

## ATTENTION: THIS IS AN IMPORTANT REPORT ON WATER QUALITY AND SAFETY

Este informe contiene informacion sobre la calidad del agua en su comunidad. Traduzcalo o hable con alguien que lo entiendo bien.



# ANNUAL WATER QUALITY REPORT

WALLED LAKE, MI

The City Administration is pleased to present this year's Annual Water Quality Report (Consumer Confidence Report) as required by the Safe Drinking Water Act (SDWA). The City of Walled Lake wants you to know your tap water is safe to drink and that it meets or surpasses all federal and state standards for quality and safety. We are proud and honored to provide this information to you. Quality drinking water is important to our community and the region. The City of Walled Lake and the Great Lakes Water Authority (GLWA) are committed to meeting state and federal water quality standards including the Lead and Copper Rule. With the Great Lakes as our water source and proven treatment technologies, GLWA consistently delivers safe drinking water to our community. Walled Lake employs Oakland County Water Resources Commission (WRC) to act as the City's water system supply agent. WRC operates the system of water mains that carry this water to your home's service line. This year's Water Quality Report highlights the performance of GLWA, WRC, and Walled Lake in delivering some of the nation's best drinking water. Together, we remain committed to protecting public health and maintaining open communication with the public about our drinking water.

## Where Does Our Water Come From?

The City of Walled Lake provides drinking water to approximately 7,250 residents. In addition to our own community, we provide drinking water to a limited area of the Village of Wolverine Lake and Commerce Township. The City purchases drinking water wholesale from the Great Lakes Water Authority (GLWA). Our system uses surface water drawn from Lake Huron that has been processed at a water treatment plant located in St. Clair County. More specifically, Walled Lake's source water comes from the lower Lake Huron watershed. The watershed includes numerous short, seasonal streams that drain to Lake Huron. The Michigan Department of Environmental Quality in partnership with the U.S. Geological Survey, the Detroit Water and Sewerage Department, and the Michigan Public Health Institute performed a source water assessment in 2004 to determine the susceptibility of potential contamination. The susceptibility rating is a seven-tiered scale ranging from "very low" to "very high" based primarily on geologic sensitivity, water chemistry, and contaminant sources. The Lake Huron source water intake is categorized as having a moderately low susceptibility to potential contaminant sources. The Lake Huron water treatment plant has historically provided satisfactory treatment of this source water to meet drinking water standards.

## How do we know the water is safe to Drink?

WRC, on behalf of the City of Walled Lake, examines the aesthetic quality of our water and routinely processes bacteriological samples, conducts chlorine residual tests, and monitors the water for lead and copper, as well as for disinfection and chlorination by-products. In addition to regular business hours, WRC is on-call 24 hours a day, 7 days a week, year round for system emergencies.

GLWA treatment facilities operate 24 hours a day, 7 days a week. The treatment process begins with disinfecting the source water with chlorine to kill harmful micro-organisms that can cause illness. Next, a chemical called "Alum" is mixed with the water to remove the fine particles that make the water cloudy or turbid. Alum causes the particles to clump together and settle to the bottom. Fluoride is also added to protect our teeth from cavities and decay.

The water then flows through fine sand filters called "beds". These filters remove even more particles and certain micro-organisms that are resistant to chlorine. Finally, a small amount of phosphoric acid and chlorine are added to the treated water just before it leaves the treatment plant. The phosphoric acid helps control lead that may dissolve in water from household plumbing systems. The chlorine keeps the water disinfected as it travels through water mains to reach your home. In addition to a carefully controlled and monitored treatment process, the water is tested for a variety of substances before treatment, during various stages of treatment, and throughout the distribution system. Hundreds of samples are tested each week in certified laboratories by highly qualified, trained staff. GLWA water not only meets safety and health standards, but also ranks among the Top 10 in the country for quality and value.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants (see table on Page 2). 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 at (800) 426-4791.

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. The Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water, which must provide the same protection for human health. Unregulated contaminants are those for which EPA has not established drinking water standards. Monitoring helps EPA to determine where certain contaminants occur and whether it needs to regulate those contaminants.

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 at (800) 426-4791. In addition to required testing, our water system voluntarily tests for hundreds of additional substances and microscopic organisms to make certain our water is safe and of the highest quality.

GLWA has initiated source-water protection activities that include chemical containment, spill response, and a mercury reduction program. GLWA participates in the National Pollutant Discharge Elimination System permit discharge program and has an emergency response management plan. GLWA has a Surface Water Intake Protection plan for the Lake Huron water intake. The plan has seven elements: roles and duties of government units and water supply agencies, delineation of a source water protection area, identification of the potential sources of contamination, management approaches for protection, contingency plans, siting of new water sources, public participation, and public education activities. If you would like more information about the Source Water Assessment Report, contact GLWA at (313) 926-8127.

2025

# What can the City of Walled Lake do to keep our water safe?

A safe and reliable source of drinking water is essential for life. Because our water supply is limited, you can help protect this valuable resource by disposing all household and hazardous waste in a proper and safe manner. Information on the proper disposal of household or hazardous waste (including the schedule of disposal day events) is available on the City of Walled Lake's website at [www.walledlake.com](http://www.walledlake.com); at City Hall, the Library; and on RRRASOC's website at [www.rrrasoc.org](http://www.rrrasoc.org).

## Sources of Drinking Water

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 storm water runoff, industrial or domestic wastewater discharge, oil and gas production, mining, or farming.
- Pesticides and herbicides which may come from a variety of sources such as agriculture, urban storm water 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 storm water runoff, and septic systems.
- Radioactive contaminants which can be naturally occurring or be the result of oil and gas production and mining activities.



## Help protect our water:

- Do NOT dump garbage, chemicals, oil, yard waste, etc. into storm drains
- Do NOT over-fertilize
- Clean up after pets
- Properly store household & vehicle cleaners, chemicals, & oil
- Prevent cross connections & back siphonage into the water system

## Important Health Information

WRC, on behalf of the City of Walled Lake, perform required lead and copper sampling and testing in our community. Our latest round of testing shows none of the homes tested have lead levels above the action level. The water GLWA delivers to our community does not contain lead. Lead can leach into drinking water through home plumbing fixtures, and in some cases, customer service lines. Corrosion control reduces the risk of lead and copper from leaching into your water. Orthophosphates are added during the treatment process as a corrosion control method to create a protective coating in service pipes throughout the system, including in your home or business. Safe drinking water is a shared responsibility. Water consumers also have a responsibility to maintain the plumbing in their homes and businesses.

Lead can cause serious health effects in people of all ages, especially pregnant people, infants (both formula-fed and breastfed), and young children. Lead in drinking water is primarily from materials and parts used in service lines and in home plumbing. The City of Walled Lake is responsible for providing high quality drinking water and removing lead pipes but cannot control the variety of materials used in the plumbing in your home. Because lead levels may vary over time, lead exposure is possible even when your tap sampling results do not detect lead at one point in time. You can help protect yourself and your family by identifying and removing lead materials within your home plumbing and taking steps to reduce your family's risk. Using a filter, certified by an American National Standards Institute accredited certifier to reduce lead, is effective in reducing lead exposures. Follow the instructions provided with the filter to ensure the filter is used properly. Use only cold water for drinking, cooking, and making baby formula, flush your pipes for several minutes, you can do this by running your tap, taking a shower, doing laundry, or a load of dishes. If you have a lead service line or galvanized requiring replacement service line, you may need to flush your pipes for at least 5 minutes to flush water from both your home plumbing and the lead service line. If you are concerned about lead in your water and wish to have your water tested, contact the City of Walled Lake at 248-624-4847 for available resources. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available at <https://www.epa.gov/safewater/lead>.

## Key To Detected Contaminants Table

Symbol	Abbreviation	Definition/Explanation
>	Greater Than	-
°C	Celsius	A scale of temperature in which water freezes at 0° and boils at 100° under standard conditions.
AL	Action Level	The concentration of a contaminant, which, if exceeded, triggers treatment or other requirements which a water system must follow.
HAA5	Haloacetic Acids	HAA5 is the total of bromoacetic, chloroacetic, dibromoacetic, dichloroacetic, and trichloroacetic acids. Compliance is based on the total.
Level 1	Level 1 Assessment	A study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in the water system.
Level 2	Level 2 Assessment	A very detailed study of the water system to identify potential problems and determine (if possible) why E coli MCL violation has occurred and/or why total coliform bacteria have been found in the water system on multiple occasions.
SMCL	Secondary Maximum Contaminant Level	A MCL which involves a biological, chemical or physical characteristic of water that may adversely affect the taste, odor, color or appearance (aesthetics), which may thereby affect public confidence or acceptance of the drinking water.
LRAA	Locational Running Annual Average	The average of analytical results for samples at a particular monitoring location during the previous four quarters.
MCL	Maximum Contaminant Level	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.
MCLG	Maximum Contaminant Level Goal	The level of contaminant in drinking water below which there is no known or expected risk to health.
MRDL	Maximum Residual Disinfectant Level	The highest level of disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.
MRDLG	Maximum Residual Disinfectant Level Goal	The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLG's do not reflect the benefits of the use of disinfectants to control microbial contaminants.
N/A	Not Applicable	-
ND	Not Detected	Below the detection limit of the method.
NTU	Nephelometric Turbidity Units	Measures the cloudiness of water.
pCi/L	Picocuries Per Liter	A measure of radioactivity.
PPB	Parts Per Billion (one in one billion)	The ppb is equivalent to micrograms per liter. A microgram = 1/1000 milligram.
PPM	Parts Per Million (one in one million)	The ppm is equivalent to milligrams per liter. A milligram = 1/1000 gram.
RAA	Running Annual Average	The average of analytical results for all samples during the previous four quarters.
TT	Treatment Technique	A required process intended to reduce the level of a contaminant in drinking water.
TTHM	Total Trihalomethanes	Total Trihalomethanes is the sum of chloroform, bromodichloromethane, dibromochloromethane, and bromoform. Compliance is based on the total.
µmhos	Micromhos	Measure of electrical conductance of water.

# 2025 Lake Huron Regulated Detected Contaminants Tables

## Inorganic Chemicals – Annual Monitoring at the Plant Finished Tap

Regulated Contaminant	Test Date	Unit	Health Goal MCLG	Allowed Level MCL	Highest Level Detected	Range of Detection	Violation Yes/No	Major Sources in Drinking Water
Fluoride	2-11-2025	PPM	4	4	0.58	N/A	No	Erosion of natural deposits; Water additive, which promotes strong teeth; Discharge from fertilizer and aluminum factories.
Nitrate	2-11-2025	PPM	10	10	0.33	N/A	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.

## Disinfection By-Products – Stage 2 Disinfection By-Products Monitoring in the Distribution System

Regulated Contaminant	Test Date	Unit	Health Goal MCLG	Allowed Level MCL	Highest Level LRAA	Range of Quarterly Results	Violation Yes/No	Major Sources in Drinking Water
Total Trihalomethanes TTHM	10-24-2025	PPB	N/A	80	34	25	No	By-product of drinking water chlorination
Haloacetic Acids HAA5	10-23-2025	PPB	N/A	60	17	13	No	By-product of drinking water chlorination

## Disinfection Residual - Monitoring in the Distribution System

Regulated Contaminant	Test Date	Unit	Health Goal MRDLG	Allowed Level MRDL	Highest Level RAA	Range of Quarterly Results	Violation Yes/No	Major Sources in Drinking Water
Total Chlorine Residual	2025	PPM	4	4	1.02	0.92 - 1.07	No	Water additive used to control microbes

## Turbidity – Monitored every 4 Hours at the Plant Finished Tap

Highest Single Measurement Cannot exceed 1 NTU	Lowest Monthly % of Samples Meeting Turbidity Limit of 0.3 NTU (minimum 95%)	Violation Yes/No	Major Sources in Drinking Water
0.14 NTU	100%	No	Soil Runoff

Turbidity is a measure of the cloudiness of water. We monitor it because it is a good indicator of the effectiveness of our filtration system.

## Lead and Copper Monitoring at the Customer's Tap

Regulated Contaminant	Year Sampled	Unit	Health Goal MCLG	Action Level AL	90th Percentile Value*	Number of Samples Over AL	Range of Individual Samples Results	Major Sources in Drinking Water
Lead	2025	PPB	0	12	0	0	0 - 0	Lead services lines, corrosion of household plumbing including fittings and fixtures; Erosion of natural deposits.
Copper	2025	PPM	1.3	1.3	0.0	0	0.0 - 0.0	Corrosion of household plumbing systems; Erosion of natural deposits.

\*The 90th percentile value means 90 percent of the homes tested have lead and copper levels below the given 90th percentile value. If the 90th percentile value is above the AL additional requirements must be met.

Regulated Contaminant	Treatment Technique	Typical Source of Contaminant
Total Organic Carbon (ppm)	The Total Organic Carbon (TOC) removal ratio is calculated as the ratio between the actual TOC removal and the TOC removal requirements. The TOC is measured each quarter and because the level is low, there is no requirement for TOC removal.	Erosion of natural deposits

## Special Monitoring

Contaminant	Test Date	Unit	MCLG	MCL	Highest Level Detected	Source of Contaminant
Sodium	2-11-2025	PPM	N/A	N/A	4.8	Erosion of natural deposits

These tables are based on tests conducted by GLWA in the year 2025 or the most recent testing done within the last five calendar years. GLWA conducts tests throughout the year only tests that show the presence of a substance or require special monitoring are presented in these tables. The State allows 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. The data is representative of the water quality, but some are more than one year old.



City of Walled Lake  
1499 E. West Maple Road  
Walled Lake, MI 48390

# 20 Annual Water 25 Quality Report

PRESORTED  
STANDARD  
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WALLED LAKE, MI  
PERMIT NO. 3

**Dennis O'Rourke**  
Mayor Pro Tem & Grand Marshal



2026 Memorial Day Ceremony

Phone: 248-624-4847 | Fax: 248-624-1616 | Email: [publicservices@walledlake.com](mailto:publicservices@walledlake.com)

## ATTENTION: THIS IS AN IMPORTANT REPORT ON WATER QUALITY AND SAFETY

### Reduce High Water Bills

Small leaks can cause high water bills. Eliminating these common sources of water leaks will save YOU money:



### How Water Rates are Determined

As mentioned before, the City of Walled Lake purchases water from GLWA. The factors that determine the rates charged by GLWA are:

- Distance from the water treatment plant elevation (higher costs to pump to higher elevations)
- Annual water usage
- Maximum day demand (water usage in a 24 hour period during summer)
- Peak hour demand (water usage over a one hour period during summer)

- The City of Walled Lake will update this report annually and will keep you informed of any problems that may occur throughout the year as they happen. This report is available on the City's Website: [www.walledlake.com](http://www.walledlake.com). and paper copies are available at City Hall and the Library.
- The State and EPA require us to test our water on a regular basis to ensure its safety. The City of Walled Lake wants you to know that your tap water is safe to drink and that it meets or surpasses all federal and state standards for water quality and safety for the year 2025.

### Public Participation

The Walled Lake City Council meetings are open to the public. To confirm dates and times, or for information on other activities happening in the department, please contact Walled Lake City Hall (248) 624-4847 or visit [www.walledlake.com](http://www.walledlake.com). We welcome comments and opinions about this report, and will be happy to answer any questions you may have. For more information about safe drinking water, visit the U.S. Environmental Protection Agency website at <http://www.epa.gov/ground-water-and-drinking-water>

The City of Walled Lake contracts with WRC who are available 24 hours a day, 7 days a week In Case of a Water EMERGENCY: (248) 858-0931