



City of Pewaukee Water Utility 2010 Consumer Confidence Report for Main System Number 26802149

The City of Pewaukee is pleased to present the Annual Drinking Water Quality Report. The report is designed to inform you about the quality of the drinking water the City delivers to you every day. This report communicates to the public the source of the City's water and also summarizes the detected compounds from the sampling results for the year ending 2010. Our goal is to provide you with safe and dependable drinking water.

Health Information

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 Environmental Protection Agency's safe drinking water hotline: (800-426-4791).

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 Environmental Protection Agency's safe drinking water hotline (800-426-4791).

Source(s) of Water

The Utility operates two independent water systems within the City of Pewaukee. The "Main" system encompasses the area of the city, which borders CTH 16 to the west, Springdale Road to the east, the City of Waukesha to the south, and approximately Capitol Drive to the north. Seven ground water wells provide the water supply for the "Main" system. They range in depth from 340 feet to 1400 feet. The deep wells draw from the sandstone aquifer. The shallow wells draw from the limestone aquifer.

Source id	Source	Depth (in feet)	Status
1	Groundwater	1200	Active
2	Groundwater	1075	Active
3	Groundwater	340	Active
4	Groundwater	350	Active
5	Groundwater		Active
6	Groundwater	1415	Active
7	Groundwater	1344	Active

Educational Information

The sources of drinking water, both tap water and bottled water include rivers, lakes, streams, ponds, reservoirs, springs and 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:

- Microbial contaminants, such as viruses and bacteria, which may come from septic systems, sewage treatment plants, agricultural livestock operations and wildlife.
- Inorganic contaminants, such as salts and metals, which can be naturally- occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.
- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff and residential uses.
- 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 storm water runoff and septic systems. Radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining activities.

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. FDA regulations establish limits for contaminants in bottled water, which shall provide the same protection for public health.

The table below shows the regulated contaminants detected in the City of Pewaukee's drinking water during 2010. All are below levels allowed by state and federal laws. The table contains the name of each substance, the highest level allowed by regulation (Maximum Contaminant Level or MCL), the ideal goals for public health (Maximum Contaminant Level Goal, or MCLG), the amount detected, the usual sources of such contamination. The presence of a substance in drinking water does not necessarily indicate the water poses a health risk. Certain quantities of some substances are essential to good health, but excessive quantities can be hazardous.

Number of contaminants Required to be Tested

This table displays the number of contaminants that were required to be tested in the last five years. The CCR may contain up to five years worth of water quality results. If a water system tests annually, or more frequently, the results from the most recent year are shown on the CCR. If testing is done less frequently, the results shown on the CCR are from the past five years.

Contaminant Group	Number of contaminants
Disinfection Byproducts	2
Inorganic Contaminants	16
Microbiological Contaminants	1
Radioactive Contaminants	3
Synthetic Organic Contaminants including Pesticides and Herbicides	25
Unregulated Contaminants	4
Volatile Organic Contaminants	20

Disinfection by Products

Contaminant	MCL	MCLG	Level Found	Range	Sample Date (if Prior to 2008)	Violation	Typical Source of Contaminant
HAA5 (ppb)	60	60	2	Nd-2		NO	
TTHM (ppb)	80	0	23.7	3.2-23.7		NO	By-product of drinking water chlorination

Inorganic Contaminants

Contaminant	MCL	MCLG	Level Found	Range	Sample Date (if Prior to 2008)	Violation	Typical Source of Contaminant
Antimony-Total(ppb)	6	6	.2	nd-.2	02/11/2008	NO	Discharge from petroleum refineries
Arsenic (ppm)	10	n/a	1	nd-1	03/03/2008	NO	Erosion of natural deposits; runoff from orchard
Barium (ppm)	2	2	.056	.016-.056	03/03/2008	NO	Natural deposits
Cadmium (ppb)	5	5	.5	.1-.5	02/11/2008	NO	Corrosion of galvanized pipes; natural deposits
Chromium (ppb)	100	100	2	2-2	02/11/2008	NO	Natural deposits
Copper (ppm)	AL=1.3	1.3	.1250	0-20	09/24/2008	NO	Corrosion of household plumbing system
Flouride (ppm)	4	4	.5	.4-.5	03/03/2008	NO	Erosion of natural deposits; water additives
Lead	AL=15	0	2.50	0-20	09/24/2008	NO	Corrosion of household plumbing systems
Nickel	100		19.0000	1.4000-19.0000	02/11/2008	NO	Nickel occurs naturally
Nitrate (ppm)	10	10	.04	nd-.04		NO	Runoff from fertilizer use; natural deposits
Sodium	n/a	n/a	34.00	9.80-34.00	03/03/2008	NO	n/a

Radioactive Contaminants

Contaminant	MCL	MCLG	Level Found	Range	Sample Date (if Prior to 2008)	Violation	Typical Source of Contaminant
Gross Alpha Excl. R & U (pCi/l)	15	0	13.1	7.6-17.1		NO	Erosion of natural deposits
Radium (226 + 228) (pCi/l)	5	0	3.3	1.7-6.2		NO	Erosion of natural deposits

****Monitoring and Reporting Violation: Failure of the contract laboratory to complete sample analysis in a timely manner. Radioactivity testing was not completed in the monitoring period Oct. 1, 2010 – Dec. 31, 2010. Uranium analysis was completed Jan. 2011.**

Unregulated Contaminants

Contaminant	MCL	MCLG	Level Found	Range	Sample Date (if Prior to 2008)	Violation	Typical Source of Contaminant
Bromodichloromthane (ppb)	n/a	n/a	6.40	.83-6.20		NO	n/a
Bromoform (ppb)	n/a	n/a	4.90	.56-4.90		NO	n/a
Chloroform (ppb)	n/a	n/a	3.60	.86-3.60		NO	n/a
Dibromochloromethane(ppb)	n/a	n/a	9.0	.89-9.00		NO	n/a

Definition of Terms

- AL** Action Level – The concentration of a contaminant that, if exceeded, triggers treatment or other requirement that a water system must follow. Action Levels are reported at the 90th percentile for homes at greatest risk.
- MFL** million fibers per liter **pCi/l** picocuries per liter (a measure of radioactivity)
- ppm** parts per million, or milligrams per liter (mg) **ppb** parts per billion, or micrograms per liter (ug/)
- ppt** parts per trillion, or nanograms per liter **ppq** parts quadrillion, or pictograms per liter
- TCR** Total Coliform Rule

Additional Monitoring Information: The City of Pewaukee participated in the United States Environmental Protection Agency monitoring of **Unregulated Contaminant Monitoring Regulation – Assessment Monitoring (UCMR2)**. The report is available upon request at the Utility office.

Water System Information This report is also available on the City website: www.cityofpewaukee.us If you would like to know more about the information contained in this report, please contact:

Jane E. Mueller, Utility Superintendent at (262) 691-0804

The CCR data for each year will normally be available on the following page by March 1 of the following year. <http://dnr.state.wi.us/org/water/dwg> (system ID#268021490)

The DNR representative for this system is *Petwara Toyngtrakoon*, (920)-892-8756 ext. 3034 Additional Drinking Water Information available at American Water Works Association website: <http://www.drinktap.org>