



Charter Township of Haring  
Cadillac, MI



INFRASTRUCTURE  
ALTERNATIVES, INC.

April 30, 2018

## Hydrant & Water Main Flushing / Water Quality Report

Dear Resident & Business:

Infrastructure Alternatives, Inc. staff has scheduled flushing of the hydrants and water mains in the Charter Township of Haring. There are three (3) flushing events that will take place this calendar year. The first will occur over 3 weeks during the month of **May**. Specifically, from **May 16<sup>th</sup>-17<sup>th</sup>** we will be flushing along Boon Rd to the east of N. Mitchell. From **May 23<sup>rd</sup>-24<sup>th</sup>** we will be flushing from the along Boon Rd to the west on N. Mitchell and along N. Mitchell south of Boon Rd. From **May 30<sup>th</sup>-31<sup>st</sup>** we will be flushing the North Park / Pine View residential area. All flushing will be performed between the hours of 8:00AM-6:00PM.

The second flushing will occur from **July 10<sup>th</sup>-12<sup>th</sup>**. The same areas will be flushed in the same order as listed above but will be flushed over three consecutive days opposed to three consecutive weeks. The flushing will be performed between the hours of 8:00AM-6:00PM.

The third flush will occur from **October 23<sup>rd</sup>-25<sup>th</sup>**. The same areas will be flushed in the same order as listed above but will be flushed over three consecutive days opposed to three consecutive weeks. The flushing will be performed between the hours of 8:00AM-6:00PM.

The reason for the lengthy flushing in May and extended hours of flushing in July and October is due to a new flushing program we are implementing for Haring Township's Water System. Haring Township's new flushing program was designed by the engineering staff and field crews would like to set aside as much time as possible to ensure a successful initial flush.

**Important:** Your cooperation is needed to make the flushing program successful. Please note the following recommendations.

1. **Avoid using water during the time period when water flushing will be performed in your area.**
2. **If appropriate, turn off and by-pass your water softening system one hour before flushing is scheduled to be performed in your area. Do not return your softener to service until after you have flushed your water lead (See number 4).**
3. **Turn off any automatic water systems, such as time-delayed dishwashers or timed lawn sprinkling systems.**
4. **One hour after the scheduled flushing is performed, prior to using water in your home, open the faucet closest to the point where the water enters your home. Allow the water to run into the nearest drain until it runs clear. If appropriate, return your water softener or automatic water systems to service.**

If needed, there is no issue with using water while we are flushing. If you do need to use your water during the scheduled flushing times, we recommend running water for a short period of time until clear before use.

During these flushing dates, it is a perfect time for customers to flush the plumbing inside of their homes/businesses if desired. To accomplish a proper flushing throughout the plumbing in your home and your service line, open all of your faucets and let the cold water run for 10-15 minutes.

Also, this is a good time to cycle the water in your hot water heater. To cycle all of the water through your water heater, turn on all the hot water faucets in your home/business until the water runs cold. Again, this is only a recommendation and is not required.

If you have any questions, concerns or experience water quality or pressure problems, please contact IAI staff at (231)577-8793. Thank you for your cooperation,

Bob Polanic | Project Manager

IAI

[7888 Childsdale Ave. | Rockford, MI 49341 USA](#)

# 2017 Water Quality Report for Haring Charter Township

This report covers the drinking water quality for Haring Charter Township for the 2017 calendar year. This information is a snapshot of the quality of the water that we provided to you in 2017. Included are details about where your water comes from, what it contains, and how it compares to Environmental Protection Agency (EPA) and state standards.

Your water comes from 2 (two) groundwater wells, each over 260 feet deep. The State performed an assessment of our source water to determine the susceptibility or the relative potential of contamination. The susceptibility rating is on a seven-tiered scale from "very-low" to "very-high" based on geologic sensitivity, well construction, water chemistry and contamination sources. Our source water has a moderate susceptibility to the potential of contamination. A copy of this assessment report is available at the Haring Charter Township Hall located at 515 Bell Ave. Cadillac, MI 49601.

If you would like to know more about the report, please contact **Bob Polanic by phone at (616)204-1866 or (231)577-8793 or by email at [bpolanic@infralt.com](mailto:bpolanic@infralt.com).**

During 2017 Haring Township finalized their most recent update of The Wellhead Protection Program. The majority of this work was an updated contaminate source inventory of the Wellhead Protection Area. Copies of this report are available upon request at the Township Hall located at 515 Bell Ave. Cadillac, MI 49601.

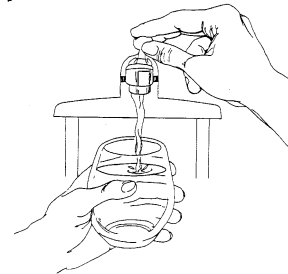
- **Contaminants and their presence in water:** Drinking Water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the **EPA's Safe Drinking Water Hotline (800-426-4791)**.

- **Vulnerability of sub-populations:** 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 systems 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 (800-426-4791).

- **Sources of drinking water:** The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. Our water comes from 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 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 that tap water is safe to drink, EPA prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration regulations establish limits for contaminants in bottled water which provide the same protection for public health.

## Cross Connections

Cross-connections that contaminate drinking water distribution lines are a major concern. A cross-connection is formed at any point where a drinking water line connects to equipment (boilers), systems containing chemicals (air conditioning systems, fire sprinkler systems, irrigation systems), or water sources of questionable quality. Cross-connection contamination can occur when the pressure in the equipment or system is greater than the pressure inside the drinking water line (backpressure). Contamination can also occur when the pressure in the drinking water line drops due to fairly routine occurrences (main breaks, heavy water demand), causing contaminants to be sucked out from the equipment and into the drinking water line (back-siphon).

Outside water taps and garden hoses tend to be the most common sources of cross-connection contamination at home. The garden hose creates a hazard when submerged in a swimming pool or when attached to a chemical sprayer for weed killing. Garden hoses that are left lying on the ground may be contaminated by fertilizers, cesspools, or garden chemicals. Improperly installed valves in your toilet can also be a source of cross-connection contamination.

Community water supplies are continuously jeopardized by cross-connections unless appropriate valves, known as backflow prevention devices, are installed and maintained. We are in the process of surveying all industrial, commercial, and institutional facilities in the service area to make sure that all potential cross-connections are identified and eliminated or protected by a backflow preventer. We also require an inspection and test of each backflow preventer to make sure that it is providing maximum protection.

For more information, review the Cross-Connection Control Manual from the U.S. EPA's Web site at <https://www.epa.gov/dwcapacity/distribution-resources-small-drinking-water-systems-0>. You can also call the Safe Drinking Water Hotline at (800) 426-4791.

## Water Quality Data

The table below lists all the drinking water contaminants that we detected during the 2017 calendar year. The presence of these contaminants in the water does not necessarily indicate that the water poses a health risk. Unless otherwise noted, the data presented in this table is from testing done January 1 – December 31, 2017. 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. All of the data is representative of the water quality, but some are more than one year old.

### Terms and abbreviations used below:

- **Maximum Contaminant Level Goal (MCLG):** The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.
- **Maximum Contaminant Level (MCL):** 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.
- **Maximum Residual Disinfectant Level (MRDL):** The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.
- **Maximum Residual Disinfectant Level Goal (MRDLG):** The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.
- **N/A:** Not applicable **ND:** not detectable at testing limit **ppb:** parts per billion or micrograms per liter **ppm:** parts per million or milligrams per liter **pCi/l:** picocuries per liter (a measure of radioactivity).
- **Action Level (AL):** The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.

Regulated Contaminant	MCL, TT, or MRDL	MCLG or MRDLG	Level Detected	Range	Year Sampled	Violation Yes / No	Typical Source of Contaminant
<b>Inorganic Contaminants</b>							
Barium (ppm)	2	2	0.02	N/A	2015	NO	Discharge of drilling wastes; Discharge of metal refineries; Erosion of natural deposits
Nitrate (ppm)	10	10	<0.05	N/A	2017	NO	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Sodium <sup>1</sup> (ppm)	N/A	N/A	10	N/A	2017	NO	Erosion of natural deposits.
<b>Disinfectants &amp; Disinfection By-Products</b>							
TTHM - Total Trihalomethanes (ppb)	80	N/A	77	48-77	2017	NO	Byproduct of drinking water disinfection
HAA5 Haloacetic Acids	60	N/A	34	0-34	2017	NO	Byproduct of drinking water disinfection

(ppb)							
Chlorine <sup>2</sup> (ppm)	4	4	RAA= 0.1	0-0.41	2017	NO	Water additive used to control microbes
<b>Radioactive Contaminants</b>							
Alpha emitters (pCi/L)	15	0	0.54	0.45-0.54	2013	NO	Erosion of natural deposits
Combined radium (pCi/L)	5	0	0.46	0.14-0.46	2016	NO	Erosion of natural deposits
<b>Microbiological Contaminants</b>							
Total Coliform (total number or % of positive samples/month)	TT	N/A	0	N/A	2017	NO	Naturally present in the environment.
<i>E. coli</i> in the distribution system (positive samples)	See <i>E. coli</i> <sup>3</sup> note below	0	0	N/A	2017	NO	Human and animal fecal waste.
During the monitoring period from 10/01/2017 to 10/31/2017 we did not take the required number of routine samples for Total Coliform. This violation did not pose a threat to the quality of the drinking water. Through miscommunication of the field staff, one of the two required samples were missed							
<b>Inorganic Contaminant Subject to AL</b>	<b>AL</b>	<b>MCLG</b>	<b>Your Water<sup>4</sup></b>	<b>Year Sampled</b>	<b># of Samples Above AL</b>	<b>Does System Exceed AL? Yes / No</b>	<b>Typical Source of Contaminant</b>
Lead (ppb)	15	0	0	2016	0	NO	Corrosion of household plumbing systems; Erosion of natural deposits
Copper (ppm)	1.3	1.3	0.118	2016	0	NO	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives

<sup>1</sup> Sodium is not a regulated contaminant.

<sup>2</sup> The chlorine "Level Detected" was calculated using a running annual average.

<sup>3</sup> *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 for *E. coli*.

<sup>4</sup> 90 percent of the samples collected were at or below the level reported for our water.

**Information about lead:** If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. Haring Charter Township is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at <http://www.epa.gov/safewater/lead>.

Monitoring and Reporting to the DEQ Requirements: The State and EPA require us to test our water on a regular basis to ensure its safety. We met all the monitoring and reporting requirements for 2017.

We will update this report annually and will keep you informed of any problems that may occur throughout the year, as they happen. Copies are available at Haring Charter Township Hall located at 515 Bell Ave. Cadillac, MI 49601. This report will not be sent to you.

We invite public participation in decisions that affect drinking water quality. Haring Charter Township Board meetings are held at the Township Hal (515 Bell Ave. Cadillac, MI 49601) at 6:00 PM on the second Monday of each month. For more information about your water, or the contents of this report, contact Bob Polanic by phone at (616)204-1866 or (231)577-8793 or email at [bpolanic@infralt.com](mailto:bpolanic@infralt.com). For more information about safe drinking water, visit the U.S. Environmental Protection Agency at [www.epa.gov/safewater/](http://www.epa.gov/safewater/).