



North Carolina State Laboratory of Public Health
Environmental Sciences
Inorganic Chemistry

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Certificate of Analysis

FINAL REPORT

Report to: ANDREW CURRIN

Name of System:

HARNETT CO ENVIRONMENTAL HEALTH
 307 CORNELIUS HARNETT BLVD
 LILLINGTON, NC 27546

Lammoth O'Neal
 459 River Bluff Dr N
 Dunn, NC 28334

EIN: 566000306EH

Delivery: NC Courier

StarLiMS ID: **ES190612-0006**

Date Collected: 06/11/2019

Time Collected: 11:15

By: A Currin

Date Received: 06/12/2019

Time Received: 07:35

Sample Type: Raw

Sampling Point: Well head

Well Permit No.

18-5-43959R

Sample Source: New Well

Receipt Temp.: 4.0 °C

GPS Number:

Profile: New Well I

Analyte	Test Result	Allowable Limit	Unit	Qualifier(s)
Arsenic	<0.005	0.010	mg/L	
Barium	<0.1	2.0	mg/L	
Cadmium	<0.001	0.005	mg/L	
Calcium	18		mg/L	
Chloride	78.3	250	mg/L	
Chromium	<0.01	0.10	mg/L	
Copper	<0.05	1.3	mg/L	
Fluoride	0.61	4	mg/L	
Iron	<0.1	0.30	mg/L	
Lead	<0.005	0.015	mg/L	
Magnesium	12		mg/L	
Manganese	0.20	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	104.5		mg/L	
Sulfate	42.7	250	mg/L	
Total Alkalinity	160		mg/L	
Total Hardness	92		mg/L	
Zinc	0.34	5.00	mg/L	

Report Date: 06/25/2019

Reported By:

Kenneth Greene



Private Well Information and Use Recommendations

For Inorganic Chemical Contaminants

County: Harnett Name: Lammoth O'Neal
 459 Lives Bluff Dr. N. Dunn, NC 28334
 Sample ID #: ES19012-0006 Reviewer: Andrew Curran, MHS

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.

<u>Barium</u>	Cadmium	Chromium	Fluoride	Iron	Magnesium
<u>Manganese</u>	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.

The Environmental Protection Agency (EPA) considers Manganese below 0.3mg/L as a secondary contaminant which means it does NOT have a direct impact on health.