

GRANITE STATE OPERATOR

Fall 2006

GRANITE STATE RURAL WATER ASSOCIATION NEWSLETTER

Operator Field Day Educational, Fun & Successful



Who We Are

Since 1982, the staff of Granite State Rural Water Association has supported water and wastewater systems across the state. We provide many services including training, source water protection planning and onsite technical assistance.

Contact us

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www.gsrwa.com

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GSRWA Meter Toss Winners



1st Place – 65' 5"
Rick Clarke, Peterborough



2nd Place – 58' 8"
Fred Yeaton, Plymouth Village



Rain didn't stop these early morning set-ups



Fun and games for attendees



Vendor Demonstrations



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Our Commitment  Our Profession

ED CORNER

by Jack Shields

There are two significant events to report on this past quarter. One, as you see from our front page, was the very successful Operator Field Day held at the Mount Sunapee Resort in Newbury NH on August 24th. The second was our first anniversary as a newly formed rural water association here in NH. You have already seen the front page so I'll write about the second event.

The first year of any organization is usually a tough one. There is all the business of getting started, hiring staff, getting health and liability insurance, establishing office procedures and staying out of trouble with the myriad of labor and auditing rules and regulations. In addition, we have to meet the performance requirements of our funding agencies, USDA and USEPA. I am happy to report that we have met all of our requirements for the past year.

Just a quick rundown of our efforts: 840 technical assistance visits by our water circuit riders; 5 Sourcewater Protection Plans for the towns of Bow, Gilford, Surry, Canaan and the Cold River Watershed; 300 technical assistance visits by our wastewater technician; 13 Wellhead Protection Plans; and our training and technical assistance specialist provided 150 onsite visits including 44 visits for LOD's and an additional 95 hours of approved training.

Quite a lot of work has been accomplished in the past year and we anticipate that the next year will be the same. Our immediate goals are to increase our membership, establish and improve our relationships with other organizations for better networking and to find ways to make us less dependent on federal funds to accomplish our mission.

You can help us by promoting us to other water and wastewater systems, by attending our events and training sessions and by keeping us informed of issues that are a concern for you. After all, this is YOUR association, we just work here!

TRAINING EVENTS

Corrosion Management

Date & Location:
10/4/06 at Lebanon College, Rm 108
Cost: \$50 non-members
\$40 GSRWA members

Chemical Feed Pumps O&M

Date & Location:
10/16/06 in Meredith
Cost: \$40 non-members
\$32 GSRWA members

Process Instrument Verification By HACH

Date & Location:
10/17/06 in Franklin
Cost: \$100 non-members
\$80 GSRWA members

Water & Wastewater Analysis By HACH

Date & Location:
10/18/06 in Franklin
Cost: \$100 non-members
\$80 GSRWA members

Basic Electrical Workshop

Date & Location:
10/23/06 at Cardigan Mtn School,
Canaan
Cost: \$60 non-members
\$48 GSRWA members

Intermediate Excel (credit in NH is wastewater only)

Date & Location:
10/26/06 in Hinsdale
Cost: \$60 non-members
\$48 GSRWA members

Hydrant & Valve Maintenance

Date & Location:
11/2/06 in N. Conway
Cost: \$40 non-members
\$32 GSRWA members

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Quiz Corner By Vinnie Melendez

True or False

1. **T or F** A predominance of rotifers and worms indicates young sludge.
2. **T or F** Samples for total phosphorus are digested at the same temperatures as those for COD.

Multiple Choice

- | | |
|---|---|
| <ol style="list-style-type: none"> 3. The chemical that is most commonly used for the control of algae is:
 A Aluminum Sulfate
 B Calcium Hypochlorite
 C Copper Sulfate
 D Sodium Chloride 4. Samples for turbidity analysis may be held for _____ hours.
 A 4
 B 6
 C 24
 D 48 5. By continuously withdrawing chlorine, how many pounds per day can be withdrawn safely from a 150 lb cylinder at room temperature without the line freezing?
 A 10 lb/d
 B 40 lb/d
 C 70 lb/d
 D 100 lb/d 6. A mutagen causes _____.
 A cancer
 B genetic changes
 C birth defects
 D skin lesions | <ol style="list-style-type: none"> 7. A reduced-pressure-zone backflow preventer will
 A Stop backsiphonage but not backpressure
 B Stop backpressure but not backsiphonage
 C Stop backpressure and backsiphonage
 D Stop air from getting into system 8. Required sample containers, preservation techniques and holding times are found in _____.
 A 40 CFR
 B 29 CFR
 C SARA
 D None of the above 9. Precision charts show _____.
 A How close results are to a known
 B How close are to each other
 C Process control trends
 D None of the above 10. The recommended distance for horizontal separation of water mains and sewer lines is _____ ft.
 A 5
 B 10
 C 20
 D 30 |
|---|---|

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NH WATER METER'S FIND THEIR WAY TO EL SALVADOR

By Scott Clang

In July, State Rural Water affiliates were asked to provide assistance and training, through International Rural Water, to small communities and villages located in El Salvador to upgrade their water systems. National Rural Water's Environmental Engineer, Bill Kramer, specifically asked for used or rebuilt water meters to help provide a water meter system for managing water use and unaccounted for water in remote villages throughout Central America.

Granite State Rural Water and the Sanbornville Water Department responded to the call. Sanbornville Board Commissioners Dean Giffin and Dave Tibbitts donated a number of used water meters they had on hand. The first two meters were sent to Lupe Aragon, Circuit Rider for New Mexico Rural Water Association.

Lupe volunteered his time to go on-site to El Salvador to train personnel in the installation and maintenance of the water meters. Lupe installed the first two and they are working great. According to Lupe, "The Salvadorans are very grateful and looking forward to getting additional ones installed". Approximately 50 additional 5/8 X 3/4 inch water meters were then boxed up and sent to NRWA's national office for processing to El Salvador.

If you have used water meters that are in good shape and are interested in donating these meters to a good cause, please contact Granite State Rural Water Association at 753-4055 and we would be happy to pick them up. Thanks to all who played important water is cholesterol free, has no calories and contains no saturated fat. So drink up... it's Quality on Tap!

BREAKING NEWS: NEW MEMBERSHIP OPTION

GSRWA is pleased to announce that we now offer an **Individual Membership** option.

Many water systems have staff at different locations and not everyone gets the important training announcements and newsletters needed.

NOW YOU CAN!

This option is perfect for additional staff at a Member System, an Operator working along the border who needs to keep their NH license or anyone interested in receiving our publications.

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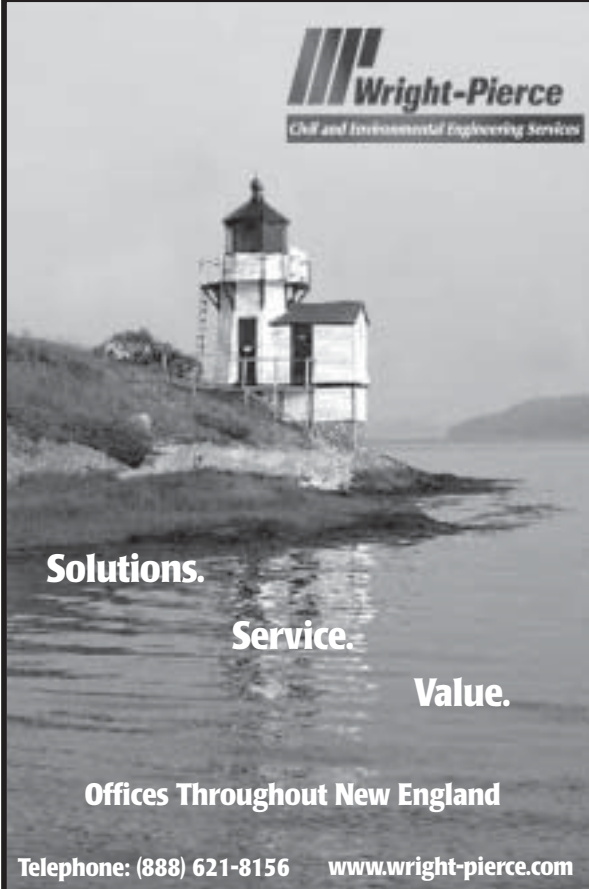
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ANSWERS TO QUIZ

- 1. F
- 2. F
- 3. C Copper sulfate
- 4. D 48 hrs
- 5. A 40 lb/d
- 6. B Genetic defects
- 7. C Stop back pressure and back siphonage
- 8. A 40 CFR
- 9. B How close results are to each other
- 10. B 10

References: California State University (Treatment plants/Small wastewater system O&M). American Water Works Association: Operators Study Guide. New England water environment Association; Wastewater Laboratory Analyst Study Guide.



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EFFORTS UNDERWAY TO PROTECT DRINKING WATER RESOURCES IN CANAAN

In order to safeguard the Town's public drinking water source, the Town of Canaan recently completed a watershed protection plan for Canaan Street Lake. The Town's water system serves approximately 600 people, residents and local business alike, and has existed since 1890.

Water is pumped from the Canaan Street Lake to three slow sand filtration boxes at the water treatment plant. Once the water is filtered, it is disinfected and piped to a 294,000-gallon storage tank for distribution to the system's 192 service connections. In February 2006, Canaan's Board of Selectmen appointed a Drinking Water Protection Committee to develop the watershed plan. Granite

State's Source Protection Specialist, Heidi Brannon, guided the Committee through the seven month planning process, helped them identify potential sources of contamination, and assisted with the development of specific recommendations to manage water quality threats. This resulted in a protection plan with sound and practical recommendations which are now being implemented by the Town. According to Town Manager, Dana Hadley "We are very excited to have such a valuable tool to use for the protection

of this very important resource for our community". This is a positive step for preservation of this resource
Continued on pg 7



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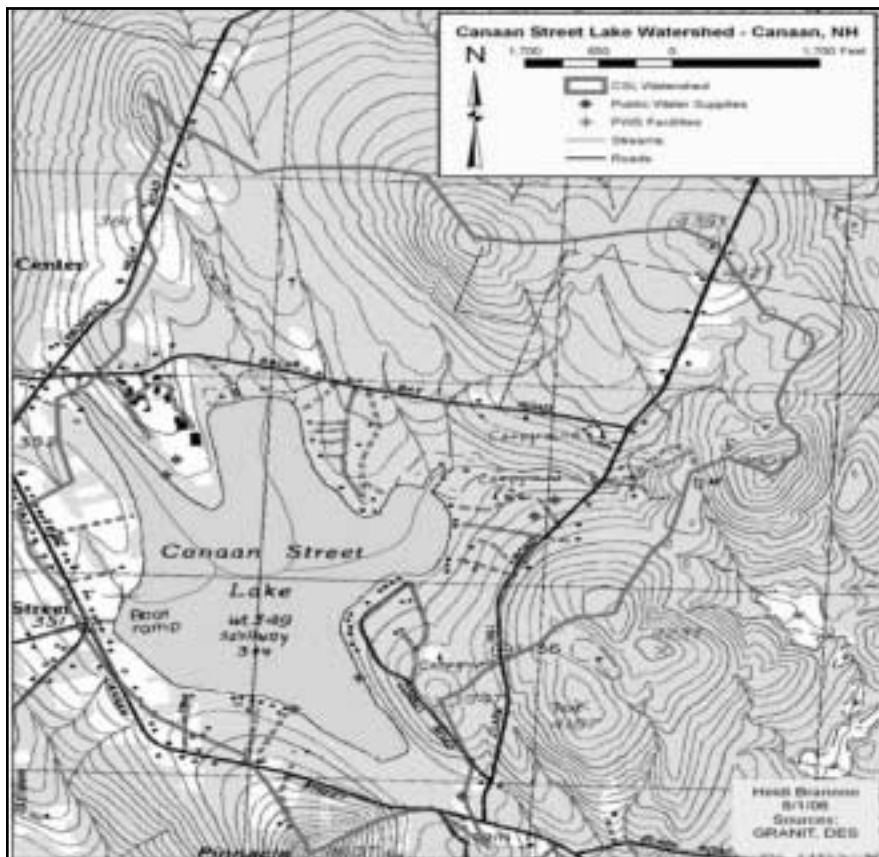
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and planning for the future. “Heidi from Granite State kept us on track and moving forward. We couldn’t have done it without her,” said Committee Member John Bergeron. Overall the Committee found that the Canaan Street Lake Watershed is in good condition, however, recent data suggest that water quality is diminishing. Increasing conductivity values suggest that surrounding land uses are having an effect on Canaan Street Lake. Road salt is a probable factor. The Committee focused its efforts on four types of threats to the Lake: (1) transportation corridors, (2) septic systems, (3) recreational uses, and (4) lack of land use management. Sample recommendations include resolving drainage issues and reducing the amount of de-icing agents on roads, conducting an education and outreach campaign about the proper use and maintenance of septic systems, and adoption of a Watershed Protection Area which encompasses prohibiting contaminating land uses, addresses stormwater management, and limits the amount of impervious cover within the Watershed. For more information about the Canaan Street Watershed Protection Plan, or if you would like source protection assistance contact Jennifer Palmiotto, GSRWA at (603) 753-4055.

STAFF UPDATES

On September 1st we welcomed back **Jennifer Palmiotto** from maternity leave. Jen resumes her position as USDA Source Water Specialist.

On the same day we said goodbye to **Heidi Brannon** who did an exceptional job covering for Jennifer. Heidi leaves us to start a new job for the City of Farmington, New Mexico.

Publication Information

Granite State Operator is the official publication of GSRWA. It is published quarterly for distribution to operators, managers and board members of water and wastewater systems in New Hampshire, as well as to associate members, regulators and other friends. Opinions expressed in the newsletter do not necessarily reflect the views and policies of GSRWA.

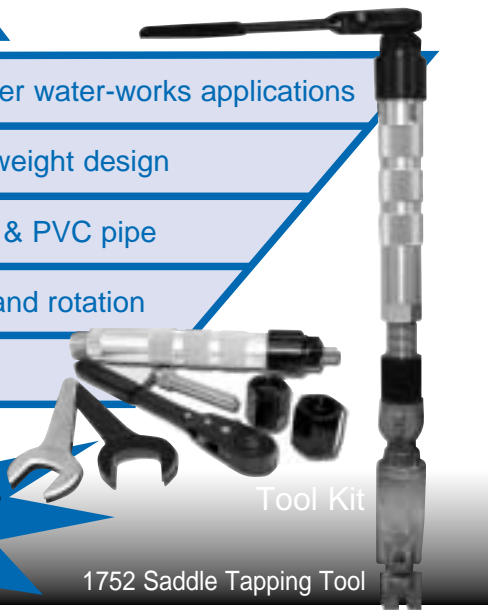
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