



North Carolina State Laboratory of Public Health  
 Environmental Sciences  
 Inorganic Chemistry  
 Certificate of Analysis

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Report To: **JAMES MANHART III**  
**HARNETT CO ENVIRONMENTAL HEALTH**  
**307 CORNELIUS HARNETT BLVD**

Name of System:  
**BILL SWAYNEY**

LILLINGTON, NC 27546  
 EIN: 566000306EH

Courier # 14-73-01

<sup>505</sup> DEER TAIL LN  
 FUQUAY VARINA, NC 27526

StarLiMS ID: **ES090414-0087001**

Date Collected: 09/03/14

Time Collected: 4:00 PM

Date Received: 09/04/14

Collected By: James E Manhart III

Sample Type:  
 Sample Source: New Well

Sampling Point: Well head  
 Temp. at Receipt: 3.1

Well Permit #: 13-5-30756R  
 GPS #:

Sample Description:  
 Comment:

**New Well I (Profile)**

| Analyte          | Result   | Allowable Limit | Unit | Qualifier(s) |
|------------------|----------|-----------------|------|--------------|
| Arsenic          | < 0.005  | 0.010           | mg/L |              |
| Barium           | < 0.1    | 2.00            | mg/L |              |
| Cadmium          | < 0.001  | 0.005           | mg/L |              |
| Calcium          | 12       |                 | mg/L |              |
| Chloride         | 17.00    | 250             | mg/L |              |
| Chromium         | < 0.01   | 0.10            | mg/L |              |
| Copper           | < 0.05   | 1.3             | mg/L |              |
| Fluoride         | < 0.20   | 4.00            | mg/L |              |
| Iron             | < 0.10   | 0.30            | mg/L |              |
| Lead             | < 0.005  | 0.015           | mg/L |              |
| Magnesium        | < 1.0    |                 | mg/L |              |
| Manganese        | 0.12     | 0.05            | mg/L |              |
| Mercury          | < 0.0005 | 0.002           | mg/L |              |
| Nitrate          | 1.10     | 10.00           | mg/L |              |
| Nitrite          | < 0.10   | 1.00            | mg/L |              |
| pH               | 7.6      |                 | N/A  |              |
| Selenium         | < 0.005  | 0.05            | mg/L |              |
| Silver           | < 0.05   | 0.10            | mg/L |              |
| Sodium           | 9.70     |                 | mg/L |              |
| Sulfate          | < 5.00   | 250             | mg/L |              |
| Total Alkalinity | 40       |                 | mg/L |              |
| Total Hardness   | 34       |                 | mg/L |              |
| Zinc             | < 0.05   | 5.00            | mg/L |              |

Report Date: 09/11/2014

Reported By: Arnold Hall

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: Swayney Sample Id Number: 87001  
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 manmade sources.

**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 and 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.

**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.

**For further information please contact your county health department or the Occupational and Environmental Epidemiology Branch at 919-707-5900.**