

The Delano Municipal Utilities is pleased to issue its Drinking Water Report for 2009.

Each year, the Utility issues a report on the source, treatment and quality of the drinking water in Delano. It is intended to help you, the consumer, better understand one of our most precious resources — our drinking water supply.

The report includes the results of monitoring done on the drinking water for the period from January 1 to December 31, 2009. We are proud to share this information with our customers.



The water system in Delano is owned and operated by the Delano Municipal Utilities. The water system includes the water production wells, wellhouses, water tower, and the network of watermains that provide water to all municipal water service connections in Delano.

Delano Municipal Utilities gets its drinking water from four wells located around the City. The wells pump groundwater from the Quaternary Buried Artesian aquifer. This is the layer of material that overlies the sandstone and shale bedrock in the region. The depths of Delano's wells range from 123 feet to 185 feet. The Minnesota Department of Health has determined that these wells are not particularly susceptible to contamination. From the well-houses through a system of raw water watermains, to the water treatment plant, where it is filtered through several layers of filtering media that removes virtually all iron and manganese. Chlorine (for disinfection) and fluoride are added to the water. Polyphosphates are also added to reduce red water complaints resulting from iron and manganese remaining in the watermains. The water is then pumped through the network of watermains to the water tower and then to you, the consumer.

In 2001 the Utility constructed a new water tower. The new tower stores up to 1.5 million gallons of water and has improved both water pressure and fire-fighting capacity throughout the City of Delano.

In November 2006 the new water treatment plant went into operation. Softeners will still be needed, since the plant only removes iron and manganese which are the staining components of the water, not the hardness. A fourth production well was drilled in July 2005 and was put into service in November 2006. Both the plant and the well are located just north of the High School.

Questions concerning this drinking water report or the water quality in Delano should be directed to the Utility General Manager, Hal Becker. He can be reached at the Delano Municipal Utilities office at 763-972-0557.

If you are interested in learning more about the Utilities' operation, or in participating in the decision making process, opportunities are available. The Utility holds monthly meetings on the third Monday of each month at 7 P.M. in the council chambers at Delano City Hall. Call 763-972-0557 for more information.

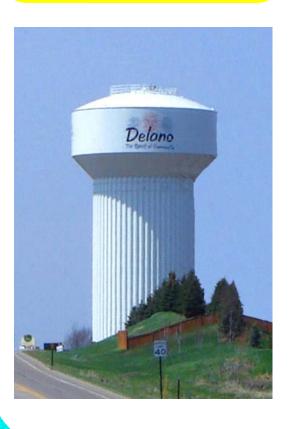
Water Quality Monitoring

Water systems are required to periodically monitor the quality of the drinking water they produce.

Delano Municipal Utilities is proud to announce
no violations of federal drinking standards.

Your water is safe.

The water provided to customers may meet drinking water standards, but the Minnesota Department of Health has also made a determination as to how vulnerable the source of water may be to future contamination incidents. If you wish to obtain the entire source water assessment regarding your drinking water, please call 651-201-4700 or 1-800-818-9318 (and press 5) during normal business hours. Also, you can view it on line at www.health.state.mn.us/divs/eh/water/swp/swa



Results of Monitoring

No contaminants were detected at levels that violated federal drinking water standards. However, some other contaminants were detected in trace amounts that were below legal limits. The table that follows shows the contaminants that were detected in trace amounts last year. (Some contaminants are sampled less frequently than once a year; as a result, not all contaminants were sampled for in 2009. If any of these contaminants were detected the last time they were sampled for, they are included in the table along with the date that the detection occurred.)

Key to abbreviations:

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.

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.

MRDL - Maximum Residual Disinfectant Level.

MRDLG - Maximum Residual Disinfectant Level Goal.

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

90th Percentile Level - This is the value obtained after disregarding 10 percent of the samples taken that had the highest levels. (For example, in a situation in which 10 samples were taken, the 90th percentile level is determined by disregarding the highest result, which represents 10 percent of the samples.) Note: In situations in which only 5 samples are taken, the average of the two with the highest levels is taken to determine the 90th percentile level.

pCi/1 - PicoCuries per liter (a measure of radioactivity).

ppb - Parts per billion, which can also be expressed as micrograms per liter (mg/1).

ppm - Parts per million, which can also be expressed as milligrams per liter (mg/1).

nd - No Detection.

N/A - Not Applicable (does not apply).

Contaminant (units) [Last Sampled]	MCLG	MCL	Level Found		
			Range (2009)	Average/ Result *	Typical Source of Contaminant
Arsenic (ppb) [1/18/2007]	0	10	N/A	1.12	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes.
Barium (ppm) [1/18/2007]	2	2	N/A	.13	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Fluoride (ppm)	4	4	.78-1	1.01	State of Minnesota requires all municipal water systems to add fluoride to the drinking water to promote strong teeth; Erosion of natural deposits; Discharge from fertilizer and aluminum factories.
Mercury (inorganic) (ppb)[1/18/2007]	2	2	N/A	.06	Erosion of natural deposits; Discharge from refineries and factories; Runoff from landfills; Runoff from cropland.
TTHM (ppb)	0	80	N/A	9.6	By-product of drinking water disinfection. (Total trihalomethanes)
Haloacetic Acids (HAA5) (ppb)	0	60	N/A	5.4	By-product of drinking water disinfection.
Radon (pCi/l) [10/11/2007]		_	N/A	246	Erosion of natural deposits.

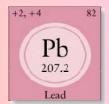
^{*} This is the value used to determine compliance with federal standards. It sometimes is the highest value detected and sometimes is an average of all the detected values. If it is an average, it may contain sampling results from the previous year.

Contaminant (units)	MRDLG	MRDL	Highest and Lowest Monthly Average.	Highest Quarterly Average.	Typical Source of Contaminant
Chlorine (ppm)	4	4	.02-1.83	.58	Water additive used to control microbes.
Contaminant (units)	MCLG	AL	90% Level	# sites over AL	Typical Source of Contaminant
Copper (ppm)	N/A	1.3	.84	0 out of 40	Corrosion of household plumbing systems; Erosion of natural deposits.
Lead (ppb)	N/A	15	nd	0 out of 40	Corrosion of household plumbing systems; Erosion of natural deposits.

Radon is a radioactive gas which is naturally occurring in some groundwater. It poses a lung cancer risk when gas is released from water into air (as occurs during showering, bathing, or washing dishes or clothes) and a stomach cancer risk

when it is ingested. Because radon in indoor air poses a much greater health risk than radon in drinking water, an Alternative Maximum Contaminant Level (AMCL) of 4,000 picoCuries per liter may apply in states that have adopted an Indoor Air Program, which compels citizens, homeowners, schools, and communities to reduce the radon threat from indoor air. For states without such a program, the Maximum Contaminant Level (MCL) of 300 pCi/l may apply. Minnesota plans to adopt an Indoor Air Program once the Radon Rule is finalized.

Lead: If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young chil-



dren. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. Delano Municipal Utilities is responsible for providing high quality drinking water, but 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 seconds 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.

Some contaminants do not have Maximum Contaminant Levels established for them. These "unregulated contaminants" are assessed using state standards known as health risk limits to determine if they pose a threat to human health. If unacceptable levels of an unregulated contaminant are found, the response is the same as if an MCL has been exceeded; the water system must inform its customers and take other corrective actions. In the table that follows are the unregulated contaminants that were detected:

Contaminant (units)	Le	vel Found	Trained Source of Contominant
[Last Sampled]	[Last Sampled] Range (2007) Average / Result		Typical Source of Contaminant
Sodium (ppm) [1/18/2007]	N/A	21	Erosion of natural deposits
Sulfate (ppm) [1/18/2007]	N/A	30.8	Erosion of natural deposits

Compliance with National Primary Drinking Water Regulations

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 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, the U. S. Environmental Protection Agency (EPA) prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

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. 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 are available from the Safe Drinking Water Hotline at 1-800-426-4791.



Water Treatment Process Piping, Delano Water Treatment Facility