



2007 WATER QUALITY REPORT

CHIPPEWA FALLS WATER DEPARTMENT

JUNE 2008

We're pleased to present you with the 2007 Water Quality Report. This annual report is designed to inform you about the quality water and services we deliver to you every day. Our constant goal is to provide you with a safe and dependable supply of drinking water. We want you to understand the efforts we make to continuously improve water quality and protect our water resources.

The Southeast water tower project was completed in 2007 coming in under budget. This project included building the City's 4th water tower, a booster station and transmission main. There are currently 482,642 feet of water main in the City.

The Nitrate Removal Treatment Plant was upgraded in 2007. The plant, built in 1998, was plagued with leaks. The upgrade replaced a mechanical rotating carousel operation to stationary vessels controlled by computer actuated valves. This project also came in under budget.

The Water Department continues installation of variable frequency drives, VFD, on its' well pump motors. The VFD operates the well motors more efficiently, prolonging the life of the motor and decreasing energy costs.

Where Does our Water Come From?

Chippewa Falls relies exclusively on groundwater from drilled wells for its' municipal water supply. The wells are drilled to a depth between 53' and 97' into a sand and gravel drift formation. The West Well Field has three wells that are located at 100 Tilton road and 1821 Nelson Road. The East Well Field has six wells and is located at 1350 Pumphouse Road.

A source water assessment is required of all public water supplies. The assessment identifies land areas that contribute water to each system, significant potential contaminant sources within those areas, and the susceptibility of the drinking water system to contamination. This report is available on the Wisconsin DNR web site and can be accessed at: dnr.wi.gov/org/water/dwg/swap/index.htm. Click on "Find an Assessment", type "Chippewa Falls Waterworks" in the NAME box and click FIND.

The City of Chippewa Falls has developed a Wellhead Protection (WHP) Plan. The goal of WHP planning is to control activities within the Zone of Contribution to a municipal well to prevent contamination of groundwater. Copies of the City's ordinance or the WHP plan are available at the Water Department office located at 30 West Central Street or online at municode.com (Chapter 29 of the City of Chippewa Falls code of ordinances).

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 human activity.

Contaminants that may be present in source water include:

- Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife.
- 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.
- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater 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 stormwater 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.

Monitoring Results

The Chippewa Falls Water Department routinely monitors for constituents in your drinking water according to Federal and State laws. The table below shows the results of our monitoring for the period of January 1 to December 31, 2007 and any previous detects. All drinking water, including bottled drinking water, may be reasonably expected to contain at least small amounts of some constituents. It's important to remember that the presence of these constituents does not necessarily pose a health risk.

Substances Detected in Chippewa Falls Water

Test Results							
Substance (units)	Violation Y/N	Level Detected	Range	Date of Sample (if prior to 2006)	MCLG	MCL	Likely Source of Contamination
Inorganic Contaminants							
Barium (ppm)	No	.016	.016	2/22/06	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Copper (ppm)	No	.029	.0000 - .0500	10/19/05	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Fluoride (ppm)	No	.1	.1	2/22/06	4	4	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
Lead (ppb)	*	3.1	.00 – 24.00	10/19/05	0	AL=15	Corrosion of household plumbing systems, erosion of natural deposits
Nitrate (as Nitrogen) (ppm)	No	4.15 (avg)	1.2 – 11.00		10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Sodium (ppm)	No	9.80	9.80	2/22/06	n/a	n/a	n/a
Unregulated Contaminants							
Bromodichloromethane (ppb)	No	2.00 (avg)	nd-4.7		n/a	n/a	n/a
Bromoform (ppb)	No	.13(avg)	nd-.28		n/a	n/a	n/a
Chloroform (ppb)	No	3.99 (avg)	nd-10.00		n/a	n/a	n/a
Dibromochloromethane (ppb)	No	.89(avg)	nd-1.90		n/a	n/a	n/a
Sulfate (ppm)	No	7.80	7.80	2/22/06	n/a	n/a	n/a
Disinfection Byproducts							
HAA5 (ppb)	No	2 (avg)	1-3		60	60	
Volatile Organic Contaminants							
P-Dichlorobenzene (ppb)	No	.1 (avg)	nd - .3		75	75	Discharge from industrial chemical factories
TTHM (ppb)	No	9.3 (avg)	nd – 16.9		80	0	By-product of drinking water chlorination

* Systems exceeding a lead and/or copper action level must take actions to reduce lead and/or copper in the drinking water. The lead and copper values represent the 90th percentile of all compliance samples collected. If you want information on the number of sites or the actions taken to reduce these levels, please contact this department.

Definition of Terms

The following definitions will help you understand terms and abbreviations you might not be familiar with.

AL - Action Level: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

MCL - Maximum Contaminant Level: 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.

MCLG - Maximum Contaminant Level Goal: the level of a contaminant in drinking water below which is no known or expected risk to health. MCLGs allow for margin of safety.

pCi/l - Picocuries per liter: a measure of radioactivity

Nd-Non-Detects: laboratory analysis indicates that the constituent is not present.

ppm—parts per million, or milligrams per liter (mg/l)

ppb—parts per billion, or micrograms per liter (ug/l)

Number of Contaminants Required to be Tested

Contaminant Group	# of Contaminants
Disinfection Byproducts	1
Inorganic Contaminants	17
Microbiological Contaminants	2
Synthetic Organic Contaminants including Pesticides and Herbicides	23
Unregulated Contaminants	34
Volatile Organic Contaminants	21

Did you know?

You can now have your utility payment directly withdrawn from your checking or savings. Contact our office for application.

Information about our water utility and others can be found at the Public Service Commission web site at www.psc.wi.gov. Follow the water links.

To view the City municipal code, visit www.municode.com, go to the online library, choose Wisconsin, Chippewa Falls and select Chippewa Falls Code of Ordinances.

Visit our website at www.chippewafalls-wi.gov.

Water & Wastewater Rates

Water—Effective 5/1/2007

Meter Size	Qtrly Base	Qtrly Fire Protection
5/8 & 3/4"	\$18.00	\$14.25
1"	\$25.50	\$35.55
1 1/2"	\$42.00	\$72.00
2"	\$63.00	\$114.00
3"	\$129.00	\$213.00
4"	\$198.00	\$357.00
6"	\$396.00	\$711.00
8"	\$621.00	\$1,137.00
10"	\$846.00	\$1,707.00

Water Volume

Each Quarter	
First 30 CCF	\$1.23 per CCF
Next 970 CCF	\$1.09 per CCF
Next 4,000 CCF	\$.96 per CCF
Over 5,000 CCF	\$.59 per CCF
7.48 Gallons = 1 Cubic Foot	
100 Cubic Feet = 1 CCF	

Wastewater—Effective 1/1/07

Base Charge	\$13.63
Usage Charge	\$2.15 per CCF
	\$2.8743 per Thousand Gallons
Wastewater usage charge breakdown	
Operation and Maintenance	\$1.83
Debt Service	.32
Total Charge	\$2.15

Bills become due and payable on the first of the month following the period for which service is rendered. A late payment charge of 1% per month will be added to bills not paid in 20 days of issuance. Failure to receive a bill in no way exempts the consumer from the provisions of these rules.

All bills owing and in arrears on October 15 and remaining unpaid November 1 will have a penalty of 10% added. If such arrears, with penalty, are not paid by November 15, the amount is levied as a tax against the premises in accordance with s.66.0809(3), Wis. Stats.



Chippewa Falls Water Dept.
30 W Central St., Room 209
Chippewa Falls, WI 54729

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 at 1-800-426-4791.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system 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 at 1-800-426-4791.

Questions or Comments

If you have any questions about this report or concerning your water utility, please contact Connie Freagon, Utility Office Manager at 726-2741, Rory Olson, Water Supervisor at 720-6981 or Rick Rubenzer, Utility Manager at 726-2736 or email us at utility@chippewafalls-wi.gov.

Our office is located in the City Hall Building, 30 W Central Street, Room 209. Office hours are 8:30 a.m. to 4:30 p.m.

Getting Involved

We want our customers to be informed about their water utility. To get involved:

- Attend any of our regularly scheduled City Council or Board of Public Works Committee meetings.
- Join the Groundwater Guardian Team.
- Fill out the attached survey and return it to the Water Department.

Please call for meeting times, locations and agendas