



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

P.O. Box 28047
 4312 District Drive
 Raleigh, NC 27611-8047
<http://slph.ncpublichealth.com>
 Phone: 919-733-7308
 Fax: 919-715-8611

Report To: **JAMES MANHART III**

Name of System:

**HARNETT CO ENVIRONMENTAL HEALTH
 307 CORNELIUS HARNETT BLVD**

JONATHON POWELL

**LILLINGTON, NC 27546
 EIN: 566000306EH**

Courier # 14-73-01

**1019 VALLEY RD
 SPRING LAKE, NC 28390**

StarLIMS ID: **ES042116-0067001**

Date Collected: 04/20/16

Time Collected: 11:00 AM

Date Received: 04/21/16

Collected By: James E Manhart III

Sample Type:
 Sample Source: New Well

Sampling Point: Well head
 Temp. at Receipt: 3.5

Well Permit #:
 GPS #:

Sample Description:
 Comment: No permit # given with sample.

New Well I (Profile)

Analyte	Result	Allowable Limit	Unit	Qualifier(s)
Arsenic	< 0.005	0.010	mg/L	
Barium	0.219	2.00	mg/L	
Cadmium	< 0.001	0.005	mg/L	
Calcium	18		mg/L	
Chloride	< 5.00	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	2		mg/L	
Manganese	0.030	0.05	mg/L	
Mercury	< 0.0005	0.002	mg/L	
Nitrate	< 1.00	10.00	mg/L	
Nitrite	< 0.1	1.00	mg/L	Fchl
pH	8.3		N/A	
Selenium	< 0.005	0.05	mg/L	
Silver	< 0.05	0.10	mg/L	
Sodium	25.00		mg/L	
Sulfate	8.70	250	mg/L	
Total Alkalinity	93		mg/L	
Total Hardness	54		mg/L	
Zinc	< 0.05	5.00	mg/L	

Report Date: 05/02/2016

Reported By: Debbie Moncol

MAY 05 2016



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Environmental Qualifier Descriptions

Code	Description
*	Result exceeds MCL
>ht	Entered past holding exp
A	User choice 1
Ach	Above ULC
Amt	Non-default amount used
B	Blank over RL
C	Possible Lab Contamination
Cg	Confluent Growth
D	User choice 3
Eh	Exceeded Holding Time
Fchl	NO ₂ -Free Chlorine Interference
Haz	Hazard Level Exceeded
Hirec	High recovery
Ins	Insufficient Sample
J	Estimated Value
La	Lab Accident
Lorec	Low recovery
M	Matrix Interference
Ofe	Over 48 hours
Sp	Sample processing problem
Susp	Suspect result
T	Trihalomethane
Tc	Turbid Culture
Temp	Temperature Range Exceeded
Ti	Tentative Identification
Tntc	Too numerous to count
U	Beneath MDL
V	User choice 4

MAY 05 2016



Private Well Information and Use Recommendations

For Inorganic Chemical Contaminants

County: HARNETT

Name: JAMES JONATHAN POWELL

Sample ID #: E5042116-0067001

Reviewer: JAMES R. MANHART III

TEST RESULTS AND USE RECOMMENDATIONS

- Your well water meets federal drinking water standards *for inorganic chemicals*. Your water can be used for drinking, cooking, washing, cleaning, bathing, and showering based on the *inorganic chemical results only*. You may have other water sampling results that are not taken into account in this report.
- The following substance(s) exceeded federal drinking water standards or the North Carolina 2L calculated health levels. The North Carolina Division of Public Health recommends 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 based on the *inorganic chemical results only*.

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

SAMPLE CONTAINED Chlorine for original install disinfection.

- a. Sodium levels exceed the U.S. Environmental Protection Agency's (USEPA) Health Advisory level for sodium of 20 mg/l. The North Carolina Division of Public Health recommends that only individuals on no or low sodium restricted diets not use this water for drinking or cooking. It may be used for washing, cleaning, bathing, and showering based on the *inorganic chemical results only*.
- b. Levels over 30 mg/l may pose aesthetic problems such as bad taste, odor, staining of porcelain, etc.
- 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.
- The following substance(s) exceeded federal drinking water standards. Your water can be used for drinking, cooking, washing, cleaning, bathing, and showering based on the *inorganic chemical results only*, 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	pH	Zinc	

For more information regarding your well water results, please call the North Carolina Division of Public Health at 919-707-5900.