

2019 Testing results for Consumer Confidence Report for the Town of Mayodan Water Plant

Total Coliform Bacteria: No Violation - Non-Detect

Turbidity: No Violation

Results 0.02 - 0.22 NTU. Our yearly average is 0.03 NTU

Year	Code	Analyte Name	Highest_Value	Lowest_Value	RAA	UOM
2019	0999	CHLORINE	1.62	0.4	1.25	MG/L

2019 Test date

Lead: Non Detect

Copper: ND – 0.145 mg/l 90% .104

TTHM: No RAA Violation, level detected 21.0 – 51.9 (32.38 avg.) ppb

HAA5: No Violation, level detected 31.2 – 54.0 (42.78 avg.) ppb

Disinfection By-Product Precursor Contaminants: Jan.—Dec. 2019

*Our water system used ACC 1 as the method used to comply with d/DBP treatment technique requirements

Contaminant (units)	Sample Date	MCL/TT Violation Y/N	Your Water TOC AVG	Range		MCLG	MCL	Likely Source of Contamination
				Low	High			
Total Organic Carbon (ppm) (TOCs)-RAW	2019	N	1.25	ND	1.7	N/A	TT	Naturally present in the environment
Total Organic Carbon (ppm) (TOCs)-TREATED	2019	N	ND	ND	1.2	N/A	TT	Naturally present in the environment

Note: Depending on the TOC and Alkalinity in our source water the system MUST have a certain % removal of TOC or must achieve alternative compliance criteria. If we do not achieve that % removal there is an "alternative % removal". If we fail to meet that, we are in violation of a Treatment Technique. *Our source water alkalinity is 0 – 60 mg/l with a source water TOC of <2.0 mg/l. Our removal ratio is 100% for 4 quarters. **We have 100% avg. removal for 2019**

Unregulated Volatile Organic Chemicals Detected: 2019

All Non detect

Inorganic Contaminants Detected: 2019

Sodium: 8.8 mg/l.

June 2013 Asbestos: Non Detect

Cryptosporidium: Test date January 2019 – December 2019

Our system monitored source water (Mayo River) for Cryptosporidium and found levels consistently below reporting level (1.0 oocysts/L). 4 out of 24 samples showed minimal detectable results of 0.1 oocysts/L. 21 out of 24 samples revealed non detectable results. Giardia all below reporting level of 1 cysts/L. Our range 0-0.8

Water is a limited and valuable resource. Be Water Smart!

The sources of all drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs and wells. One source of contamination is from urban storm runoff. Help keep our water sources clean. The Town of Mayodan uses water from the Mayo River as its source for water. It is pumped to the Mayodan Water Treatment Facility where it goes through several treatment steps. First, raw water is mixed with aluminum sulfate in a contact chamber which causes small particles to adhere to one another (coagulation). The particles are allowed to settle to the bottom of large settling basins (sedimentation). The water then flows through filters of carbon and sand to remove remaining small particles (filtration). Finally the water is disinfected to ensure that our water is safe to drink when it reaches the customers.

Source Water Assessment Program

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 the Town of Mayodan 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
Mayo River	Moderate

The complete SWAP Assessment report for the Town of Mayodan may be viewed on the Web at: <http://www.deh.enr.state.nc.us/pws/swap> To obtain a printed copy of this report, please mail a written request to: Source Water Assessment Program – Report Request, 1634 Mail Service Center, Raleigh NC 27699-1634, or email request to swap@ncmail.net. Please indicate your system name, PWSID, 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 919-715-2633.

It is important to understand that a susceptibility rating of “higher” does not imply poor water quality, only the systems’ potential to become contaminated by PCS’s in the assessment area.

Sample No.	Site	Date	Result	Units	Analyte	Laboratory
8456-091019-111P	LCR	09-10-2019	no detect		COPPER, FREE	ENVIRONMENT 1
8456-091019-108P	LCR	09-10-2019	no detect		COPPER, FREE	ENVIRONMENT 1
8456-091019-107P	LCR	09-10-2019	.145	MG/L	COPPER, FREE	ENVIRONMENT 1
8456-091019-103P	LCR	09-10-2019	.096	MG/L	COPPER, FREE	ENVIRONMENT 1
8456-091019-102P	LCR	09-10-2019	.104	MG/L	COPPER, FREE	ENVIRONMENT 1
8456-091019-101P	LCR	09-10-2019	no detect		COPPER, FREE	ENVIRONMENT 1
8456-090919-110P	LCR	09-09-2019	no detect		COPPER, FREE	ENVIRONMENT 1
8456-090919-106P	LCR	09-09-2019	no detect		COPPER, FREE	ENVIRONMENT 1
8456-090919-104P	LCR	09-09-2019	no detect		COPPER, FREE	ENVIRONMENT 1
8456-090919-100P	LCR	09-09-2019	no detect		COPPER, FREE	ENVIRONMENT 1

PBCU Sample Results						
Sample No.	Site	Date	Result	Units	Analyte	Laboratory
8456-091019-111P	LCR	09-10-2019	no detect		LEAD	ENVIRONMENT 1
8456-091019-108P	LCR	09-10-2019	no detect		LEAD	ENVIRONMENT 1
8456-091019-107P	LCR	09-10-2019	no detect		LEAD	ENVIRONMENT 1
8456-091019-103P	LCR	09-10-2019	no detect		LEAD	ENVIRONMENT 1
8456-091019-102P	LCR	09-10-2019	no detect		LEAD	ENVIRONMENT 1
8456-091019-101P	LCR	09-10-2019	no detect		LEAD	ENVIRONMENT 1
8456-090919-110P	LCR	09-09-2019	no detect		LEAD	ENVIRONMENT 1
8456-090919-106P	LCR	09-09-2019	no detect		LEAD	ENVIRONMENT 1
8456-090919-104P	LCR	09-09-2019	no detect		LEAD	ENVIRONMENT 1
8456-090919-100P	LCR	09-09-2019	no detect		LEAD	ENVIRONMENT 1

TTHM

D01	B01	4Q2019	0.034 mg/l	4	2950
D01	B01	4Q2019	0.043 mg/l	4	2456
D01	B01	3Q2019	0.036 mg/l	4	2950
D01	B01	3Q2019	0.039 mg/l	4	2456
D01	B01	2Q2019	0.033 mg/l	4	2950
D01	B01	2Q2019	0.037 mg/l	4	2456
D01	B01	1Q2019	0.036 mg/l	4	2950
D01	B01	1Q2019	0.036 mg/l	4	2456

D01	B02	4Q2019	0.031 mg/l	4	2950
D01	B02	4Q2019	0.043 mg/l	4	2456

D01	B02	3Q2019	0.031 mg/l	4	2950
D01	B02	3Q2019	0.039 mg/l	4	2456
D01	B02	2Q2019	0.040 mg/l	4	2950
D01	B02	2Q2019	0.039 mg/l	4	2456
D01	B02	1Q2019	0.050 mg/l	4	2950
D01	B02	1Q2019	0.040 mg/l	4	2456