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: Champion, Mark
Address: 10183 Hwy 210 N
Angier, NC **Zip:** 27501

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:** 1/27/2009 **Time:** 3:12:00 PM

Location of sampling point: Spigot at well

Remarks: Permit # 08 - 5 - 20594

Parameters	Results	Units	Date Analyzed:
Silver	<0.05	mg/l	1/28/2009
Alkalinity as CaCO3	51	mg/l	1/28/2009
Arsenic	<0.001	mg/l	1/28/2009
Barium	<0.1	mg/l	1/28/2009
Calcium	7.3	mg/l	1/28/2009
Cadmium	<0.001	mg/l	1/28/2009
Chloride IC	<5.0	mg/l	1/28/2009
Chromium	<0.01	mg/l	1/28/2009
Copper	<0.05	mg/l	1/28/2009
Fluoride	<0.20	mg/l	1/28/2009
Iron	3.10	mg/l	1/28/2009
Hardness as CaCO3 (Ca,Mg)	31	mg/l	1/28/2009
Mercury	<0.0005	mg/l	1/28/2009
Magnesium	3.1	mg/l	1/28/2009
Manganese	0.18	mg/l	1/28/2009
Sodium	9	mg/l	1/28/2009
Nitrite as N	<0.10	mg/l	1/28/2009
Nitrate as N	<1.0	mg/l	1/28/2009
Lead	<0.005	mg/l	1/28/2009
pH	7.1	Std. units	1/28/2009
Selenium	<0.005	mg/l	1/28/2009
Sulfate	<5.0	mg/l	1/28/2009
Zinc	0.51	mg/l	1/28/2009

Date Received: 1/28/2009 **Report Date:** 2/10/2009 **Reported By:** Debbie Moncol
Today's Date: 2/11/2009 **Ref:** 1157 **Login Batch:** 09010068 **Sample Number:** AB84411

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

Information and Recommendations for Uses of New Private Wells

North Carolina Occupational and Environmental Epidemiology Branch (OEEB)
For Additional Advice and Information call 919-707-5900

Name: Champion **County :** Harnett

Sample Identification Number: AB04411

Information on Your Private Well Water

Your well water was laboratory tested for chemical contaminants listed in table below. Drinking water may contain chemical contaminants which can occur naturally or be introduced into water from man-made sources. In order to evaluate your laboratory results for chemical contaminants, your water results were compared to the EPA national primary drinking water standards or maximum contaminant levels (MCLs) (see website for basis for each MCL at http://www.epa.gov/safewater/contaminants/index.html#mcls). MCLs are national drinking water standards that are required to be met by municipal water supplies. If no MCL was available, then your well water levels were compared to North Carolina 2L Groundwater Standards. If the concentrations found in your well are greater than these levels, you should not use your water for drinking or cooking. Alternatively, you could install a water treatment or filtration device or use another source of drinking water such as bottled water or municipal water. Your well water was also laboratory tested for biological contaminants (total coliform and fecal coliform bacteria). Total coliform bacteria are found in soil and fecal coliform bacteria are found in animal and human waste. The presence of coliform or fecal coliform bacteria in well water indicates that the well may have structural deficiencies or that the well was not properly disinfected.

Your Well Water Results Compared to MCLs

	Your Well Water Results	MCLs
Arsenic		0.01 mg/L
Barium		2 mg/L
Cadmium		0.005 mg/L
Chromium (total III and VI)		0.1 mg/L
Copper		1.3 mg/L
Fluoride		4 mg/L
Lead		0.015 mg/L
Iron*	3,10	0.3 mg/L
Magnesium		100 mg/L and higher
Manganese*		0.05 mg/L
Mercury		0.002 mg/L
Total Nitrate and Nitrite (as nitrogen)		10 mg/L
Nitrite (as nitrogen)		1 mg/L
Selenium		0.05 mg/L
Silver*		0.02 mg/L
Sodium		20 mg/L
Zinc		5 mg/L
pH		Desired range of 6.5-8.5
Total coliform bacteria Fecal coliform bacteria		In order to protect public health, coliform and fecal coliform bacteria should not be present.

* If the EPA MCL was not available (http://www.epa.gov/safewater/contaminants/index.html#mcls), then the North Carolina 2L Groundwater Standards were utilized.

Form Date March 2008

Information and Recommendations for Uses of New Private Well Water For Inorganic Chemicals Found in Water

North Carolina Occupational and Environmental Epidemiology Branch (OEEB)
For Additional Advice and Information call 919-707-5900

Name: Champion

Information on Your Private Well Water

Your well water was laboratory tested for inorganic chemicals. Drinking water may contain inorganic chemicals such as arsenic and manganese that can occur naturally in water or lead that could be introduced into water from man-made sources. In order to evaluate your laboratory results for chemical contaminants, your water results were compared to the national primary drinking water standards or maximum contaminant levels (MCLs) (see website for basis for each MCL at http://www.epa.gov/safewater/contaminants/index.html#mcls). MCLs are national drinking water standards that are required to be met by municipal water supplies. If an MCL was not available, your water results were compared to the health based North Carolina 2L Groundwater Standards.

Recommendations for Uses of Your Private Well Water

____ The concentrations found in your well water do not exceed the recommended EPA levels.

✓ Contaminant concentrations found in your well water are higher than the EPA recommended levels for drinking and cooking. These contaminants include Iron

Your well water should not be used for drinking or cooking. If you have been drinking the well water and are pregnant, nursing, or under 5 years of age, inform your physician of the results. Very little absorption is expected through intact skin. However, having open wounds or burns could result in a greater absorption of these chemicals. Therefore, if you have open wounds or burns on your skin, limit showering and bathing time to under 5 minutes.

✓ You may want to purchase a water treatment device, drill a new well that is distantly located from the groundwater contamination, use bottled water, or connect to a public water supply.

____ Resampling is recommended in _____ months.

____ Resample for lead. 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.

Other Comments