

The Driller's Digest

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This newsletter is published as a service to certified well contractors and others in the groundwater industry. Suggestions for articles for publication in the newsletter are welcome.

Revised Well Construction Form (GW-1)

By Eric Smith, P.G., NCDENR/DWQ

The North Carolina Division of Water Quality (DWQ) has recently unveiled the newly revised well construction record (GW-1). The new form is available on the Aquifer Protection Section website at portal.ncdenr.org/web/wq/aps/gwpro/reporting-forms. This revised form combines the old Residential Well Construction Record (GW-1a)

and Non-Residential Well Construction Record (GW-1b) into one form. Some other additions to the form include allowing for multiple wells with the same construction to be submitted on one form and a box to check for well repairs.

Please begin phasing out use of the old GW-1a and GW-1b forms as soon as possible. If you have any questions please contact Eric G. Smith, P.G. with the Division of Water Quality's Aquifer Protection Section by phone at (919) 807-6407 or by email at eric.g.smith@ncdenr.gov.

Tracking Permit Applications and Finding Permitted Facilities

by Thomas Slusser., P.G., DENR/DWQ

Over the past several months the Department of Environment and Natural Resources (DENR) has been developing two interactive maps; one for permit application and one for permitted facilities. The permit application interactive map will help permit applicants and others find applications, track the permitting process, and contact staff reviewing the application. Once a facility is removed from the permit applications map after the permit is issued, it then appears on the permitted facilities map. These two mapping tools work together and there are various ways to search for permits, such as by applicant name, permit type, county, facility name, and existing permit number (for renewals or modifications).

The interactive mapping tools for injection, monitoring, and other wells regulated by the Division of Water Quality are available online at portal.ncdenr.org/web/wq/permit-process under "Application & Permit Tracking". Here are examples of how to use the mapping tools:

- Application Tracking Map – From the first drop-down box select "Permit Type". From the second drop-down box choose from options under the Deemed Ground Water Permits and Ground Water Permits headings. After selecting a permit type click on the Show on Map button.
- Permitted Facilities Maps – From the first drop down box select "Permit Type". From the second drop-down box choose a permit type of interest. After selecting a permit type click on the Show on Map button.

The maps display a dot at the location where a proposed permitted facility would be located. Clicking on the dot activates an information display for the facility that shows the facility name, address, permit number, permit type, and other details.

These maps are a great way to find permit numbers for use on Well Construction and Abandonment forms, and for verification that permit-by-rule notifications have been received. Give the maps a try and let us know if you need some help!

Summary of Civil Penalty Assessments

Penalties for violations of NCGS Chapter 87, Article 7 & 7A vary depending upon the particular facts and circumstances present in each case. Note: only finalized uncontested cases or cases not seeking remission and at the collection stage are included in this list (payment of fines and corrections of violations may already have occurred).

Eddie Edwards

Beaufort County, NC. Allegations of contracting without the benefit of certification in violation of 15A NCAC 27. Assessed a civil penalty of five hundred dollars (\$500.00).

Effective Date 2/28/13 Case # WCC 001-13

Dwight Respass

Washington County, NC. Allegations of contracting without the benefit of certification in violation of 15A NCAC 27. Assessed a civil penalty of two thousand five hundred dollars (\$2,500.00).

Effective Date 3/6/13 Case # WCC 002-13

Dwight Respass

Beaufort County, NC. Allegations of contracting without the benefit of certification in violation of 15A NCAC 27. Assessed a civil penalty of one thousand five hundred dollars (\$1,500.00).

Effective Date 3/6/13 Case # WCC 003-13

Arthur McDuffie

Richmond County, NC. Allegations of contracting without the benefit of certification in violation of 15A NCAC 27. Assessed a civil penalty of three thousand dollars (\$3,000.00).

Effective Date 2/28/13 Case # WCC 005-13

David Brewer

Guilford County, NC. Allegations of contracting without the benefit of certification in violation of 15A NCAC 27. Assessed a civil penalty of five hundred dollars (\$500.00).

Effective Date 2/21/13 Case # WCC 007-13

Richard McFadden, Jr.

Guilford County, NC. Allegations of contracting without the benefit of certification in violation of 15A NCAC 27. Assessed a civil penalty of five hundred dollars (\$500.00).

Effective Date 2/21/13 Case # WCC 008-13

Design 'Em, Install 'Em

by Lorna Withrow, PE, DHHS/On-Site Water Protection

Groundwater monitoring wells have an important role in the effort to protect our waters and the public health. Groundwater wells are used to monitor some of the septic systems in North Carolina. Septic systems are designed to slowly disperse wastewater to the subsurface so that the soil can provide additional treatment. There are required setbacks (distances) that must be maintained between septic systems and water sources. Even the best designed, located, constructed, and maintained septic system can potentially introduce contaminants into the groundwater.

According to North Carolina Cooperative Extension Service, AG-441-4 (1996), septic systems are the largest source by volume of waste discharged to the land. Contamination of shallow aquifers by nitrates and synthetic organic chemicals is widespread in many areas. The shallowest aquifers generally bear the greatest risk of contamination, especially those where the overlying unsaturated zone is thin and permeable.

The main objective of installing groundwater monitoring wells around septic systems is to help detect any contamination that may originate from wastewater disposal. Properly constructed monitoring wells provide controlled access to allow the collection of groundwater samples that are representative of the groundwater aquifer located at some depth under the system.

If proper design and techniques are not used during the installation and development of these wells, then the wells may not be sufficient for the intended monitoring purpose. For example, contaminants may inadvertently be introduced to the groundwater. Also, surface infiltration from run-off, as well as solvents and drilling fluids, can pose a viable threat to the reliability of groundwater samples. Early detection of contamination due to improper treatment by the septic system is crucial in helping prevent or lessen environmental and public health threats. So help protect our drinking water sources and recreational waters. Design 'em and install 'em the proper way.



Specialty Grout, Alternate Well Disinfection, and Well Rehabilitation

by Eric Smith., P.G., DENR/Division of Water Quality

On August 10, 2012, a new policy was enacted that describes the process for getting the following approved by the State:

- 1) Specialty grout under 15A NCAC 02C .0107(e)(1) (F);
- 2) Alternate methods and materials for disinfecting a well under 15A NCAC 02C .0111(b)(2); and
- 3) Well rehabilitation by non-continuous chemical treatment methods and materials under 15A NCAC 02C .0112(g)

The policy can be viewed on our website <http://portal.ncdenr.org/web/wq/aps/gwpro/policy>. So far, we have approved two specialty grouts for use in geothermal applications. However, we have not received any requests to approve alternate well disinfection or well rehabilitation methods and materials. Therefore, you should not be using any products specifically marketed toward well disinfection (other than chlorination) or well rehabilitation without our prior approval. We will maintain a list of these approved items on our website.

Attend On-Site Conference For Free

by Andrew Morgan, WCC Staff

Scholarships to the 2013 NCSU On Site Water Protection Conference are available to NC certified well contractors. The conference will be held October 8-10, 2013 at the NCSU McKimmon Center in Raleigh, NC. To apply, visit our website and download a WCC-18 scholarship application. Hurry, only 20 scholarships are available to cover the conference registration fee of \$195.00 and the application deadline is August 1, 2013. Please remember scholarships are awarded by the WCCC Review Committee and approved through the Department of Health and Human Services (DHHS).

New Website Address

By Joanne Rutkofske, WCC Staff

Our website address has changed to a more standardized form from the previous www.ncwelldriller.org to the new www.wellcontractors.nc.gov.

Please update your references with the new web address. The old website address will be phased out over the coming year.

North Carolina Well Contractors Certification Commission

1653 Mail Service Center / Raleigh, North Carolina 27699-1653

Telephone: (919) 707-5883 Fax: (919) 845-3973

Commission Members

John Boyette, NCWC -Wilson

Casey Champion, REHS, NCWC, **Chairman** -Oxford

Chris Dickey, NCWC, **Vice Chairman** -Murphy

Daniel Ortiz, REHS -

Paul Weller, NCWC -Rougemont

Thomas Whitehead, NCWC -Wilmington

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Terry Pierce, REHS (919) 707-5875 (Interim Supervisor)
Terry.Pierce@dhhs.nc.gov

Certification Today

Total number certified.....1170

Total number of applicants for certification.....54

Certifications currently suspended.....0

NC Division of Water Quality Aquifer Protection Section (APS)

<http://portal.ncdenr.org/web/wq/aps>

Asheville 828-296-4500

Fayetteville 910-433-3300

Mooresville 704-663-1699

Raleigh 919-791-4200

Washington 252-946-6481

Wilmington 910-796-7215

Winston-Salem 336-771-5000

NC Department of Health and Human Services(DHHS) Division of Public Health Environmental Health Section

<http://www.deh.enr.state.nc.us>

N.C. DHHS is an equal opportunity employer and provider.

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1653 Mail Service Center
Raleigh, NC 27699-1653

ADDRESS CORRECTION REQUESTED

Online at www.wellcontractors.nc.gov

New Commissioner

By Joanne Rutkofske, WCC Staff

At the Nov. 2, 2013 meeting of the NC Well Contractors Certification Commission, Daniel Ortiz took his place on the Commission, replacing John Nykamp as county health department representative. Commissioner Ortiz is an REHS from Cumberland County.



Daniel Ortiz being sworn in by Chairman Champion



Chairman Champion presenting plaque to John Nykamp in appreciation of his years of service to the Commission

Report Uncertified Well Contractors to the local health department or call (919) 707-5882