



# Annual Drinking Water Quality Report 2012

**NORTH AURORA, IL  
0890600**

**Annual Water Quality Report  
for the period of January 1 to  
December 31, 2011**

This report is intended to provide you with important information about your drinking water and the efforts made by the NORTH AURORA water system to provide safe drinking water. The drinking water source for NORTH AURORA is deep well ground water (Ironton-Galesville sandstone aquifer) which is currently derived from five wells (#3, #4, #5, #6, #7) which are located on both the east and west sides of town.

For more information regarding this report contact:

**Paul Young  
(630) 897-2662 ext. 229**

Este informe contiene información muy importante sobre el agua que usted bebe. Tradúzcalo ó hable con alguien que lo entienda bien.

## IMPORTANT HEALTH INFORMATION

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



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).

## SOURCE OF DRINKING WATER

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and groundwater 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.

## Source Water Assessment



We want our valued customers to be informed about their water quality. If you would like to learn more, please feel welcome to attend any of our regularly scheduled meetings at Village Hall, 25 East Sate St. (1st and 3rd Mondays of each month at 7:00 pm) The source water assessment for our supply has been completed by the Illinois EPA. If you would like a copy of this information, please stop by Village Hall or call our water operator at (630) 897-2662. To

view a summary version of the completed Source

Water Assessments, including: Importance of Source Water;

Susceptibility to Contamination Determination; and documentation/recommendation of Source Water Protection Efforts, you may access the Illinois EPA website at <http://www.epa.state.il.us/cgi-bin/wp/swap-fact-sheets.pl>.

To determine North Aurora's susceptibility to groundwater contamination, the following document was reviewed: a Well Site Survey, published in 1991 by the Illinois EPA. Based on the information obtained in this document, there are thirty potential sources of groundwater contamination that could pose a hazard to groundwater utilized by North Aurora's Community Water Supply. These include, a recreational facility, a fire station, two restaurant/food services, five store/sales, two hospital/clinics, one auto body facility, three below ground fuel storage tanks, four offices, two church/libraries, an auto repair facility, a vehicle sales, a printing facility, a school, a golf course, a vehicle parking, one construction/demolition company, one equipment/vehicle washing facility, and a dry cleaners. In addition, information provided by the Leaking Underground Storage Tank and Remedial Project Management Sections of the Illinois EPA indicated sites with on-going remediation that might be of concern. The susceptibility determination for this community water supply is based on a number of criteria including monitoring conducted at the wells, monitoring conducted at the entry point to the distribution system, and available hydrogeologic data on the wells. **The Illinois EPA has determined that the North Aurora Community Water Supply's source water is not susceptible to contamination.** The land use within the wellhead protection area and the immediate vicinity of the wells was analyzed as part of this susceptibility determination. This land use includes residential, commercial, and agricultural properties, and open space.

### Questions?

For more information about this report or questions relating to your drinking water, please call Paul Young 630-897-2662 ext. 229. Visit us on the web at: [www.vil.north-aurora.il.us](http://www.vil.north-aurora.il.us)

**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 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.

**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 at (800) 426-4791.

### 2011 Regulated Contaminants Detected

#### Lead and Copper

**Definitions:**

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

—If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. We are responsible for providing high quality drinking water, but we cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 second to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hot line or at <http://www.epa.gov/safewater/lead>—

**Action Level Goal (ALG):** The level of a contaminant in drinking water below which there is no known or expected risk to health. ALGs allow for a margin or safety.

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	2011	1.3	1.3	0.17	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.
Lead	2011	0	15	5.8	1	ppb	N	Corrosion of household plumbing systems; Erosion of natural deposits.

#### Water Quality Test Results

Maximum Contaminant Level Goal or 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 or 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 goal or 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 or 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.

Definitions:

The following tables contain scientific terms and measurers, some of which may require explanation.

ppb:

milligrams per liter or parts per billion - or one ounce in 7,350,000 gallons of water.

a:

not applicable.

Avg:

Regulatory compliance with some MCLs are based on running annual average of monthly samples.

ppm:

milligrams per liter or parts per million - or one ounce in 7,350 gallons of water.

#### Regulated Contaminants

Disinfectants and Disinfection By-Products	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Chlorine	01/01/2011	0.1	0.0994 - 0.2537	MRDLG = 4	MRDL = 4	ppm	N	Water additive used to control microbes.
Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Barium	07/23/2009	0.083	0.025 - 0.083	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Fluoride	07/23/2009	0.94	0.86 - 0.94	4	4.0	ppm	N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
Iron	07/23/2009	0.064	0 - 0.064		1.0	ppm	N	This contaminant is not currently regulated by the USEPA. However, the state regulates. Erosion of natural deposits.
Manganese	07/23/2009	4	0 - 4	150	150	ppb	N	This contaminant is not currently regulated by the USEPA. However, the state regulates. Erosion of natural deposits.
Nitrate [measured as Nitrogen]	2011	0.05	0.02 - 0.05	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Sodium	07/23/2009	35	29 - 35			ppm	N	Erosion from naturally occurring deposits; Used in water softener regeneration.
Zinc	07/23/2009	0.011	0.006 - 0.011	5	5	ppm	N	This contaminant is not currently regulated by the USEPA. However, the state regulates. Naturally occurring; discharge from metal
Radioactive Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Combined Radium 226/228	2011	8	0.912 - 8.38	0	5	pCi/L	N	Erosion of natural deposits.
Gross alpha excluding radon and uranium	2011	5.25	0.492 - 5.25	0	15	pCi/L	N	Erosion of natural deposits.
Uranium	10/15/2007	2.682	2.682 - 2.682	0	30	ug/l	N	Erosion of natural deposits.

Triennial monitoring:

The state requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some data, although accurate, is more than one year old.



Village of North Aurora  
Water Department  
North Aurora, Illinois 60542

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North Aurora's Water holds the honor as  
***The Annual Water Taste Test Champion***  
for 2011 in Kane County.

North Aurora

January 1 to December 31, 2011

Water Quality  
Report 2012

## ***Water Conservation***

You can play a role in conserving water and saving yourself money in the process by becoming conscious of the amount of water your household is using and by looking for ways to use less whenever you can. It is not hard to conserve water. Here are a few tips:

- ✓ Turn off the tap when brushing your teeth.
- ✓ Check every faucet in your home for leaks. Just a slow drip can waste 15-20 gallons per year.
- ✓ Check your toilets for leaks by putting a few drops of food coloring in the tank. Watch for a few minutes to see if the color shows up in the bowl. It is not uncommon to lose up to 100 gallons a day from an invisible toilet leak. Fix it and you save more than 30,000 gallons a year.
- ✓ Automatic dishwashers use 15 gallons for every cycle, regardless of how many dishes are loaded. So get a run for your money and load it to capacity.
- ✓ Use your water meter to detect hidden leaks. Simply turn off all taps and water using appliances. Then check the meter after 15 minutes. If it moved, you have a leak.