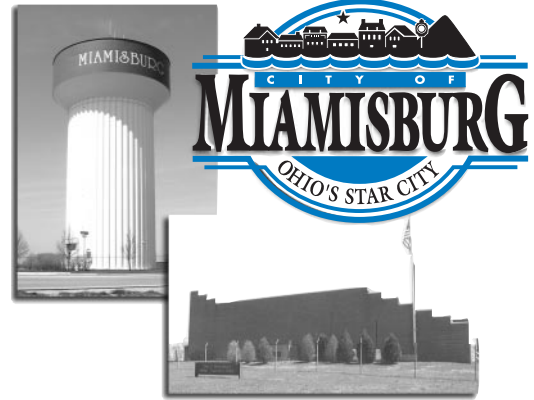


The City Of Miamisburg Drinking Water Quality Report For 2005



INTRODUCTION

The City of Miamisburg has prepared the following report to provide information to you, the consumer, on the quality of our drinking water. It should be noted that the City of Miamisburg's drinking water met all regulatory standards during 2005. Included within this report is general health information, water quality test results, how to participate in decisions concerning your drinking water and water system contacts.

The City has completed construction on the expansion and improvement project at the water treatment plant. The project addressed capacity, equipment replacement and regulatory issues. The construction upgrades include: removal of the aerator, modification of the filters, replacement of the filter media, replacement of backwash pumps, conversion of the red water filter to the backwash waste holding basin, modifications to the chlorine feed system and upgrade of the emergency generator. The project was completed in July 2005.

SOURCE WATER INFORMATION

The City of Miamisburg receives its drinking water from the Great Miami River Buried Valley Aquifer System. The City currently uses five (5) production wells to draw water from the Aquifer for treatment at the water treatment plant. The water production wells are located on the land adjacent to the Great Miami River. Well water is pumped to the water treatment plant where it is treated to remove iron and manganese, filtered and disinfected with chlorine and fluoridated prior to being pumped to our water customers. Water from the City of Miamisburg Water Treatment Plant has an average hardness of 22 grains per gallon. The minerals calcium and magnesium make water hard. During the year 2005, the City of Miamisburg Water Treatment Plant treated an average of 2.4 million gallons per day. The City of Miamisburg also has emergency connections with the City of West Carrollton and Montgomery County. These connections were not used during 2005.

The Ohio Environmental Protection Agency (EPA) performed a source water assessment on the City of Miamisburg's source of drinking water to determine its susceptibility. According to this study, the aquifer (water-rich zone) that supplies water to the City of Miamisburg has a high susceptibility to contamination. This determination is based on the following:

- * Lack of a protective layer of clay overlying the aquifer;
- * Shallow depth (less than 15 feet below ground surface) of the aquifer;
- * The presence of significant potential contaminant sources in the area; and
- * The presence of manmade contaminants in the aquifer. 1,1,1-trichloroethylene, cis 1,2-dichloroethylene, tetrachloroethylene, and trichloroethylene were detected in the raw and treated water.

The City of Miamisburg has worked very hard to develop and implement a comprehensive source water protection plan to help prevent additional contamination from entering the aquifer and prevent the existing contamination from impacting the drinking water source. The protection plan, which has been endorsed by the Ohio EPA, contains an educational component, a citizen-based committee, source control strategies, a contingency and emergency response plan, ground water monitoring strategies, wellfield commercial and industrial facility inspections, and a wellfield protection zoning ordinance. Additionally, this program utilizes a series of monitoring wells throughout the City to track potential pollutants that may enter the groundwater. The program serves to identify and avert potential sources of groundwater contamination. For further information regarding our source water protection program or to find out what consumers can do to assist in aquifer protection, please contact the Public Works Department at (937) 847-6635 or at waterservice@cityofmiamisburg.org.

WHAT ARE SOURCES OF CONTAMINATION TO DRINKING WATER?

The sources of drinking water, both tap water and bottled, 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 can pick up substances resulting from the presence of animals or from human activity.

Contaminants that may be present in source water include:

- (A) Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife;
- (B) 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;
- (C) Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses;
- (D) 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;
- (E) 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 United States Environmental Protection Agency (U.S. EPA) prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration (FDA) 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 below the regulated levels does not pose a health risk. More information about contaminants and potential health effects can be obtained by calling the U.S. EPA's Safe Drinking Water Hotline (1-800-426-4791) or at www.epa.gov/safewater.

**LISTED BELOW IS INFORMATION ON THOSE CONTAMINANTS
THAT WERE FOUND IN THE CITY OF MIAMISBURG'S DRINKING WATER.**

Contaminants (Units)	MCLG	MCL	Level Found	Range of Detections	Violation	Sample Year	Typical Source of Contaminants
Regulated Inorganic Contaminants							
Fluoride (ppm)	4	4	0.99	0.66-1.24	No	2005	Erosion of natural deposits; water additive which, promotes strong teeth; discharge from fertilizer and aluminum factories.
Nitrate (ppm)	10	10	0.97	na	No	2005	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits.
Copper (ppm)	AL=1.3	AL=1.3	0.111	<0.05-0.407	No	2005	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives.
Lead (ppb)	0	AL=15	<5.0	na	No	2005	Corrosion of household plumbing systems; erosion of natural deposits.
Disinfection Byproducts							
Total Trihalomethanes (ppb)	na	100	20.6	15.5-20.6	No	2005	By-product of drinking water chlorination.
Chloroform (ppb)	nr	nr	3.13	1.89-3.13	nr	2005	Byproduct of drinking water chlorination.
Bromoform (ppb)	nr	nr	3.85	2.49-3.85	nr	2005	Byproduct of drinking water chlorination.
Bromodichloromethane (ppb)	nr	nr	6.72	4.60-6.72	nr	2005	Byproduct of drinking water chlorination.
Dibromochloromethane (ppb)	nr	nr	8.91	6.16-8.91	nr	2005	Byproduct of drinking water chlorination.
Haloacetic Acids (ppb)	na	60	35.2	2.52-35.2	No	2005	Byproduct of drinking water chlorination.
Dibromoacetic Acid (ppb)	nr	nr	6.18	2.52-6.18	nr	2005	Byproduct of drinking water chlorination.
Dichloroacetic Acid (ppb)	0	nr	31.9	2.06-31.9	nr	2005	Byproduct of drinking water chlorination.
Monobromoacetic Acid (ppb)	nr	nr	<1.0	na	nr	2005	Byproduct of drinking water chlorination.
Monochloroacetic Acid (ppb)	nr	nr	<2.0	na	nr	2005	Byproduct of drinking water chlorination.
Trichloroacetic Acid (ppb)	300	nr	<1.00	na	nr	2005	Byproduct of drinking water chlorination.
Bromochloroacetic Acid (ppb)	nr	nr	4.56	2.00-4.56	No	2005	Byproduct of drinking water chlorination.
Disinfectants							
Chlorine as Cl ₂ (ppm)	MRDLG = 4.0	MRDL = 4.0	0.72	0.68-0.72	No	2005	Water additive to control microbes.

Who needs to take special precautions?

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 infection. These people should seek advice about drinking water from their health care providers. USEPA/Centers for Disease Control (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 (1-800-426-4791) or at www.epa.gov/safewater.

How do I participate in decisions concerning my drinking water?

Public participation and comment are encouraged by contacting the Public Works Department at (937) 847-6635 or at waterservice@cityofmiamisburg.org. Water customers may also address questions at regular meetings of the Miamisburg City Council, which meets the 1st and 3rd Tuesdays of the month at the Miamisburg Civic Center, 10 N. First Street.

For more information on your drinking water, please contact the Public Works Department at (937) 847-6635 or at waterservice@cityofmiamisburg.org. A copy of this report is also available on the City of Miamisburg's web page at www.ci.miamisburg.oh.us.

About your drinking water

The City of Miamisburg samples drinking water on a regular basis to ensure drinking water safety. The sampling is consistent with U.S. EPA and Ohio EPA requirements. The City of Miamisburg routinely conducts sampling for various classes of contaminants: bacteriological, inorganic, pesticides /herbicides, radiological, organic and unregulated contaminants. Most of these contaminants were not detected in the City of Miamisburg's water supply and the City of Miamisburg met all EPA standards during 2005. The presence of contaminants does not necessarily indicate that water poses a health risk. The Ohio EPA requires the City to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of the data, though accurate, are more than one year old.

Definitions of some terms contained within this report

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 and are non-enforceable public health goals.

Maximum Contaminant Level (MCL): The highest level of 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 (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.

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.

Parts per Million (ppm) or Milligrams per Liter (mg/L) are units of measure for concentration of a contaminant. A part per million corresponds to one second in a little over 11.5 days.

Parts per Billion (ppb) or Micrograms per Liter (µg/L) are units of measure for concentration of a contaminant. A part per billion corresponds to one second in 31.7 years.

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

Treatment Technique (TT): A required process intended to reduce the level of a contaminant in drinking water.

The "<" symbol: A symbol which means less than. A result of <5 means that the lowest level that could be detected was 5 and the contaminant in that sample was not detected.

na: not applicable.

nr: not regulated.