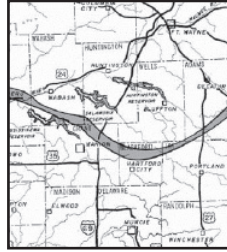
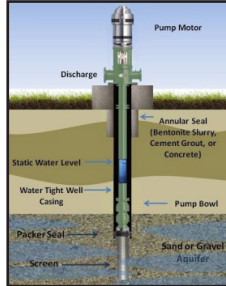


## GROUNDWATER

Marion Utilities pumps about 3.2 million gallons per day of water from wells in the Teays River Valley. Many years ago glaciers carved out the valley and then it was filled with glacial till. This has made an excellent groundwater source for the City of Marion.



Marion Utilities works to protect the groundwater source. For information on preventing groundwater contamination go to [www.marionutilities.com](http://www.marionutilities.com).



The groundwater is softened, filtered, treated with chlorine and fluoride (if needed), and pumped into the drinking water system.

## BACTERIAL MONITORING

Marion Utilities conducts routine monitoring for presence of harmful bacteria within the water supply. This monitoring ensures that Marion Utilities will provide the best public health protection possible by finding and fixing any potential vulnerabilities to contamination as soon as they occur.

In 2016, the Revised Total Coliform Rule (RTCR) went into effect and strengthened existing limits on E. coli, a specific indicator of contamination. It also increased the response required by a positive coliform sample and established a more active response to this indicator if found.

Marion Utilities has complied with the changes established in this revised rule. In over 360 samples taken during 2018, no presence of total coliform or E. coli bacteria was found.

## LEAD & YOUR PLUMBING

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. Marion Utilities 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 thirty (30) seconds to two (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 about 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>.

If you have any questions about the contents of this report, please contact Robin Shrader at 765.664.2391 or join us at our Utility Board Meetings held at 1540 N. Washington St. on the first and third Thursday of each month at 5:30 p.m.



**Marion Utilities  
Water Department**  
305 E. Bond Ave.  
Marion, IN 46952  
765.664.2391  
[www.marionutilities.com](http://www.marionutilities.com)



# Marion Utilities 2019 Annual Water Quality Report

**Your Service Provider for:**  
**Drinking Water • Wastewater  
Storm Water • Solid Waste**

The mission of Marion Utilities is to bring added value to the City of Marion by providing excellent customer service, maintaining the highest of standards for the lowest possible cost, and promoting environmental stewardship to ensure the future of our community.

## WATER QUALITY INFORMATION

Marion Utilities conducts regular testing to monitor the treatment process and the drinking water quality. The table below shows contaminants that were detected in 2018 water samples or in the most recent testing done for that contaminant. Samples were collected from treated drinking water. Contact Marion Utilities for a list of all tested contaminants. No violations were identified.

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 Safe Drinking Water Hotline at 1.800.426.4791.

| Contaminant   | Date Sampled | MCL | MCLG | Result | Range of Detected Levels | Typical Source                            |
|---|--------------|-----|------|--------|--------------------------|---|
| <b>INORGANIC CONTAMINANTS</b> (Results remain on this report for 3 years from the test date or when the test is repeated)   |              |     |      |        |                          |   |
| Copper (ppb)  | 6/8/17       | 1.3 | 1.3  | 0.033  | <0.005-0.109             | Corrosion of household plumbing           |
| Lead (ppb)  | 6/8/17       | 15  | 0    | 2.1    | <0.5 - 5.6               | Corrosion of household plumbing           |
| Barium (ppm)  | 2/8/17       | 2   | 2    | 0.0082 | 0.0082-0.0082            | Erosion of natural deposits               |
| Chromium (ppb)  | 2/8/17       | 100 | 100  | 2.4    | 2.4-2.4                  | Erosion of natural deposits               |
| Fluoride (ppm)  | 2017         | 4   | 4    | 0.7    | 0.7-0.7                  | Erosion of natural deposits               |
| <b>UNREGULATED CONTAMINANTS</b> (Detected during UCMR 3 and must be reported for 5 years)                                   |              |     |      |        |                          |   |
| Hexavalent Chromium (ppb)   | 2014         | NA  | NA   | 3.0    | 2.5 - 3.2                | Erosion of natural deposits               |
| Molybdenum (ppb)  | 2014         | NA  | NA   | 55     | 52 - 60                  | Erosion of natural deposits               |
| Strontium (ppm)   | 2014         | NA  | NA   | 2.5    | 2.2 - 2.8                | Erosion of natural deposits               |
| Vanadium (ppb)  | 2014         | NA  | NA   | 0.9    | 0.7 - 1.1                | Erosion of natural deposits               |
| <b>UNREGULATED CONTAMINANTS</b> (Results remain on this report for 3 years from the test date or when the test is repeated) |              |     |      |        |                          |   |
| Sodium (ppm)  | 2/8/17       | NA  | NA   | 30     | 30-30                    | Erosion of natural deposits               |
| MTBE (ppb)  | 2/8/17       | NA  | NA   | 0.6    | 0.6-0.6                  | Additive found in gasoline                |
| <b>RESIDUAL DISINFECTANT &amp; DISINFECTION BYPRODUCTS</b>  |              |     |      |        |                          |   |
| Chlorine Residual (ppm)   | 2018         | 4   | NA   | 2.55   | 1.89-3.00                | Water additive to control microbes        |
| Total Trihalomethanes (ppb)   | 11/6/18      | 80  | NA   | 1.1    | 0.8-1.1                  | Byproducts of drinking water chlorination |

**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 Contaminant Level Goal (MCLG):** The level of contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

**UCMR 3** - Third Unregulated Contaminant Monitoring Rule

**ppm** = parts per million or **ppb** = parts per billion

## GENERAL INFORMATION

The sources of drinking water (both tap 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 radioactive material, as well as pick up substances resulting from the presence of animals or human activity. Contaminants that may be present in source water include:

**(A) Microbial contaminants**, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

**(B) Inorganic contaminants**, such as salts and metals, which can be naturally-occurring or result from urban storm runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.

**(C) Pesticides and herbicides**, which may come from a variety of sources such as agriculture, storm water runoff, and residential uses.

**(D) Radioactive contaminants**, which can naturally occur 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 which limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Certain individuals may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons can be particularly at risk for infection (i.e. persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants). These individuals 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* are available from the Safe Drinking Water Hotline at 1.800.426.4791.