

2016 Water Quality Report for the Village of Hillman

WSSN: 3160 Montmorency County

This report covers the drinking water quality for the Village of Hillman for the 2016 calendar year. This information is a snapshot of the quality of the water that we provided to you in 2016. 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 four groundwater wells which average around sixty-five 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 source is in a range from low to moderately high.

There are no significant sources of contamination in our water supply. We are making efforts to protect our sources by following state and federal guidelines for well isolation and proper maintenance.

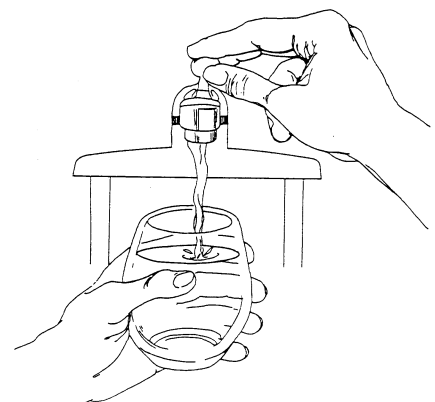
If you would like to know more about the report please contact the Hillman Village Office at 24220 Veterans Memorial Hwy. or call (989)742-4751.

- **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 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 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 storm water 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.



Water Quality Data

The table below lists all the drinking water contaminants that we detected during the 2016 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, 2016. 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:

Water Supplier: Define only the terms you use in the table below. Delete any you don't use.

- **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):** means 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):** means 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:** The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.

| Regulated Contaminant | MCL | MCLG | Highest Level Detected | Range | Year Sampled | Violation Yes / No | Typical Source of Contaminant |
|------------------------------------|-------------|--------------|------------------------|-----------|--------------|--------------------|--|
| Arsenic (ppb) | 10 | 0 | 0 | NA | 8/27/2012 | NO | Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes |
| Barium (ppm) | 2 | 2 | .093 | – | 9/21/2011 | NO | Discharge of drilling wastes; Discharge of metal refineries; Erosion of natural deposits |
| Chromium (ppb) | 100 | 100 | .00073 | - | 9/21/2011 | NO | Discharge from steel and pulp mills; Erosion of natural deposits |
| Fluoride (ppm) | 4 | 4 | .19 | 0.16-0.45 | 9/27/2016 | NO | Erosion of natural deposits. Discharge from fertilizer and aluminum factories. |
| TTHM – Total Trihalomethanes (ppb) | 80 | N/A | 1.2 | NA | 9/27/2016 | YES | Byproduct of drinking water disinfection |
| HAA5 Haloacetic Acids (ppb) | 60 | N/A | 1 | na | 9/27/2016 | YES | Byproduct of drinking water disinfection |
| Chlorine (ppm) | MRDL | MRDLG | 0.07 | 0.07-0.7 | 2015 | NO | Water additive used to control microbes |
| | 4 | 4 | | | | | |
| Nitrate | 10 | 1.05 | 1.2 | 0-1.2 | 9/27/2015 | NO | Discharging of drilling waste; Discharge of metal refineries; Erosion of natural deposits |
| Nitrite | 1 | N/A | 0 | 0 | 9/08/2015 | NO | Discharge from steel and pulp mills; Erosion of natural deposits |
| Sodium | N/A | N/A | 36 | 10-36 | 09/08/2015 | NO | Erosion of Natural Deposits |

| Radioactive Contaminant | MCL | MCLG | Highest Level Detected | Range | Year Sampled | Violation Yes / No | Typical Source of Contaminant |
|---------------------------|--------------|------|-----------------------------|-----------|-----------------------------|----------------------------|--|
| Alpha emitters (pCi/L) | 15 | 0 | 4.1 | 4.1 - 2.4 | 2015 | NO | Erosion of natural deposits |
| Combined radium (pCi/L) | 5 | 0 | 1.51 | NA | 9/21/2014 | NO | Erosion of natural deposits |
| Contaminant Subject to AL | Action Level | MCLG | 90% of Samples ≤ This Level | | Year Sampled | Number of Samples Above AL | Typical Source of Contaminant |
| Lead (ppb) ** | 15 | 0 | 4 ppb | | June 1, 2013-Sept. 30, 2015 | 0 | Corrosion of household plumbing systems; Erosion of natural deposits |
| Copper (ppm) | 1.3 ppm | 1.3 | 1.26 ppm | | June 1, 2013-Sept 30, 2015 | 2 | Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives |
| | | | | | | | |

* EPA considers 50 pCi/l to be the level of concern for beta particles.

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. The Village of Hillman 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 at 1-800-426-4791 or at <http://www.epa.gov/safewater/lead>.

IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER

Monitoring Requirements Not Met for the Village of Hillman

*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 2016 we did not monitor for disinfection byproducts and therefore cannot be sure of the quality of our drinking water during that time. However, this violation **does not** pose a threat to your supply's water.*

What should I do? There is nothing you need to do at this time. This is not an emergency. You do not need to boil water or use an alternative source of water at this time. Even though this is not an emergency, as our customers, you have a right to know what happened and what we did to correct the situation.

The table below lists the contaminants we did not properly test for, how often we are supposed to sample for these contaminants, how many samples we are supposed to take, how many samples we took, when samples should have been taken, and the date we will collect follow-up samples.

| Contaminant | Required sampling frequency | Number of samples taken | When all samples should have been taken | Dates samples will be taken |
|-------------------------|-----------------------------|-------------------------|---|-----------------------------|
| Disinfection Byproducts | 1 @ 12 months | 0 | 08/01/2016 to 08/31/2016 | 08/01/2017 to 08/31/2017 |

What happened? What is being done? We inadvertently missed taking samples during the required time period. We took a disinfection byproduct sample in September 2016 at an incorrect location but it did not count as a compliance sample. We can only take those samples during the required month of August every year. We are making every effort to assure this does not happen again.

For more information, please contact Mr. John Burr at 989-742-2148, or 751 E Progress Street, Hillman, Michigan 49746.

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 the Village of Hillman Office located at 24220 Veterans Memorial Hwy, Hillman, MI. The report will be posted around the Village including the Library and Hillman Community Schools. Individual copies of this report will not be mailed to you. You may pick up a copy at the Village of Hillman office. Hours are 8:00 AM to 3:30 PM, Monday through Friday.

We invite public participation in decisions that affect drinking water quality. Hillman Village Council meetings are the first and third Tuesday of each month at 7:00 PM. For more information about your water, or the contents of this report, contact David J. Post, Village Manager or John Burr, DPW Supervisor at 989-742-4751. The report is posted at the Village of Hillman website: www.hillmanmichigan.org. For more information about safe drinking water, visit the U.S. Environmental Protection Agency at www.epa.gov/safewater/.