

INFORMATION-EXCHANGE WORKSHOP

SOLUTIONS TO LEGACY GROUNDWATER CONTAMINATION

PFAS and other emerging contaminants

Albuquerque - Wednesday July 24

State Bar of New Mexico, 5121 Masthead NE, Albuquerque, NM 87199

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

(Estimate from EWG—Environmental Work Group)

What about water supply NEW MEXICO and surrounding states?



The American Ground Water Trust (AGWT) is a 501(c)(3) non-profit education organization
See web-site for registration rates for students and employees of AGWT corporate members



This workshop program has been held in Mt Laurel, NJ, Pittsburgh, PA, Cincinnati, OH, Grand Rapids, MI and in Sacramento and Montclair, CA. Additional workshops will be held in Phoenix, AZ, Fresno and Bakersfield, CA and Westford, MA



Continuing Education

The AGWT will issue Certificates of Attendance:

Approved by NM Environment Department for Water Operators – 6.0 Training Credits



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 workshop program will provide objective information to facilitate water providers, elected officials, citizens and community leaders with policy, planning and management decisions.

Over 4,700 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. Other contaminants resulting from fuel spills, manufacturing processes and improper disposal practices pose additional health risks and are reducing the inventory of economically usable groundwater.

Workshop 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.



Thanks to these event sponsors:



7:30 – 8:30 **REGISTRATION**

8:30 – 8:40

THERE IS A LITTLE BIT OF SOMETHING IN EVERYTHING

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

8:40 – 9:20

USGS INVESTIGATIONS FOR PFAS/PFOS/PFOA COMPOUNDS AND THE DEVELOPMENT OF ANALYTICAL METHODS AND SAMPLING PROTOCOLS

Jeremy Jasmann, PhD, Research Chemist, U.S. Geological Survey, Earth System Processes Division, Integrated Aqueous Chemistry Assessment Lab, Boulder, CO and Kimberly Beisner, Hydrologist, U.S. Geological Survey, Albuquerque, NM

9:20 – 10:00

PFAS: WIDE-RANGING SOURCES AND IMPACTS TO WATER SUPPLIES

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

10:00 – 10:40

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

Caitlin M. Berretta, Business Development Manager - Environmental Solutions, Evoqua Water Technologies, Washington DC

10:40– 11:00 **BREAK**

11:00 – 11:40

EMERGING AWARENESS: MICROPLASTICS IN GROUNDWATER, CARRIERS OF PERSISTENT POLLUTANTS INCLUDING PFAS

James Studer, Principal Consultant, InfraSUR LLC, Albuquerque, NM

11:40 – 12:20

ION EXCHANGE TREATMENT FOR PFAS REMOVAL

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

12:20 – 1:20 **LUNCH ~ Sponsored by Evoqua Water Technologies, LLC**

1:20– 2:00

HYDROGEOLOGIC INVESTIGATION PROCEDURES TO CHARACTERIZE THE NATURE AND EXTENT OF GROUNDWATER CONTAMINATION

Lori Huntoon, PG, Groundwater Monitoring Manager - Tetra Tech / N3B, Legacy Contamination Cleanup Contract, Los Alamos National Laboratory, Los Alamos, NM

2:00 – 2:40

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

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

2:40 – 3:20

AIR EMISSIONS/DEPOSITION AS A POTENTIAL PATHWAY TO GROUNDWATER CONTAMINATION

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

3:20 – 4:00

SHIFTING CONTAMINATION COSTS FROM RATE PAYERS TO POLLUTERS

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

4:00 – 4:15 **WRAP-UP - FINAL Q & A - CONTINUING EDUCATION SIGN-OUT**

