TTHM & HAA5 IN DRINKING WATER

Resident Information Fact Sheet

WHAT ARE TTHM AND HAA5?

TTHM (Total Trihalomethanes) and HAA5 (Halo acetic Acids) are disinfection byproducts formed when chlorine used to disinfect drinking water reacts with naturally occurring organic materials in the water. Chlorine protects against harmful bacteria, but this reaction can produce these byproducts.

EPA DRINKING WATER LIMITS

Contaminant	EPA Maximum Level
TTHM	80 ppb
HAA5	60 ppb

Compliance is determined using a Locational Running Annual Average (LRAA), calculated from four consecutive quarters of sampling results at each monitoring location.

WHO CAN BE AFFECTED AND HOW?

Long-term exposure to elevated levels may increase health risks.

- **Adults:** Potential increased risk of certain cancers and liver or kidney effects.
- **Pregnant women:** Possible reproductive and pregnancy-related health concerns.
- **Unborn babies and children:** Potential developmental and reproductive health effects.

Health risks depend on exposure levels and length of exposure.

HOW DO THESE BYPRODUCTS FORM?

- Chlorine reacts with naturally occurring organic matter in source water.
- Higher water temperatures may increase byproduct formation.
- Water remaining in storage tanks and pipes for extended periods may develop higher levels.

HOW CAN RESIDENTS PROTECT THEMSELVES?

- Follow drinking water notices issued by the Village.
- Contact the Water Department with questions about test results.
- Consult a healthcare provider about individual health concerns.
- Consider a certified water treatment system specifically designed to reduce these contaminants.
- Do not boil water to remove TTHM or HAA5. Boiling may increase their concentration.

WHAT IS THE VILLAGE DOING?

The Village is committed to protecting public health by continuing required water sampling, monitoring TTHM and HAA5 levels, reviewing laboratory results, following EPA and state requirements, and keeping residents informed about drinking water quality.

OUR COMMITMENT TO SAFE DRINKING WATER

Providing safe, reliable drinking water is a priority for the Village. We remain committed to proper sampling, ongoing monitoring, and compliance with applicable drinking water regulations.

For more information: www.epa.gov/ground-water-and-drinking-water

Monitoring Violations Annual Notice Template

IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER

Monitoring Requirements Not Met for The Village of St. Jacob

Our water system violated several drinking water standards over the past year. Even though these were not emergencies, as our customers, you have a right to know what happened and what we did to correct these situations.

We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not our drinking water meets health standards. During compliance period 7/1/26 – 9/30/26 we collected our TTHMs 4 days out of compliance period, for TTHM and HAA5 and therefore cannot be sure of the quality of our drinking water during that time.

What should I do?

There is nothing you need to do at this time.

The table below lists the contaminants, when samples should have been taken, and the date on which follow-up samples were taken.

Contaminant	Required sampling frequency	Number of samples taken	When all samples should have been taken	When samples were or will be taken
Total Tri-Halomethane (TTHMs)	Quarterly	0	8/1/26 – 8/15/26	The samples were taken 4 days out of the monitoring period on 8/19/26
Total Halo acetic Acids (HAA5)	Quarterly	0	8/1/26 – 8/15/26	The samples were taken 4 days out of the monitoring period on 8/19/26

What happened? What is being done?

This situation resulted from a mix-up with the laboratory and a communication gap, which caused us to fall four days outside of our required monitoring period. Once the bottles were received, samples were collected immediately and submitted for testing. The results confirmed that all samples were within EPA guidelines.
For more information, please contact Water Operator at 618-644-5666

Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.

This notice is being sent to you by The Village of St. Jacob. Water System ID# IL1190950 Date distributed