Tribal nations hold some of the best water rights in the West...

...But to use them, tribes often must negotiate settlements that need federal approval.

Tens of thousands of people on the Navajo Nation lack running water in their homes. But that could change in the coming years, as the Navajo-Gallup Water Supply Project goes into effect. It is expected to deliver water to the reservation and nearby areas by 2024, as part of a Navajo Nation water rights settlement with New Mexico, confirmed by Congress in 2009.

Three other Native water settlements currently await congressional approval. They arise from federal legal decisions recognizing that many tribes in the West hold water rights that largely pre-date — and therefore override — the water rights of non-Native settlers.

Many tribal nations are currently asserting those rights as a way to ensure economic vitality, affirm sovereignty and provide basic services that some communities lack. In many places, however, Native water rights have yet to be quantified, making them difficult to enforce. Settlement is usually the preferred remedy; it’s cheaper, faster and less adversarial than a lawsuit, and can include funding for things like pipelines or treatment plants. With settlements, “the tribes are able to craft solutions that work for them and that can be more flexible than anything that could be achieved through litigation,” says Kate Hoover, a principal attorney for the Navajo Nation Department of Justice water rights unit.
TODAY'S STUDENTS ARE TOMORROW'S CITIZENS...

OUR 83rd GROUNDWATER TEACHER PROGRAM HELD IN NEBRASKA CITY, NE
[Over 2,000 teachers and educators in 18 states have been trained]

This was AGWT’s third year of partnering with the Kregel Windmill Factory Museum in Nebraska City for the two-day event. Teachers attending the program were from schools in Nebraska, Missouri, Kansas and Iowa.

Nebraska City’s water supply is from a well-field on the west bank of the Missouri River. After visiting the wells, teachers toured the Nebraska City Water Works (photo) where the water is treated and then pumped to the city’s distribution system.

The two-day training program, funded by a grant from the Richard P. Kimmel & Laurine Kimmel Charitable Foundation, provided science teachers with insights and information about wells and groundwater.

Please give us a call if your company or agency is interested in sponsoring a teacher training program. 800-423-7748

RIVERBANK WATER SUPPLY SYSTEMS
MAXIMIZING AMERICA’S ALLUVIAL AQUIFERS
Design, Construction, Operation and Maintenance of Riverbank Water Supply Systems
AN INFORMATION - EXCHANGE CONFERENCE
Hosted by Sonoma County Water Agency
Wednesday, August 8th, 2018
(Optional field tour, afternoon of Aug 7)

An intense one-day information-exchange program about science, design, engineering and operational issues related to extracting groundwater from unconsolidated aquifers using riverbed and riverbank alluvial aquifers to naturally filter the source water.

The program will showcase case studies from experts in design, construction and operation of riverbank filtration facilities in the Western United States. Discussion will include the characteristics of alluvial aquifer hydrogeology and variable hydrology in the west that influences design and operation of riverbank filtration facilities. Presentations will include examples of current research and studies regarding the effectiveness of riverbank filtration to remove pathogens and other contaminants of concern and the rehabilitation of aging infrastructure. (Register on-line www.agwt.org/events)

MANAGING FLORIDA’S AQUIFERS
18th Annual Two Day Conference
Orlando, FL September 24-25, Florida Hotel & Conference Center
1500 Sand Lake Road, Orlando

This is the AGWT’s 18th annual aquifer recharge program with a focus on Florida groundwater management issues. The event is an essential one-stop-shop for all professionals, end-users and citizens who have an interest in the management of Florida’s aquifers. The program will provide updates on projects and technology innovations and the regulatory framework that allows for the development and the conservation of the state’s groundwater for economic and environmental needs. (Registration is open www.agwt.org/events)
Consider donating anything that moves…..

- Do you want to eliminate the time-consuming task of advertising and trying to sell a vehicle or boat yourself?
- High Mileage? Couple of little dings?
- Tired of looking at vehicles sitting on your lawn?
- Are you moving and have too many vehicles to deal with?
- Are fees for boat storage and mooring becoming a burden?

American Ground Water Trust has partnered with Insurance Auto Auctions, Inc. (IAAI) to process your vehicle donation. Your unused or unwanted vehicle is worth cash for support of American Ground Water Trust’s programs. All funds raised are used to provide education and training programs dedicated to providing and protecting water resources.

Help us help citizens and communities achieve safe dependable and sustainable water supplies.

Just call 1-800-423-7748 or email DonateDirect@iaai.com - to donate your vehicle to the American Ground Water Trust's education mission. Trained staff will walk you through the simple process, and once the paperwork is complete, arrangements will be made for your vehicle to be picked up at no cost to you. Vehicle donations may provide a larger tax deduction than the money you might receive from a "sale-by-owner" …… with no hassle!

6TH GRADER WINS FIRST PLACE FOR DISTRICT SPONSORED WATER SCIENCE COMPETITION

American Ground Water Trust Executive Director, Andrew Stone was one of the Judges of the Water Wise Challenge sponsored by Chino Basin Water Conservation District. The competition is for school students who have completed a science or engineering project that is focused on water conservation in Southern California.

CONGRATULATIONS Pranav Arora!
This 6th grader from Bon View Elementary was the 1st place winner in his age-group!

Photographed, along with Andrew and Pranav, are (left) Becky Rittenburg, CBWCD Community Programs Manager and CBWCD Board Vice-president, Margaret Hamilton.

Do you know why this person is important?

His name is Henri Darcy, and although he died back in 1858 every groundwater professional throughout the world owes him a debt of gratitude. Why?

Well, Henri was the person who developed an understanding of the basic principles of groundwater flow that are used every day in groundwater calculations and aquifer models.

While working out the flow rate of water in sand filters for the French City of Dijon water supply he recognized that flow rate through sand was directly proportional to the "head" or water pressure, and inversely proportional to the distance the water had to travel through the sand filter. He noted that different sizes of sand produced different flow rates. These differences in the characteristic of porous sands are today described as hydraulic conductivity.

“Darcy's Law" for groundwater flow is the basic building block of groundwater science.
ABOUT AMERICAN GROUND WATER TRUST

The AGWT mission is to increase awareness about water resources issues, particularly those that involve groundwater.

By convening and organizing conferences, workshops and focused training programs, the AGWT:

- Promotes efficient and effective groundwater management
- Showcases groundwater science and technology solutions
- Increases citizen, community and decision-maker awareness
- Facilitates stakeholder participation in water resource decisions
- Communicates the environmental and economic value of groundwater
- Provides a safe haven to discuss “difficult” issues

If you have suggestions for groundwater topics and issues for which AGWT public education programs can be of assistance, please email: Andrew Stone, Executive Director - astone@agwt.org

HERMAN BOUWER AWARD:
DAVID PYNE RECOGNIZED FOR A CAREER FOCUSED ON AQUIFER RECHARGE TECHNOLOGY

The Groundwater Resources Association of California and the Arizona Hydrological Society convened the 2018 Biennial Symposium on Managed Aquifer Recharge, held in March in San Diego. Changing weather patterns are forcing water managers to think creatively about water storage options. Where geological conditions permit, using “space” in aquifers to recharge groundwater is a much better option than building expensive surface reservoirs. One of the pioneers of managed aquifer recharge, (MAR) was the late Dr. Herman Bouwer who had a long career as a scientist working at the USDA Water Conservation Laboratory.

The Herman Bouwer Award is presented every two years at the Biennial Symposium on Managed Aquifer recharge in recognition of a person who has significantly advanced the understanding or utilization of Managed Aquifer Recharge.

Andrew Stone, Executive Director of the American Ground Water Trust, nominated David Pyne, President of ASR Systems, Gainesville, FL, for the 2018 Herman Bouwer Award. In remarks made at the 2018 Award Ceremony, Stone highlighted some of Pyne’s many achievements in advancing the adoption of aquifer storage projects in the US and overseas.

“David Pyne’s professional career in water resources engineering has had a huge impact on the application of aquifer recharge technology and has significantly advanced the understanding and utilization of Aquifer Recharge. With the growth in nation-wide implementation, ASR has become an accepted technical term and for many water professionals throughout the World, the name David Pyne and ASR have now become synonymous.

David has been involved with aquifer recharge projects in at least twenty overseas countries and has given direction and technical input for almost half of the approximately 140 ASR well fields in the US and has been involved with or provided substantial technical guidance during the development of many water supply and aquifer recharge master plans. David has been a tireless advocate for aquifer recharge technology and its many beneficial applications.”

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Our Patron Sponsors (Investors at $5000+ level)

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