
The biotic ligand model (BLM) and Water Effects Ratio are tools that can mechanistically predict the bioavailability of a variety of metals under the large range of water chemistry conditions that are observed in nature. They can be used to develop site-specific water quality criteria for use in determining effluent permit limits, or other water quality assessments. Learn from case studies where these methods are being employed and which is most frequently more conservative.  
NICK MUENKS, Geosyntec Consultants

**11:45 a.m. Adjourn**

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[www.regform.org/19WaterSeminar](http://www.regform.org/19WaterSeminar)

	<b>REGISTER NOW</b>	<b>REGISTER LATE/ ON SITE (after 8/10/19)</b>
<b>Standard Rate</b>	<b>\$375</b>	<b>\$425</b>
<b>Government Rate</b>	<b>\$195</b>	<b>\$245</b>
<b>REGFORM Member Rate</b>	<b>\$150</b>	<b>\$200</b>

**CANCELLATIONS** All cancellations received prior to 8/10/19 receive a refund minus a \$50 processing fee.  
Cancellations received on or after 8/10/19 receive a refund minus an \$85 processing fee.  
This refund policy applies to all registrations rates. No-shows will be charged full registration fee.  
Substitutions are welcome at any time.

<b>WHO SHOULD ATTEND?</b>	<b>LODGING</b>
<p>EHS Personnel Utility Directors City Engineers Federal/State Water Professionals Environmental Consultants Environmental Attorneys</p>	<p>Stoney Creek Hotel &amp; Conference Center 2601 South Providence Road Columbia, MO 65203 (573) 442-6400 Guaranteed room rate: \$94/night + taxes/fees Reserve your room no later than 8/10/19 Mention MO Water Seminar</p>

REGISTER TODAY FOR THE **2019 MISSOURI WATER SEMINAR** AT:

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Fees increase by \$50 on August 10, 2019 for all registrations.

We have applied to the Missouri Bar for CLE credits.