

# 2005 WATER QUALITY REPORT FOR SIRWA'S Corning Source Area

This report contains important information regarding the water quality in our water system. The source of our water is surface water. Our surface water is drawn from the Lake Binder, Lake Icaria and Corning Municipal Utilities.

Our water quality testing shows the following results:

CONTAMINANT	MCLG	MCL	DETECTED LEVEL	DATE SAMPLED	RANGE OF DETECTION	VIOLATION	SOURCE
THM (ppb) [Total trihalomethanes]	N/A	80	93	2005	59 - 150	Yes	By-products of drinking water disinfection
Lead (ppb)	0	AL=15	5	2003	ND - 5	No	Corrosion of household plumbing systems; erosion of natural deposits
Copper (ppm)	1.3	AL=1.3	0.52	2003	0.13 - 0.72	No	Corrosion of household plumbing systems; Erosion of natural deposits
Haloacetic Acids (HAA5) (ppb)	N/A	60	41	2005	21 - 73	No	By-products of drinking water disinfection
Xylenes (ppm)	10	10	0.0013	4/19/05	0.001 - .0013	No	Discharges from petroleum factories; Discharge from chemical factories
Arsenic (ppb)	N/A	50	1.63	2/9/04		No	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronic production wastes
Atrazine (ppb)	3	3	0.16	10/26/04		No	Runoff from herbicide used on row crops
Chlorine (ppm)	MRDLG=4.0	MRDL=4.0	1.5	Monthly	1.32 - 1.76	No	Water additive used to control microbes
Chlorine dioxide (ppb)	MRDLG=800	MRDL=800	80	01-2004	0 - 80	No	Water additive used to control microbes
Chlorite (ppm)	0.8	1.0	0.24	Monthly	0.053- 0.24	No	By-product of drinking water disinfection
Fluoride (ppm)	4	4	1.38	9/20/04	0.66 - 1.38	No	Water additive which promotes strong teeth; Erosion of natural deposits; Discharge from fertilizer and aluminum factories
Nitrate [as N] (ppm)	10	10	1	4/12/04		No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Sodium (ppm)	N/A	N/A	15.40	1/11/05		No	Erosion of natural deposits; Added to water during treatment process
Total Organic Carbon (TOC) (ppm)	N/A	TT	50.17%	3/3/05	33.945% - 74.26%	No	Naturally present in the environment
Turbidity (NTU)	N/A	TT	0.24	2005	0.04- .24	No	Soil runoff

Note: Contaminants with dates indicate results from the most recent testing done in accordance with regulations.

## DEFINITIONS

- 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 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.
- ppb -- parts per billion.
- ppm -- parts per million.
- pCi/L – picocuries per liter
- N/A – Not applicable
- ND -- Not detected
- Treatment Technique (TT) – A required process intended to reduce the level of a contaminant in drinking water.
- Action Level (AL) – The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
- Maximum Residual Disinfectant Level Goal (MRDLG) - 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.
- Maximum Residual Disinfectant Level (MRDL) - 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.
- NTU – Nephelometric Turbidity Units

## GENERAL 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 posed a health risk. More information about contaminants or 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 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 Safe Drinking Water Hotline (800-426-4791).

## CONTAMINANT VIOLATIONS

TTHMs [Total Trihalomethanes]. Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous systems, and may have an increased risk of getting cancer.

## ADDITIONAL HEALTH INFORMATION

Our water utility is making every effort to protect the water system from potential security threats. You, as a customer, can also help. If you see any suspicious activity near the water tower, treatment plant, wells, or fire hydrants, please contact us at (641) 782-5744 or the local police/sheriff department. We appreciate your assistance in protecting the water system.

## SOURCE WATER ASSESSMENT INFORMATION

The Corning/Brooks water supply obtains its water from three lakes: Lake Icaria, Lake Binder, and the city reservoir. In 2000, a source water and delineation evaluation was completed by Howard R. Green Company. This evaluation determined Lake Icaria as highly susceptible to contamination from sewage lagoon, force line and pump stations. Lake Binder, the old reservoir, and Lake Icaria are susceptible to auto body shops (metal), manure spreading, and aboveground storage tanks. However, the Utilities' ability to draw water from any of the three sources minimizes risk. A detailed evaluation of our source water was completed by the IDNR, and is available between the hours of 8:00 a.m. and 4:30 p.m., Monday through Friday, at Corning Municipal Utilities Office located at 501 Benton in Corning, Iowa.

## CONTACT INFORMATION

For questions regarding this information, please contact Wade Starlin at (641) 782-5744 during the following hours: Monday through Friday 8:00 a.m. to 4:00 p.m. or via e-mail at [wstarlin@sirwa.org](mailto:wstarlin@sirwa.org). Decisions regarding the water system are made at the SIRWA board meetings. Please call the office for date and time as they are open to the public. Este informe contiene información muy importante sobre su agua bebar. Tradúzcalo o hable con alguien que lo entienda bien.