

Dear Residents:

The Genesee County Drain Commissioner's Division of Water & Waste Services is committed to providing high-quality drinking water while responsibly treating and returning clean water to the environment. We strive to deliver these services with accountability, and transparency to our customers, regulatory partners, and employees.

We are proud to announce our **10th consecutive year** without a water rate increase, despite an unprecedented inflationary environment. By operating and maintaining our own water system rather than purchasing water from an outside provider, we have stabilized costs while continuing to deliver high-quality water to residents and businesses.

In recent years, we have focused on maintaining a highly trained workforce through ongoing training and certification for our water distribution and treatment staff. Although we have experienced significant turnover due to retirements, we have prepared for this transition by fostering a culture that supports professional development. Our wage structure, promotion pathways, and certification bonus program encourage employees to pursue advanced training and credentials.

Our team includes 26 water distribution employees and 24 water treatment employees, with approximately 80% holding professional certifications. Water distribution and treatment operations are led by superintendents who hold the highest levels of certification available. These investments ensure our water system is operated by knowledgeable, dedicated professionals committed to delivering reliable service throughout the region.

In 2025, we met or exceeded all water quality standards established by the Michigan Department of Environment, Great Lakes, and Energy (EGLE) and the United States Environmental Protection Agency (EPA).

Sincerely,

Jeff Wright, Genesee County Drain Commissioner

Dan Potter, Chief Deputy Drain Commissioner

John F. O'Brien, PE, BCEE, Director, Division of Water & Waste Services

Terry Biederman, PE, Assistant Director of Water

Kevin VanSickle, Superintendent, Water Treatment Plant

Dan Lince, Superintendent, Water Distribution

Water Quality Report

2025 Consumer Confidence Report

This report contains our water quality data for 2025 required by the United States Environmental Protection Agency.

Water Source:

The Genesee County Drain Commissioner Division of Water & Waste Services (GCDC-WWS) (WSSN-2615) draws its water from Lake Huron. We distribute the water to twenty-one communities within Genesee County. Routine samples are taken daily at our Water Treatment Plant, as well as weekly, monthly, and yearly from the Water Distribution System. Michigan Department of Environment, Great Lakes & Energy (EGLE) and Environmental Protection Agency (EPA) required tests are performed throughout the year to ensure safe and reliable drinking water.

Additional Information:

To ensure that tap water is safe to drink, the EPA prescribes regulations, which limit the number of certain contaminants in water provided by public water systems. The Food & Drug Administration (FDA) regulations establish limits for contaminants in bottled water, which must provide the same protection for public health. 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 EPA's Safe Drinking Water Hotline (800-426-4791).

The sources for 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 waters 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 discharges, oil and gas production, mining, or farming.
- **Pesticides and herbicides**, which may come from a variety of sources including agriculture, urban storm water runoff and residential uses.
- **Organic chemical contaminants**, including synthetic and volatile organics, 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.

People with Special Health Concerns:

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons including persons with cancer who are undergoing chemotherapy, persons who have undergone organ transplants, persons 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. The EPA and Communicable Disease Center (CDC) establishes guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbial contaminants. These are available from the Safe Drinking Water Hotline (800-426-4791) or www.epa.gov/safewater.

How do I read this Chart?

It's easy! GCDC-WWS water is tested to assure that it is safe and healthy. These Tables are based on tests conducted by **GCDC-WWS**, **EGLE**, and privately contracted laboratories within the last five (5) calendar years. Many tests are conducted throughout the year, however, only tests that show the presence of a contaminant are shown here. The table on this page is a key to the terms used in the following table. Sources of Contaminants show where this substance usually originates.

Key to Detected Contaminants Table		
Symbol	Non-Abbreviated Symbol or Term	Definition/Explanation
AL	Action Level	The concentration of a contaminant, which, if exceeded, triggers treatment or other requirements which a water system must follow.
HAA5	Halo acetic Acids	HAA5 is the total of bromoacetic, chloroacetic, dibromo acetic, dichloroacetic, and trichloroacetic acids. Compliance is based on the total.
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 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. <i>MCLG's allows for a margin of safety.</i>
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. MRLDG's do not reflect the benefits of the use of disinfectants to control microbial contaminants.
n/a	not applicable	Does not apply.
ND	Not Detected	Result is not detectable at or below the laboratory detection level.
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.
ug/L	Micrograms per liter	A microgram = 1/1000 milligrams. 1 microgram per liter is equal to 1 part per billion (ppb).
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 taken during the previous twelve months.
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.
°C	Celsius	A scale of temperature in which water freezes at 0° and boils at 100° under standard conditions.
>	Greater than	Mathematical symbol that denotes a value "greater than" another value.
	90th Percentile Value	The concentration of lead or copper in tap water exceeded by 10 percent of the sites sampled during a monitoring period.

2025 Regulated Detected Contaminant Tables

Inorganic Chemicals - Monitoring at the Plant Finished Water Tap								
Regulated Contaminant	Test Date	Unit	MCLG or MRDLG	MCL, TT, or MRDL	Highest Level Detected	Range of Detection	Violation yes/no	Major Sources in Drinking Water
Fluoride	Daily	ppm	4	4	0.87	0.18 - 0.87	no	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
Barium	2025	ppm	2	2	0.014	0.012-0.014	no	Erosion of natural deposits; discharge of metal refineries; discharge of drilling wastes.
Arsenic	2025	ppb	0	10	0.54	ND-0.54	no	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes
Nitrate (as Nitrogen)	2025	ppm	10	10	0.5	ND-0.5	no	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits

Disinfection By-Products - Monitoring in Distribution System, Stage 2 Disinfection By-Products								
Regulated Contaminant	Test Date	Unit	MCLG or MRDLG	MCL, TT, or MRDL	Range of Detection	Highest LRAA	Violation yes/no	Major Sources in Drinking Water
Total Trihalomethanes (TTHM)	2025	ppb	n/a	80	16.0-62.6	53.0	no	By-product of drinking water disinfection
Haloacetic Acids (HAA5)	2025	ppb	n/a	60	0-16.0	13.0	no	By-product of drinking water disinfection

Disinfectant Residuals - Monitoring in Distribution System								
Regulated Contaminant	Test Date	Unit	MCLG or MRDLG	MCL, TT, or MRDL	Quarterly Range of Detection	Highest RAA	Violation yes/no	Major Sources in Drinking Water
Total Chlorine Residual	2025	ppm	4	4	0.20-1.20	0.69	no	Water additive used to control microbes

2025 Turbidity - Monitored every 4 hours at Plant Finished Water			
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
0.09	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.			

2025 Microbiological Contaminants - Monthly Monitoring in Distribution System					
Regulated Contaminant	MCLG	MCL	Highest Number Detected	Violation yes/no	Major Sources in Drinking Water
Total Coliform Bacteria	0	>1 Positive monthly sample, or Presence of Coliform bacteria > 5% of monthly samples	0	no	Naturally present in the environment
<i>E. coli</i> Bacteria	0	A routine sample and a repeat sample are total coliform positive, and one is also fecal or <i>E.coli</i> positive	0	no	Human waste and animal fecal waste.

2023 Lead and Copper Monitoring at Customer Tap									
Regulated Contaminant	Test Date	Unit	Health Goal MCLG	Action Level AL	90th Percentile Value*	Range of Detection	Number Samples Over AL	Violation yes/no	Major Sources in Drinking Water
Lead (June - September)	2023	ppb	0	15	0	0-2	0	no	Lead service lines; corrosion of household plumbing including fitting and fixtures; Erosion of natural deposits.
Copper (June -September)	2023	ppm	1.3	1.3	0	0-.1	0	no	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 was measured each month and because the level was low, there is no TOC removal requirement.	Erosion of natural deposits

2025 Unregulated Detected Contaminant

Contaminant	MCLG	MCL	Level Detected	Source of Contamination
Sodium (ppm)	n/a	n/a	7.4	Erosion of natural deposits
Magnesium	n/a	n/a	7.5	Erosion of natural deposits
Sulfate	n/a	n/a	26	Runoff/leaching from natural deposits

Per- and Polyfluoroalkyl Substances (PFAS):

The State of Michigan has created a website where you can find information about PFAS contamination and efforts to address it in Michigan. The site will be updated as more information becomes available. The website address is: <http://michigan.gov/pfasresponse>. PFAS testing of treated water was conducted by GCDC-WWS in April 2022 and the results for all samples were below the detection limit (ND).

Per- and polyfluoroalkyl substances (PFAS), sometimes called PFCs, are a group of chemicals that are resistant to heat, water, and oil. PFAS have been classified by the EPA as an emerging contaminant on the national landscape. For decades, they have been used in many industrial applications and consumer products such as carpeting, waterproof clothing, upholstery, food paper wrappings, fire-fighting foams, and metal plating. They are still used today. PFAS have been found at low levels both in the environment and in blood samples from the general U.S. population. These chemicals are persistent, which means they do not break down in the environment. They also bioaccumulate, meaning the amount builds up over time in the blood and organs. Although our understanding of these emerging contaminants is constantly evolving, elevated levels of PFAS have the potential to cause increased cholesterol, changes in the body's hormones and immune system, decreased fertility, and increased risk of certain cancers. Links to these health effects in humans are supported by epidemiologic studies and by laboratory studies in animal models.





Jeff Wright,
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G-4610 Beecher Rd.
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Important Health Information - Lead:

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children.

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 home plumbing. GCDC-WWS 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 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. Boiling water does not remove lead from water. Before using tap water for drinking, cooking, or 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 GCDC-WWS for available resources. 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>.

Safe drinking water is a shared responsibility. The water that is delivered to our community does not contain lead. However, 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. GCDC-WWS performs required lead and copper sampling and testing in our community. Water consumers also have responsibility to maintain the plumbing in their homes and businesses, and can take steps to limit their exposure to lead. GCDC-WWS provides operation and maintenance services for several communities within Genesee County, which include 20,823 water service connections, none of which are lead.

Opportunities for Public Participation:

We encourage public interest and participation in our community's decisions affecting drinking water. Regular Advisory Board Meetings occur on the third Wednesday of every month, at G-4610 Beecher Road, Flint, Michigan at 9:00 a.m. The public is welcome.

National Primary Drinking Water Regulation Compliance:

GCDC-WWS staff are happy to answer any questions and provide more information about GCDC-WWS's services and our water quality. Please call Dan Lince or Adam Clark at (810) 732-7870. You may also visit our website <http://www.gcdcwws.com>. For more information about safe drinking water, visit U.S. EPA at <http://www.epa.gov/safewater>.