

North Carolina State Laboratory of Public Health

Environmental Sciences

Microbiology Certificate of Analysis

4312 District Drive MSC 1918 Raleigh, NC 27699-1918

http://slph.ncpublichealth.com Phone: 919-733-7308 Fax: 919-715-8611

FINAL REPORT

Report to: ANDREW CURRIN

HARNETT CO ENVIRONMENTAL HEALTH

307 CORNELIUS HARNETT BLVD

Lillington, NC 27546

Name of System:

Dennis & Jennifer Patten

1290 Cokebury Rd.

Fuquay Varina, NC 27526

EIN: 566000306EH

Delivery: NC Courier

10/09/2018

Time Collected:

10:15

By:

Andrew Currin

Harnett County

StarLiMS ID: ES181010-0139

Date Collected: Date Received:

10/10/2018

Time Received:

08:59

Susan Beasley By:

Sample Source: New Well

Sampling Point:

GPS No.

Well head

Sample Type:

Treatment:

Well Permit No. 17-5-41554

Comment:

Colilert Profile

Method: SM 9223B

Analyte	Test Result	Unit	Conclusion	Date Tested	
Total Coliform	Absent			10/10/2018	
E. coli	Absent			10/10/2018	

Report Date:

10/16/2018

Reported By:

Susan Beasley

Explanations of Coliform Analysis:

If coliform bacteria are Absent, the water is considered safe for drinking purpose. If coliform bacteria are Present, the water is considered unsafe for drinking purpose. 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.

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

Private well water information and recommendations

ES181010-0139
County: Harnett Name: Dennis Ratter Sample ID Number:
County: Harrett Name: Dennis Ratter Sample ID Number: Location: 1290 Coresbury road Reviewer Andrew Coron, MEHS FUEURS - Various, NC 27526
Initial Sample Confirmation Sample
BIOLOGICAL ANALYSIS RESULTS AND RECOMMENDATIONS FOR USES OF YOUR PRIVATE WELL WATER (These recommendations are based on biological analysis only.)
No coliform bacteria were found in your well water. Your water can be used for all purposes including drinking, cooking, washing dishes, bathing and showering.
Total coliform bacteria were detected in the sample which indicates that harmful bacteria from human or animal waste could enter the well. Do not use the water for drinking or cooking unless it has been boiled for 3 minutes. You may use your water for all other purposes including washing dishes, bathing or showering. Your well water needs to be re-tested to verify that the result is accurate.
Fecal coliform bacteria were detected in the sample. Do not use the water for drinking, cooking, washing dishes, bathing or showering.

If the re-test shows contamination by bacteria contact your local health department for assistance. There may be a problem with the construction of the well, the groundwater source, or operation of the well. 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.

Your well water was tested for biological contaminants (total coliform and fecal coliform bacteria). The results were evaluated using the federal drinking water standards.

Drinking water may contain substances that can occur naturally in water or can be introduced into water from man-made sources. Total coliform bacteria are found in soil and fecal coliform bacteria are found in animal and human waste. Total coliform or fecal coliform bacteria in well water indicate that the well may have structural problems or that the well was not properly disinfected.

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 these results at your next visit.

If the contamination continues, you should investigate the possibility of drilling a new well or installing a point-of-entry disinfection unit which can use chlorine, ultraviolet light, or ozone.

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

North Carolina State Laboratory of Public Health 4312 District Dr. – P. O. Box 28047, Raleigh, NC 27607 Tel 919-733-7308 Fax 919-715-8611 MSC 1918

Environmental Microbiology Private Well Water Sample

Complete all items – please write legibly.

Total Coliform

Confirmation

Well Identification:			Water Source:				
The second control of	t #: 11-5-415			New Well Other:			
Physical Addr	me: Dennis & Jenness: 1296 College	ry road	Sample Collection:				
GPS Locat	City: Fuguey-Vari Zip: 27526 Count Cion:	y: Harnett	Sampling point: Collected by:	Well Head			
*Report to El	IN:		Address: 307	to. Cornelius Harnett blue			
EH Specialist:	Andrew C	writh, mells		insten			
Health Departmen	nt: Harnett	County	Zip: 27546	Phone: 9/0 893 7547			
Analysis Req	uest – Check reque	sted analysis - one	per kit	ranamentalia <u>de</u>			
otal Coliform/E. a		☐ Enterococcus, MPN		☐ Iron Bacteria/Microscopic Exam			
Total Coliform/ E. a		☐ Pseudomonas, MPN	THE COLUMN TO SHARE THE CO	☐ Sulfur/Sulfate-Reducing Bacteria, P/A			
Fecal Coliform, MF	The second secon	☐ Heterotrophic Plate (Count, cfu/mL □ New-Well repeat/follow-up				
☐ Grade A Milk Progra			atory prior to submittal):				
P/A = Presence/A		MPN = Most Probab	le Number (quantitat				
Laboratory U Date/Time:	se Uniy:	AM/PM	Sample Identi	fication Numbers:			
Received by:	The state of the s		一位。2007年2月2日				
Delivered by:	US Mail Commercial courier	NC Courier Walk-in		b volu			
Temperature upor	The state of the s	T T T C	The state of the s				
DPH Form 4128 (E	aitea April 2016)	Required fields. Sa	mple may be rejec	ted if this information is not included.			



www.harnett.org

Harnett County Government Complex 307 W. Cornelius Harnett Boulevard Lillington, NC 27546

ph: 910-893-7547 fax: 910-893-9371

July 12, 2018

Dennis & Jennifer Patten P O Box 1256 Fuquay Varina, NC 27526

RE: Water samples collected at: 1290 Cokesbury Rd. New Well Application #17-5-41554

Dear Mr. and Mrs. Patten,

The report of your water sample taken for bacteria, revealed the presence of Total Coli form. A copy of both water sample reports are enclosed.

The enclosed pamphlet provides specific directions about how to disinfect the well. If you have any questions regarding disinfection, contact the Fayetteville Regional Office at (910) 433-3300 or contact me at (910) 893-7547.

As soon as the well has been treated, contact the Harnett County Division of Environmental Health so another sample can be taken. No fee will be charged for a second sample if the request is made within thirty (30) days of this letter. After thirty (30) days, the fee for a second sample is \$25.00.

If you have any questions, please call me Monday through Friday between 8:00 and 9:00 a.m. at (910) 893-7547.

Sincerely,

Andrew Currin, R.E.H.S.

Environmental Health Specialist

Harnett County Department of Public Health

AC/sgs

Enclosures: Water Sample Report

Biological Analysis Report

How to Disinfect Your Water Well

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

Private well water information and recommendations

cooking, washing dishes, bathing or showering.

was the manufaction and recommendations
County: Hurnett Name: Denish Tennish Rutten Sample ID Number: Location: 1290 Cokesbury Rd. Reviewer Andrew Currin, NEHS Fyeury-Varing, NC 27526
Initial Sample Confirmation Sample
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For further information please contact your county health department or the Occupational and Environmental Epidemiology Branch at 919-707-5900.



North Carolina State Laboratory Public Health

Environmental Sciences

Microbiology

Certificate of Analysis

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Phone: 919-733-7308 Fax: 919-715-8611

Report To:

HARNETT CO ENVIRONMENTAL HEALTH 307 CORNELIUS HARNETT BLVD

Name of System:

DENNIS & JENNIFER PATTEN

LILLINGTON, NC 27546

EIN:566000306EH

COURIER #: 14-73-01

1290 COKESBURY ROAD **FUQUAY VARINA, NC 27526**

StarLiMS Sample ID: ES062718-0100001

Collected: 06/26/2018 12:00 Received: 06/27/2018 08:40

Andrew Currin Susan Beasley

ES Microbiology ID: GPS Number:

Sample Source: New Well

Sampling Point: Well head

Well Permit Number:

17-5-41554

Sample Description:

Comment:

Environmental Microbiology - Colilert Profile

Method: SM 9223B

Test Name: Colilert

Analyte	Test Result	Date
Total Coliform, Colilert	Present	06/28/2018
E. coli, Colilert	Absent	06/28/2018

Reported By: Susan Beasley Report Date: 07/02/2018

Trean Brasley

Explanations of Coliform Analysis:

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Private Well Information and Use Recommendations

For Inorganic Chemical Contaminants

							A STATE OF THE STATE OF			
County: Harnett Name: Dennis & Jennifer Patter										
Sample ID #: E5062718-0021 Reviewer: Andrew Corring MEHS										
drinking, co have other w 2. The followels. The followels. The followels, unl	oking, washir vater sampling ollowing subst North Carolin ess you instal	eets fed ng, clea g result tance(s a Divis Il a wat	eral drink ning, bath s that are) exceeded ion of Pul er treatme	ing water staning, and sho not taken into d federal drin olic Health rent system to	owering to acco	s for inough based of bunt in the water standards the week the ci	andards or the at your well w	North Carolivater not be uce(s). However	na 2L calc	culated health
washing, cle	aning, bathin	g and s	howering	based on the	inorg	anic ch	emical result	s only.	- E	
Arsenic	Barium	Cadm	ium	Chromium	Cop	per	Fluoride	Lead	Iron	
Manganese	Mercury	Nitrat	e/Nitrite	Selenium	Silv		Magnesium	Zinc	pН	
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 <i>inorganic chemical results only</i> . b. Levels over 30 mg/l may pose aesthetic problems such as bad taste, odor, staining of porcelain, etc. Re-sampling is recommended inmonths. 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										
ead and/or cooking, was such as bad t	opper. llowing substa	ance(s) g, bath	exceeded	federal drin	king w	ater star	ndards. Your	water can be	used for o	
	Bariu	m	Cadmiu	n Chrom	um	Fluorio	de Iron	Magne	esium	
		ganese	Seleniun			pН	Zinc	- Inagire		

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 as a secondary conteminant which means it done not have a direct impuet on health.



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: **ANDREW CURRIN** Name of System:

HARNETT CO ENVIRONMENTAL HEALTH

DENNIS & JENNIFER PATTEN

307 CORNELIUS HARNETT BLVD

LILLINGTON, NC 27546

Courier # 14-73-01

1290 COKESBURY ROAD **FUQUAY VARINA, NC 27526**

EIN: 566000306EH

Time Collected: 12:00 PM

StarLiMS ID:

ES062718-0021001

Date Collected: 06/26/18 Date Received: 06/27/18

Collected By:

Andrew Currin

Sample Type:

Sampling Point: Well head

Well Permit #:

Sample Source: New Well

Temp. at Receipt: 4.6

GPS #:

17-5-41554

Sample Description:

Comment:

New Well I (Profile)

Analyte	Result	Allowable Limit	Unit	Qualifier(s)
Arsenic	< 0.005	0.010	mg/L	
Barium	0.250	2.00	mg/L	
Cadmium	< 0.001	0.005	mg/L	
Calcium	29		mg/L	
Chloride	< 5.00	250	mg/L	
Chromium	< 0.01	0.10	mg/L	
Copper	< 0.05	1.3	mg/L	
Fluoride	0.37	4.00	mg/L	
Iron	< 0.10	0.30	mg/L	
Lead	< 0.005	0.015	mg/L	
Magnesium	3		mg/L	
Manganese	0.052	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	
pH	8.1		N/A	
Selenium	< 0.005	0.05	mg/L	
Silver	< 0.05	0.10	mg/L	
Sodium	16.00		mg/L	
Sulfate	< 5.00	250	mg/L	
Total Alkalinity	110		mg/L	
Total Hardness	84		mg/L	
Zinc	< 0.05	5.00	mg/L	

Kenneth Greene Report Date: 07/09/2018 Reported By: