

## **ANALYSIS OF GROUNDWATER SAMPLES OF PRIVATE WATER SUPPLIES**

In accordance with Township Code of Ordinances, all new private water supplies must be tested and analyzed for volatile organic compounds (VOCs) which the US EPA has established a maximum containment level (MCL) that is the maximum concentration of a chemical allowed for VOCs that the MDEQ applies pursuant to Part 201 of the Natural Resources and Environmental Protection Act (the "Part 201 criteria"), including nitrates and nitrites. The water samples shall be analyzed by a laboratory certified by the MDEQ Environmental Science and Services Division, or its successor agency or division, as a Certified Drinking Water Chemical Laboratory, using one of the analytical methods approved by MDEQ MERA Operational Memorandum #16, as it may be amended or supplemented from time to time.

Saugatuck Township does not recommend a particular certified lab for testing and all property owners are free to use labs as listed herein or another of their choice. It is anticipated and known that some owners are interested in having their current well water tested for no other reason than verification that their water is safe. Property owners with shallow wells may be advised to have their water tested.

**Free well test kits are available at the Allegan County Environmental Health office but in limited supply. Call at the Allegan County Environmental Health office at (269) 673-5411 to reserve a free water test kit.**

Many labs, including the Michigan Department of Environmental Quality, are capable for limited wet chemistry testing such as for fluorides, nitrates, sulfates and other organic compounds. The Saugatuck Township requires that private wells be tested for regulated Volatile Organic Compounds (VOCs) that include but are not limited to:

- "PCE" or Tetrachloroethylene that is used in metal degreasing and dry cleaning. It is a suspected to cause cancer, and a host of other health problems.
- "TCE" or Trichloroethylene is used in cleaning metal parts and was widely believed to be harmless before being linked to birth defects. It is a suspected to cause cancer, and a host of other health problems.
- "Toluene" or Toluene that is an organic compound mostly harmless to adults and is sometimes abused as an inhalant. Fetal Toluene Syndrome has been defined and resembles Fetal Alcohol Syndrome with resultant birth defects, but the U.S. Centers for Disease Control and Prevention have identified differentiating features between the two syndromes including FTS having the additional facial features of micrognathia, large anterior fontanel, down-turned mouth corners, hair patterning abnormalities, bi-frontal narrowing of the face, and ear abnormalities.
- "MTBE" or Methyl tert-butyl ether which is a gasoline oxygenate designed to add oxygen to decrease vehicular carbon monoxide emissions and ozone levels in the atmosphere. The United States Environmental Protection Agency (EPA) has concluded that available data are inadequate to quantify health risks of MTBE at low exposure levels in drinking water, but the data supports the conclusion that MTBE is a potential human carcinogen at high doses.



3461 BLUE STAR HWY  
PO BOX 100  
SAUGATUCK, MI 49453

## MDEQ CERTIFIED LABORATORIES

### **Prein & Newhof**

3355 Evergreen Drive NE  
Grand Rapids, MI 49525  
Phone: (616) 364-8491  
Fax: (616) 364-6955

<http://www.preinnewhof.com/contact/>

### **KAR Laboratories, Inc.**

4425 Manchester Rd.  
Kalamazoo, MI 49001  
Phone: (269) 381-9666

<http://www.karlabs.com/>

### **TriMatrix Laboratories**

5560 Corporate Exchange Court  
Grand Rapids, MI 49512  
Phone: (616) 975.4500  
Fax: (616) 942-7463

<http://www.trimatrixlabs.com/>

### **ALS Laboratory Group, Env Div. Holland**

3352 128th Avenue  
Holland, MI 49424  
Phone: (616) 399-6070  
Fax: (616) 399-6185

<http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental>

### **Summit Laboratory, LLC**

900 Godfrey Ave. SW  
Grand Rapids, MI 49503  
Phone: (616) 245-3818  
Fax: (616) 245-3884

<http://summitlaboratory.com/contact-us/>

### **Michigan Department of Environmental Quality (MDEQ)**

Drinking Water Laboratory  
3350 North M.L. King Blvd., P.O. Box 30270  
Lansing, MI 48909  
Phone: (517) 335-8184

\*MDEQ Certified Laboratories full list [http://www.michigan.gov/documents/deq/deq-rrd-LAB-MicrobiologicalLaboratoryCertifications\\_426491\\_7.pdf](http://www.michigan.gov/documents/deq/deq-rrd-LAB-MicrobiologicalLaboratoryCertifications_426491_7.pdf)