

**North Carolina State Laboratory of Public Health  
Department of Health and Human Services  
P. O. Box 28047 -- 306 N. Wilmington St. -- Raleigh, N. C. 27611-8047**

**INORGANIC CHEMICAL ANALYSIS - PRIVATE WATER SYSTEM**

**Name of System:** Denning, Andrew

**Address:** 354 Cedar Rock Trail  
Fuquay-Varina, NC

**Zip:** 27526

**County:** HARNETT

**Report To:** Harnett Co. Health Dept.  
307 Cornelius Harnett Blvd.  
Lillington, NC 27546  
**Courier:** 14-73-01

**ATTN:** Bryan McSwain  
(910) 893-7547

**Source of Water:**

**Source of Sample:**

**Type of Sample:**

**Type of Treatment:**

**Type of Analysis:** Private

**Collected By:** B MCSWAIN

**Date:** 5/14/2009

**Time:** 2:25:00 PM

**Location of sampling point:** Sampling tap at well

**Remarks:** Permit # 09 - 5 - 21588

Parameters	Results	Units	Date Analyzed:
Silver	<0.05	mg/l	5/15/2009
Alkalinity as CaCO <sub>3</sub>	30	mg/l	5/15/2009
Arsenic	<0.005	mg/l	5/15/2009
Barium	<0.1	mg/l	5/15/2009
Calcium	6.3	mg/l	5/15/2009
Cadmium	<0.001	mg/l	5/15/2009
Chloride IC	<5.0	mg/l	5/15/2009
Chromium	<0.01	mg/l	5/15/2009
Copper	<0.05	mg/l	5/15/2009
Fluoride	<0.20	mg/l	5/15/2009
Iron	<0.10	mg/l	5/15/2009
Hardness as CaCO <sub>3</sub> (Ca,Mg)	19	mg/l	5/15/2009
Mercury	<0.0005	mg/l	5/15/2009
Magnesium	0.9	mg/l	5/15/2009
Manganese	<0.03	mg/l	5/15/2009
Sodium	7	mg/l	5/15/2009
Nitrite as N	<0.10	mg/l	5/15/2009
Nitrate as N	<1.0	mg/l	5/15/2009
Lead	<0.005	mg/l	5/15/2009
pH	5.6	Std. units	5/15/2009
Selenium	<0.005	mg/l	5/15/2009
Sulfate	<5.0	mg/l	5/15/2009
Zinc	<0.05	mg/l	5/15/2009

**Date Received:** 5/15/2009

**Report Date:** 6/1/2009

**Reported By:** *Dustin Moncol*

**Today's Date:** 6/2/2009

**Ref:** 6793

**Login Batch:** 09050039

**Sample Number:** AB89438

## Explanations

### Coliform Analysis:

If coliform bacteria are Absent, the water is considered safe for drinking purposes. If coliform bacteria are Present, the water is considered unsafe for drinking purposes. Presence of E. coli (bacteria) generally indicates that the water has been contaminated with fecal material. It must be remembered that a water analysis refers only to the sample received and should not be regarded as a complete report on the water supply.

### Inorganic Analysis:

Recommended limits for drinking water. Sample should not exceed levels listed below.

Alkalinity	No established limits	Iron	0.30 mg/l
Arsenic	0.01 mg/l	Lead	0.015 mg/l
Calcium	No established limits	Magnesium	No established limits
Chloride	250 mg/l	Manganese	0.05 mg/l
Copper	1.3 mg/l	Nitrate	10 mg/l (as N)
Fluoride	4 mg/l	Nitrite	1.0 mg/l (as N)
Hardness	No established limits	pH	Not less than 6.5 units
		Zinc	5.0 mg/l

JUN 05 2009

North Carolina Division of Public Health  
Occupational and Environmental Epidemiology Branch, Epidemiology Section  
**INORGANIC CHEMICAL ANALYSIS REPORT**  
Private well water information and recommendations

County: Harnett Name: Dennis Sample Id Number: A689438  
Location: \_\_\_\_\_ Reviewer: KMR

**ANALYSIS REPORT**

Your well water was tested for 15 metals, plus nitrates, nitrites, and pH. The results were evaluated using the federal drinking water standards. The pH is a measure of the acidity of the water. Drinking water may contain substances that can occur naturally in water or can be introduced into the water from man-made sources. (These recommendations are based on inorganic chemical analysis only.)

**TEST RESULTS AND USE RECOMMENDATIONS**

Your well water meets federal drinking water standards. Your water can be used for drinking, cooking, washing, cleaning, bathing, and showering.

The following substance(s) exceeded federal drinking water standards. Your water can be used for drinking, cooking, washing, cleaning, bathing, and showering, but aesthetic problems such as bad taste, odor, staining of porcelain, etc. may occur. You may want to install a household water treatment system to address aesthetic problems.

Barium	Cadmium	Chromium	Fluoride	Iron	Magnesium
Manganese	Selenium	Silver	Sodium	Zinc	pH

The following substance(s) exceeded federal drinking water standards: We recommend that your well water not be used for drinking or cooking, unless you install a water treatment system to remove the circled substance(s). However, it may be used for washing, cleaning, bathing, and showering.

Arsenic	Barium	Cadmium	Chromium	Copper	Fluoride	Lead	Iron	Magnesium
Manganese	Mercury	Nitrate/Nitrite	Selenium	Silver	Sodium	Zinc	pH	

Re-sampling is recommended in \_\_\_\_\_ months.

Re-sample for lead and /or copper. Take a first draw, 5 minute, and 15 minute sample inside the house (preferably the kitchen) and if possible a first draw, 5 minute and a 15 minute sample at the well head to determine the source of the lead and/or copper. Contact your local health department for re-sampling assistance.

**OTHER CONSIDERATIONS**

Routine well water sampling for the above substances is recommended every two to three years. Sample your well water when there is a known problem or contamination in your area, after repairs or replacement of your well, or after a flooding event. Contact your local health department for sampling instructions.

Contact your local health department for more information or go to <http://www.epi.state.nc/epi/oii/hsfactsheet.html>