

A2: Augusta Township

Challenging groundwater quality and quantity and a seasonal high groundwater table in some areas are factors that have limited growth in this largely rural township. This is due to the glacial geology of the township, which consists mainly of clay-rich lake plain deposits. Aquifers capable of producing high volumes of potable water are not present because of this lake sediment geology, which does not include significant layers of coarse sands and gravels capable of holding large volumes of water. Aquifers in some areas are comprised of thin layers of fine sand, which frequently yield limited amounts of water for domestic purposes.

Underlying the glacial deposits is Coldwater Shale and Limestone bedrock. These formations are encountered in approximately 60% of the drilled wells. Coldwater Shale predominates to the north and limestone of the Detroit formation is encountered in the south. The average depth to bedrock is over 200 feet. However, the southern portion to the Township has only 60-120 feet of drift. Groundwater supplies in the southern part of Augusta Township are especially difficult to obtain because of the absence of drift aquifers below 25 feet and the presence of a limestone aquifer that has high levels of hydrogen sulfide in many areas. Methane gas and hydrogen sulfide gas make the groundwater undesirable for domestic use.

Of note is the presence of little or no iron, and high levels of chloride and sodium in some wells. Wells terminated in or near bedrock exhibit higher levels of chloride and sodium. Compounding water quality problems is the presence of naturally occurring manganese and barium. Manganese can cause black staining of plumbing fixtures, jewelry, and other metals.

Augusta Twp. – Township Hall



Source: <http://www.augustatownship.org/index.php/>, Oct. 2006.

Drinking Water: Well Information

From 1968 through 1992 there have been 734 water wells drilled in Augusta Township by licensed well drillers. Between the years 2000 to 2005 there were 62 new wells drilled and 52 wells were replaced. The average well depth in the Township is 114 feet. Wells range in depth from 25 feet to 255 feet.

Drinking Water: Consumer Confidence Report Summary

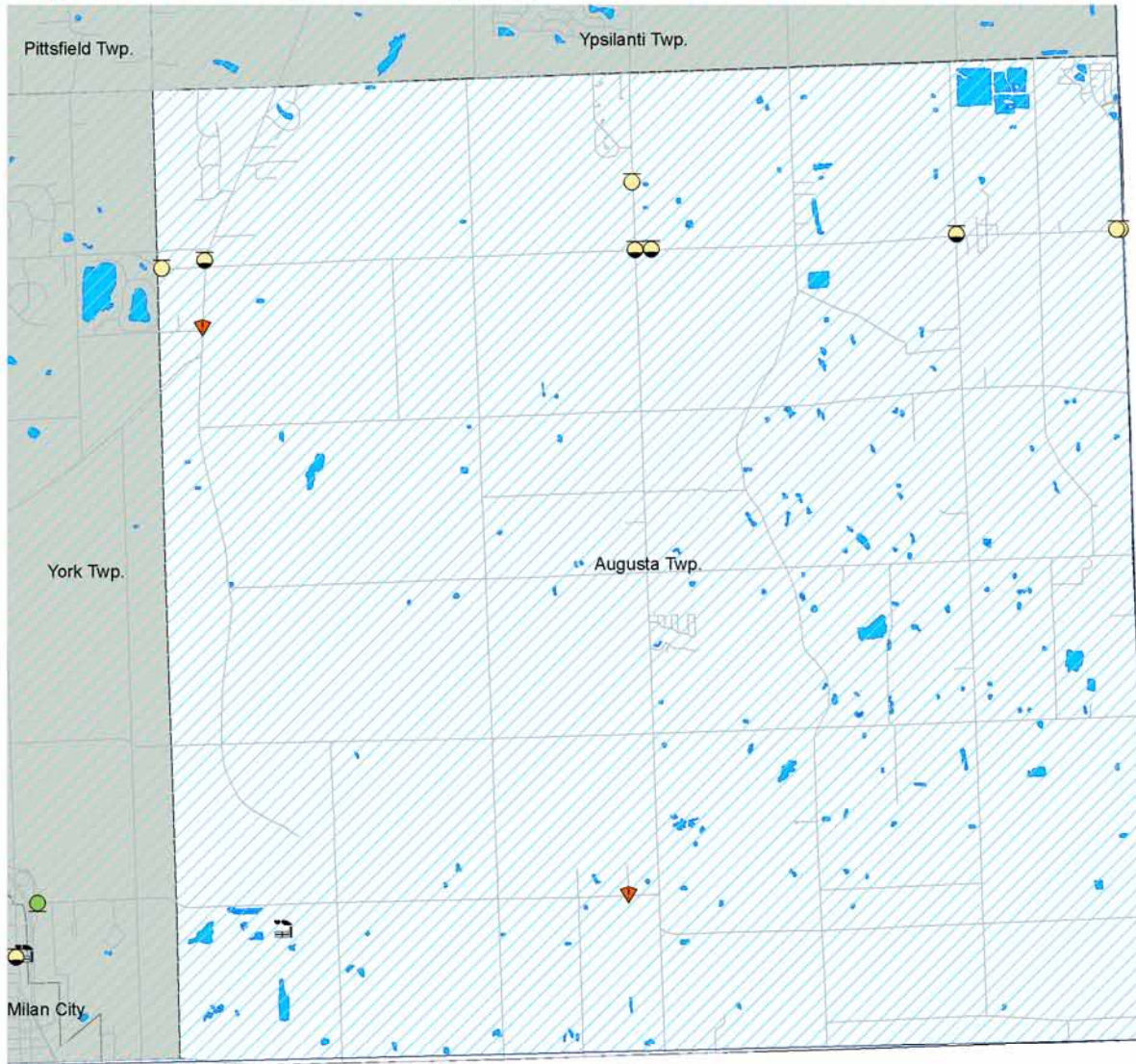
Augusta Township: See Ypsilanti (YCUA)

Surface Water Features: Stony Creek

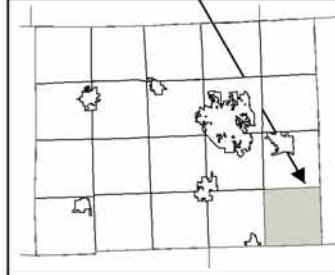
Local Indicator Data

Augusta Township has no TMDL sites. It has one Part 201 Site, which is the closed Arkona Road Landfill. It has two NPDES permits for storm water. Augusta Township has 19 UST sites and 6 LUST sites.

Augusta Township: Water Quality Indicators

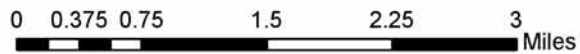


**Washtenaw County:
Augusta Twp.**



Legend

- Septage Disposal Sites - 0
- NPDES Storm Sites - 2
- NPDES Permit Sites - 0
- TMDL Sites - 0
- AST Sites - 0
- LUST Sites - 6
- UST Sites - 19
- Part 615 Sites - 0
- Part 201 Sites - 1
- Part 115 Sites - 0
- Part 111 Sites - 0
- Well First Area
- Lakes
- Augusta Township



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