



Messages

from the City of Lakeville

Meetings

June 5 - City Council, 7 p.m.

Meetings held at City Hall, 20195 Holyoke Ave. unless otherwise noted



Annual report on drinking water quality for Lakeville



The City of Lakeville is pleased to share the results of testing on tap water provided to residents for the period of Jan. 1 to Dec. 31, 2005. For the past seven years, the City's Utility Department has distributed this annual report to provide accurate information that summarizes the Environmental Protection Agency's testing regulations to ensure water quality. The purpose of the report is to advance consumers' understanding of drinking water and heighten awareness of the need to protect precious water resources.

Sources of your drinking water

Lakeville provides drinking water to its residents from a groundwater source: 15 wells ranging from 460 to 682 feet deep, that draw water from the Prairie Du Chien/Jordan aquifer. Lakeville drinking water meets all drinking water standards, but sources of water may potentially be susceptible to contamination. If you wish to obtain the entire source water assessment regarding your drinking water, please call 651-201-4670 or 1-800-818-9318 (and press 5) during normal business hours. Also, you can view it online at www.health.state.mn.us/divs/eh/water/swp/swa. Call 952-985-2740 if you have questions about City of Lakeville drinking water or would like information about opportunities for public participation in decisions that may affect the quality of drinking water.

Results of monitoring

No substances were detected at levels that violated federal drinking water standards. However, some substances were detected in trace amounts that were below legal limits. The adjacent table shows the substances that were detected in trace amounts last year. (Some substances are sampled less frequently than once a year; as a result, not all substances were sampled in 2005. If any of these substances were detected the last time they were sampled for, they are included in the table along with the date 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/l - PicoCuries per liter (a measure of radioactivity).

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

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

N/A - Not applicable (does not apply)

Compliance with national regulations

The sources of drinking water (both tap 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.

Monitored substances that may be present in source water include:

Microbial substances, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

Inorganic substances, 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 substances 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 substances, 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 US Environmental Protection Agency (EPA) prescribes regulations which limit the amount of certain substances in water provided to public water systems. Food and Drug Administration regulations establish limits for substances 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 substances. The presence of substances does not necessarily indicate that water poses a health risk. More information about substances and potential health effects can be obtained by calling the EPA's Safe Drinking Water Hotline at 1-800-426-4791.

Some people may be more vulnerable to substances 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.

Meeting all federal standards

Substance (units)	MCLG	MCL	Level Found		Typical Source of Substance	Meets standards
			Range (2005)	Average/Result*		
Alpha Emitters (pCi/l) (10/18/2004)	0	15.4	N/A	11.2	Erosion of natural deposits.	✓
Arsenic (ppb) (06/20/2002)	0	50	N/A	1.04	Erosion of natural deposits; runoff from orchards, glass and elec. products wastes.	✓
Barium (ppm) (06/20/2002)	2	2	N/A	.23	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits.	✓
Combined Radium (pCi/l) (10/18/2004)	0	5.4	N/A	3.1	Erosion of natural deposits.	✓
Fluoride (ppm)	4	4	1.1-1.2	1.18	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 & aluminum factories.	✓
Haloacetic Acids (HAA5) (ppb)	0	60	N/A	5.8	By-product of drinking water disinfection.	✓
Mercury (inorganic) (ppb) (06/20/2002)	2	2	N/A	.04	Erosion of natural deposits; Discharge from refineries and factories; Runoff from landfills; Runoff from cropland.	✓
TTHM (Total trihalomethanes)	0	80	N/A	12.9	By-product of drinking water disinfection.	✓

Substance (units)	Level Found		Typical Source of Substance	Meets standards
	Range (2005)	Average/Result*		
Radon (pCi/l) (10/24/01)	N/A	290	Erosion of natural deposits.	✓

* This is the value used to determine compliance with federal standards. It sometimes is the highest value detected or sometimes is an average of all detected values. If it is an average, it may contain sampling results from the previous year. 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) or 300 pCi/l may apply. Minnesota plans to adopt an Indoor Air Program once the Radon Rule is finalized.

Substance (units)	MRDLG	MRDL	High/Low Monthly Avg.	Highest Qtr. Avg.	Typical Source of Substance
Chlorine (ppm)	4	4	.4 - 7.7	1.16	Water additive to control microbes

Substance (units)	MCLG	AL	90% level	# sites over AL	Typical Source of Substance	Meets standards
Copper (ppm) (06/17/2004)	N/A	1.3	.96	0 of 30	Corrosion of household plumbing systems; erosion of natural deposits.	✓

Some substances 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 substance 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 substances that were detected.

Substance (units)	Level Found		Typical Source of Substance	Meets standards
	Range (2005)	Average Result		
Sodium (ppm) (06/20/2002)	N/A	9.9	Erosion of natural deposits.	✓
Sulfate (ppm) (06/20/2002)	N/A	19	Erosion of natural deposits.	✓