

DRINKING WATER IN CALIFORNIA'S CENTRAL VALLEY SOLUTIONS TO GROUNDWATER CONTAMINATION



California Water
Institute

CHEMICALS AND COMPOUNDS OF CONCERN

**Perfluorochemicals, 1,2,3-Trichloropropane, Nitrate,
Arsenic, Chrome 6, VOCs, Uranium, and more....**



Workshop programs from the American Ground Water Trust
in cooperation with Fresno State California Water Institute

Fresno (Clovis), August 20, 2019 (8:30 – 4:00)
Clovis Veterans Memorial District
808 4th Street, Clovis, CA 93612

Bakersfield, August 21, 2019 (8:30 – 4:00)
DoubleTree by Hilton Bakersfield
3100 Camino Del Rio Court, Bakersfield, CA 93308

These events are educational information-exchange workshop programs about protecting Central Valley drinking water and finding solutions for groundwater contamination, whether naturally occurring or manmade. The target audience for the program includes managers and operators of water supply and treatment systems, local leaders in business and agriculture, civic and community organizations, and decision-makers with responsibility for citizen health and welfare.

The American Ground Water Trust has completed over a dozen information exchange workshops throughout the US (CA, AZ, NV, NE, MI, OH, PA, NJ, NH, NM) about groundwater quality challenges; including focus on nitrate, Chrome 6, perchlorate, TCP, and the PFAS suite of compounds.



Continuing Education

Approved by the State of CA for Drinking Water Operators - 6 Contact Hours
The AGWT will issue Certificates of Attendance for engineers and other professions



BACKGROUND:

The motivation for this workshop is the AGWT's education mission to provide objective information to facilitate groundwater management decisions. 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 contamination in drinking water sources.

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. Principal workshop objectives are 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 poor quality drinking water.

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.

**In addition to our event sponsors, thank you to our
"Free-Place Registration" sponsors:**

**ABS Energy
California Water Services
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PROGRAM:

7:30 – 8:30 REGISTRATION

8:30 – 8:45

THE CHALLENGE OF INCREASING AWARENES OF TECHNICAL SOLUTIONS TO WATER QUALITY

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

8:45 – 9:15

PERSPECTIVE ON CENTRAL VALLEY DRINKING WATER QUALITY

Thomas C. Esqueda, Associate Vice President for Water and Sustainability, Jordan Agricultural Research Center, Fresno State University, Fresno, CA

9:15 – 9:45

ROLE OF COMMUNITIES IN ASSISTING WITH DRINKING WATER SOLUTIONS

Amanda Monaco, JD, Policy Coordinator - Water Programs, Leadership Counsel for Justice and Accountability, Fresno, CA
Jasmene del Aguila, Policy Advocate, Kern County, Leadership Counsel for Justice and Accountability, Bakersfield, CA

9:45 – 10:15

REGULATIONS IMPACTING DRINKING WATER SUPPLY IN THE CENTRAL VALLEY

Tricia Wathen, PE, Regional Engineer, Central CA Section Chief, SWRCB-Division of Drinking Water, Fresno, CA

10:15 – 10:35 BREAK

10:35 – 11:05

CONTAMINANT WATER TESTING METHODS AND PROTOCOLS – HOW TO INTERPRET THE TEST RESULTS

Martha Maier, Laboratory Director, Vista Analytical Laboratory, El Dorado Hills, CA

11:05 – 11:35

HOW WELL DESIGN AND CONSTRUCTION CAN INFLUENCE WATER QUALITY

Chris Johnson, PG, CHG, Founder and Principal Hydrogeologist, AEGIS, Fresno, CA

11:35 – 12:10

ION EXCHANGE TREATMENT FOR NITRATE, CHROME VI, URANIUM, PFAS

Cathy Swanson, Groundwater Remediation Specialist, Purolite Corporation, Fullerton, CA

12:10– 1:10 LUNCH (provided)

1:10 – 1:40

EQUIPMENT AND MEDIA SOLUTIONS FOR TCP, VOC'S, AND PFAS

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

1:40 – 2:20

THE TREATMENT OF NITRATE AND OTHER CONTAMINANTS IN THE CENTRAL VALLEY

Craig Gorman, PE, Water Process Engineer, Corona Environmental Consulting, Denver, CO

2:20 – 2:50

ACTIVE CONTROL OF THM LEVELS IN DRINKING WATER DISTRIBUTION SYSTEMS

Joshua Kurniawan, Product Specialist, PSI Water Technologies, Inc., Richmond, CA

2:50 – 3:20

SHIFTING CONTAMINATION COSTS FROM RATE PAYERS TO POLLUTERS

Ken Sansone, Partner, SL Environmental Law Group PC, San Francisco, CA

3:20 – 3:50

WHERE WILL THE MONEY COME FROM? - HOW THE PRIVATE SECTOR CAN HELP

Frank J. Gill IV, Senior Business Development Manager, ABS Energy, San Diego, CA

3:50 – 4:00 WRAP-UP and FINAL Q & A

EVENT SPONSORS:

