

2008 Water Quality Report for The City of Perry

This report covers the drinking water quality for The City of Perry for the 2008 calendar year. This information is a snapshot of the quality of the water that we provided to you in 2008. Included are details about where your water comes from, what it contains, and how it compares to Environmental Protection Agency (EPA) and state standards.

Your water comes from 3 groundwater wells, each over 65 feet deep. Drawing from a glacial sand and gravel aquifer. The aquifer has a thickness of 27 to 30 feet. The total equipped capacity of the 3 wells is about 1000 gallons of water per minute. The State performed an assessment of our source water to determine the susceptibility or the relative potential of contamination. The susceptibility rating is on a seven-tiered scale from "very-low" to "very-high" based on geologic sensitivity, well construction, water chemistry and contamination sources. The susceptibility of our source is MODERATELY LOW for the 3 ground water wells.

Significant sources of contamination include a septic system within 200 feet of a well. The remaining 2 wells have no significant source of contamination. We are making efforts to protect our sources by continuous monitoring our water supply.

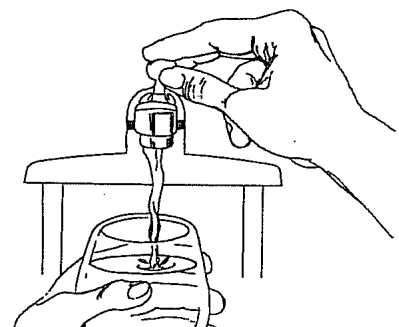
If you would like to know more about the report please contact Chuck Mudge at the City of Perry, 203 W Polly St. or call 517-625-4500 or look up our web site at www.perry.mi.us.

- **Contaminants and their presence in water:** 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 EPA's **Safe Drinking Water Hotline (800-426-4791)**.
- **Vulnerability of sub-populations:** Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune systems disorders, some elderly, and infants can be particularly at risk from infections. These people 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* and other microbial

contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

- **Sources of drinking water:** The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. Our water comes from wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.
- Contaminants that may be present in source water include:
 - T **Microbial contaminants**, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife.
 - T **Inorganic contaminants**, such as salts and metals, which can be naturally-occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.
 - T **Pesticides and herbicides**, which may come from a variety of sources such as agriculture and residential uses.
 - T **Radioactive contaminants**, which are naturally occurring or be the result of oil and gas production and mining activities.
 - T **Organic chemical contaminants**, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.

In order to ensure that tap water is safe to drink, EPA prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration regulations establish limits for contaminants in bottled water which provide the same protection for public health.



Water Quality Data

The table below lists all the drinking water contaminants that we detected during the 2008 calendar year. The presence of these contaminants in the water does not necessarily indicate that the water poses a health risk. Unless otherwise noted, the data presented in this table is from testing done January 1 – December 31, 2008. The State allows us to monitor for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. All of the data is representative of the water quality, but some are more than one year old.

Terms and abbreviations used below:

- **Maximum Contaminant Level Goal (MCLG):** The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.
- **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 Residual Disinfectant Level (MRDL):** means the highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.
- **Maximum Residual Disinfectant Level Goal (MRDLG):** means the level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.
- **N/A:** Not applicable **ND:** not detectable at testing limit **ppb:** parts per billion or micrograms per liter **ppm:** parts per million or milligrams per liter **pCi/l:** picocuries per liter (a measure of radioactivity).
- **Action Level:** The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.

Regulated Contaminant	MCL	MCLG	Highest Level Detected	Range	Sample Date	Violation Yes / No	Typical Source of Contaminant
Arsenic* (ppb)	10	0	4.0	N/A	9/08	NO	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes
Fluoride (ppm)	4	4	0.25	N/A	9/08	NO	Erosion of natural deposits. Discharge from fertilizer and aluminum factories.
TTHM - Total Trihalomethanes (ppb)	80	N/A	30	N/A	9/08	NO	Byproduct of drinking water disinfection
HAA5 Haloacetic Acids (ppb)	60	N/A	9	N/A	9/08	NO	Byproduct of drinking water disinfection
Chlorine	4	4	2.2	.01- 4	12/08	NO	Water additive used to control microbes
Special Monitoring and Unregulated Contaminant **			Average Level Detected	Range	Sample Date	Typical Source of Contaminant	
Sodium (ppm)			17	N/A	9/08	Erosion of natural deposits	
Contaminant Subject to AL	Action Level	90% of Samples ≤ This Level		Range	Sample Date	Number of Samples Above AL	Typical Source of Contaminant
Lead (ppb)	15	1.0		N/A	8/06	1	Corrosion of household plumbing systems; Erosion of natural deposits
Copper (ppm)	1.3	1.26		N/A	8/06	0	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives

** Unregulated contaminants are those for which EPA has not established drinking water standards. Monitoring helps EPA to determine where certain contaminants occur and whether it needs to regulate those contaminants.

The State and EPA require us to test our water on a regular basis to ensure its safety. We met all the monitoring and reporting requirements for 2008.

We are committed to providing you safe, reliable and healthy drinking water. We at the City of Perry are pleased with the results of the new Iron removal plant that went on-line in Jan. 09. Since its start up the quality of the water has improved 100%. Before the new iron plant was put on line the Iron concentration of our water was as high as 2.2 parts per million now after the plant it is between .01 and .4 parts per million. The arsenic level of 4 parts per billion although well below the action level of 10 parts per billion is not detected at all as it leaves the plant. (These results are from the DEQ lab. Samples were provided by the City of Perry) The clarity and taste of the water will improve even more with time as we continue to clear up the water mains.

We will update this report annually and will keep you informed of any problems that may occur throughout the year, as they happen. Copies are available at the City Hall.

We invite public participation in decisions that affect drinking water quality. If you would like to get involved in your drinking water decision making you are invited to attend the regularly scheduled council meetings that are held the first and third Tuesday of each month at 7pm at the Perry City Hall located at 203 W. Polly St.

For more information about your water, or the contents of this report, contact Chuck Mudge at 517-625-4500 or go to our web site at www.perry.mi.us

For more information about safe drinking water, visit the U.S. Environmental Protection Agency at www.epa.gov/safewater/.