

EMERGING GROUNDWATER CONTAMINANT SOLUTIONS

Focus on:

Perfluorochemicals, and 1,2,3-Trichloropropane

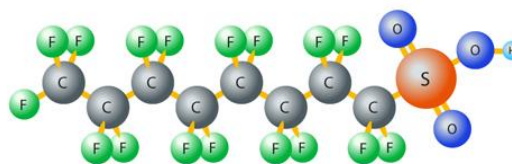
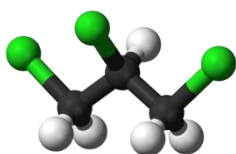
Problem assessment and treatment strategies

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

Hosted by Chino Basin Water Conservation District - 4594 San Bernardino St., Montclair, CA 91763

Wednesday March 21, 2018

Approved for CA Drinking Water Operators – 6.5 Contact Hours



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
- Extent of groundwater contamination by PFCS & TCP in California
- 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

EVENT SPONSORS:



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

EXHIBITORS:

Cotey Chemical, Weck Laboratories, Daniel B Stephens & Associates, Carbonair, AqueoUSVets, BESST Inc., Pureflow Filtration Div., Primozone

AGWT CORPORATE SUPPORT (Patron level and above)



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 PFCS compounds and 1,2,3 -TCP 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.

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 for additional regulations and to determine effective ways to cover remediation and compensation costs for those affected by these legacy issues.

PARTICIPATION:

The program is of particular relevance to 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 organizations, property transaction specialists, health officials, groundwater industry professionals, water engineers 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.

AMERICAN GROUND WATER TRUST (Non-profit education organization)

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

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



7:15 – 8:15 REGISTRATION

8:15 - 8:20

INTRODUCTION: THERE IS A LITTLE BIT OF SOMETHING IN EVERYTHING

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

8:20 – 8:50

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

8:50 – 9:20

GROUNDWATER CONTAMINANTS IN SAN GABRIEL BASIN: THE PROBLEM AND THE RESPONSE

Randy Schoellerman, PE, Senior Engineer, San Gabriel Basin Water Quality Authority, West Covina, CA

9:20 – 9:50

TESTING OPTIONS FOR PERFLUORO-CHEMICALS AND 1,2,3-TCP AND CALIFORNIA FINDINGS TO DATE.

Andy Eaton, PhD, BCES, Eurofins Eaton Analytical, LLC, Monrovia, CA

9:50 – 10:20

REACTING TO NEW TCP REQUIREMENTS - CASE STUDIES IN THE CHINO BASIN

Simon Calvet, PE, Environmental Engineer, Stantec, Pasadena, CA

10:20 – 10:40 BREAK

10:40 – 11:10

TCP LITIGATION IN CALIFORNIA: A BRIEF DISCUSSION OF JURY VERDICTS

Justin Massey, Attorney, Miller & Axline, Sacramento, CA and City Councilmember, Hermosa Beach, CA

11:10 – 11:40

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

11:40 – 12:10

REMOVING PFC & TCP COMPOUNDS FROM SOURCE WATER: CHEMICAL PRINCIPLES OF HOW TREATMENT EQUIPMENT WORKS

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

12:10 – 1:10 LUNCH

1:10 – 1:40

PERSPECTIVE ACROSS AMERICA: EMERGING CONTAMINANTS IN SOURCE WATER – HOW BIG IS THE PROBLEM?

Chad Seidel, PhD, PE, President, Corona Environmental Consulting, Boulder, CO

1:40 – 2:10

LONG TERM MARKET POTENTIAL FOR GROUNDWATER REMEDIATION AND TREATMENT SERVICES IN THE US

Brent Alspach, PE, BCEE, Director of Applied Research, Arcadis, San Diego

2:10 – 2:40

DESIGNING TREATMENT SYSTEMS

Chad Seidel, PhD, PE, President, Corona Environmental Consulting, Boulder, CO

2:40 – 2:55 BREAK

2:55 – 3:45

HOW TO PAY FOR GROUNDWATER TREATMENT AND REMEDIATION

- Navigating the regulatory and political challenges in emerging contaminants: Maywood Case Study
Maria Elena Kennedy, Kennedy Communications, Rancho Cucamonga, CA
- Go the litigation route:
Bill Kelly, SL Environmental Law Group PC, San Francisco, CA

3:45 – 4:00

WRAP UP – CONCLUDING REMARKS: WHAT'S NEXT IN UNREGULATED CONTAMINATION MONITORING IN CALIFORNIA

Chase McLaughlin, PE, Technical Sales Engineer, Evoqua Water Technologies LLC

4:00 ADJOURN

