

# Consumer Confidence Report

## *2023 Annual Drinking Water Quality Report*

### *Town of White Lake*

PWS ID# NC 03-09-030

We are pleased to present to you this year's Annual Drinking Water Quality Report. This report is designed to inform you about the quality of the water and services we deliver to you every day. 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. Our water source is from three ground wells that draw from the Black Creek Aquifer. The first well is located at Louise Street, the second is located at the North Carolina Department of Corrections, and the third is at the old airport in the area of the intersection of Hwy 701 and SR 1515.

We are pleased to report that our drinking water is safe and meets federal and state requirements.

If you have any questions about this report or concerning your water, please contact the Town of White Lake at 910-862-4800. 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 meetings held on the second Tuesday of each month at 7:00 PM in the Town Hall meeting room.

The Town of White Lake routinely monitors for contaminants in your drinking water according to Federal and State laws. This table shows the results of our monitoring for the period of January 1<sup>st</sup> to December 31, 2023, and the last test results of contaminants that were not due to be tested in 2023.

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

### **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. The Town of White Lake 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

The water that is used by this system is located on Town Property.

## 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 White Lake 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
Well # 1	Lower	September 2021
Well #2	Higher	September 2021
Well #3	Moderate	September 2021

The complete SWAP Assessment report for Town of White lake 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](mailto: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:  
Well Head Protection Plan

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 the Report Year

During 2023, or during any compliance period that ended in 2023, we received a Disinfection Byproducts (DBPs) Monitoring and Reporting Violation that covered the time period beginning January 1, 2023. We are/have implemented a more stringent policy to follow up on laboratory compliance to ensure this does not happen again.

# NOTICE TO THE PUBLIC

## IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER

Violation Awareness Date: April 13, 2023

*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' 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)
DISINFECTION BYPRODUCTS (DBPS)	D01/B01 AND B02	JANUARY 1, 2023	2 / QUARTLY (MONTH OF MARCH)	June 13, 2023

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

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

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

**What is being done?** . We are/have implemented a more stringent policy to follow up on laboratory compliance to ensure this does not happen again.

*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 this violation, please contact the responsible person listed in the first paragraph of this report.

### **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.
- **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.
- **Variances and Exceptions** – State or EPA permission not to meet an MCL or Treatment Technique under certain conditions.
- **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.
- **Running Annual Average (RAA)** – The average of sample analytical results for samples taken during the previous four calendar quarters.
- **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.

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## 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, 2023.** 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.

### Inorganic Contaminants

Contaminant (units)	Sample Date	MCL Violation Y/N	Your Water	Range		MCLG	MCL	Likely Source of Contamination
				Low	High			
Fluoride (ppm)	2022	N	.22ppm	.26	.41	4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories

50 pCi/L to be the level of concern for beta particles.

### Lead and Copper Contaminants

Contaminant (units)	Sample Date	Your Water (90 <sup>th</sup> Percentile)	Number of sites found above the AL	MCLG	AL	Likely Source of Contamination
Copper (ppm) (90 <sup>th</sup> percentile)	July 2023	.169	0	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits
Lead (ppb) (90 <sup>th</sup> percentile)	July 2023	.006	0	0	AL=15	Corrosion of household plumbing systems; erosion of natural deposits

### Disinfectant Residuals Summary

	MRDL Violation Y/N	Your Water (RAA)	Range		MRDLG	MRDL	Likely Source of Contamination
			Low	High			
Chlorine (ppm)	2023	0.88	0.25	1.5	4	4.0	Water additive used to control microbes

### Total Trihalomethanes (TTHM) and Haloacetic Acids (five) (HAA5)

Contaminant (units)	Year Sampled	MCL Violation Y/N	Your Water (highest LRAA)	Range		MCLG	MCL	Likely Source of Contamination
				Low	High			
TTHM (ppb)	2023	N				N/A	80	Byproduct of drinking water disinfection
B01			87	40.3	87.0			
B02			53.4	34.2	53.4			
B03			n/a	n/a				
B04			n/a	n/a				
HAA5 (ppb)	2023	N				N/A	60	Byproduct of drinking water disinfection
B01			25.5	9.9	25.5			
B02			27.4	3.6	27.4			
B03			n/a	n/a				
B04			n/a	n/a				

*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.*

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

**Other Miscellaneous Water Characteristics Contaminants**

Contaminant (units)	Sample Date	Your Water	Range		SMCL
			Low	High	
Manganese (ppm)	7/19/2022	.015	.015	-.015	0.05
Sodium (ppm)	7/19/2022	165.24	165.24	- 165.24	N/A
Sulfate (ppm)	7/19/2022	32.9	32.9	- 32.9	250
pH	7/19/2022	8.1	8.1	- 8.1	6.5 to 8.5

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 regulations are warranted.

**Unregulated Contaminants**

**Unregulated Contaminants UCMR 5**

Contaminant (ug/L)	Sample Date	Your Water (average) ppb	#100 AIRPORT Range		#200 LOIUSE ST Range		#300 PRISON CAMP Range	
			Low	High	Low	High	Low	High
11-chloroeicosafluoro-3-oxaundecane-1 sulfonic acid (11Cl-PF3OUdS)	2023	<.005	<.005	- <.005	<.005	- <.005	<.005	- <.005
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	2023	<.004	<.004	- <.004	<.004	- <.004	<.004	- <.004
1H, 1H, 2H, 2H-perfluorohexane sulfonic acid (4:2 FTS)	2023	<.003	<.003	- <.003	<.003	- <.003	<.003	- <.003
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	2023	<.005	<.005	- <.005	<.005	- <.005	<.005	- <.005
4,8-dioxa-3H-perfluorononanoic acid (ADONA)1	2023	<.003	<.003	- <.003	<.003	- <.003	<.003	- <.003

9-chlorohexadecafluoro-3-oxanone-1 sulfonic acid (9Cl-PF3ONS)	2023	<0.002	<0.002 - <0.002	<0.002 - <0.002	<0.002 - <0.002
hexafluoropropylene oxide dimer acid (HFPO-DA) (GenX)	2023	<0.005	<0.005 - <0.005	<0.005 - <0.005	<0.005 - <0.005
nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2023	<0.02	<0.02 - <0.02	<0.02 - <0.02	<0.02 - <0.02
perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	2023	<0.003	<0.003 - <0.003	<0.003 - <0.003	<0.003 - <0.003
perfluoro-3-methoxypropanoic acid (PFMPA)	2023	<0.004	<0.004 - <0.004	<0.004 - <0.004	<0.004 - <0.004
perfluoro-4-methoxybutanoic acid (PFMBA)	2023	<0.003	<0.003 - <0.003	<0.003 - <0.003	<0.003 - <0.003
perfluorobutanesulfonic acid (PFBS)	2023	<0.003	<0.003 - <0.003	<0.003 - <0.003	<0.003 - <0.003
perfluorobutanoic acid (PFBA)	2023	<0.005	<0.005 - <0.005	<0.005 - <0.005	<0.005 - <0.005
perfluorodecanoic acid (PFDA)	2023	<0.003	<0.003 - <0.003	<0.003 - <0.003	<0.003 - <0.003
perfluorododecanoic acid (PFDoA)	2023	<0.003	<0.003 - <0.003	<0.003 - <0.003	<0.003 - <0.003
perfluoroheptane sulfonic acid (PFHpS)	2023	<0.003	<0.003 - <0.003	<0.003 - <0.003	<0.003 - <0.003
perfluoroheptanoic acid (PFHpA)	2023	<0.003	<0.003 - <0.003	<0.003 - <0.003	<0.003 - <0.003
perfluorohexanesulfonic acid (PFHxS)	2023	<0.003	<0.003 - <0.003	<0.003 - <0.003	<0.003 - <0.003
perfluorohexanoic acid (PFHxA)	2023	<0.003	<0.003 - <0.003	<0.003 - <0.003	<0.003 - <0.003
perfluorononanoic acid (PFNA)	2023	<0.004	<0.004 - <0.004	<0.004 - <0.004	<0.004 - <0.004
perfluorooctanesulfonic acid (PFOS)	2023	<0.004	<0.004 - <0.004	<0.004 - <0.004	<0.004 - <0.004
perfluorooctanoic acid (PFOA)	2023	<0.004	<0.004 - <0.004	<0.004 - <0.004	<0.004 - <0.004
perfluoropentane sulfonic acid (PFPeS)	2023	<0.004	<0.004 - <0.004	<0.004 - <0.004	<0.004 - <0.004
perfluoropentanoic acid (PFPeA)	2023	<0.003	<0.003 - <0.003	<0.003 - <0.003	<0.003 - <0.003
perfluoroundecanoic acid (PFUnA)	2023	<0.002	<0.002 - <0.002	<0.002 - <0.002	<0.002 - <0.002

n-ethyl perfluorooctanesu lfonamidoacetic acid (NEtFOSAA)	2023	<0.005	<0.005 - <0.005	<0.005 - <0.005	<0.005 - <0.005
n-methyl perfluorooctanesu lfonamidoacetic acid (NMeFOSAA)	2023	<0.006	<0.006 - <0.006	<0.006 - <0.006	<0.006 - <0.006
perfluorotetradec anoic acid (PFTA)	2023	<0.008	<0.008 - <0.008	<0.008 - <0.008	<0.008 - <0.008
perfluorotridecan oic acid (PFTrDA)	2023	<0.007	<0.007 - <0.007	<0.007 - <0.007	<0.007 - <0.007
Lithium	2023	<9	<9 - <9	<9 - <9	<9 - <9

The Town of White Lake Public Works Department works around the clock to provide top quality water to every tap. We ask that you help us protect our water sources, which are the heart of our community, our way of life, and our children's future.

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