

Hartland Township 2009 CCR

Is my water safe?

Last year, as in years past, your tap water met all U.S. Environmental Protection Agency (EPA) and State drinking water health standards. United Water/Hartland Township vigilantly safeguards its water supplies and once again we are proud to report that our system has not violated a maximum contaminant level or any other water quality standard.

Do I need to take special precautions?

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 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. EPA/Centers 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 Water Drinking Hotline (800-426-4791).

Source water assessment and its availability

Your water comes from 3 groundwater wells, each over 100 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. The susceptibility of our water source is rated low to moderately low.

Why are there contaminants in my 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. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's (EPA) Safe Drinking Water Hotline (800-426-4791). The sources of 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, microbial contaminants, such as viruses and bacteria, that 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 such as agriculture, urban storm water runoff, and residential uses; 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 storm water runoff, and septic systems; and radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining activities. 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 (FDA) regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Water Quality Data Table

The following tables list all of the drinking water contaminants that we detected during the calendar year of this report. The presence of 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 in the calendar year of the report. The EPA or the State requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants do not change frequently.

Disinfectants & Disinfection By-Products								
	MCLG or	MCL,TT, or	Your	Range		Sample	Violation	
Contaminants	MRDLG	MRDL	Water	Low	High	Date	Yes/No	Typical Source
(There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.)								
Chlorine (as Cl ₂) (ppm)	4	4	2.20	0.26	2.20	2009	No	Water additive used to control microbes
Haloacetic Acids (HAA5) (ppb)	NA	60	2	NA		2008	No	By-product of drinking water chlorination
TTHMs [Total Trihalomethanes] (ppb)	NA	80	4.3	NA		2008	No	By-product of drinking water disinfection
Inorganic Contaminants								
Barium (ppm)	2	2	0.29	NA		2009	No	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Fluoride (ppm)	4	4	1.4	0.40	1.40	2009	No	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Selenium (ppb)	50	50	ND	NA		2009	No	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines
Sodium (optional) (ppm)		MPL	28	NA		2009	No	Erosion of natural deposits; leaching
Microbiological Contaminants								
Fecal coliform/E. coli (positive samples)	0	0	0	NA		2009	No	Human and animal fecal waste
A violation occurs when a routine sample and a repeat sample, in any given month, are total coliform positive, and one is also fecal coliform or E. coli positive.								
Total coliform (positive samples/month)	0	1	0	NA		2009	No	Naturally present in the environment
Inorganic Contaminants								
			Your	Sample	# Samples	Exceeds		
Contaminants	MCLG	AL	Water	Date	Exceeding AL	AL		Typical Source
Copper - action level at consumer taps (ppm)	1.3	1.3	0.4	2007	0	No		Corrosion of household plumbing systems; erosion of natural deposits

The following contaminants were monitored for, but not detected, in your water.

Inorganic Contaminants

	MCLG	MCL			
	or	or	Your		
Contaminants	MRDLG	MRDL	Water	Violation	Typical Source
Arsenic (ppb)	0	10	ND	No	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes

Unit Descriptions

<u>Term</u>	<u>Definition</u>
ppm	ppm: parts per million, or milligrams per liter (mg/L)
ppb	ppb: parts per billion, or micrograms per liter (µg/L)
positive samples/month	positive samples/month: Number of samples taken monthly that were found to be positive
positive samples	positive samples/yr: The number of positive samples taken that year
NA	NA: not applicable
ND	ND: Not detected
NR	NR: Monitoring not required, but recommended.

Important Drinking Water Definitions

<u>Term</u>	<u>Definition</u>
MCLG	MCLG: Maximum Contaminant Level Goal: 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.
MCL	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.
TT	TT: Treatment Technique: A required process intended to reduce the level of a contaminant in drinking water.
AL	AL: Action Level: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
Variations and Exemptions	Variations and Exemptions: State or EPA permission not to meet an MCL or a treatment technique under certain conditions.
MRDLG	MRDLG: Maximum residual disinfection level goal. 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.
MRDL	MRDL: Maximum residual disinfectant level. 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.
MNR	MNR: Monitored Not Regulated
MPL	MPL: State Assigned Maximum Permissible Level

Monitoring and Reporting 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 2009.

We will update this report annually and will keep you informed of any problems that may occur throughout the year, as they happen. Additional copies are available at Hartland Township Offices, 2655 Clark Road, Hartland, MI 48353.

We invite public participation in decisions that affect drinking water quality. The Hartland Township Board meets every first and third Tuesday of each month. For more information about your water, or the contents of this report, contact United Water at, 810-632-9405. For more information about safe drinking water, visit the U.S. Environmental Protection Agency at www.epa.gov/safewater.

