2024 Annual Drinking Water Quality Report

Town of Victoria Waterworks

PWSID: VA5111800

We're pleased to present 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 every day. Our goal is to provide you with a safe, reliable supply of drinking water. We also want to help you understand the efforts we make to continually improve our water treatment process and protect our water resources.

The Town of Victoria uses three surface water sources to supply treated and filtered water to our customers: the Nottoway River, Lunenburg Lake, and Modest Creek.

We're proud to report that our drinking water **IS SAFE** and meets all federal and state requirements.

If you have questions about this report or about your water utility, please contact Rodney Newton, Town Manager, at (434) 696-2343. We value transparency and welcome your interest. You're also invited to attend our regularly scheduled Town Council meetings, held the second Tuesday of each month at 7:00 p.m. at the Town Office, 1809 Main Street, Victoria.

Monitoring and Reporting

The Town of Victoria Waterworks routinely monitors your drinking water in accordance with federal and state laws. This report presents the results of monitoring conducted from January 1 through December 31, 2024. As water travels over land or underground, it can pick up naturally occurring substances or contaminants such as microbes, inorganic and organic chemicals, and radioactive materials. All drinking water, including bottled water, may contain at least trace amounts of some substances. The presence of these constituents doesn't necessarily indicate a health risk.

Definitions Used in This Report

- Maximum Contaminant Level (MCL) – the highest level of a contaminant allowed in drinking water.
- Maximum Contaminant Level Goal (MCLG) – the level at which no known or expected health risk exists.
- Action Level (AL) – the concentration which, if exceeded at the tap, triggers additional requirements.
- Treatment Technique (TT) – a required process intended to reduce a contaminant.
- Locational Running Annual Average (LRAA) – the four-quarter average at a monitoring site.
- ND – not detected
- ppm – parts per million or milligrams per liter (mg/L)
- ppb – parts per billion or micrograms per liter (µg/L)
- NTU – nephelometric turbidity units

TEST RESULTS

Coliform Results

Contaminant (units)	Violation	Level Detected	MCL	MCLG	Likely Source of Contamination
E. coli (positive samples)	No	0	*See Note	0	Human and animal fecal waste

* Note: Routine and repeat samples are total coliform-positive, and one is also E. coli-positive.

Lead and Copper Results

Contaminant (units)	Year Sampled	90th Percentile Level	Range Detected	Action Level (AL)	Number of Sites Above AL	MCLG	Violation	Typical Source of Contamination
Lead (ppb)	2023	2.03	<2 - 2.03	15	0	0	No	Corrosion of household plumbing systems; erosion of natural deposits
Copper (ppm)	2023	0.121	<0.020 - 0.136	1.3	0	1.3	No	Corrosion of household plumbing systems; erosion of natural deposits

Inorganic Results

Contaminant (units)	Level Detected	Range Detected	MCL	MCLG	Violation	Likely Source
Barium (ppm)	0.028	0.028	2.0	2.0	No	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Fluoride (ppm)	0.55	<0.2 - 0.55	4.0	4.0	No	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Nitrate-Nitrite (ppm)	0.06	0.06	10.0	10.0	No	Runoff from fertilizer use; leaching from septic tanks; erosion of natural deposits

Disinfection and DBP Results

Contaminant (units)	Year Sampled	Highest LRAA	Range Detected	MCL	MCLG	Violation	Likely Source of Contamination
Chlorine (ppm)	2024	1.25	0.33-1.40	4.0	4.0	No	Byproduct of drinking water disinfection
Total Trihalomethanes (TTHM) (ppb)	2024	54.0	46 -54	80.0		No	Byproduct of drinking water disinfection
Haloacetic Acids (HAA5) (ppb))	2024	36.0	30 -36	60.0		No	Byproduct of drinking water disinfection

TOC Results

Treatment Technique	Year Sampled	Required Removal Ratio	Lowest Monthly Removal Ratio	TT Requirement Met?	Typical Source
Total Organic Carbon	2024	≥1.00	1.2	Yes	Naturally present in the environment

Turbidity Results

Contaminant (units)	Year Sampled	Highest Single Measurement	Lowest Monthly % of Samples Meeting Limit	TT Requirement	Violation	Typical Source
Turbidity (NTU)	2024	0.10	100.0	≤0.3 NTU in 95% of samples	No	Soil runoff

Additional Health Information

Most test results listed above are from 2024, except lead and copper, which were tested in 2023. We only list contaminants that were detected others were not found or were below detection limits.

We're pleased to report that Victoria's drinking water meets or exceeds all federal and state safety standards. The EPA has confirmed that our water is safe at the levels detected.

All drinking water—whether from the tap or bottled—may contain small amounts of contaminants. This doesn't mean the water is unsafe. For more information, call the EPA's Safe Drinking Water Hotline at 1-800-426-4791.

MCLs are set at extremely protective levels. For context, a person would need to drink 2 liters of water every day at the MCL level for a lifetime to have a one-in-a-million chance of experiencing health effects.

Key Water Quality Parameters

Coliform Bacteria

Coliform bacteria are naturally found in the environment and are used as indicators of potential water treatment or distribution system problems. If detected, we are required to conduct assessments and correct any issues found.

Lead Service Line Inventory

In 2024 we submitted our initial service-line inventory to the Virginia Department of Health. While we confirmed the material for many lines, a significant number are still classified as *unknown*. We are developing a field-verification plan to locate and identify these unknown lines.

Lead Health Effects

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 Victoria 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 Victoria Waterworks at (434) 696-2343. 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.

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.

Disinfection Byproducts (TTHMs &HAA5s)

Long-term exposure to high levels of disinfection byproducts may cause liver, kidney, or nervous system problems, and may increase cancer risk.

Source Water Assessment

The Virginia Department of Health completed a Source Water Assessment in 2014. Our reservoirs were rated as having high susceptibility to contamination based on state criteria. The full report is available by contacting the Town Manager or Waterworks Operator.

Unregulated Contaminant Monitoring Rule (UCMR5)

The Town of Victoria has been scheduled by EPA to sample for 29 per- and polyfluoroalkyl substances (PFAS) and lithium under the Unregulated Contaminant Monitoring Rule 5 by December 31, 2025. Results are expected in 2025 and will be shared with the public and summarized in next year's Water Quality Report.

Cryptosporidium Monitoring

We completed 24 months of Cryptosporidium monitoring under EPA's Long-Term 2 Enhanced Surface Water Treatment Rule in 2023. The average concentration was 0.073 oocysts per liter, placing our system in Bin 1, the lowest risk category. No additional treatment was required.

Thank You!

Thank you for allowing us to continue providing your family with clean, high-quality water. To maintain and improve our system, we sometimes need to make investments, which may affect water rates. We appreciate your understanding and support.

If you have any questions, please call us at (434) 696-2343.

We at the Town of Victoria Waterworks work to provide top quality water to every tap. We ask that all our customers help us protect our water sources, which are the heart of our community, our way of life and our children's future.