

2025 Annual Water Report

GLWA in Partnership with City of Troy Provides Water Quality/Consumer Confidence Report to Residents

Drinking water quality is important to our community and the region. The City of Troy 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, the GLWA consistently delivers safe drinking water to our community. The City of Troy 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 and Troy's water professionals 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. The majority of Troy's drinking water comes from the Lake Huron Water Treatment Plant located in Port Huron. A small percentage of Troy's water comes from the Northeast Water treatment plant in Detroit. Both water plants are operated and owned by the Great Lakes Water Authority (GLWA). GLWA filters and treats the raw water at the plants before releasing the water into the pipes that deliver water to Troy. There are seven main connections with master water meters spread out along Troy's borders that supply water to the City. At these points of connection,

the GLWA distribution system ends and Troy's system begins. Troy maintains 550 miles of water main, over 6,200 hydrants, seven master meter facilities, and more than 29,000 water meters serving our 89,500 residents, businesses and public facilities. Troy

residents consume approximately 3.5 billion gallons of water per year. Our goal is to provide a safe, healthy water supply with quality service to our customers.

For convenience, you may choose to use the free Direct Payment service for your water bill. The City continues sending a billing statement, but payments are automatically deducted from your account on the due date.

For information, or an application, please call the Treasurer's Office at 248.524.3333. If you have questions about

Troy's water service, **please contact the Water & Sewer Division at 248.524.3370.**

The Source of our Water

The majority of Troy's source water comes from the lower Lake Huron watershed. The watershed includes numerous short, seasonal streams that drain to Lake Huron. A small percentage of Troy's source water comes from the Detroit River, situated within Lake St. Clair, Clinton River, Detroit River, Rouge River, Ecorse River, watersheds in the U.S. and part of the Thames River, Little River, Turkey Creek, and Sydenham watersheds in Canada. The MI Dept. of Environmental Quality in partnership with the U.S. Geological Survey,



the Detroit Water & Sewerage Department, and the MI 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. The susceptibility of our Detroit River source water intakes were determined to be highly susceptible to potential contamination.

However, all four GLWA water treatment plants that use source water from the Detroit River have historically provided satisfactory treatment of this source water to meet drinking water standards.

GLWA has initiated source-water protection activities that include chemical containment, spill response, and a mercury reduction program. GLWA participates in a National Pollutant Elimination System permit discharge program and has an emergency response management plan.

GLWA has a Surface Water Intake Protection plan for the Lake Huron and Belle Isle water intakes. The plan has seven elements: roles and duties of government units and water supply agencies, delineation of a source water protection areas, identification of 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 to know more information about the Source Water Assessment Report. Please, contact GLWA at 313.926.8127.

What's in our Drinking Water?

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.

The sources of drinking water (both tap and bottled) 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, septic systems and residential uses.
- Radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining activities
- 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.

In order to ensure 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.

The State and EPA require us to test our water on a regular basis to ensure its safety. We met all monitoring and reporting requirements for 2025.

SAFE DRINKING WATER

More information about contaminants (including lead), testing methods, potential health effects, and steps you can take to minimize exposure, can be obtained by calling the Environmental Protection Agency's (EPA) Safe Drinking Water Hotline at 800.426.4791 or from their website at epa.gov/safewater.

2025 Lake Huron Water Treatment Plant and Northeast Water Treatment Plant | 2025 Regulated Detected Contaminants Table
Teal ink results are for Lake Huron Water Treatment Plant. **Orange** are for Northeast Water Treatment Plant. Black are for both.

2025 Inorganic Chemicals - Monitoring at Plant Finished Water Tap									
Regulated Contaminant	Test Date	Units	Health Goal MCLG	Allowed Level MCL	Level Detected	Range of Detection	Violation Yes/No	Major Sources in Drinking Water	
Fluoride	2/11/2025	ppm	4	4	0.58 0.49	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 0.29	N/A	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits	
Barium	5/16/2017	ppm	2	2	0.01 0.01	N/A	No	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits	
2025 Disinfection By-Products - Stage 2 Monitoring in Distribution System									
Regulated Contaminant	Test Date	Units	Health Goal MCLG	Allowed Level MCL	Level Detected	Range of Detection	Violation Yes/No	Major Sources in Drinking Water	
(TTHM) Total Trihalomethanes	2025	ppb	N/A	80	30	17 - 39	No	By-product of drinking water chlorination	
(HAA5) Haloacetic Acids	2025	ppb	N/A	60	16	11 - 22	No	By-product of drinking water chlorination	
2025 Disinfection Residuals - Monitoring in Distribution System									
Regulated Contaminant	Test Date	Units	Health Goal MRDLG	Allowed Level MRDL	Highest RAA	Range of Detection	Violation Yes/No	Major Sources in Drinking Water	
Total Chlorine Residual	2025	ppm	4	4	1.02 0.95	0.92-1.07 0.81-1.05	No	Water additive used to control microbes	
2025 Turbidity - Monitored every Four Hours at Plant Finished Water Tap									
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.									
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, 0.09 NTU			100%				No	Soil runoff	
2025 Microbiological Contaminants - Monthly Monitoring in Distribution System									
Contaminant	MCLG	MCL				Highest # Detected	Violation Yes/No	Major Sources in Drinking Water	
Total Coliform	0	Presence of Coliform bacteria > 5% of monthly samples				in 1 month - 0	No	Naturally present in the environment	
E.coli or fecal		A routine sample and repeat sample are total				entire year - 0	No	Human waste & animal fecal waste	
Coliform Bacteria	0	Coliform positive, and one is also fecal or E.coli positive							
2025 Lead and Copper Monitoring at Customers' Tap									
Regulated Contaminant	Test Date	Units	Health Goal MCLG	Allowed Level AL	90th Percentile Value*	Range of Individual Results	# of Samples over AL	Violation Yes/No	Major Sources in Drinking Water
Lead	2025	ppb	0.0	12	0	0 - 0	0	No	Lead service lines; Corrosion of household plumbing including fittings and fixtures; Erosion of natural deposits
Copper	2025	ppm	1.3	1.3	0	0.0 - 0.2	0	No	Corrosion of household plumbing; Erosion of natural deposits; Leaching from wood preservatives
*The 90th percentile value means 90% of the homes tested have lead and copper levels below the given 90th percentile value. If the 90th percentile value is above the AL, add'l 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 quarter and because the level was low, there is no requirement for TOC removal.						Erosion of natural deposits	
Regulated Contaminant		Test Date	Unit	Allowed Level MCL	Highest Level Detected	Range of Detection	Violaton	Major Sources in Drinking Water	
Perfluorooctanoic acid (PFOA)		3/11/2025	ng/l	4	2	ND-2	no	Industrial manufacturing sites, fire-fighting foams (AFFF) used at airports/military bases, and waste management facilities like landfills.	
2025 Special Monitoring									
Regulated Contaminant	Test Date	Units	MCLG	MCL	Level Detected	Typical Source of Contamination			
Sodium		2/11/2025	ppm	N/A	N/A	4.8 5.3	Erosion of natural deposits		
Radionuclides - Monitored at the Plant Finished Tap in 2014									
Regulated Contaminant	Test Date	Units	Health Goal MCLG	Allowed Level MCL	Level Detected	Violation Yes/No	Major Sources in Drinking Water		
Combined Radium		5/13/2014	pCi/L	0	5	0.86 + or - 0.55	No	Erosion of natural deposits	

2025 Lake Huron Tap Water Mineral Analysis

Parameter	Units	Max.	Min.	Avg.	Parameter	Units	Max.
Turbidity	NTU	0.09	0.06	0.07	Chloride	ppm	10.7
Total Solids	ppm	155	36	124	Phosphorus	ppm	0.94
Total Dissolved Solids	ppm	140	77	112	Free Carbon Dioxide	ppm	9.1
Aluminum	ppm	0.220	0.013	0.061	Total Hardness	ppm	130
Iron	ppm	0.3	ND	0.2	Total Alkalinity	ppm	80
Copper	ppm	0.003	ND	0.001	Carbonate Alkalinity	ppm	0
Magnesium	ppm	8.4	7.1	7.7	Bi-Carbonate Alkalinity	ppm	80
Calcium	ppm	28.6	23.3	26.2	Non-Carbonate Hardness	ppm	50
Sodium	ppm	5.4	0.4	3.1	Chemical Oxygen Demand	ppm	6.2
Potassium	ppm	1.1	0.9	1.0	Dissolved Oxygen	ppm	10.9
Manganese	ppm	0.001	ND	0.000	Nitrite Nitrogen	ppm	ND
					Nitrate Nitrogen	ppm	0.38
Lead	ppm	ND	ND	0.000	Fluoride	ppm	0.93
Zinc	ppm	0.019	ND	0.008	pH		7.50
Silica	ppm	3.6	1.3	2.1	Specific Conductance @ 25 °C	µhms	225
Sulfate	ppm	21.5	12.9	18.9	Temperature	°C	22.0

2025 Northeast Tap Water Mineral Analysis

Parameter	Units	Max.	Min.	Avg.	Parameter	Units	Max.
Turbidity	NTU	0.09	0.04	0.07	Chloride	ppm	11.9
Total Solids	ppm	153	78	130	Phosphorus	ppm	0.94
Total Dissolved Solids	ppm	149	15	107	Free Carbon Dioxide	ppm	11.6
Aluminum	ppm	0.109	0.020	0.046	Total Hardness	ppm	120
Iron	ppm	0.3	ND	0.2	Total Alkalinity	ppm	74
Copper	ppm	0.002	ND	0.001	Carbonate Alkalinity	ppm	0
Magnesium	ppm	8.6	7.2	7.7	Bi-Carbonate Alkalinity	ppm	74
Calcium	ppm	29.2	24.9	26.6	Non-Carbonate Hardness	ppm	48
Sodium	ppm	6.4	0.4	3.4	Chemical Oxygen Demand	ppm	11.4
Potassium	ppm	1.1	0.9	1.0	Dissolved Oxygen	ppm	15.5
Manganese	ppm	ND	ND	0.000	Nitrite Nitrogen	ppm	ND
					Nitrate Nitrogen	ppm	0.44
Lead	ppm	ND	ND	0.000	Fluoride	ppm	0.76
Zinc	ppm	0.001	ND	0.000	pH		7.81
Silica	ppm	4.0	1.2	2.0	Specific Conductance @ 25 °C	µhms	232
Sulfate	ppm	30.1	19.5	24.5	Temperature	°C	26.3

2025 GLWA Cryptosporidium — Giardia Statement:

GLWA voluntarily monitors for Cryptosporidium and Giardia in our source water monthly. The untreated water samples collected from our Belle Isle Intake indicated the presence of one Giardia cyst in February 2025. All other samples collected from the Belle Isle Intake in 2025 were absent for the presence of Cryptosporidium and Giardia. Systems using surface water like GLWA must provide treatment so that 99.9 percent of Giardia lamblia and Cryptosporidium is removed or inactivated. GLWA's drinking water treatment process is designed to remove and inactivate these protozoans. Cryptosporidium is a microbial pathogen found in surface water throughout the U.S. Although filtration removes Cryptosporidium, the most commonly used filtration methods cannot guarantee 100 percent removal. Our monitoring indicates the presence of these organisms in our source water. Current test methods do not allow us to determine if the organisms are dead or if they are capable of causing disease. Ingestion of Cryptosporidium may cause cryptosporidiosis, an abdominal infection. Symptoms of infection include nausea, diarrhea, and abdominal cramps. Most healthy individuals can overcome the disease within a few weeks. However, immuno-compromised people, infants and small children, and the elderly are at greater risk of developing life-threatening illness. We encourage immuno-compromised individuals to consult their doctor regarding appropriate precautions to take to avoid infection. Cryptosporidium must be ingested to cause disease, and it may be spread through means other than drinking water.

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.

About Unregulated Contaminant Monitoring

Unregulated contaminants are those for which EPA has not established drinking water standards. Monitoring helps EPA to determine where these contaminants occur and whether it needs to regulate those contaminants.

2025 UCMR 5 Unregulated Contaminant Monitoring Rule					
Unregulated Contaminant	Test Dates	Unit	M R L	Range of Detection	Average Result
Twenty-nine (29) Per- and Polyfluoroalkyl Substances (PFAS)	2025 (March, June, September, December)	ppb	0.003	ND	0
Lithium	2025 (March, June, September, December)	ppb	9.00	ND	0

KEY TO THE DETECTED CONTAMINANTS TABLE

> - Greater than | N/A - Not applicable | ND - Not detected; below the detected limit of the method.

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

°C (Celsius) - A scale of temperature in which water freezes at 0° and boils at 100° under standard conditions.

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 an E.coli MCL violation occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.

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 expected risk to health.

MRDL (Maximum Residual Disinfectant Level) - The highest level of a disinfectant allowed in drinking water. There is convincing evidence that the 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. It does not reflect the benefits of the use of disinfectants to control microbial contaminants.

NTU (Nephelometric Turbidity Units) - Turbidity is a measure of the cloudiness of the water.

pCi/L (Picocuries Per Liter) - A measure of radioactivity

ppb (Parts per billion) - One ppb is equivalent to one microgram per liter. A microgram = 1/1000 milligram.

ppm (Parts per million) - One ppm is equivalent to one milligram per liter. A milligram = 1/1000 gram.

mg/L (Milligrams per liter) - A milligram = 1/1000 gram. 1 milligrams per liter is equal to 1 ppm.

ng/L (Nanograms per liter) - A nanogram = 1/1,000,000 milligram. The ng/L is equivalent to nanogram per liter.

RAA (Running Annual Average) - The average of analytical results for all samples during the previous four quarters.

SMCL (Secondary Maximum Contaminant Level) - An 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.

TT (Treatment Technique) - A required process intended to reduce the level of a contaminant in drinking water.

TTHM (Total Trihalomethanes) - The sum of chloroform, bromodichloromethane, dibromochloromethane, and bromoform. Compliance is based on the total.

µohms (microohms) - Measure of conductance of water.

Health Information

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised people, such as those undergoing chemotherapy, those who have undergone organ transplants, those with HIV/AIDS or other immune system disorders, and some elderly and infants can be particularly at risk of infection. These people should seek advice about drinking water from their health care providers. EPA/Center for Disease Control (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).

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 Troy 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

Want a Copy of This Water Report? This annual report provided by GLWA in partnership with the City of Troy, will provide information on any problems that may occur throughout the year. We also invite public participation in decisions that affect drinking water quality. Copies are available at City Hall, 500 W. Big Beaver; Troy Public Library, 510 W. Big Beaver; and Troy Community Center, 3179 Livernois. For more information, or to request a copy, call the Troy Water & Sewer Division at 248.524.3370.



PROTECT YOURSELF FROM LEAD EXPOSURE

Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the

**Safe Drinking Water Hotline at
1.800.426.4791**

or at epa.gov/safewater/lead

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. 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 the City of Troy Water & Sewer Division at 248.524.3370 for available resources. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available at epa.gov/safewater/lead.

The number of water service lines in the City of Troy = 29,940. The number of lead service lines in the City

of Troy = 0. The Number of unknown material service lines in the City of Troy = <10,000. *Service line material is considered unknown for any service line installed before 1989 and has not had any information updated after 1989. While the City of Troy has always required copper type water services and have records on all service lines, we must consider anything installed before 1989 as an "unknown material." The Complete Distribution System Material Inventory can be found at troymi.gov/CDSMI.

Insuring Healthy Water for the Future

In 2016, the Michigan Department of Environmental, Great Lakes and Energy approved GLWA's Surface Water Intake Protection plans 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 areas, identification of 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 to know more information about the Source Water Assessment report, please contact GLWA at 313.926.8102.

Proper Disposal of RV Waste

Planning a vacation this summer in your RV? Consider the proper way of disposing waste from your vehicle.

We know you would not drive to the beach and empty your RV's waste tank into the ocean. But did you know it is illegal to dump any form of hazardous materials and pollutants (motor oils, grease, and other chemicals) into storm drains? All harmful materials dumped into the storm drains end up in the lakes and rivers which impacts the habitat of aquatic wildlife and endangers human recreational activities. We want RV owners to protect the environment while enjoying it! **Visit rvdumps.com for a list of proper disposal facilities.**