

2025 Annual Drinking Water Quality Report

Town of Mount Pleasant

Water System Number: NC 01-13-020

Este informe contiene información muy importante sobre su agua potable. Tradúzcalo o hable con alguien que lo entienda bien.

Introduction

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 Trent Christenbury at 704-436-1269 or Town Hall at 704-436-9800. We want our valued customers to be informed about their water utility. If you want to learn more, please attend any of our regularly scheduled Town Council meetings. They are held at Town Hall Auditorium, 8590 Park Dr, at 6:00 PM on the second Tuesday of each month.**

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).

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

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.

Lead in Drinking Water

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 Mount Pleasant is responsible for providing high quality drinking water and removing lead pipes, but cannot control the variety of materials used in plumbing components in your home. You share the responsibility for protecting yourself and your family from the lead in your home plumbing. You can take responsibility by identifying and removing lead materials within your home plumbing and taking steps to reduce your family's risk. Before drinking tap water, flush your pipes for several minutes by running your tap, taking a shower, doing laundry or a load of dishes. You can also use a filter certified by an American National Standards Institute accredited certifier to reduce lead in drinking water. If you are concerned about lead in your water and wish to have your water tested, contact **the Town of Mount Pleasant, 704-436-9800**. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available at <http://www.epa.gov/safewater/lead>.

We have been working to identify service line materials throughout the water system and prepared an inventory of all service lines in our water system. To access this inventory, you may contact the Town's Public Works Department, 704-436-9800.

When You Turn on Your Tap, Consider the Source

The water that is used by this system is Dutch Buffalo Creek and is located at Meadowood Road.

This system purchases water from **City of Concord** (<https://concordnc.gov/Departments/Water-Resources/Annual-Reporting>) only during emergency conditions.

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 the **Town of Mount Pleasant** 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:

Source Name	Susceptibility Rating	SWAP Report Date
Black Run Creek Reservoir	Moderate	September 2020
Dutch Buffalo Creek	Moderate	September 2020
City of Concord – Lake Fisher	Higher	September 2020

The complete SWAP Assessment report for **the Town of Mount Pleasant** 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 website 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@deq.nc.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. We have implemented the following source water protection actions: Do not dump anything down the storm drainage system or in ditches; take used motor oil to recycling centers; properly dispose of household and other chemicals by participating in the County's Household Hazardous Waste Program.

Violations that Your Water System Received for the Report Year

During 2025, or during any compliance period that ended in 2025, the Town received TTHM/LRAA and HAA/LRAA violations that covered the time period of 2025 - Quarters 1, 2, 3, and 4. The Town has been working closely with NCDEQ staff during the past two years and has provided quarterly updates to NCDEQ regarding actions being taken to remedy the disinfection byproducts issue (HAA5 & TTHM). The Town has rehabilitated the Water Treatment Plant and many of its components in the Summer/Fall of 2025. The Town continues to make improvements to the water treatment process, including a powdered activated carbon (PAC) system to lower the total organic carbon (TOC), a precursor to disinfection byproducts (DBPs), to assure this does not happen again.

Violation Date	Violation	LRAA (mg/L)	Maximum Contaminant Level (MCL) (mg/L)
2/4/2025	TTHM	0.161	0.080
2/4/2025	HAA5	0.109	0.060
4/15/2025	TTHM	0.156	0.080
4/15/2025	HAA5	0.101	0.060
7/22/2025	TTHM	0.181	0.080
7/22/2025	HAA5	0.118	0.060
10/13/2025	TTHM	0.127	0.080
10/13/2025	HAA5	0.083	0.060

(HAA5)- Haloacetic Acids - include Monochloroacetic Acid, Dichloroacetic Acid, Trichloroacetic Acid, Monobromoacetic Acid, Dibromoacetic Acid.

(TTHM) - Total Trihalomethanes - include Chloroform, Bromoform, Bromodichloromethane, and Dibromochloromethane.

LRAA – Locational Running Annual Average – 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.

NOTICE TO THE PUBLIC

IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER

Violation Awareness Date:

We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not our drinking water meets health standards. During the compliance period specified in the table below, we did not monitor or test and/or did not complete all monitoring or testing for the contaminants listed and therefore cannot be sure of the quality of your drinking water during that time.

CONTAMINANT GROUP	FACILITY ID NO./ SAMPLE POINT ID	COMPLIANCE PERIOD BEGIN DATE	NUMBER OF SAMPLES/ SAMPLING FREQUENCY	WHEN SAMPLES WERE TAKEN (Returned to Compliance)

What should I do? There is nothing you need to do at this time.

What is being done? The Town of Mount Pleasant has been working diligently to address the disinfection byproducts (DBPs) in the drinking water which is a byproduct of total organic carbon (TOC) in the raw water and chlorine. In July 2025, the Town's Water Treatment Plant (WTP) was taken offline for a complete rehabilitation. The City of Concord was providing the Town drinking water from late July 2026 to early March 2026 while this work was completed. During this time, additional work was performed on the Clearwell and Ground Storage tanks, as well as the pumps and ancillary piping. The WTP returned to service in March 2026 and the Town is working to permit and install a powdered activated carbon (PAC) unit to battle the total organic carbons (TOCs) in the raw water, the precursor of disinfection byproducts (DBPs). The Locational Running Annual Average (LRAA) has exceeded the limits since 2024-Q1 (Jan 2024) but has been falling for 9 months. The Town's water system has been in compliance for the last three quarters (2025-Q4, 2026-Q1, & 2026-Q2) with only one minor exception and we expect the next quarter (2026-Q3) will be in compliance. By having the last four quarters in compliance, this should bring the LRAA into compliance as well.

Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.

For more information about violations, please contact the Trent Christenbury at 704-436-1269 or Town Hall at 704-436-9800.

Important Drinking Water Definitions:

Action Level (AL) - The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

Herbicide – Any chemical(s) used to control undesirable vegetation.

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.

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.

Pesticide – Generally, any substance or mixture of substances intended for preventing, destroying, repelling, or mitigating any pest.

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.

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.

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 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.

Running Annual Average (RAA) – The average of sample analytical results for samples taken during the previous four calendar quarters.

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, 2025.** 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.

Lead and Copper Contaminants

The table summarizes our most recent lead and copper tap sampling data. If you would like to review the complete lead tap sampling data, please contact the Town at 704-436-9800.							
Contaminant (units)	Sample Date	Your Water (90 th Percentile)	Number of sites found above the AL	Range Low - High	MCLG	AL	Likely Source of Contamination
Copper (ppm) (90 th percentile)	Dec 2025	0.1092	0	0.0584 – 0.141	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits
Lead (ppb) (90 th percentile)	Dec 2025	0	0	No Detect	0	AL=15	Corrosion of household plumbing systems; erosion of natural deposits
<p>Exposure to lead in drinking water can cause serious health effects in all age groups. Infants and children can have decreases in IQ and attention span. Lead exposure can lead to new learning and behavior problems or exacerbate existing learning and behavior problems. The children of women who are exposed to lead before or during pregnancy can have increased risk of these adverse health effects. Adults can have increased risks of heart disease, high blood pressure, kidney or nervous system problems.</p> <p>Copper is an essential nutrient, but some people who drink water containing copper in excess of the action level over a relatively short amount of time could experience gastrointestinal distress. Some people who drink water containing copper in excess of the action level over many years could suffer liver or kidney damage. People with Wilson's disease should consult their personal doctor.</p>							

Stage 2 Disinfection Byproducts (DBPs) Total Trihalomethanes (TTHM) and Haloacetic Acids (five) (HAA5)

Disinfection Byproduct	Year Sampled	MCL Violation Y/N	Your Water Average (ppb)	Range (ppb) Low - High	MCLG	MCL (ppb)	Likely Source of Contamination
TTHM (ppb)	2025	Y	BO1: 127.0 (Q4-2025) BO2: 118.0 (Q4-2025)	44.9 - 274.0	N/A	80	Byproduct of drinking water disinfection
HAA5 (ppb)	2025	Y	BO1: 79.8 (Q4-2025) BO2: 83.3 (Q4-2025)	20.8 - 185.0	N/A	60	Byproduct of drinking water disinfection
<p>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.</p> <p>Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer.</p>							

Disinfectant Residuals Summary

	MRDL Violation Y/N	Your Water (RAA)	Range (ppm) Low High	MRDLG	MRDL	Likely Source of Contamination
Chlorine (ppm)	N	0.96	0.02 - 2.2	4	4.0	Water additive used to control microbes

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)	4-2-25	N	Not Detected	NA		10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits

Inorganic Contaminants

Contaminant (units)	Sample Date	MCL Violation Y/N	Your Water	Range		MCLG	MCL	Likely Source of Contamination
				Low	High			
Antimony (ppb)	1-8-25	N	Not Detected	NA		6	6	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder
Arsenic (ppb)	1-8-25	N	Not Detected	NA		0	10	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes
Barium (ppm)	1-8-25	N	Not Detected	NA		2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Beryllium (ppb)	1-8-25	N	Not Detected	NA		4	4	Discharge from metal refineries and coal-burning factories; discharge from electrical, aerospace, and defense industries
Cadmium (ppb)	1-8-25	N	Not Detected	NA		5	5	Corrosion of galvanized pipes; erosion of natural deposits; discharge from metal refineries; runoff from waste batteries and paints
Chromium (ppb)	1-8-25	N	Not Detected	NA		100	100	Discharge from steel and pulp mills; erosion of natural deposits
Cyanide (ppb)	1-8-25	N	Not Detected	NA		200	200	Discharge from steel/metal factories; discharge from plastic and fertilizer factories
Fluoride (ppm)	1-8-25	N	0.84	NA		4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Mercury (inorganic) (ppb)	1-8-25	N	Not Detected	NA		2	2	Erosion of natural deposits; discharge from refineries and factories; runoff from landfills; runoff from cropland
Selenium (ppb)	1-8-25	N	Not Detected	NA		50	50	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines
Thallium (ppb)	1-8-25	N	Not Detected	NA		0.5	2	Leaching from ore-processing sites; discharge from electronics, glass, and drug factories

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	0.300 NTU	N/A	Turbidity > 1 NTU	Soil runoff
Turbidity (%) - 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.					

Total Organic Carbon (TOC)

Contaminant (units)	TT Violation Y/N	Your Water (lowest RAA)	Range Monthly Removal Ratio Low - High	MCLG	Treatment Technique (TT) violation if:	Likely Source of Contamination
Total Organic Carbon (TOC) Removal Ratio (no units)	N	1.06	0.78 - 1.89	N/A	Removal Ratio RAA <1.00 and alternative compliance criteria was not met	Naturally present in the environment

Other Miscellaneous Water Characteristics Contaminants

Contaminant (units)	Sample Date	Your Water	Range		SMCL
			Low	High	
Iron (ppm)	1-8-25	Not Detected		NA	0.3
Manganese (ppm)	1-8-25	Not Detected		NA	0.05
Nickel (ppm)	1-8-25	Not Detected		NA	N/A
Sodium (ppm)	1-8-25	9.73		NA	N/A
Sulfate (ppm)	1-8-25	Not Detected		NA	250
pH	1-8-25	7.3		NA	6.5 to 8.5

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.