RIVERBANK WATER SUPPLY SYSTEMS MAXIMIZING ALLUVIAL AQUIFERS

Design, Construction, Operation, Maintenance and Treatment of Riverbank Filtration Water Supplies – Finding the Right Fit AN IN-PERSON INFORMATION EXCHANGE CONFERENCE



April 2022 – 8:15am – 4:30pm Robert J Mohart Center, 3200 Wayne Avenue, Kansas City, MO

Convened by: American Ground Water Trust [A (501(c)(3) education non-profit organization] www.agwt.org

In cooperation with Kansas City Water





~ Tour WaterOne Riverbank Supply System ~

FREE pre-conference tour of the WaterOne Riverbank Supply System (new date and time coming soon). Tour limited to 20 people and is only available for conference attendees. Register at www.agwt.org/events.





Continuing Education

Approved for **MO Drinking Water Treatment and Distribution Operators** – Course #2201037, 6.5 Training Hours
Approved for **KS Water Treatment Operators** – **5 CEHs**



Approved by Kansas Ground Water Association for **KS Water Well Contractors** – 6.5 Hours The AGWT will issue Certificates of Attendance for engineers and other professions

"With changing climate likely to affect groundwater recharge, a riverbank location for dependable water supply seems like the best bet"

DESCRIPTION:

An intense one-day information-exchange program about science, engineering and economic issues related to extracting groundwater from unconsolidated alluvial aquifers. The program will showcase case studies from experts in design, construction and operation of vertical wells, slant wells, collector wells and galleries. Discussion will include:

- Characteristics of alluvial aquifer hydrogeology that influence design options
- How site conditions influence construction and installation costs of collector wells
- Treatment and system maintenance operation costs compared with direct surface water supply
- Regulatory issues for groundwater under the direct influence of surface water (GWI)
- Track record of operation and maintenance of riverbank water supply installations

BACKGROUND

Unconsolidated sand and gravel aquifers are typically developed utilizing vertical water wells. But what if the aquifer is relatively thin or large quantities of water are required and available space for a wellfield is limited? Many engineers and planners have turned to large diameter wells to develop water supply. This one-day program focuses on water supply strategies and engineering solutions that are designed to tap alluvial aquifers. This program is for water supply operators, groundwater consultants, engineers and designers, infrastructure planners, high-yield water users, government officials and decision makers involved in all aspects of water supply.



AGWT Corporate supporters and event sponsors.
Additional sponsors and exhibitors welcome.

7:30am – 8:15am REGISTRATION (coffee & pastries)

8:15 - 8:30

GLOBAL & HISTORICAL PERSPECTIVE ON RIVERBANK FILTRATION FOR WATER SUPPLY Andrew Stone, American Ground Water Trust, Concord, NH

8:30 - 9:05

EVALUATING CAPACITY AND YIELD OF ALLUVIAL WATER SUPPLY SYSTEMS D. Douglas Haney, PE, PG, Consulting Hydrogeologist, Olathe, KS

9:05 - 9:40

MIDWEST UTILITIES CHOOSE HORIZONTAL COLLECTOR WELLS TO SOLVE MANY CHALLENGES

Jeff Henson, PE, Associate Vice President and Director of Water Resources, Black & Veatch, Kansas City, MO

9:40 - 10:15

WATER QUALITY FOCUS ON RIVERBANK FILTRATION PROJECTS
Henry C Hunt, PG, Regional Director, Roscoe Moss Company, Charleston, SC

10:15 - 10:35 BREAK

10:35 - 11:10

USING MODELING TO ESTIMATE ALLUVIAL WELLFIELD YIELDS

Luca DeAngelis, PE, PG, Senior Hydrogeologist, Ranney Collector Wells/Layne, Olathe, KS

11:10 - 11:45

OWNERS PERSPECTIVE ON RIVERBANK FILTRATION - ST. JOSEPH AND INDEPENDENCE, MO
Mark Griffin, PE, Senior Engineering Project Manager, McClure Engineering Company, Kansas City, MO

11:45 - 12:20

COMPARISON: TREATING SURFACE WATER VS RIVERBANK FILTRATION WELL WATER Sarah Tuite, PE, Process Engineering Manager, WaterOne, Kansas City, MO

12:20 – 1:20 LUNCH - Sponsored by Reynolds Construction

1:20 - 1:55

ADVANCES IN INSPECTION, MAINTENANCE, AND OPERATION OF RBF COLLECTOR WELLS

Matthew Reed, Project Manager & Hydrogeologist, Ranney Collector Wells/Layne, Yellow Springs, OH

1:55 - 2:30

DESIGN AND CONSTRUCTION OF REGIONAL (MULTI-STATE) RBF WELL SUPPLY Jim Auen, Operations Manager, Lewis & Clark Rural Water, Tea, SD

2:30 - 2:45 BREAK

2:45 - 3:20

FACTORS INFLUENCING CONSTRUCTABILITY AND COST OF HORIZONTAL COLLECTOR WELL SYSTEMS Greg Slone, Vice President, Collector Well Group, Reynolds Construction, LLC, Orleans, IN

3:20 - 3:55

INCREASING RAW WATER SUPPLY THROUGH REDEVELOPMENT OF A 50-YEAR-OLD WELLFIELD Lorrie Hill, Water Production Operations Manager, City of Olathe, KS

3:55 - 4:30

ENSURING SUSTAINABLE DEVELOPMENT OF ALLUVIAL WATER SUPPLIES THROUGH BALANCED WATER POLICY

Daniel Clement, PG, Senior Hydrogeologist, Burns & McDonnell, Wichita, KS

4:30 WRAP-UP and ADJOURN

Registration, Exhibit and Sponsorship Form Riverbank Filtration Systems Conference – April 2022

(Register online at agwt.org/events)

General Registration	\$265
Employees of AGWT Corp Member	\$230
Local, state, or federal government	\$230
Full-Time Student (ID required at Registration)	\$ 50
PDF of Presentations (Post Conference) – Attendee Pricing	\$ 30
Exhibit Table (Personal Registration also Required)	\$250
WaterOne tour limited to 20 people (first come-first served basis).	
Tour details will be emailed to registered attendees.	\$ 0

HOW TO REGISTER

- → Mail: American Ground Water Trust, 50 Pleasant St, Ste 2, Concord, NH 03301
- → Fax: (603) 228-6557
 → Register on line:

http://www.agwt.org/events or click here (if using online)

Questions: Call (800) 423-7748 (9am-4pm eastern standard time)

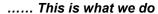
Cancelation policy - see website

	SPONSOR LEVELS: \$ 2,000 ☐ \$ 1,000 ☐ \$500 ☐ \$1,000 and above sponsors have the option of a complimentary registration or exhibit table. Complimentary registration? YES ☐ NO ☐ Do you plan to exhibit? YES ☐ NO ☐	
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PAYMENT: □ CHECK [payable to: American Ground Water Trust] □ CREDIT CARD □ PO		
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AMERICAN GROUND WATER TRUST

Independent authority on groundwater (Non-profit, 501 (c)(3) education organization)

Ground Water Information. Awareness & Education Since 1986



- ~ 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

