

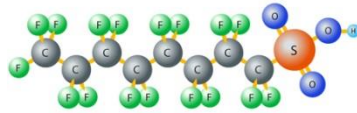
California PFAS Workshop

Understanding California's Newest Notification and Response Levels,
Treatment and Cost Recovery for PFOA and PFOS

Thursday, October 11th, 2018, Sacramento, CA – 8:30am-4:00pm
**Per- and Polyfluoroalkyl Substances - Contamination of Groundwater
Problem Assessment, Regulatory Response and Treatment Strategies**

An educational information-exchange workshop program from the American Ground Water Trust (AGWT) – (a 501(c)(3) non-profit)
Previous AGWT workshops on PFAS issues have been held in Cincinnati, OH, Montclair, CA and Grand Rapids, MI

The Courtyard Marriott Sacramento Midtown Hotel, 4422 Y Street, Sacramento, CA 95817



What the program will discuss:

- **Where and how** - Causes and extent of PFAS groundwater contamination in California
- **What are the risks?** - Summary of latest research findings on health and environmental impacts
- **Drinking water** - Implications for new CA notification levels of 14 ppt (PFOA) & 13 ppt (PFOS)
- **Accurate contamination data** - Increased sophistication and costs of water quality testing
- **Compliance** - Challenges from PFAS inclusion in Proposition 65 list of chemicals
- **Public concern** - Communicating with end-users about the safety of their drinking water
- **Technology fix** - Comparison of methods/equipment available to treat and remediate contamination
- **What are the cost implications?** - Economic impacts on impacted groundwater end-users & utilities
- **Who will pay?** - Legal remedies for recovering treatment costs by utilities and water agencies
- **How are problems being solved?** - Case studies of PFAS contamination reduction/removal



Continuing Education

The AGWT will issue Certificates of Attendance:
Approved for CA Drinking Water Operators – 6.25 contact hours



Join our workshop sponsors!



AMERICAN GROUND WATER TRUST (Non-profit education organization)

Groundwater Information, Awareness & Education Since 1986..... This is what we do:

- ~ Promote efficient and effective groundwater management
- ~ 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



PROGRAM 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.

It is likely that at least 95 percent of the U.S. population has measurable PFAS concentrations in their blood, with human exposure occurring via ingestion, direct contact and inhalation. The compounds are linked to many adverse health effects, including reproductive and developmental toxicity, immune system suppression and some types of cancer.

The workshop will provide transparency in information with free exchange of legal, hydrological, regulatory and technical opinions. There are major challenges faced by individuals and communities, local and state agencies and potential responsible parties. A principal workshop objective is to assess the magnitude of the problem, the technology available to treat affected wells, the need to meet the requirements of new contamination level thresholds and to determine effective ways to cover remediation and compensation costs for those affected by these legacy issues.

7:30 – 8:30 REGISTRATION (Network with exhibitors)

**8:30 – 8:45
THERE IS A LITTLE BIT OF SOMETHING IN EVERYTHING**

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

**8:45 – 9:30
CALIFORNIA'S GROUNDWATER: WHERE DO THE COMPOUNDS COME FROM? AN ASSESSMENT OF THE EMERGING CONTAMINANT ISSUE**

Anthony Brown, CEO & Principal Hydrologist, Aquilogic, Costa Mesa, CA

**9:30 – 10:15
TESTING OPTIONS FOR PERFLUORO-CHEMICALS AND CALIFORNIA FINDINGS TO DATE**

Kevin Calcagno, Northern California Account Manager, Eurofins Eaton Analytical, LLC, Sacramento, CA

10:15 – 10:30 BREAK (Network with exhibitors)

**10:30 – 11:15
RESIN TREATMENT TECHNOLOGY FOR PFAS – A CASE STUDY IN SOUTHERN COLORADO**

Stephanie Schwenke, Engineer, JDS-Hydro Consultants, Inc., Colorado Springs, CO

**11:15 – 12:00
REMOVING PFC & TCP COMPOUNDS FROM SOURCE WATER: CHEMICAL PRINCIPLES OF HOW TREATMENT EQUIPMENT WORKS**

Catherine Swanson, Business Development Manager, Evoqua Water Technologies, Fullerton, CA

12:00 – 1:00 LUNCH (provided) (Network with exhibitors)

**1:00 – 1:45
WATER UTILITY PERSPECTIVE: SERVING CUSTOMERS BY PROACTIVE RESPONSE TO EMERGING WATER QUALITY CONCERNS**

Sunil Pillai, Water Quality Manager, Golden State Water Company, San Dimas, CA

**1:45 – 2:30
SHIFTING CONTAMINATION COSTS FROM RATE PAYERS TO POLLUTERS**

Kenneth Sansone, Attorney, Partner SL Environmental Law Group PC, San Francisco, CA

**2:30 – 3:15
THE PFAS SUITE OF COMPOUNDS: HOW CALIFORNIA WATER PROVIDERS NEED TO RESPOND TO RECENTLY ANNOUNCED NOTIFICATION AND RESPONSE LEVELS**

Helene Baribeau, PhD, Water resources Engineer, State Water Resources Control Board, Division of Drinking Water, Program Management Branch, Technical Operations Section, Sacramento, CA

**3:15 – 4:00
AFTER GROUNDWATER: THE NEXT FRONTIER ON PFAS CONTAMINATION, SEDIMENT, SURFACE WATER AND FISH TISSUE**

Harry Behzadi, PhD, VP of Business Development North America, SGS, Rutherford, NJ

4:00pm WRAP-UP, ADJOURN, (complete continuing education forms)

