

# 2019 ANNUAL DRINKING WATER QUALITY REPORT

South Granville Water and Sewer Authority (SGWASA)  
PWSID #02-39-107  
June, 2020

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 source(s) 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 Jonathan Yancey, Water Plant Superintendent at 919- 575-3118 or contact SGWASA Customer Service at 919-575-3367 weekdays between the hours of 8:30 am – 4:30 pm. We want our valued customers to be informed about their water utility. Should you want to learn more SGWASA, then please consider attending any of our regularly scheduled monthly Board meetings. The Board meetings are held at 6:00 pm on the 2<sup>nd</sup> Tuesday of the month, at the Butner Town Hall. Please see our website at [www.sgwasa.org](http://www.sgwasa.org) for more information.

The SGWASA Water Plant routinely monitors for contaminants in your drinking water according to federal and state laws. This report shows the results of our monitoring for the period January 1st through December 31st, 2019 and includes contaminant testing results from previous years that were not scheduled to be tested in 2019.

## **SGWASA WATER SOURCE**

Our water source is R.D. Holt Reservoir located off old oxford highway 75 just northwest of Butner, NC. This is a 2.2 billion gallon surface supply covering an area of approximately 374 acres. It is part of the upper Neuse River Basin. Holt reservoir is nestled within a heavily forested watershed (75%) that helps to minimize outside impacts on the lake itself. It also provides excellent seasonal non-contact (no swimming or water-skiing allowed) recreation such as fishing, boating and picnicking. The lake has the ability to provide over 13 million gallons of water for treatment each day. As you can see, R.D. Holt Reservoir is a valuable resource for the SGWASA.

## **HOW DOES SGWASA TREAT YOUR WATER**

Raw water from R.D. Holt Reservoir is treated at the SGWASA Water Plant. The plant has the ability to treat up to 7.5 million gallons of water a day. The treatment process has 5 main steps: coagulation, flocculation, sedimentation, filtration and disinfection. First, chemicals are added to the raw water where they form solid material around solid particles such as silt, mud, sand, etc. As these particles move along the treatment process, they clump together forming larger and heavier particles. These particles are allowed to settle to the bottom of large settling basins where they can be removed at a later time. The water then gets its first addition of disinfectant, chlorine, to eliminate any bacteria that may be present before flowing through filters. The filters remove any remaining particles in the water. Finally, one last dose of disinfectant, chloramines is added to ensure that the water is safe to drink when it reaches the consumers tap.

The SGWASA Water Plant laboratory is certified by the State of North Carolina for bacteriological analysis. Lab staff has gained individual certifications through the State Laboratory of Public Health voluntary certification program. Compliance and process control monitoring are routinely performed with all National Primary Drinking Water Regulations being met. If you have any questions about the contents of this report, please contact Jonathan Yancey, Water Plant Superintendent at (919) 575-3118.

## What EPA Wants You to Know

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

The water that is used by this system is surface water from Knapp of Reeds Creek Impoundment (Holt Reservoir) and is located off Old Highway 75 just northwest of Butner.

### Source Water Assessment Program (SWAP) Results

The North Carolina Department of Environment and Natural Resources (DENR), 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 SGWASA 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)

Source Name	Susceptibility Rating	SWAP Report Date
Knapp of Reeds Creek Impoundment (Holt Reservoir)	Lower	July 17, 2017

The complete SWAP Assessment report for SGWASA 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](mailto: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.

### Help Protect Your Source Water

Protection of drinking water is everyone’s responsibility. You can help protect your community’s drinking water source(s) in several ways: (examples: dispose of chemicals properly; take used motor oil to a recycling center, volunteer in your community to participate in group efforts to protect your source, etc.).

### Violations that Your Water System Received for 2019

NONE

### Water Quality Data Table of Detected Contaminants

We routinely monitor for over 150 contaminants in your drinking water according to Federal and State laws. The table below lists 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, 2019.** The EPA or the State requires 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.

Unregulated contaminants are those for which EPA has not established drinking water standards. The purpose of unregulated contaminant monitoring is to assist EPA in determining the occurrence of unregulated contaminants in drinking water and whether future regulation is warranted.

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### **Important Drinking Water Definitions:**

**Not-Applicable (N/A)** – Information not applicable/not required for that particular water system or for that particular rule.

**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.

**Parts per trillion (ppt) or Nanograms per liter (nanograms/L)** - One part per trillion corresponds to one minute in 2,000,000 years, or a single penny in \$10,000,000,000.

**Parts per quadrillion (ppq) or Picograms per liter (picograms/L)** - One part per quadrillion corresponds to one minute in 2,000,000,000 years or one penny in \$10,000,000,000,000.

**Picocuries per liter (pCi/L)** - Picocuries per liter is a measure of the radioactivity in water.

**Million Fibers per Liter (MFL)** - Million fibers per liter is a measure of the presence of asbestos fibers that are longer than 10 micrometers.

**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.

**Level 1 Assessment** - A Level 1 assessment is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system.

**Level 2 Assessment** - A Level 2 assessment is a very detailed study of the water system to identify potential problems and determine (if possible) why an E. coli MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.

**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

### 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 (presence or absence)	N	0	N/A	TT*	Naturally present 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 sample(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.

#### Microbiological Contaminants in the Source Water

Fecal Indicator	Number of "Positive/Present" Samples	Date(s) of fecal indicator-positive source water samples	Source of fecal contamination, if known	Significant Deficiency Cited by the State? Y/N (If "Y", see explanation below)	MCLG	MCL	Likely Source of Contamination
<i>E. coli</i> , (presence or absence)	0	NA		N	0	0	Human and animal fecal waste
<i>enterococci</i> or coliphage, (presence or absence)	0	NA		N	N/A	TT	Human and animal fecal waste

#### Turbidity\*

Contaminant (units)	Treatment Technique (TT) Violation Y/N	Your Water	MCLG	Treatment Technique (TT) Violation if:	Likely Source of Contamination
Turbidity (NTU) - Highest single turbidity measurement	N	.29	N/A	Turbidity > 1 NTU	Soil runoff
Turbidity (NTU) - Lowest monthly percentage (%) of samples meeting turbidity limits	N	100 %	N/A	Less than 95% of monthly turbidity measurements are ≤0.3 NTU	

\* 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.

## Inorganic Contaminants

Contaminant (units)	Sample Date	MCL Violation Y/N	Your Water	Range		MCLG	MCL	Likely Source of Contamination
				Low	High			
Antimony (ppb)	7/2/19	N	ND	NA		6	6	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder
Arsenic (ppb)	7/2/19	N	ND	NA		0	10	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes
Barium (ppm)	7/2/19	N	ND	NA		2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Beryllium (ppb)	7/2/19	N	ND	NA		4	4	Discharge from metal refineries and coal-burning factories; discharge from electrical, aerospace, and defense industries
Cadmium (ppb)	7/2/19	N	ND	NA		5	5	Corrosion of galvanized pipes; erosion of natural deposits; discharge from metal refineries; runoff from waste batteries and paints
Chromium (ppb)	7/2/19	N	ND	NA		100	100	Discharge from steel and pulp mills; erosion of natural deposits
Cyanide (ppb)	7/2/19	N	ND	NA		200	200	Discharge from steel/metal factories; discharge from plastic and fertilizer factories
Fluoride (ppm)	7/2/19	N	.68	0.2– 1.0		4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Mercury (inorganic) (ppb)	7/2/19	N	ND	NA		2	2	Erosion of natural deposits; discharge from refineries and factories; runoff from landfills; runoff from cropland
Selenium (ppb)	7/2/19	N	ND	NA		50	50	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines
Thallium (ppb)	7/2/19	N	ND	NA		0.5	2	Leaching from ore-processing sites; discharge from electronics, glass, and drug factories

## Nitrate/Nitrite Contaminants

Contaminant (units)	Sample Date	MCL Violation Y/N	Your Water	Range		MCLG	MCL	Likely Source of Contamination
				Low	High			
Nitrate (as Nitrogen) (ppm)	7/2/19	N	ND	N/A		10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Nitrite (as Nitrogen) (ppm)	7/2/19	N	ND	N/A		1	1	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits

**Nitrate:** Nitrate in drinking water at levels above 10 ppm is a health risk for infants of less than six months of age. High nitrate levels in drinking water can cause blue baby syndrome. Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity. If you are caring for an infant you should ask advice from your health care provider.

## Asbestos Contaminant

Contaminant (units)	Sample Date	MCL Violation Y/N	Your Water	Range		MCLG	MCL	Likely Source of Contamination
				Low	High			
Total Asbestos (MFL)	2/22/11	N	0			7	7	Decay of asbestos cement water mains; erosion of natural deposits

## Unregulated Inorganic Contaminants

Contaminant (units)	Sample Date	Your Water (average)	Range	
			Low	High
Nickel (ppm)	7/1/19	ND	NA	
Sodium (ppm)	7/1/19	35.7	NA	

### Synthetic Organic Chemical (SOC) Contaminants Including Pesticides and Herbicides

Contaminant (units)	Sample Date	MCL Violation Y/N	Your Water	Range		MCLG	MCL	Likely Source of Contamination
				Low	High			
2,4-D (ppb)	7/9/18	N	ND			70	70	Runoff from herbicide used on row crops
2,4,5-TP (Silvex) (ppb)	7/9/18	N	ND			50	50	Residue of banned herbicide
Alachlor (ppb)	7/9/18	N	ND			0	2	Runoff from herbicide used on row crops
Atrazine (ppb)	7/9/18	N	ND			3	3	Runoff from herbicide used on row crops
Benzo(a)pyrene (PAH) (ppt)	7/9/18	N	ND			0	200	Leaching from linings of water storage tanks and distribution lines
Carbofuran (ppb)	7/9/18	N	ND			40	40	Leaching of soil fumigant used on rice and alfalfa
Chlordane (ppb)	7/9/18	N	ND			0	2	Residue of banned termiticide
Dalapon (ppb)	7/9/18	N	ND			200	200	Runoff from herbicide used on rights of way
Di(2-ethylhexyl) adipate (ppb)	7/9/18	N	ND			400	400	Discharge from chemical factories
Di(2-ethylhexyl) phthalate (ppb)	7/9/18	N	ND			0	6	Discharge from rubber and chemical factories
DBCP [Dibromochloropropane] (ppt)	7/9/18	N	ND			0	200	Runoff/leaching from soil fumigant used on soybeans, cotton, pineapples, and orchards
Dinoseb (ppb)	7/9/18	N	ND			7	7	Runoff from herbicide used on soybeans and vegetables
Endrin (ppb)	7/9/18	N	ND			2	2	Residue of banned insecticide
EDB [Ethylene dibromide] (ppt)	7/9/18	N	ND			0	50	Discharge from petroleum refineries
Heptachlor (ppt)	7/9/18	N	ND			0	400	Residue of banned pesticide
Heptachlor epoxide (ppt)	7/9/18	N	ND			0	200	Breakdown of heptachlor
Hexachlorobenzene (ppb)	7/9/18	N	ND			0	1	Discharge from metal refineries and agricultural chemical factories
Hexachlorocyclopentadiene (ppb)	7/9/18	N	ND			50	50	Discharge from chemical factories
Lindane (ppt)	7/9/18	N	ND			200	200	Runoff/leaching from insecticide used on cattle, lumber, gardens
Methoxychlor (ppb)	7/9/18	N	ND			40	40	Runoff/leaching from insecticide used on fruits, vegetables, alfalfa, livestock
Oxamyl [Vydate] (ppb)	7/9/18	N	ND			200	200	Runoff/leaching from insecticide used on apples, potatoes and tomatoes
PCBs [Polychlorinated biphenyls] (ppt)	7/9/18	N	ND			0	500	Runoff from landfills; discharge of waste chemicals
Pentachlorophenol (ppb)	7/9/18	N	ND			0	1	Discharge from wood preserving factories
Picloram (ppb)	7/9/18	N	ND			500	500	Herbicide runoff
Simazine (ppb)	7/9/18	N	ND			4	4	Herbicide runoff
Toxaphene (ppb)	7/9/18	N	ND			0	3	Runoff/leaching from insecticide used on cotton and cattle

## Volatile Organic Chemical (VOC) Contaminants

Contaminant (units)	Sample Date	MCL Violation Y/N	Your Water	Range		MCLG	MCL	Likely Source of Contamination
				Low	High			
Benzene (ppb)	7/1/19	N	ND			0	5	Discharge from factories; leaching from gas storage tanks and landfills
Carbon tetrachloride (ppb)	7/1/19	N	ND			0	5	Discharge from chemical plants and other industrial activities
Chlorobenzene (ppb)	7/1/19	N	ND			100	100	Discharge from chemical and agricultural chemical factories
o-Dichlorobenzene (ppb)	7/1/19	N	ND			600	600	Discharge from industrial chemical factories
p-Dichlorobenzene (ppb)	7/1/19	N	ND			75	75	Discharge from industrial chemical factories
1,2 – Dichloroethane (ppb)	7/1/19	N	ND			0	5	Discharge from industrial chemical factories
1,1 – Dichloroethylene (ppb)	7/1/19	N	ND			7	7	Discharge from industrial chemical factories
cis-1,2-Dichloroethylene (ppb)	7/1/19	N	ND			70	70	Discharge from industrial chemical factories
trans-1,2-Dichloroethylene (ppb)	7/1/19	N	ND			100	100	Discharge from industrial chemical factories
Dichloromethane (ppb)	7/1/19	N	ND			0	5	Discharge from pharmaceutical and chemical factories
1,2-Dichloropropane (ppb)	7/9/18	N	ND			0	5	Discharge from industrial chemical factories
Ethylbenzene (ppb)	7/1/19	N	ND			700	700	Discharge from petroleum refineries
Styrene (ppb)	7/1/19	N	ND			100	100	Discharge from rubber and plastic factories; leaching from landfills
Tetrachloroethylene (ppb)	7/1/19	N	ND			0	5	Discharge from factories and dry cleaners
1,2,4 – Trichlorobenzene (ppb)	7/1/19	N	ND			70	70	Discharge from textile-finishing factories
1,1,1 – Trichloroethane (ppb)	7/1/19	N	ND			200	200	Discharge from metal degreasing sites and other factories
1,1,2 – Trichloroethane (ppb)	7/1/19	N	ND			3	5	Discharge from industrial chemical factories
Trichloroethylene (ppb)	7/1/19	N	ND			0	5	Discharge from metal degreasing sites and other factories
Toluene (ppm)	7/1/19	N	ND			1	1	Discharge from petroleum factories
Vinyl Chloride (ppb)	7/1/19	N	ND			0	2	Leaching from PVC piping; discharge from plastics factories
Xylenes (Total) (ppm)	7/1/19	N	ND			10	10	Discharge from petroleum factories; discharge from chemical factories

## Unregulated Contaminants UCMR4

Unregulated contaminants are those for which EPA has not established drinking water standards. The purpose of unregulated contaminant monitoring is to assist EPA in determining the occurrence of the unregulated contaminants in drinking water and whether future regulations are warranted.

Contaminant (units)	Sample Date	Sample Point	RDL	Your water (AVG)	RANGE LOW HIGH	SMCL
Chromium, ug/L	12/08/15	EP	0.2	0.50	0.30 - 0.70	Naturally-occurring element: used in making steel and other alloys. Chromium-3 or -6 are used for chrome plating, dyes and pigments, leather tanning and wood preservation.
Chromium, ug/L	12/08/15	MRT	0.2	0.45	0.40 - 0.50	
Chromium(VI), ug/L	12/08/15	EP	0.03	0.32	0.27 - 0.38	Naturally-occurring element: used in making steel and other alloys. Chromium-3 or -6 are used for chrome plating, dyes and pigments, leather tanning and wood preservation.
Chromium(VI), ug/L	12/08/15	MRT	0.03	0.31	0.25 - 0.41	



Contaminant (units)	Sample Date	Sample Point	RDL	Your water (AVG)	RANGE LOW HIGH	SMCL
Strontium, ug/L	12/08/15	EP	0.3	32	28.7 - 35.4	Naturally-occurring element :historically, commercial use of strontium has been in the face plate glass of cathode-ray tube televisions to block x-ray emission
Strontium, ug/L	12/08/15	MRT	0.3	32	30.1 - 35.2	
Chlorate, ug/L	12/08/15	EP	20	187	88 - 310	Agricultural defoliant or desiccant; used in the production of chlorine dioxide.

### 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)	12/31/19	.264	0	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits
Lead (ppb) (90 <sup>th</sup> percentile)	12//31/19	0.005	4	0	AL=15	Corrosion of household plumbing systems; erosion of natural deposits

### Radiological Contaminants

Contaminant (units)	Sample Date	MCL Violation Y/N	Your Water	Range Low High	MCLG	MCL	Likely Source of Contamination
Alpha emitters (pCi/L)	11/2/17	N	ND		0	15	Erosion of natural deposits
Beta/photon emitters (pCi/L)	11/2/17	N	ND		0	50 *	Decay of natural and man-made deposits
Combined radium (pCi/L)	11/2/17	N	ND		0	5	Erosion of natural deposits
Uranium (pCi/L)	11/2/17	N	ND		0	20.1	Erosion of natural deposits

\* Note: The MCL for beta/photon emitters is 4 mrem/year. EPA considers 50 pCi/L to be the level of concern for beta particles.

### Total Organic Carbon (TOC)

Contaminant (units)	TT Violation Y/N	Your Water (RAA Removal Ratio)	Range Monthly Removal Ratio Low - High	MCLG	TT	Likely Source of Contamination	Compliance Method (Step 1 or ACC#_)
Total Organic Carbon (removal ratio) (TOC)-TREATED	N	1.84	1.73-2.22	N/A	TT	Naturally present in the environment	

### Disinfectant Residuals Summary

	Year Sampled	MRDL Violation Y/N	Your Water (highest RAA)	Range Low High	MRDLG	MRDL	Likely Source of Contamination
Chlorine (ppm)	2019	N	2.3	0.8 2.6	4	4.0	Water additive used to control microbes
Chloramines (ppm)	2019	N	2.8	2.8 3.1	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		MCLG	MCL	Likely Source of Contamination
				Low	High			
<b>TTHM (ppb)</b>						N/A	<b>.80</b>	<b>Byproduct of drinking water disinfection</b>
Coley RD (B01)	20 19	N	.021	.011	.021			
Butner Stem Elementary (B02)	20 19	N	.021	.011	.021			
Carriage Hill (B03)	20 19	N	.022	.010	.022			
Skipping Stone (B04)	20 19	N	.021	.010	.021			
Hwy 56 Mt Energy (B05)	20 19	N	.020	.009	.020			
Tar River (B06)	20 19	N	.019	.010	.019			
<b>HAA5 (ppb)</b>						N/A	<b>.060</b>	<b>Byproduct of drinking water disinfection</b>
Coley RD (B01)	20 19	N	.026	.015	.026			
Butner Stem Elementary (B02)	20 19	N	.038	.018	.038			
Carriage Hill (B03)	20 19	N	.035	.019	.035			
Skipping Stone (B04)	20 19	N	.020	.011	.020			
Hwy 56 Mt Energy (B05)	20 19	N	.017	.001	.017			
Tar River (B06)	20 19	N	.018	.001	.018			

**For TTHM:** *Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous systems, and may have an increased risk of getting cancer.*

**For HAA5:** *Some people who drink water containing halo acetic acids in excess of the MCL over many years may have an increased risk of getting cancer.*

The PWS Section requires monitoring for other misc. contaminants, some for which the EPA has set national secondary drinking water standards (SMCLs) because they may cause cosmetic effects or aesthetic effects (such as taste, odor, and/or color) in drinking water. The contaminants with SMCLs normally do not have any health effects and normally do not affect the safety of your water.

**Other Miscellaneous Water Characteristics Contaminants**

Contaminant (units)	Sample Date	Your Water	Range		SMCL
			Low	High	
Iron (ppm)	7/1/19	ND	NA		0.3 mg/L
Manganese (ppm)	7/1/19	.015	NA		0.05 mg/L
Nickel (ppm)	7/1/19	ND	NA		N/A
Sodium (ppm)	7/1/19	35.7	NA		N/A
Sulfate (ppm)	7/1/19	32	NA		250 mg/L
pH	7/1/19	7.60	NA		6.5 to 8.5

## ***Cryptosporidium***

Our system monitored for *Cryptosporidium* and found levels of 0.091 oocysts on March 10, 2017.

*Cryptosporidium* is a microbial pathogen found in surface water throughout the U.S. Although filtration removes *Cryptosporidium*, the most commonly-used filtration methods cannot guarantee 100 percent removal. Our monitoring indicates the presence of these organisms in our source water and/or finished water. Current test methods do not allow us to determine if the organisms are dead or if they are capable of causing disease. Ingestion of *Cryptosporidium* may cause cryptosporidiosis, an abdominal infection. Symptoms of infection include nausea, diarrhea, and abdominal cramps. Most healthy individuals can overcome the disease within a few weeks. However, immuno-compromised people, infants and small children, and the elderly are at greater risk of developing life-threatening illness. We encourage immuno-compromised individuals to consult their doctor regarding appropriate precautions to take to avoid infection. *Cryptosporidium* must be ingested to cause disease, and it may be spread through means other than drinking water.

### **What does this mean?**

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 contaminants are available from the **Safe Drinking Water Hotline at 1-800-426-4791**.

We, at the SGWASA Water Treatment Plant, work twenty-four hours a day to provide top quality water to every tap. We ask that all our customers help us to protect our water sources, which are the heart of our community, our way of life and our children's future.

### **WHAT CAN YOU DO TO PROTECT DRINKING WATER?**

**Get involved with water issues.** Contact the water plant at (919) 575-3118 for information.

**Use water wisely.** Check your plumbing for leaks and fix them. Use water for irrigation only in the early morning or late evening.

**Be environmentally conscious around the lake.** Try to prevent oil and fuel spills while boating. Minimize pet waste to the lake.

More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency Safe Drinking Water Hotline at **1-800-426-4791**.

## **SGWASA**

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