# Water Quality Data Table(s) Johnston County East PWS# 40-51-018 : Continued

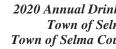
\*Turbidity is a measure of the cloudiness of the water. We monitor it because it is a good indicator of the effectiveness of our filtration system. The turbidity rule requires that 95% or more of the monthly samples must be less than or equal to 0.3 NTU.

						tain % removal of TOC or must achi noval, we are in violation of a Treatn	
Contaminant (units)	TT Violation Yes/No	Your Water (RAA Removal Ratio)	Range Monthly Removal Ratio Low - High	MCLG	MCL	Likely Source of Contamination	Compliance Method (Step 1 or ACC#)
Total Organic Carbon (removal ratio) (TOC)-TREATED	No	1.44	1.35 - 1.71	N/A	TT	Naturally present in the environment	Step 1

Step 1 TOC Remo	oval Requireme	ents (%)						quires monitoring of other misc rinking water standards (SMCLs)
Source Water TOC		ource Water Alkalir s CaCO3 (in perce		because they may caus The contaminants with	se cosmetic or aest	hetic effec	ts (such as taste,	odor, and or color) in drinking water. ects and normally do not affect the
(mg/L)	0 - 60	> 60 - 120	> 120	safety of your water. Contaminant	Sample	Your	0	Secondary
> 2.0 - 4.0	35.0	25.0	15.0	(units)	Date	Water	Range	MCL
> 4.0 - 8.0	45.0	35.0	25.0	(****)			Low High	
> 8.0	50.0	40.0	30.0	Sodium (ppm)	April 2020	31.1	N/A	N/A
2 0.0	00.0	10.0	00.0	рН	April 2020	7.4	N/A	6.5 to 8.5

### 2020 Wastewater Collection System Annual Report Permit # WOCS00294

The Town of Selma operates a wastewater collection system that contains approximately 40 miles of gravity sewer, 6.5 miles of force main, and 19 duplex wastewater pump stations. The system has 2464 taps that serve residential and commercial customers. All wastewater collected is treated by the Johnston County Wastewater Treatment Facility (NC0030716). In 2020 there were two reportable spills on 2-7-20 Manhole number 2502 outside equalization basin 54000 gallons and 11-13-20 Manhole number 2502 outside equalization basin 37000 gallons. These spills were reported to Division of Water Resources as required. This institution is an equal opportunity provider and employer.



We are pleased to present to you this year's Annual Drinking Water Quality Report. This report is a snapshot of last year's water quality. Included are details about your sources of water, what it contains, and how it compares to standards set by regulatory agencies. Our constant goal is to provide you with a safe and dependable supply of drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water and to providing you with this information because informed customers are our best allies. If you have any questions about this report or concerning your water, please contact Matthew Morris at (919) 965-9841 Ext 9001. We want our valued customers to be informed about their water utility.

#### What EPA Wants You to Know

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline (800-426-4791). Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline (800-426-4791). If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. Town of Selma is responsible for providing high quality drinking water but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at http://www.epa.gov/safewater/lead.

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity. Contaminants that may be present in source water include microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife; inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming; pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses; organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems; and radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water, which must provide the same protection for public health

### When You Turn on Your Tap, Consider the Source

In 2020, our Water Department produced and provided approximately 248 million gallons of water to our customers. Our ground water system uses a network of nine wells. Our wells are located in the following locations: #1 Well (River Road), #3 Well (West Anderson Street), #4 Well (West Street and Southern Street), #5 Well (West Street), #6 Well (Eason Lane), #7 Well (Smithfield Street), #8 Well (West Noble Street), #9 Well (South Pollock Street), and #10 Well (Florence Ave). Each well has a depth of 200 to 300 feet. Our Wells draw from the Cape Fear Aquifer. Our Treatment facility has five main steps to remove harmful contaminants: Aeration, Coagulation, Sedimentation, Filtration, and Disinfection. In addition, 15% of your water was purchased from the Johnston County Water Plant (PWS ID# NC 40-51-018). The Johnston County Water Plant is a Surface Water System drawing water from the Neuse River and is located one half mile east of Wilson Mills.

#### Source Water Assessment Program (SWAP) Results

The North Carolina Department of Environmental Quality (DEQ), Public Water Supply (PWS) Section, Source Water Assessment Program (SWAP) conducted assessments for all drinking water sources across North Carolina. The purpose of the assessments was to determine the susceptibility of each drinking water source (well or surface water intake) to Potential Contaminant Sources (PCSs). The results of the assessment are available in SWAP Assessment Reports that include maps, background information and a relative susceptibility rating of Higher, Moderate or Lower. The relative susceptibility rating of each source for Town of Selma was determined by combining the contaminant rating (number and location of PCSs within the assessment area) and the inherent vulnerability rating (i.e., characteristics or existing conditions of the well or watershed and its delineated assessment area). The assessment findings are summarized in the table below:

# Susceptibility of Sources to Potential Contaminant Sources (PCSs)

	G	CIVAD D D		G	CULAD D D
Source Name	Susceptibility Rating	SWAP Report Date	Source Name	Susceptibility Rating	SWAP Report Date
Well #1	Moderate	September 2020	Well #7	Higher	September 2020
Well #3	Higher	September 2020	Well #8	Higher	September 2020
Well #4	Moderate	September 2020	Well #9	Moderate	September 2020
Well #5	Higher	September 2020	Well #10	Moderate	September 2020
Well #6	Moderate	September 2020			

The complete SWAP Assessment report for Town of Selma may be viewed on the Web at: https://www.ncwater.org/?page=600 Note that because SWAP results and reports are periodically updated by the PWS Section, the results available on this web site may differ from the results that were available at the time this CCR was prepared. If you are unable to access your SWAP report on the web, you may mail a written request for a printed copy to: Source Water Assessment Program - Report Request, 1634 Mail Service Center, Raleigh, NC 27699-1634, or email requests to swap@ncdenr.gov. Please indicate your system name, number, and provide your name, mailing address and phone number. If you have any questions about the SWAP report, please contact the Source Water Assessment staff by phone at 919-707-9098.

It is important to understand that a susceptibility rating of "higher" does not imply poor water quality, only the system's potential to become contaminated by PCSs in the assessment area.

# Violations that Your Water System Received for the Report Year

During 2020, or during any compliance period that ended in 2020, we received no violations.



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# 2020 Annual Drinking Water Quality Report Town of Selma PWS# 03-51-015 Town of Selma County Line PWS# 40-51-009

## Water Quality Data Tables of Detected Contaminants

We routinely monitor for over 150 contaminants in your drinking water according to Federal and State laws. The tables below list all the drinking water contaminants that we detected in the last round of sampling for each particular contaminant group. The presence of contaminants does not necessarily indicate that water poses a health risk. Unless otherwise noted, the data presented in this table is from testing done January 1 through December 31, 2020. The EPA and the State allow us to monitor for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Some of the data, though representative of the water quality, is more than one year old.

## **Important Drinking Water Definitions:**

Non-Detects (ND) - Laboratory analysis indicates that the contaminant is not present at the level of detection set for the particular methodology used. Parts per million (ppm) or Milligrams per liter (mg/L) - One part per million corresponds to one minute in two years or a single penny in \$10,000. Parts per billion (ppb) or Micrograms per liter (ug/L) - One part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000. **Picocuries per liter** (pCi/L) - Picocuries per liter is a measure of the radioactivity in water.

Nephelometric Turbidity Unit (NTU) - Nephelometric turbidity unit is a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

Action Level (AL) - The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow. Treatment Technique (TT) - A required process intended to reduce the level of a contaminant in drinking water.

Maximum Residual Disinfection Level (MRDL) - The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

Maximum Residual Disinfection Level Goal (MRDLG) - The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

Locational Running Annual Average (LRAA) - The average of sample analytical results for samples taken at a particular monitoring location during the previous four calendar quarters under the Stage 2 Disinfectants and Disinfection Byproducts Rule.

Maximum Contaminant Level (MCL) - The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

Maximum Contaminant Level Goal (MCLG) - The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

#### **Tables of Detected Contaminants**

### Water Quality Data Tables Town of Selma PWS # (03-51-015)

# **REVISED TOTAL COLIFORM RULE:**

Microbiological Contaminants in the Distribution System - For systems that collect less than 40 samples per month

Contaminant (units)	MCL Violation Y/N	Your Water	MCLG	MCL	Likely Source of Contamination
Total Coliform Bacteria	Ν	0	N/A	 	Naturally present
(presence or absence)	19	0	11/71	11	in the environment
<i>E. coli</i> (presence or absence)	N	0	0	Routine and repeat samples are total coliform-positive and either is <i>E. coli</i> -positive or system fails to take repeat samples following <i>E. coli</i> -positive routine sample or system fails to analyze total coliform-positive repeat sample for <i>E. coli</i> <u>Note</u> : If either an original routine sample and/or its repeat samples(s) are <i>E. coli</i> positive, a Tier 1 violation exists.	Human and animal fecal waste

\* If a system collecting fewer than 40 samples per month has two or more positive samples in one month, an assessment is required.

# Lead and Copper Contaminants

Contaminant (units)	Sample Date	Your Water	Number of sites found above the AL	MCLG	AL	Likely Source of Contamination
Copper (ppm) (90 <sup>th</sup> percentile)	7/22/20	0.082	0	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits
Lead (ppb) (90 <sup>th</sup> percentile)	7/22/20	ND	1	0	AL=15	Corrosion of household plumbing systems; erosion of natural deposits

## **Disinfectant Residuals Summary**

Disinfectant Residuals	Year Sampled	MRDL Violation Y/N	Your Water (highest RAA)		ange High	MRDLG	MRDL	Likely Source of Contamination
Chlorine (ppm)	2020	Ν	1.81	0.90	2.46	4	4.0	Water additive used to control microbes

## Stage 2 Disinfection Byproduct Compliance - Based upon Locational Running Annual Average (LRAA)

Disinfection Byproduct	Year Sampled	MCL Violation Y/N	Your Water (highest LRAA)	Range Low High	MCLG	MCL	Likely Source of Contamination
TTHM (ppb)	2020	Ν	14		N/A	80	
B01				11			Byproduct of drinking water disinfection
B02				14			
HAA5 (ppb)	2020	Ν	9		N/A	60	
B01				7			Byproduct of drinking water disinfection
B02				9			

# Water Quality Data Tables Town of Selma County Line PWS # (40-51-009)

ead and Copp	er Contamin	ants							
Contaminant (u	inits)	Sample Date	Your Water		ites found e the AL	MCLO	ĩ	AL	Likely Source of Contamination
Copper (ppm) (90 <sup>th</sup> percentile	)	7/18/18	ND		0	1.3		AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits
Lead (ppb) (90 <sup>th</sup> percentile	)	7/18/18	ND		0	0		AL=15	Corrosion of household plumbing systems, erosion of natural deposits
tage 2 Disinfe	ction Byprod	uct Complian	ce - Based	upon L	ocational 1	Running	g Annual A	verage (LF	RAA)
Disinfection Byproduct	Year Sampled	MCL Violation Y/N	Your Your (highest		Rang Low	ge High	MCLG	MCL	Likely Source of Contamination
TTHM (ppb)	2020	Ν	5	3			N/A	80	
B01					35	91			Byproduct of drinking water disinfection
B02					42	42			
HAA5 (ppb)	2020	Ν	2	5			N/A	60	
B01					19	19			Byproduct of drinking water disinfection
B02					20	43			
isinfectant Re	siduals Sum	mary				I		•	

Lead and Copp	er Containin	ants								
Contaminant (u	units)	Sample Date	Your Water		ites found te the AL	MCLG		AL	1	Likely Source of Contamination
Copper (ppm) (90 <sup>th</sup> percentile)	)	7/18/18	ND		0	1.3		AL=1.3		Corrosion of household plumbing systems; erosion of natural deposits
Lead (ppb) (90 <sup>th</sup> percentile)	)	7/18/18	ND		0	0		AL=15		Corrosion of household plumbing systems, erosion of natural deposits
tage 2 Disinfe	ction Byprod	uct Complian	ce - Based	upon L	ocational I	Running	Annual A	verage (LF	RAA)	
Disinfection Byproduct	Year Sampled	MCL Violation Y/N	Your V (highest)		Rang Low	e High	MCLG	MCL		Likely Source of Contamination
TTHM (ppb)	2020	Ν	53	3			N/A	80		
B01					35	91			Byprodu	act of drinking water disinfection
B02					42	42				
HAA5 (ppb)	2020	Ν	25	5			N/A	60		
B01					19	19			Byprodu	act of drinking water disinfection
B02					20	43			1	
isinfectant Re	siduals Sum	nary	1		1			1	1	

Disinfectant Residuals	Year Sampled	MRDL Violation Y/N	Your Water (highest RAA)		nge High	MRDLG	MRDL	Likely Source of Contamination
Chlorine (ppm)	2020	Ν	1.69	0.45	2.53	4	4.0	Water additive used to control microbes
		Wate	er Quality Data	Table(s	) Johnst	on County E	ast PWS# 40	-51-018

Disinfection Byproduct	Units	MCLG	MCL		Water st LRAA)	Range	Yea Samp		MCL/Violation (Yes / No)		Likely Source of Co	ontamination
TTHM	ppb	N/A	80	ť	68		2020	0	No	Byproduct	of drinking water disin	fection
B01						28 - 84						
B02						30 - 110						
B03						32 - 106						
B04						10 - 39						
IAA5	ppb	N/A	60	3	33		2020	0	No	Byproduct	of drinking water chlor	rination
B01						21 - 35						
B02						26 - 42						
B03	-					26 - 33	_			-		
B04 norganic Contan	ninonto					2 - 16						
IUI YAI IIC CUIItali	<u>IIII Idi Ils</u>			1						Erosion of	natural deposits; Wate	er additive which prom
luoride	ppm	4	4	0	.22	N/A	2020	0	No		th; discharge from ferti	
ossible that lead	levels at y	our home m	ay be hi	gher than	at other ho	mes in the con	nmunity as	a result (	of materials us	ed in your hor	ig water than the gene me's plumbing. If you a	are concerned about
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