

PFAS IN MICHIGAN - WORKSHOP

Thursday July 26th 2018 GRAND RAPIDS

Focus on:

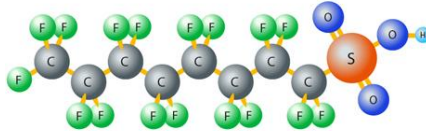
Per- and Polyfluoroalkyl Substances - Contamination of Groundwater Problem assessment and treatment strategies

An educational information-exchange workshop program from the American Ground Water Trust

L. William Seidman Center, Grand Valley State University

1063 Seidman Center 50 Front Street SW, Grand Rapids MI 49504-6424

8:30am - 4:00pm



What the program will discuss:

- Legal basis for regulatory intervention
- Increased sophistication of water quality testing
- Costs of installation and operation of treatment technologies
- Economic impacts on impacted groundwater end-users & utilities
- Summary of latest research findings on health and environmental impacts
- Legal remedies for recovering treatment costs by utilities and water agencies
- Case studies of contamination reduction/ removal that have resulted in wells being put back on-line

Continuing Education

The AGWT will issue Certificates of Attendance:

- Approval Pending by MI DEQ for Drinking Water Operators – .5 CE credits
- Approval Pending by MI DEQ for Wastewater Operators – .5 CE credits

BACKGROUND:

The motivation for this workshop is the AGWT's education mission to provide objective information to facilitate groundwater management decisions. Emerging contaminants, such as the suite of PFAS compounds, represent challenges for dealing with legacy groundwater contamination. Water providers are faced with an urgent need to respond to concerns about health issues, property values, remediation options and infrastructure costs related to the occurrence of these compounds.

There are major challenges faced by individuals and communities, local and state agencies and potential responsible parties relating to Per- and Polyfluoroalkyl Substances in groundwater. The workshop will provide transparency in information with free exchange of legal, hydrological, regulatory and technical opinions. Principal workshop objectives are to assess the magnitude of the problem, review the technology available to treat affected wells, discuss the need for additional regulations, determine effective ways to communicate risk and recover remediation and compensation costs for those affected by this legacy contamination.

PARTICIPATION:

The program is of particular relevance to well owners, community leaders and water utility managers and their board members in areas affected (or potentially affected) by contamination. It is anticipated that workshop attendance will also include, environmental health officials, property transaction specialists, groundwater industry professionals, water engineers, elected officials and entities with regulatory authority at city, county, state, and federal level.

FORMAT:

The workshop will be strictly conducted in a non-confrontational and non-commercial information-exchange format. Presenters include scientists, water providers, water regulators, attorneys, and equipment manufacturers. Following each presentation there will be time for Q&A among all participants. All presenters have been asked to provide information, advice, guidance and insight in an inclusive, generic and non-commercial information-exchange format.

EVENT SPONSORS:



(Visit www.agwt.org/events for information on sponsorship & exhibit opportunities)

7:15 – 8:30 REGISTRATION

8:30 - 8:40

INTRODUCTION: THERE IS A LITTLE BIT OF SOMETHING IN EVERYTHING

Andrew Stone, Executive Director, American Ground Water Trust. Concord, NH

8:40 – 9:15

THE CHEMISTRY OF PFAS COMPOUNDS AND THE EXTENT OF THEIR USE THROUGHOUT THE US

Elizabeth Denly, Quality Assurance & Chemistry Systems Director, TRC Solutions, Lowell, MA

9:15 – 9:50

TESTING METHODS FOR GROUNDWATER IMPACTED BY PFAS AND ASSOCIATED COMPOUNDS

Christopher Impellitteri, PhD, Director, EPA, Safe and Sustainable Water Resources Program, Cincinnati, OH

9:50 – 10:25

HYDROGEOLOGIC STUDIES: PLUME MIGRATION RATES AND CONTAMINANT LONGEVITY OF PFAS COMPOUNDS

Graham Crockford, CPG, PG, Senior Client Service Manager, Remediation, TRC Solutions, Ann Arbor, MI

10:25 – 10:45 BREAK

10:45 – 11:25

EQUIPMENT OPTIONS FOR REMOVAL OF PERFLUORINATED COMPOUNDS FROM GROUNDWATER

Catherine Swanson, Business Development Manager, Evoqua Water Technologies, La Mirada, CA

11:25 – 12:00

NEW HAMPSHIRE'S PFAS GROUNDWATER CONTAMINATION ISSUES: INVOLVEMENT AND RESPONSE OF THE STATE'S DEPARTMENT OF ENVIRONMENTAL SERVICES IN ASSESSING THE MAGNITUDE OF THE PROBLEM, COMMUNICATING WITH AFFECTED COMMUNITIES AND SEEKING DRINKING WATER SUPPLY SOLUTIONS

Brandon Kernen, Supervisor, Hydrology and Conservation, Drinking Water Source Protection Program, New Hampshire Department of Environmental Services. Concord, NH

12:00 – 12:10

Q & A and Discussion

12:10 – 1:00 LUNCH

1:00 – 1:35

AIR EMISSIONS/DEPOSITION AS A POTENTIAL PATHWAY TO GROUNDWATER CONTAMINATION

Stephen Zemba, PhD, PE, Project Director, Sanborn Head Associates, Concord, NH

1:35 – 2:10

SHORT & LONG CHAIN PFAS REMOVAL WITH SINGLE-USE SELECTIVE ION EXCHANGE RESIN

Francis Boodoo, Director of Applied Technologies, Purolite Corporation, Philadelphia, PA

2:10 – 2:45

MICHIGAN DEQ RESPONSE AND PLAN OF ACTION FOR PFAS CONTAMINATION

Abigail Hendershott, District Supervisor, Michigan Department of Environmental Quality, Remediation and Redevelopment Division, Grand Rapids, MI

(No formal afternoon break – coffee & snacks available all afternoon)

2:45 – 3:20

LEGACY CONTAMINATION: PERSPECTIVE ON END-USERS AND MANUFACTURERS RESPONSIBILITIES FOR REMEDIATION

Leah Ziemba, Partner, Energy & Environmental Practice Group, Michael Best & Friedrich LLP, Milwaukee, WI

3:20 – 3:55

SHIFTING CONTAMINATION COSTS FROM RATE PAYERS TO POLLUTERS

Richard Head, Attorney, Of Counsel, SL Environmental Law Group PC, San Francisco, CA

3:55 – 4:00

Q & A and program wrap-up

4:00 ADJOURN