North Carolina State Laboratory Public Health

Environmental Sciences

Microbiology

P.O. Box 28047
306 N. Wilmington St.
Raleigh, NC 27611-8047
http://slph.state.nc.us
Phone: 919-733-7834
Fax: 919-733-8695

Certificate of Analysis

Report To:

HARNETT CO ENVIRONMENTAL HEALTH

307 CORNELIUS HARNETT BLVD
LILLINGTON, NC 27546

Name of System:

Patricia L. Street
P.O. Box 523

LILLINGTON, NC 27546

StarLiMS Sample ID: **ES041409-0021001**

Collected: 04/13/2009 11:27 **Bryan McSwain**
Received: 04/14/2009 08:03 **Benjamin Saavedra**

ES Microbiology ID: **3692**
GPS Number:

Sample Source: **Well**
Sampling Point: **Outside Spigot**

Well Permit Number:

Sample Description:
Comment:

Environmental Microbiology - Colilert Profile **Method:** SM 9223B

Test Name: Colilert

Analyte	Test Result	Analyst	Date
Total Coliform, Colilert	Present	Benjamin Saavedra	04/15/2009
E. coli, Colilert	Absent	Benjamin Saavedra	04/15/2009

Report Date: 04/15/2009

Reported By: *Susan Beasley*

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

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Certificate of Analysis

Report To:

HARNETT CO ENVIRONMENTAL HEALTH -

307 CORNELIUS HARNETT BLVD
LILLINGTON, NC 27546

Name of System:

Patricia Street

1211 S 3rd Street
LILLINGTON, NC 27546

StarLiMS Sample ID: **ES022409-0065001**

Collected: 02/23/2009 13:31 **Bryan McSwain**
Received: 02/24/2009 08:30 **Angela Heybroek**

ES Microbiology ID: **2058**
GPS Number:

Sample Source: **New Well**
Sampling Point: **Spigot at well**

Well Permit Number: **08-5-19828**

Sample Description:
Comment:

Environmental Microbiology - Colilert Profile **Method:** SM 9223B

Test Name: Colilert

Analyte	Test Result	Analyst	Date
Total Coliform,Colilert	Present	Joy Hayes	02/25/2009
E. Coli,Colilert	Absent	Joy Hayes	02/25/2009

Report Date: 03/03/2009 **Reported By:** *Susan Beasley*

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 Private Well Water For Biological Contaminants Found in Water

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

Name: Street **County :** Harnett

Sample Identification Number: ESID # 2058

Information on Your Private Well Water

Your well water was 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 total coliform or fecal coliform bacteria in well water indicates that the well may have structural deficiencies or that the well was not properly disinfected.

Recommendations for Uses of Your Private Well Water

✓ No coliform bacteria were found in your well water. Therefore, your water could be used for drinking, cooking, washing dishes, bathing, and showering.

Total coliform and/or fecal coliform bacteria were detected in the resample which indicate that pathogenic bacteria from human or animal waste could possibly enter the well. There may be a problem with the construction of the well, the water source, or operation of the well. The water may not be safe. **If you have been drinking the well water and are pregnant, nursing, have a child in the household under 5 years of age, or immunocompromised (such as an individual with AIDS, cancer, hepatitis, dialysis or surgical procedures) inform your physician of the results.** The well needs to be inspected by the local health department or a local well contractor to determine the problem with the well and to give guidance on how to correct the problem. You should resample your water after proper well inspection and disinfection to make certain that the problem does not recur. If the contamination is a recurring problem, you should investigate the feasibility of drilling a new well or installing a point-of-entry disinfection unit which can use chlorine, ultraviolet light, or ozone.

✓ Do not use the water for drinking, cooking, washing dishes, bathing, or showering unless you boil it for at least one minute.

Other Comments

May 2008

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: Street, Patricia
Address: 1211 S 3rd Street
Lillington, NC **Zip:** 27546

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:** 2/23/2009 **Time:** 1:31:00 PM

Location of sampling point: Spigot at well

Remarks: Permit # 08-5-19828

Parameters	Results	Units	Date Analyzed:
Silver	<0.05	mg/l	2/24/2009
Alkalinity as CaCO3	38	mg/l	2/24/2009
Arsenic	0.007	mg/l	2/24/2009
Barium	<0.1	mg/l	2/24/2009
Calcium	5.0	mg/l	2/24/2009
Cadmium	<0.001	mg/l	2/24/2009
Chloride IC	<5.0	mg/l	2/24/2009
Chromium	<0.01	mg/l	2/24/2009
Copper	<0.05	mg/l	2/24/2009
Fluoride	0.23	mg/l	2/24/2009
Iron	2.87	mg/l	2/24/2009
Hardness as CaCO3 (Ca,Mg)	30	mg/l	2/24/2009
Mercury	<0.0005	mg/l	2/24/2009
Magnesium	4.2	mg/l	2/24/2009
Manganese	0.83	mg/l	2/24/2009
Sodium	7	mg/l	2/24/2009
Nitrite as N	<0.10	mg/l	2/24/2009
Nitrate as N	<1.0	mg/l	2/24/2009
Lead	<0.005	mg/l	2/24/2009
pH	7.0	Std. units	2/24/2009
Selenium	<0.005	mg/l	2/24/2009
Sulfate	5	mg/l	2/24/2009
Zinc	0.10	mg/l	2/24/2009

Date Received: 2/24/2009 **Report Date:** 3/9/2009 **Reported By:** Debbie Moncol
Today's Date: 3/9/2009 **Ref:** 2705 **Login Batch:** 09020067 **Sample Number:** AB85758

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

North Carolina Division of Public Health
Occupational and Environmental Epidemiology Branch, Epidemiology Section

INORGANIC CHEMICAL ANALYSIS REPORT

Private well water information and recommendations

County: Wilford Name: Street Sample Id Number: AB 85758

Location: _____ Reviewer Lum

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

State Lab Public Health -
(919) 733-8695