A newsletter of the Virginia Household Water Quality Program and Virginia Master Well Owner Network

WellInformed



Volume 3 Issue 2

September 2011

Virginia Master Well Owner Network continues to grow!

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Following successful trainings this year in Richmond for extension educators and in Harrisonburg for volunteers, we are thrilled to announce that the Virginia Master Well Owner Network has grown to III people (see map on p. 3 to find out where our volunteers and educators are!). Our network now reaches 55 Virginia counties and 4 independent cities through the work of 72 volunteers and 39 extension educators. Thank you and welcome to our new members!

In addition to training volunteers and county extension educators (specializing in Agriculture and Natural Resources or Family and Consumer Sciences), representatives of the Virginia Department of Health and Virginia Department of Environmental Quality Northern Regional Petroleum Tank Staff attended our training in Richmond. We are looking forward to working with these experts to better serve Virginians reliant on wells, springs and cisterns.

We are extremely fortunate to have demonstration equipment donated to us for use in our trainings, including a well casing with a cutout, well pump, sanitary and traditional well caps, grout samples, and a pressure tank with cutout. These pieces are invaluable contributions to our



program, and made a huge difference to our training participants in Harrisonburg, allowing them to easily visualize the components that compose a properly constructed water well. Special thanks to CMC Supply, Inc. of Christiansburg, Fenton Well and Pump Service of Blacksburg, and Rorrer Well Drilling of Christiansburg

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Photos: Wayne Fenton volunteers as a guest speaker, explaining proper well construction and maintenance in Harrisonburg. Top: pointing out a well casing and pump. Left: explaining the function of a home pressure tank.

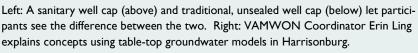




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for providing these donations, and to the Virginia Water Well Association for their continued support of our programs! In each training workshop, we are amazed at the variety of knowledge and experience people bring, the insightful questions they ask, and their passion to learn more about protecting groundwater resources. Special thanks to our guest speakers this year: Curtis Bordewyk, Curtis Well Drilling; Brad White, Dept. of Environmental Quality; George Harlow, U.S. Geological Survey; and Wayne Fenton, Fenton Well and Pump Service.







Wells, Earthquakes and Fracking, oh my!

For more on Hydraulic Fracturing and Potential Risks to Groundwater, please see our November 2010 Well Informed issue (Vol. 2, Issue 2)

Could my well water have been affected by the recent 5.8 earthquake in Virginia? Yes. Whether you were close to the epicenter in Mineral, or miles away, your well could have experienced a variety of changes. Magnitude, depth, distance from epicenter and hydrogeology (type and form of rock, location of water, etc) as well as your well depth, its construction and aquifer type will all play a role in how your drinking water is affected. Water level changes (both rapid and slow) decreases and/or increases may be observed. Wells have gone dry after earthquakes. Water may become tur-

bid (filled with sediment), feel or taste different, change colors and/or smell. Water could also become contaminated if the well itself is damaged due to a quake.

What should I do? Anytime you notice changes in your water, have your water tested by a certified lab. At a minimum, test for coliform and E. coli bacteria. If you are concerned about potential damage to your well casing, pump, grout or any other part of the system, have your well inspected by a water well system provider. For more information on specific issues, visit the resources page of our Virginia Household Water Quality Program website (www.wellwater.bse.vt.edu).



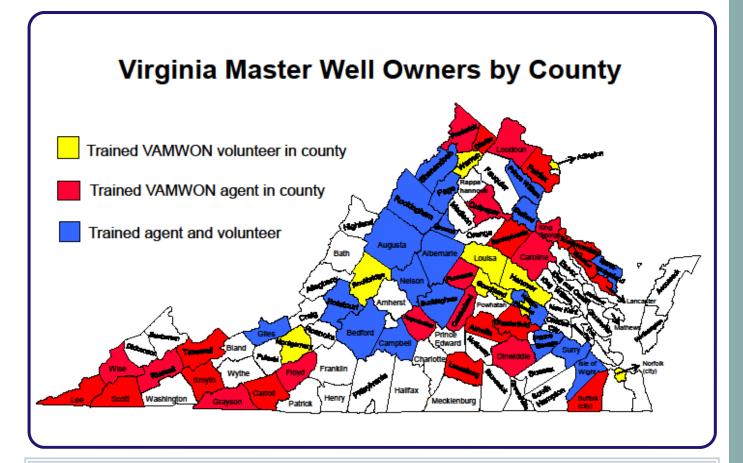
Is there any relationship between fracking activities and earthquakes?

While there is speculation as to whether hydraulic fracturing (fracking) may cause

large earthquakes, studies by the United States Geological Survey (USGS) do show that the process has caused smaller episodes. "The thing that can induce larger earthquakes is the high-pressure waste fluid injection that's done in some places." said Mike Blanpied, scientist at USGS, referring to disposing of the fracking waste water into deep injection wells. "Just to be clear," he said, "the connection between fracking and fluid injection and earthquakes is an area of active research and really we're only starting to learn about how those things are connected."

Resources: http://www.realaspen.com/article/828/Scientists-study-link-between-fracking-and-earthquakes; http://gallery.usgs.gov/videos/441; http://pubs.usgs.gov/fs/fs-096-03/





Well-come new members of the Virginia Master Well Owner Network!

Albemarle Giles Karen Poff* **Stafford** Loraine Morris Diane Reaver **Prince William** Margret Dascenzo **A**melia Thomas Bolles* Kim Elkins* Hanover Porter Knight lane Henderson* **Richmond City Suffolk Arlington Fredericksburg** Janet Spencer* Kemper Loyd Alex Wardle Daniel Dobson Danna Revis Surry Isle of Wight **Richmond County** Janet Spencer* Augusta Sandy Greene Janet Spencer* Kathleen Watson* Warren **Buckingham** Rockbridge Wendy Calvert King George Jennifer Ligon* Pegi Wright* Sharon Kirk Westmoreland Kathleen Watson* Campbell Lancaster **Rockingham** Kathleen Watson* Susan Plank Cheryl Marshall * = Extension Educator **Caroline** Bruce Ritchie Lunenburg **Shenandoah** Pegi Wright* Donna Daniel* Chesterfield **Northumberland** Russell Kohrs Linda Cole* Kathleen Watson* Karen Poff* Clark **Spotsylvania** Kim Elkins* Karen Poff* Charles Newton

Upcoming Events	Details	Contact
Master Well Owner Network VOLUNTEER Training	Southwest Virginia December 2011	Erin Ling: eiling@vt.edu 540-231-9058 Visit www.wellwater.bse.vt.edu to complete an application today!
Lunenburg and Nottoway County Drinking Water Clinics	NOTE DATE CHANGE Kickoff Meeting: 9/12/11 Sample Collection: 9/21/11 Interpretation Meeting: Week of 10/18/11	Donna Daniel: ddaniel@vt.edu (434) 696-5526 Please pre-register for this event!
Buckingham County Drinking Water Clinic	Kickoff Meeting: 9/19/11 Sample Collection: 9/21/11 Interpretation Meeting: Week of 10/18/11	Jennifer Ligon: <u>iligon@vt.edu</u> (434) 969-4261 Please pre-register for this event!
Spotsylvania and Stafford County Drinking Water Clinic	Kickoff Meeting: Mon 10/17/11 Sample Collection: Wed 10/19/11 Interpretation Meeting: Mon 11/21/11	Kim Elkins: KimElkins@vt.edu John Howe: jhowe@vt.edu (540) 507-7570 Please pre-register for this event!



Soil and Water Conservation Society, Virginia Chapter Annual Meeting

Coal, Uranium and Natural Gas Extraction in VirginiaExtraction methods, laws, rights, regulations and impacts on land and water resources

Comfort Inn Monticello, Charlottesville Thursday, Oct 20, 9am - 4pm

For more info, visit www.bse.vt.edu/swcs/ or email klinek@vt.edu

Important! Master Well Owner Volunteers:

Ensure that your hours of service and hard work are accounted for! Your Accomplishments and Numbers of Contacts are needed. Please visit http://www.wellwater.bse.vt.edu/protected/volunteers.php today. Thanks!

Interested in volunteering too? Visit http://www.wellwater.bse.vt.edu/become a mwo.php today!



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Our objective is to improve the water quality and health of Virginia families reliant on private water supplies.



Virginia Cooperative Extension

A partnership of Virginia Tech and Virginia State University

