

# FAIRFIELD TOWNSHIP ANNUAL WATER QUALITY REPORT 2014

The Fairfield Department of Public Works is committed to producing the best quality drinking water possible. The purpose of this report is to provide you with information about your drinking water. The report explains to you where your water comes from and the treatment it receives before it reaches your tap. This report also lists contaminants detected in your water and an explanation of violations in the past year.

## WHERE ARE YOUR WATER SOURCES LOCATED?

---

The source of your drinking water comes from two wells. Both have a 10-inch diameter casing with total, combined pumping capabilities of 1,425 gallons per minute.

The State of Michigan Primacy Agency recently performed an assessment of your source water to determine the susceptibility to or the relative potential of contamination. The susceptibility rating is on a seven-tiered scale from “very-low” to “very high” based primarily on geologic sensitivity, water chemistry and contaminant sources. The susceptibility of your source water is termed “moderately low” (tier 3 of 7). More information from this report is available by contacting the Madison Township Department of Public Works.

Water from each of the wells is pumped to the Iron Removal Facility where potassium permanganate and sodium hypochlorite are added to aid in the iron removal process and to provide a disinfectant in the water distribution system.

From here, the water passes through an iron removal process to reduce staining of clothes and fixtures in the distribution system. Treated water is then pumped to the distribution system and elevated storage tank, which maintains constant pressure in the distribution system. The elevated storage tank has a total storage capacity of 150,000 gallons. Our normal system pumpage ranges from 50,000 gallons to 150,000 gallons per day depending on demand (i.e. weather and fire flow).

Fairfield Township has a complex network of water mains that provide transmission and distribution throughout the service area. The existing Township water system serves approximately 3.5 square miles and has a distribution network consisting of more than 31.5 miles of water main.

The Michigan Department of Environmental Quality (DEQ) Monitors public water supplies very closely. One method is to require samples to be collected monthly and testing for bacteria. Four samples are collected each month and submitted to the DEQ with a monthly operation report.