



**North Carolina State Laboratory of Public Health**  
*Environmental Sciences*  
**Inorganic Chemistry**

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**Certificate of Analysis**

**FINAL REPORT**

**Report to: OLIVER TOLKSDORF**  
**HARNETT CO ENVIRONMENTAL HEALTH**  
 307 CORNELIUS HARNETT BLVD  
 LILLINGTON, NC 27546

**Name of System:**  
**David Ethridge**  
 470 Fox Hunters Ln  
 Broadway, NC 27505

**EIN: 566000306EH**

**Delivery: NC Courier**

StarLiMS ID: **ES180724-0029**

Date Collected: 07/23/2018

Time Collected: 11:40

By: Oliver Tolksdorf

Date Received: 07/24/2018

Time Received: 07:52

Sample Type: Raw

Sampling Point: Spigot at well

Well Permit No. *17-5-42674*

Sample Source: New Well

Receipt Temp.: 8.0

GPS No.

Treatment:

Local Results:

Comment: No permit # given with sample.

**New Well I Profile**

Analyte	Test Result	Allowable Limit	Unit	Qualifier(s)
Arsenic	0.022	0.010	mg/L	
Barium	<0.1	2.0	mg/L	
Cadmium	<0.001	0.005	mg/L	
Calcium	9		mg/L	
Chloride	<5	250	mg/L	
Chromium	0.010	0.10	mg/L	
Copper	0.06	1.3	mg/L	
Fluoride	<0.2	4	mg/L	
Iron	1.95	0.30	mg/L	
Lead	<0.005	0.015	mg/L	
Magnesium	4		mg/L	
Manganese	0.05	0.05	mg/L	
Mercury	<0.0005	0.002	mg/L	
Nitrate	<1	10.0	mg/L	
Nitrite	<0.1	1.00	mg/L	
pH	7.7		N/A	
Selenium	<0.005	0.05	mg/L	
Silver	<0.05	0.10	mg/L	
Sodium	4.5		mg/L	
Sulfate	<5	250	mg/L	
Total Alkalinity	45		mg/L	
Total Hardness	41		mg/L	
Zinc	0.29	5.00	mg/L	

Report Date: 07/31/2018

Reported By: **Kenneth Greene**



# Private Well Information and Use Recommendations For Inorganic Chemical Contaminants

County: Hannett Name: DAVID ESTHERIDGE  
 Sample ID #: ES190808-0022 Reviewer: OLIVER TOLKSDORF

### 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	

- 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.