

ANNUAL DRINKING WATER QUALITY REPORT

The 2010 consumer confidence report contains results of testing done for the year.

All test results indicate that our drinking water is safe and meets federal and state requirements.

System Requirements

If you have any questions about this report or concerning your water utility, please contact Bill Collins at 462-2418. We want our valued customers to be informed about their water utility. If you want to learn more, please attend any of our regularly scheduled meetings. They are held on the third Tuesday of each month at 5:30 p.m. at the City Hall Building at 225 Main St., Elroy, WI.

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

Source ID	Source	Depth (in feet)	Status
1	Groundwater	450	Active
3	Groundwater	451	Active

To obtain a summary of the water source assessment please contact William D. Collins at (609) 462-4218

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:

1. Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife.
2. 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.
3. Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water run-off and residential uses.
4. 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.
5. 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.

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	# of Contaminants
Inorganic Contaminants	16
Radioactive Contaminates	3
Microbiological Contaminants	3
Disinfection Byproducts	2
Unregulated Contaminants	4
Synthetic Organic Contaminates including Pesticides and Herbicides	23
Volatile Organic Contaminants	20

Disinfection Byproducts

Contaminant (units)	MCL	MCLG	Level Found	Range	Sample Date (if prior to 2010)	Violation	Typical Source of Contaminant
HAA5 (ppb)	60	60	1	1-1	09/12/2007	NO	
TTHM (ppb)	80	0	3.7	3.4-3.7	09/12/2007	NO	By-product of drinking water chlorination

Radioactive and Microbiological Contaminates

CONTAMINATE/RADIOACTIVE	MCL	MCLG	Level Found	Range	Sample Date (if prior to 2010)	Violation	Typical Source Of Contaminate
GROSS ALPHA, EXCL.R&U (pCi/l)	15	0	5.0	2.3-5.0	8/10/2009	NO	Erosion of natural deposits
GROSS ALPHA, INCL. R&U (n/a)	n/a	n/a	5.0	2.3-5.0	8/10/2009	NO	Erosion of natural deposits
RADIUM (226+228) (pCi/i)	5	0	2.7	2.0-2.7	8/10/2009	NO	Erosion of natural deposits
CONTAMINATE/MICROBIOLOGICAL	MCL	MCLG	Level found	Range	Sample date	Violation	Typical source
COLIFORM (TCR)		0	1			NO	Naturally present in the environment

Inorganic Contaminants

Contaminant	MCL	MCLG	Level Found	Range	Sample Date (if prior to 2010)	Violation	Typical Source of Contaminant
ANTIMONY TOTAL (ppb)	6	6	.6	.0-.6	06/04/2008	NO	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder
ARSENIC (ppb)	10	N/A	1	.0-1	05/14/2008	NO	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics
BARIUM (ppm)	2	2	.011	.011-.011	06/04/2008	NO	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
COPPER (ppm)	AL=1.3	1.3	.6360	.0 of 10 results were above the action level	10/01/2008	NO	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives
FLUORIDE (ppm)	4	4	.2	.1-.2	05/14/2008	NO	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
LEAD (ppb)	AL=15	0	.51	0 of 10 results were above the action level	10/02/2008	NO	Corrosion of household plumbing systems; Erosion of natural deposits
MERCURY (ppb)	2	2	.2	.0-.2	06/04/2008	NO	Erosion of natural deposits; discharge from refineries and factories; runoff from landfills and cropland
NITRATE (N03-N) (ppm)	10	10	.67	nd-.67		NO	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
SELENIUM	50	50	1	0-1	06/04/2008	NO	Discharge from petroleum and metal refineries; Erosion of natural deposits; Discharge from mines.
SODIUM (ppm)	n/a	n/a	2.10	1.67-2.10	06/04/2008	NO	n/a
THALLIUM TOTAL (ppb)	2	0.5	1.0	.0-1.0	06/04/2008	NO	Leaching from ore-processing sites; Discharge from electronics, glass, and drug factories

Unregulated Contaminates

Contaminant	MCL	MCLG	Level Found	Range	Sample Date (if prior to 2010)	Violation	Typical Source of Contaminant
BROMODICHLORO-METHANE (ppb)	n/a	n/a	1.30	1.20-1.30	09/12/2007	NO	n/a
BROMOFORM (ppb)	n/a	n/a	.21	.20-.21	09/12/2007	NO	n/a
CHLOROFORM (ppb)	n/a	n/a	1.20	1.00-1.20	09/12/2007	NO	n/a
DIBROMOCHLORO-METHANE (ppb)	n/a	n/a	.98	.97-.98	09/12/2007	NO	n/a
CHLOROMETHANE	n/a	n/a	.14	.14	09/12/2007	NO	n/a

Monitoring and Reporting Violations

Contaminant Group	Sample Location	Compliance Period/Begin	Compliance Period/End
Nitrate	1	01/01/2010	09/30/2010
Nitrate	3	01/01/2010	09/30/2010
Volatile Organic Contaminant	1	01/01/2010	09/30/2010

Nitrate samples that were missed include: Nitrate (N03-N)

Volatile Organic Contaminates that were missing include: 1,1,1-Trichloroethane; 1,1,2-Trichloroethane;1,1-Dichloroethylene;1,2,4-Trichlorobenzene;1,2-Dichloroethane;1,2-Dichloropropane;Benzene;Carbon Tetrachloride;Cis-1,2-Dichloroethylene;Dichloromethane; Ethylbenzene; Monochlorobenzene (Chlorobenzene);O-Dichlorobenzene;P-Dichlorobenzene;Styrene;Tetrachloroethylene; Toluene; Trans-1,2-Dichloroethylene; Trichloroethylene; Vinyl Chloride; Xylenes, Total

Definition of Terms

Term	Definition
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 there is no known or expected risk to health. MCLGs allow for a margin of safety.
MFL	million fibers per liter
mrem/year	millirems per year (a measure of radiation absorbed by the body)
NTU	Nephelometric Turbidity Units
pCi/l	picocuries per liter (a measure of radioactivity)
ppm	parts per million, or milligrams per liter (mg/l)
ppb	parts per billion, or micrograms per liter (ug/l)
ppt	parts per trillion, or nanograms per liter
ppq	parts per quadrillion, or picograms per liter
TCR	Total Coliform Rule
TT	Treatment Technique: A required process intended to reduce the level of a contaminant in drinking water.

IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER

Monitoring Requirements Not Met for Elroy Waterworks

We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not your drinking water meets health standards. Between 1/1/2010 and 9/30/2010, we did not monitor for **nitrate, VOC or Disinfection Byproduct (DBP) Contaminates, and therefore cannot be sure of the quality of your drinking water during that time.**

What precautions should be taken at this time? There are no special precautions you need to take at this time. However, it is important to remember that the quality of your drinking water was not known at that time.

What was the cause of the missed monitoring requirements? The bottles were not sent from the lab. We missed the notice on our calendar as a reminder until it was past the due date.

What is being done to correct the problem? We are taking samples this year to assure these parameters in the city water meet requirements.

When will the problem be resolved? The samples will be taken in July 2011.

If you have any questions regarding the safety of our drinking water, please contact:

William Collins, Water Superintendent 608-462-2418