

Annual Drinking Water Quality Report East China and China Charter Townships Water Quality Report for 2025

On August 6, 1996, the reauthorized and amended Federal Safe Drinking Water Act (SDWA) was signed into law. Because of this, the SDWA and Michigan Department of Environmental Quality now require each water supplier, including townships, to inform their customers of the water quality through an annual report.

This is the 27th Annual Water Quality Report. This report is designed to inform you about the water quality and services we deliver to you every day. Our goal is to provide you with a safe, dependable, and adequate supply of water. We want you to understand the efforts that are made to continually improve the water treatment system. We are committed to ensuring the quality of your water.

We are fortunate to have the St. Clair River for our water source for the East China Township Water Treatment Plant. It provides us with an excellent quality and unlimited supply of raw water. Unfortunately, because of occasional chemical spills, the plant is shut down until the danger passes our intake. A Source Water Assessment was completed in 2004 to determine the susceptibility of the relative potential of contamination. The susceptibility rating is on a seven-tiered scale from "very low" to "high" based primarily on geologic sensitivity, water chemistry, and contaminant sources. The susceptibility of our source is high given land uses and potential contaminant sources.

Significant sources of contamination include commercial and industrial discharges, storm water drainage, and agricultural runoff.

To find out about current spills, watch Cable Channel 6, or call the Township Hall at (810) 765-8879 and a message will be on the answering machine if there is a problem.

The Water Plant utilizes membrane micro-filtration to filter impurities out of your drinking water. This technology, we feel, is the best method available to us to meet the ever-changing regulations set forth by the Michigan Department of Environment, Great Lakes, and Energy (EGLE) and The United States Environmental Protection Agency.

The Water Plant has been producing potable water since July of 2001. We have the capabilities of producing sufficient water to meet the needs of our customers. The plant is also easily expandable to meet future needs.

Zenon Environmental Systems, a Canadian company, manufactured the filtration process. It is made up of 600,000 hollow fibers, about 10ft long. Water is drawn through these fibers and the unwanted particles, dirt, viruses, and bacteria are removed. To make absolutely sure the water is safe, a small amount of chlorine is added, and bacteria samples are taken daily before it is sent to the distribution system. Three samples are collected weekly from the distribution system to make certain the water is of good quality.

WATER PLANT FACTS

- * 3.2 million gallon per day maximum capacity.
- * 6,500 square foot facility designed to allow future expansion.
- * State of the art microfiltration treatment technology.
- * First application of Zenon microfiltration in the Midwest.
- * Powdered activated carbon system for taste and odor control.
- * Use of long-lasting, low maintenance materials throughout the plant.
- * State of the art laboratory for on-site analysis and quality control.

The Water Department routinely monitors your drinking water according to Federal and State laws. The table on the inside of this report shows the test results for the monitoring period of January 1, 2025, through December 31, 2025 unless otherwise noted.

The test results show that we have met or exceeded all State and Federal requirements.

Required Additional Information: To ensure that tap water is safe, the EPA implements regulations which limit the amount of certain contaminants in water provided by public water systems.

The Food and Drug Administration: (FDA) establishes limits for contaminants in bottled water, which must provide the same protection for public health.

Contaminants that may be present in source water:

All sources of drinking water are subject to potential contamination by substances that are naturally occurring or man-made. These substances can be microbes, inorganic or organic chemicals, and radioactive substances. All 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 the water poses a health risk.

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 may be naturally occurring or result from urban 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, 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 may 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.

PFAS can get into drinking water when products containing them are used or spilled onto the ground or into lakes and rivers. PFAS move easily through the ground, getting into groundwater that is used for some water supplies or for private drinking water wells. When spilled into lakes or rivers used as sources of drinking water, they can get into drinking water supplies. PFAS in the air can also end up in rivers and lakes used for drinking water. No levels of PFAS have been detected in your drinking water.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immune-compromised persons such as persons with cancer undergoing chemotherapy, persons whom have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants may 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 microbiological and other microbiological contaminants are available from:

The Environmental Protection Agency's Safe Drinking Water Hotline at 1-800-426-4791

Definitions: In the table on the next page, you will find many terms and abbreviations you might not be familiar with. To help you better understand these terms, we have provided the following definitions:

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

Maximum Contaminant Level Goal (MCLG): The "Goal" is the highest level in drinking water below which there is no known or expected risk to health. MCLG's allow for a margin of safety.

Maximum Contaminant Level (MCL): The "Maximum Allowed" is the highest level of a contaminant that is allowed in drinking water. MCL's are set as close to the MCLG's as feasible, using the best available treatment technology.

Maximum Residual Disinfectant Level (MRDL): The highest level of a disinfectant allowed in drinking water. There is evidence that the addition of a disinfectant is necessary for control of microbial contaminants.

Maximum Residual Disinfectant Level Goal (MRDLG): The level of a drinking water disinfectant, to 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.

Nephelometric Turbidity Unit (NTU): Nephelometric Turbidity is a measure of the clarity of water. Turbidity in excess of 5 NTU, is just noticeable to the average person.

N/A: Not applicable / available:

Parts per million (ppm) or Milligrams per liter (mg/l): One part per million corresponds to a single Dollar in \$ 1,000,000.

Parts per billion (ppb) or Micrograms per liter: One part per billion corresponds to a single Dollar in \$1,000,000,000.

RAA: Recent Annual Average

LRAA: Locational Running Annual Average

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

For More Information

Online Water Resources

We invite public participation in decisions that affect drinking water quality. Township Board meetings are held on the first and third Mondays of each month. Please feel free to attend.

If there are any questions about your water or this report, you can contact Travis Frendt at the Water Filtration Plant telephone number listed below.

<https://www.michigan.gov/egle/>

Michigan Department of Environment, Great Lakes and Energy

www.awwa.org/

American Water Works Association

www.epa.gov/ogwdw/

U.S. Environmental Protection Agency

For more information regarding your water service line material please call the Township Hall 810-795-8879 ext. 301.

Complete Distribution Systems Material Inventory		Classification	*Auto-Calculated* Sum
Water Supply Name:	St. Clair River Sewer & Water Authority	Lead	0
PWISD:	MI0006824	Non-Lead	1393
Date Last Updated:	2/11/2025	GRR/GPCL	16
		Lead Status Unknown	433

Important Phone Numbers

Water Filtration Plant	810-765-4647
East China Township Office	810-765-8879
China Township Office	810-765-1145
St. Clair County Health Department	810-987-5300
EGLE Southeast Michigan Office	586-753-3700
EPA Drinking Water Hotline	800-426-4791

DISTRIBUTION SYSTEM TEST RESULTS 2025

Chlorine Residuals	Previous Year 2024											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Bact Sample Site # 1				1.11	1.09	0.94	0.69	0.74	0.73	0.89	0.94	1.09
Bact Sample Site # 2												
Bact Sample Site # 3				1.06	1.11	1.00						
Bact Sample Site # 4				0.78	0.80	0.64	0.88	0.80	0.78	1.09	0.78	1.23
Bact Sample Site # 5						0.30	0.65	0.75	0.98	0.89	0.93	0.85
Average of all measurements taken in the month	N/A for RAA in year covered by the CCR			0.98	1.00	0.72	0.74	0.76	0.83	0.96	0.88	1.06
Chlorine Residuals	Year covered by the CCR 2025											
Bact Sample Site # 1	1.15	1.24	1.16	1.16	1.06	0.87	0.61	0.66	0.62	0.75	1.03	1.08
Bact Sample Site # 2												
Bact Sample Site # 3												
Bact Sample Site # 4	1.06	1.04	0.99	0.81	0.86	0.83	0.66	0.93	0.75	0.68	0.73	1.02
Bact Sample Site # 5	0.82	0.85	0.98	0.85	0.99	0.94	0.81	0.72	0.63	0.56	0.69	0.61
Average of all measurements taken in the month	1.01	1.04	1.04	0.94	0.97	0.88	0.69	0.77	0.67	0.66	0.82	0.90
RAA calculated quarterly of 12 monthly averages			0.92			0.89			0.84			0.87

DISTRIBUTION SYSTEM TEST RESULTS 2025

TTHM	Previous Year 2024				YEAR Covered by the CCR 2025			
	2nd Qrt	3rd Qrt	4th Qrt	1st Qrt	2 nd Qrt	3rd Qrt	4th Qrt	
Sample site #1-DBP1	0.070	0.050	0.044	0.031	0.046	0.058	0.056	
Sample site #2-DBP2	0.056	0.047	0.023	0.020	0.050	0.043	0.034	
			DPB1 LRAA	0.049	0.043	0.045	0.048	
			DBP 2 LRAA	0.037	0.035	0.034	0.037	

HAA-5	Previous Year 2024				YEAR Covered by the CCR 2025			
	2nd-Qrt	3rd Qrt	4th Qrt	1st Qrt	2 nd Qrt	3rd Qrt	4th Qrt	
Sample site #1-DBP1	0.018	0.016	0.017	0.016	0.023	0.011	0.012	
Sample site #2-DBP2	0.028	0.014	0.012	0.013	0.030	0.010	0.018	
			DPB1 LRAA	0.017	0.018	0.017	0.016	
			DBP 2 LRAA	0.017	0.017	0.016	0.018	

Lowest Chlorine Residual	Highest Chlorine Residual
Lowest TTHM	Highest TTHM
Lowest HAA-5	Highest HAA-5

2025 Test Results

Sampled from the (Distribution System)

Microbiological Contaminants	MCL	MCLG	Number Detected	Violation Yes/No	Typical Sources of Contaminant
Fecal Coliform and E. coli	See E.Coli note below ^(*)	0	0	NO	Naturally present in the environment

Sampled from the (Water Plant tap)

Microbiological Parameters	MCL	Highest Detected	Violation Yes / No	Major Source
Regulated Contaminant Turbidity (NTU) ^(*)	Lowest monthly % of samples meeting limit of 0.5 NTU (minimum 95%)	.01 NTU	NO	Soil runoff
	Highest single measurement cannot exceed 1.0 NTU			

Sampled from the (Distribution System)

Contaminant	Test date	Units	MCLG	MCL	Highest Detected	Range Detected	Violation Yes/No	Major Sources in Drinking Water chemical treatment for disinfection
Total Trihalomethanes - TTHM	2025	ppb	NA	80	70.0	20.0 70.0	NO	By-product of drinking water chlorination
Haloacetic Acids	2025	ppb	NA	60	30.0	10.0 30.0	NO	By-product of drinking water chlorination
Chlorine Residual	2025	ppm	MRDLG 4	MRDL 4	1.24	0.3 1.24	NO	By-product of drinking water chlorination

Regulated Inorganic Parameters (sampled from the Water Plant tap)

Contaminant	MCL	MCLG	Level Detected	Sample Date	Violation Yes / No	Typical sources of contaminant
Nitrate (as nitrogen) (ppm)	10	10	0.4	2025	NO	Runoff of fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits.
Nitrite (as nitrogen) (ppm)	1	1	0	2025	NO	Runoff of fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits.
Fluoride (ppm)	4.0	4.0	0.50	2025	NO	Water additive which promotes strong teeth. Erosion of natural deposits, discharge from fertilizer and aluminum.
Sulfate (ppm)	250.0	250.0	16	2025	NO	Run off from fertilizer use, leaching from septic tanks, sewage, erosion of natural deposits.
Barium (ppm)	2.0	2.0	0.015	2018	NO	Discharge from drilling wastes, discharge from metal refineries, discharge from mines.
Chromium (ppb)	100	100	1.2	2018	NO	Discharge for steel and pulp mills; erosion of natural deposits.
Nickel (ppm)	N/A	N/A	0.0011	2018	NO	Erosion of natural deposits
Sodium (ppm)	N/A	N/A	7.9	2025	NO	Erosion of natural deposits

Special Monitoring and Unregulated Contaminants **	Level Detected	Sample Date	Typical Source of Contaminant
Chloride (ppm)	12	2025	Erosion of natural deposits

Sampled from the (Distribution System)

Contaminants Subject to Action Level (AL)		Action Level		90 % of Samples < This Level			Violation Yes/No	Typical Source of Contaminant
Contaminant	Test Date	Action Level (AL)	Health Goal MCLG	Range Detected	90th % Value	# samples > AL		
Lead (ppb)	Jun-24	12ppb	0 ppb	0 - 212ppb	8ppb	2	NO	Lead service line, corrosion of household plumbing including fittings and fixtures.
Copper (ppm)	Jun-24	1.3ppm	1.3 ppm	0.1 - 0.6ppm	0.4ppm	0	NO	Corrosion of household plumbing systems; erosion of natural deposits.

Regulated Radiocidal Parameters (sampled from the Water Plant tap)

Contaminant	Units	MCL	MCLG	Level Detected	Sample Date	Violation Yes / No	Typical sources of contaminant
Combined Radium Radium 226 and 228	pCi/L	5	0	0	4/24/2025	NO	Erosion of natural deposits ^(*)
Gross Alpha	pCi/L	15	0	0.52	4/18/2025	NO	Erosion of natural deposits

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

(*) E. Coli

E. Coli MCL violation occurs if : (1) routine and repeat samples total coliform-positive and either is E. Coli positive, or (2) supply fails to take all required repeat samples following E. Coli positive routine sample, or (3) supply fails to analyze total coliform positive repeat sample.

(*) Turbidity

Turbidity is a measure of the cloudiness of water. It is monitored to determine the effectiveness of our filtration treatment process. The requirement for turbidity is that all samples be below 1.0 NTU's and that 95% of the samples must be lower than 0.50 NTU's. 100% of our samples were below 0.50 NTU's.

(*) TTHMs [Total Trihalomethanes]

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 system, and may have an increased risk of getting cancer.

(*) Lead

The most recent sampling period for lead and copper was June 1st through September 30th 2024. We are required to monitor once every three years for lead and copper. Two samples from the Consecutive System of China or East China exceeded the Action Level for lead or copper. These sites were retested and came back below the Action Level. The high levels could have been from improper sampling or sample analysis.

(*)There is no safe level of lead in drinking water. Exposure to lead in drinking water can cause serious health effects in all age groups. Infants and children 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 persons 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.

(*) 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 home plumbing. SCRSWA 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 and 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 lead service line. If you are concerned about lead in your water and wish to have your water tested, contact the SCRSWA at 810-765-4647. 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>.

(*) Radium:

Some people who drink water containing radium 226 or 228 in excess of the MCL over many years may have an increased risk of getting cancer.