

### **A5: Freedom Township**

Subsurface coarse sand and gravel layers are common to the geology of Freedom Township. Aquifers are typically found from 25-100 feet. Many of these aquifers are naturally protected by clay layers that average 26 feet in thickness. These clay layers are present over much of the Township. This is due in part to the clay-rich Fort Wayne moraines.

There are several sand and gravel mining operations in the Township. Sand and gravel mining operations have the potential to impact groundwater resources in several ways. These operations use fuels and petroleum-based lubricants which when improperly maintained can lead to contamination. Sand and gravel mining operations can involve de-watering or hydraulic mining below the water table. When these operations occur, area water supplies have the potential to be affected.

Freedom Township has the largest storage facilities for petroleum found in Washtenaw County. At full capacity this facility will store up to 11 million gallons of gasoline and other petroleum based fuels. The facility was built with groundwater protection measures in place.

#### *Drinking Water: Well Information*

From 1968 through 1992 there have been 249 water wells drilled. Between the years 2000 to 2005 there were 40 new wells drilled and 42 wells were replaced. The average well depth in the township is 90 feet.

### **Freedom Twp. – Township Hall**



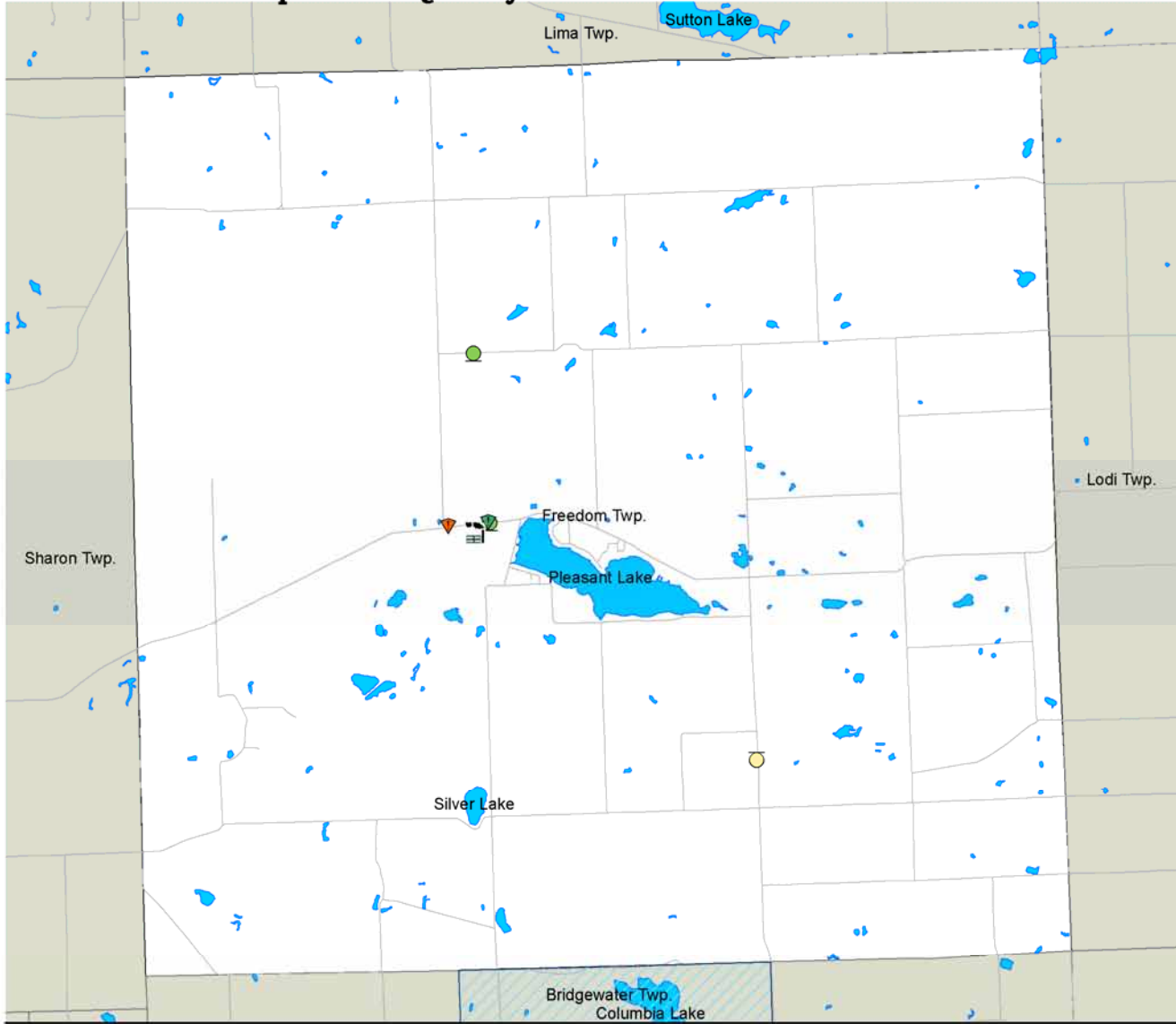
*Drinking Water: Consumer Confidence Report Summary*  
**None.**

*Surface Water Features:* **Pleasant Lake, Silver Lake.**

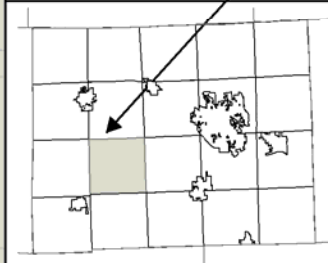
#### *Local Indicator Data*

Freedom Township has no TMDL sites. It has one Part 201 site. It has one NPDES permit for storm water and one NPDES pollutant discharge permit. Freedom Township has 5 AST sites and one UST but no LUST sites.

# Freedom Township: Water Quality Indicators

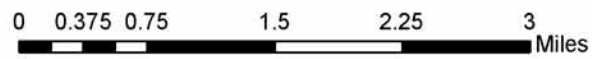


**Washtenaw County:  
Freedom Twp.**



## Legend

- Septage Disposal Sites - 0
- NPDES Storm Sites - 1
- NPDES Permit Sites - 1
- TMDL Sites - 0
- AST Sites - 5
- LUST Sites - 0
- UST Sites - 1
- Part 615 Sites - 0
- Part 201 Sites - 1
- Part 115 Sites - 0
- Part 111 Sites - 0
- Well First Area
- Lakes
- Freedom Township



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