



# NEW HANOVER COUNTY

## 2007 WATER QUALITY REPORT

NEW HANOVER COUNTY 421 WATER SYSTEM

PWS ID # NC 04-65-191

### What's This About?

New Hanover County is required by the EPA to provide this consumer confidence report on an annual basis. This report is designed to inform you about the quality of water and services we deliver to you every day. Our constant goal is to provide you with a safe and dependable supply of drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to insuring the quality of your water. The New Hanover County 421 water system utilizes ground water from two wells, located off of Fredrickson Rd., that pump water from surficial aquifers. For additional information on our water sources, see SWAP information on the back of this page.

### Pass It On

Businesses and landlords are requested to pass this information on to their tenants or customers. Please post this in a visible location. Additional copies of this report can be obtained by calling (910) 798-7139 during regular business hours or stopping by 230 Government Center Dr. Suite 160. Copies are also available on the web at [www.nhcgov.com/AgnAndDpt/ENGG/Pages/WaterSystems.aspx](http://www.nhcgov.com/AgnAndDpt/ENGG/Pages/WaterSystems.aspx), and then follow the links. Thank you for helping us to provide this information to all who use our water.

### Keeping in Touch

If you have any questions about this report or concerning your water utility, please contact **New Hanover County Engineering Department at (910) 798-7139**. We want our valued customers to be informed about their water utility. If you want to learn more, the Water and Sewer District Commissioners meet during County Commissioners meetings. They are generally held on every first Monday of each month at 6:00pm and every third Monday of each month at 9:00am in the Assembly Room of the New Hanover County Courthouse located at 24 North Third Street - Room 301 Wilmington, NC 28401. Check the web for changes at [www.nhcgov.com/AgnAndDpt/CCOM/Pages/Deptinfo.aspx](http://www.nhcgov.com/AgnAndDpt/CCOM/Pages/Deptinfo.aspx).

#### EN ESPAÑOL

Este informe contiene la información muy importante sobre su agua. Haga por favor que un amigo lo traduzca para usted.

This Report Contains Important Information About the Quality of Your Drinking Water.

### Important Information!

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline (800-426-4791).

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbiological contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity. Contaminants that may be present in source water include **microbial contaminants**, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife; **inorganic contaminants**, such as salts and metals, which can be naturally-occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming; **pesticides and herbicides**, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses; **organic chemical contaminants**, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban storm water runoff, and septic systems; and **radioactive contaminants**, which can be naturally-occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water which must provide the same protection for public health.



NEW HANOVER COUNTY ENGINEERING  
WATER / SEWER  
230 GOVERNMENT CENTER DRIVE SUITE 160  
WILMINGTON, NC 28403

### IMPORTANT TELEPHONE NUMBERS

**Water - Sewer Finance** 910-798-7162  
(Billing)

**Engineering** 910-798-7139  
**Water - Sewer** (M-F 7:30am to 5pm only)  
(Maintenance, Water Leaks, Water Problems, etc.)

**Emergency** (Nights and Weekends) 910-341-4110

## Detected Contaminants

New Hanover County routinely monitors contaminants in your drinking water according to Federal and State laws. The table below summarizes the testing results for detected contaminants for the year 2007. Some tests are not taken every year and therefore may have an older date. More information about these substances and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking water Hotline at 1-800-426-4791 or on the web at [www.epa.gov/safewater/](http://www.epa.gov/safewater/). The purpose of unregulated contaminant monitoring is to assist EPA in determining the occurrence of unregulated contaminants in drinking water and whether future regulation is warranted.

Regulated Contaminants (units)	MCLG	MCL	YOUR WATER	RANGE LOW / HIGH	VIOLATION	SAMPLE DATE	TYPICAL SOURCE
<b>Disinfection By-Products Contaminants</b>							
TTHM [Total Trihalomethane] (ppb)	N/a	80	8	N/a	No	July 2007	By-product of drinking water chlorination.
HAA5 (ppb) [Total Haloacetic Acids]	N/a	60	3	N/a	No	July 2007	By-product of drinking water disinfection.
Chlorine (ppm)	MRDLG= 4	MRDL = 4	0.5	0.5 / 0.5	No	Jan – Dec 2007	Water additive used to control microbes.
<b>Secondary Contaminants * February 2005</b>							
Contaminant (units)	SECONDARY MCL	YOUR WATER	RANGE LOW / HIGH				
Manganese (ppm)	0.05	0.029	N/a	* Secondary Contaminants, required by the NC Public Water Supply Section, are substances that affect the taste, odor, and/or color of drinking water. These aesthetic contaminants normally do not have any health effects and normally do not affect the safety of your water.			
Ph	6.5 to 8.5	7.6	N/a				
Sodium (ppm)	N/a	29	N/a				

This second table contains unregulated contaminants, for which the EPA has not established drinking water standards. The purpose of unregulated contaminant monitoring is to assist EPA in determining the occurrence of unregulated contaminants in drinking water and whether future regulation is warranted.

Unregulated Contaminants Contaminant (units)	PROPOSED MCL	YOUR WATER	RANGE LOW / HIGH
<b>Unregulated Volatile Organic Chemicals February 2006</b>			
Chloroform (ppb)	N/A	1	N/a
Bromodichloromethane (ppb)	N/a	1	N/a
<b>Unregulated Inorganic Contaminants February 2005</b>			
Sulfate (ppm)	500	16	N/a

### Definitions:

**AL - Action Level** - the concentration of a contaminant, which, if exceeded, triggers treatment or other requirements, which a water system must follow.

**MCL - Maximum Contaminant Level** - The "Maximum Allowed" is the highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

**MCLG - Maximum Contaminant Level Goal** - The "Goal" is the level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

**MRDL - Maximum Residual Disinfection Level** - The "Highest Level" of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

**MRDLG - maximum Residual Disinfection Level Goal** - The Level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLG's do not reflect the benefits of the use of disinfectants to control microbial contaminants.

**PPM - Parts per million or Milligrams per liter (mg/l)** - one part per million corresponds to one minute in two years or a single penny in \$10,000.

**PPB - Parts per billion or Micrograms per liter** - one part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.

**N/a** - Does not apply.

**ND** - Not detected.

## SWAP (Source Water Assessment Program)

The North Carolina Department of Environment and Natural Resources (DENR), Public Water Supply (PWS) Section, Source Water Assessment Program (SWAP) conducted assessments for all drinking water sources across North Carolina. The purpose of the assessments was to determine to susceptibility of each drinking water source (well or surface water intake) to Potential Contaminant Sources (PCS's). The results of the assessment are available in SWAP Assessment Reports that include maps, background information and a relative susceptibility rating of Higher, Moderate or Lower. **It is important to understand that a susceptibility rating of "higher" does not imply poor water quality, only the systems' potential to become contaminated by PCS's in the assessment area.**

The relative susceptibility rating of each source for the "New Hanover County 421 Water System", PWSID # 04-65-191, was determined by combining the contaminant rating (number and location of PCS's within the assessment area) and the inherent vulnerability rating (i.e. characteristics or existing conditions of the well or watershed and its delineated assessment area.) The assessment findings from the March 30, 2007 SWAP report are summarized in the table below:

### Susceptibility of Sources to Potential Contaminant Sources (PCS's)

Source Name	Susceptibility Rating	SWAP Report Date
Well #3	Higher	March 30, 2007
Well #4	Higher	March 30, 2007

The complete SWAP Assessment report for the "421 Water System" may be viewed on the Web at: <http://www.deh.enr.state.nc.us/pws/swap> Please note that because SWAP results and reports are periodically updated by the PWS Section, the results available on this web site may differ from the results that were available at the time this report was prepared. To obtain a printed copy of the swap report, please mail a written request to: Source Water Assessment Program – Report Request, 1634 Mail Service Center, Raleigh NC 27699-1634, or email request to [swap@ncmail.net](mailto:swap@ncmail.net). Please indicate your system name, PWSID, and provide your name, mailing address and phone number. If you have any questions about the SWAP report please contact the Source Water Assessment staff by phone at 919-715-2633.