N.H. Department of Environmental Services

Drinking Water Source Protection Conference

Thursday, May 18, 2017 (8:30 am – 4:00 pm)
Grappone Conference Center
70 Constitution Avenue,
Concord, NH 03301

In collaboration with
American Ground Water Trust
Concord, New Hampshire
A 501(c)(3) non-profit organization

5.0 Technical Credit Hours for NH Water Works Operators

AGENDA

8:30 – 8:45 AM  WELCOME, CONFERENCE OVERVIEW
  ✦ Pierce Rigrod; Planning, Protection and Assistance Section; Drinking Water and Groundwater Bureau, NHDES

8:45 – 8:55 AM  ANNUAL DRINKING WATER SOURCE PROTECTION AND SUSTAINABILITY AWARDS
  ✦ Sarah Pillsbury, Administrator, Drinking Water and Groundwater Bur., NHDES

8:55 – 9:15 AM  NHDES SOURCE WATER PROTECTION YEAR IN REVIEW
  ✦ Pierce Rigrod, Supervisor, Planning; Protection and Assistance Section; Drinking Water and Groundwater Bureau, NHDES
  2016 Year in Review: Source Protection in New Hampshire

9:15 – 10:00 AM  Status and Update of On-Going Efforts to Address PFCs in New Hampshire
  ✦ Michael Wimsatt, Director, Waste Management Division, NHDES
  Perfluorinated compounds (PFCs) are used in many industries and with EPA’s 2016 drinking water health advisory for PFOA/PFOS, PFCs have become a top issue for New Hampshire. Current status of NHDES’ investigation and mitigation of public health impact will be summarized.

10:00 – 10:45 AM  Drought Management in New Hampshire
  ✦ Brandon Kernen, Supervisor, Hydrology and Conservation, NHDES
  New Hampshire has been experiencing a drought since the Spring of 2016. The state’s role in responding to this natural disaster will be presented.

10:45 – 11:15 AM  BREAK / REFRESHMENTS
### 11:15 – 12:00 PM BREAKOUT SESSION

<table>
<thead>
<tr>
<th>Surface and Groundwater</th>
<th>Land Conservation</th>
<th>Source Protection Practices</th>
<th>Emerging Contaminants</th>
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<tbody>
<tr>
<td><strong>Toxic Cyanobacteria: Challenges for Drinking Water Sources</strong></td>
<td>Funding for Land Conservation</td>
<td>Source Water Protection – What’s It All About?</td>
<td>Responding to PFC Contamination via Biomonitoring and Community Exposure Assessments</td>
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Toxic cyanobacteria blooms have been increasing worldwide threatening the health of wildlife and humans and the integrity of aquatic ecosystems. This presentation will examine the evolutionary origins of cyanobacteria, why they have evolved toxins and the conditions that promote toxic cyanobacteria in our lakes. Problems and management of Harmful Cyanobacteria Blooms (HCBs) in drinking water sources will be discussed. Newly developed methods for monitoring cyanobacteria in drinking water and predicting HCBs will be highlighted.

James Haney, Ph.D, University of New Hampshire

Paul Susca, NHDES Drinking Water and Groundwater Bureau

Kathleen Bush, Ph.D, Division of Public Health Services, NH Dept. of Health and Human Services

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### 12:00 – 1:00 PM LUNCH

### 1:00 - 3:30 PM AFTERNOON SESSIONS—CONCURRENT TRACKS

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<tr>
<td><strong>Early Warning Cyanobacteria Monitoring Program for Public Water Suppliers</strong></td>
<td>Land Conservation Planning for Coastal Water Resource Protection</td>
<td>Tapping into Schools with Real Projects: Education + Water Works!</td>
<td>EPA’s Unregulated Contaminants Monitoring Rule—what's the latest?</td>
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The presence of cyanobacterial populations in surface waters present unique challenges for managers of drinking water supplies. Through EPA’s Cyanobacteria Monitoring Collaborative (CMC), a team from private industry, university, municipal and state agencies developed and implemented a novel monitoring program. This presentation will provide an overview of this program as well as monitoring and management techniques for Public Water Systems.

The Nature Conservancy and partners identified land conservation opportunity areas that provide the greatest benefits to coastal water resources. Opportunity areas, targeted specifically to address threats associated with existing and future development, are focused on pollutant attenuation and removal, flood storage and risk mitigation, and public water supply. This presentation will provide an overview of the analysis and the resulting conservation focus areas.

Education is really effective when students work toward solving problems with real solutions. Opportunities abound to team up to work with local students toward mutual goals of education, data collection, and protection of water resources. This session will highlight examples of how educators have integrated real-world water resources problem into today’s classrooms. You know the data that needs collecting, problems that need solving, marketing materials that need developing. This session will focus on how local students can help you with these real-world challenges?

Session Description TBA

### 1:00 – 1:45 PM

Nancy Leland, Lim-Tex

Kristin Conte, Manchester Water Works

Peter Steckler, The Nature Conservancy

Aubrey Nelson, The Beech Hill School and NH Environmental Educators

Shawn Brodeur-Stevens, Charlestown Middle School

Heather Tiberi, The Beech Hill School

Dawn Dextraze, Sullivan County Natural Resources

Chris Ryan, Drinking Water Branch, USEPA New England Region 1
The Dartmouth Toxic Metals Superfund Research Program will review the new user-friendly website that provides comprehensive information on arsenic in food, water and other sources. The website serves as: a centralized information source for the public and other stakeholders to obtain and share information on sources, exposures, and effects of arsenic; and a tool to help visitors make informed decisions to reduce their exposure to arsenic and improve long-term health.

Land conservation has for centuries been used to protect important drinking water resources. This panel presentation will showcase major conservation initiatives that are benefitting drinking water resources in NH. Panelists will highlight recent conservation projects and focus on successful collaborations between city departments, water systems and land conservation organizations.

NH is experiencing an extended two-year drought affecting certain industries, like agriculture and reducing the availability of drinking water provided by lakes, rivers and aquifers. Efforts to reduce water demand through water conservation practices and outdoor watering bans have helped but impacts on wells and surface water are still significant. This panel will discuss the current drought conditions, evaluate the success of water conservation and leak detection efforts and given practical advice for municipalities and water managers who may need to implement programs to.

PFCs in drinking water have dominated the news in NH and with EPA’s new health advisory, work to determine PFC exposure and health risk and activities designed to mitigate risks from exposure through installation of water treatment or extension of public water services in areas with contaminated groundwater has been taking place across the state. This panel will discuss their work as it relates to the challenges PFCs pose for NH’s drinking water and give their perspectives on the challenges that lay ahead.

Security Considerations for Water Sources

Department of Homeland Security’s Office for Infrastructure Protection will provide information on security considerations for water services. The presentation will cover common vulnerabilities and provide options for consideration to mitigate those vulnerabilities.

2:30 - 2:45 PM BREAK

2:45 – 3:30 PM

Security Considerations for Water Sources (Continued)

3:30 - 4:00 PM EVALUATIONS & NETWORKING