



# INFORMATION-EXCHANGE WEBINAR

An American Ground Water Trust program

## SOLUTIONS TO GROUNDWATER CONTAMINATION

# PFAS AND RELATED COMPOUNDS

## Wednesday, September 2, 2020



**MORNING SESSION 9:00 TO 12:35 – AFTERNOON SESSION 1:05 TO 4:30**

“110 million Americans have some PFAS in their drinking water”

(Estimate from EWG—Environmental Work Group)

### What about water supply in New Jersey, Maryland, Delaware and surrounding states?

This program has been held as a workshop in Cincinnati, OH, Grand Rapids, MI, Sacramento, Montclair, Fresno and Bakersfield, CA, Pittsburgh, PA, Mount Laurel, NJ, Phoenix, AZ, Albuquerque, NM, Westford, MA and Tallahassee, FL and as a webinar for WA, OR, ID, GA and FL.

The American Ground Water Trust (AGWT) is a 501(c)(3) non-profit education organization



### CONTINUING EDUCATION

Continuing education credit:

- Approved for New Jersey Water and Wastewater Operators
- Approved for New Jersey Certified Public Works Managers-DLGS Course #15292, 3 Technical Hrs, 3 Management Hrs
- Pending approval for New Jersey LSRPs, REHLs and Engineers
- Pending approval for Maryland Water Operators and Wastewater Operators
- Pending approval for Delaware Water Operators and Wastewater Operators
- Certificate of Attendance available for all attendees upon completion of CE Form



Many states are confronting contamination of groundwater and surface water from so-called emerging contaminants. There are technical, regulatory and legal challenges for communities responding to groundwater contamination. Water providers are faced with an urgent need to deal with concerns about health issues, regulations, property values, remediation options and infrastructure costs. The webinar will provide objective information to facilitate water providers, elected officials, citizens and community leaders with policy, planning and management decisions.

Over 5,000 PFAS (per- and polyfluorinated alkyl substances) occur in the world today and many PFAS compounds transform into highly persistent perfluorinated chemicals in the environment.

The compounds are connected to several cancers, liver, kidney and reproductive disorders and other health effects.

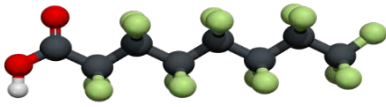


Webinar participants will learn about the chemistry background, sampling & testing protocols, treatment technologies, cost recovery options and the characteristics of environmental persistence of contamination. Presenters will provide case studies of technical solutions for treatment and remediation. The program will also discuss regulatory and legal solutions to protecting drinking water integrity from a range of contaminants and will consider ways to find funding to pay for treatment of contaminated groundwater.

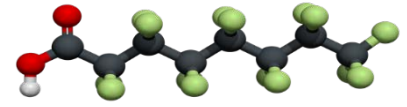
### Join our Webinar Sponsors of American Ground Water Trust PFAS Education Programs:



To become a webinar sponsor, call 800 423 7748 or visit our website for this event at [www.agwt.org/events](http://www.agwt.org/events).



## Webinar Details



**Webinar morning session – 9:00am**

**Wednesday, September 2, 2020**

**8:55am - Log-in available – code provided via email to registered participants.**

### **THE DEPTH AND EXTENT OF PFAS IMPACTS ON WATER RESOURCES**

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

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

Yasemin Kunukcu, PhD, PE, Senior Project Manager, TRC Companies, Inc., New Providence, NJ

### **PFAS: WIDE-RANGING SOURCES AND IMPACTS TO WATER SUPPLIES**

Gregory Schnaar, PhD, PG, Principal Environmental Scientist, Daniel B. Stephens & Associates, Inc., Silver Spring, MD

### **10-minute break**

### **PFAS CHEMISTRY, SAMPLING PROTOCOLS AND LABORATORY ANALYSIS PROCEDURES**

Tom Smith, Lab Manager, ResinTech, West Berlin, NJ

### **PFAS – LESSONS FROM 15+ YEARS OF ISOTOPE-DILUTION PFAS TESTING ON THOUSANDS OF WATER, SOIL AND TISSUE SAMPLES**

Tim Fitzpatrick, Business Development Manager-Environmental Services, SGS AXYS Analytical Services Ltd., Snellville, GA

### **USE OF ADVANCED TECHNOLOGIES TO MITIGATE THE IMPACT OF PFAS ON WATER SUPPLIES**

Dale Wynkoop, Global Director of Sales and Applications, ECT2 (Emerging Compounds Treatment Technologies), Dublin, OH

### **30-minute break for lunch 12:35pm to 1:05pm**

**1:00pm - Log-in available for 1<sup>st</sup> afternoon session – code provided via email to registered participants**

### **EQUIPMENT AND MEDIA SOLUTIONS FOR REMOVING PFAS FROM WATER**

Kelsey Hakes, Business Development Engineer, AqueoUS Vets, Redding, CA

### **AIR EMISSIONS/DEPOSITION AS A POTENTIAL PATHWAY TO GROUNDWATER CONTAMINATION**

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

### **10-minute break**

**2:30pm – Log-in available for 2<sup>nd</sup> afternoon session – code provided via email to registered participants**

### **CARBON AND RESIN CASE STUDIES FOR REMOVAL OF PFAS AND OTHER CONTAMINANTS FROM GROUNDWATER**

Dave Kempisty, Ph.D., P.E., Business Development Manager, Evoqua Water Technologies LLC, Colorado Springs, CO

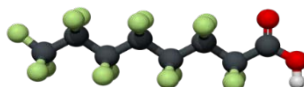
### **TREATMENT SOLUTIONS FOR GROUNDWATER CONTAMINANTS**

Jim Benjamin, Area Manager, Layne Christensen, Mesa, AZ

### **POLLUTER SHOULD PAY: LITIGATION AS A MEANS TO RECOVER COSTS**

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

### **End of Webinar – 4:30pm – CE Form Completion**





# New Jersey, Maryland & Delaware PFAS Webinar

## Wednesday, September 2, 2020

### Registration Form



**Registration and payment can be made on-line at [www.agwt.org/events](http://www.agwt.org/events)**  
**Morning session (9:00am to 12:35pm) and Afternoon session (1:05pm to 4:30pm)**

General Registration      \$200

Continuing Education Units (check if applying for credit)     

**Please send in separate registrations for each person participating in the webinar.**  
**Instructions for webinar log-in will be sent on receipt of registration.**

All registrants will receive pdf copies of the PowerPoint slides used by presenters during the webinar.  
 These pdf files contain detailed information about the presentation topics and are for the personal use of webinar registrants.  
 They will be sent by e-mail the day following the webinar.

**Payment Information:**

**CHECK** [*payable to: AGWT*]       **AMEX/VISA/MC/Discover**       **PO #** \_\_\_\_\_

**AMOUNT AUTHORIZED \$** \_\_\_\_\_

Name on Card \_\_\_\_\_

Card No. \_\_\_\_\_ Expiration Date \_\_\_\_\_

Cardholder Email \_\_\_\_\_

Company Name \_\_\_\_\_

Attendee Name \_\_\_\_\_

Attendee Email\* \_\_\_\_\_

\*The CEU verification process requires that participants are able to receive e-mails during and after the webinar. For participants requiring CEUs, the e-mail address listed above has to be an e-mail that can receive messages during and after the webinar.

Position/ Job Title \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Phone \_\_\_\_\_

**REGISTER ONLINE:**  
[agwt.org/events](http://agwt.org/events)

**MAIL TO:**  
 American Ground Water Trust  
 50 Pleasant Street, Suite 2  
 Concord, NH 03301-4073

**FAX:** (603) 228-6557

**TEL:** (603) 228-5444

**? QUESTIONS:**  
 (800) 423-7748  
 9:00-4:00pm (Eastern Time)

**Register on-line at [www.agwt.org/events](http://www.agwt.org/events)**

**AMERICAN GROUND WATER TRUST**

The AGWT was formed in 1986 as a non-profit education organization with the mission of promoting interest and awareness in groundwater issues. The AGWT's conference, workshop and webinar programs and educational materials:



- ◆ Communicate the environmental and economic value of groundwater
- ◆ Showcase groundwater science and technology solutions
- ◆ Increase citizen, community and decision-maker awareness
- ◆ Facilitate stakeholder participation in water resource decisions
- ◆ Promote efficient and effective groundwater management