

# **Medina County Sharon-Wadsworth Satellite Water System**

## **PWS ID #: OH5202003**

### **2011 Consumer Confidence Report**

As a Medina County Sharon-Wadsworth Satellite System customer, Medina County is required to provide you with information regarding the quality of water you receive from the County that has been purchased from the City of Wadsworth. Medina County has prepared the following report to provide information to you, the consumer, on the quality of the drinking water supplied to you. Last year, as in years past, Wadsworth water met all U.S. and Ohio EPA drinking water standards. Included within this report you will find general health information, water quality test results, information on how to participate in decision making concerning your drinking water and water system contact information.

#### **Where does my water come from?**

The City of Wadsworth draws its drinking water from 12 different wells around the city. Eight of these wells are deep rock wells located in the southeast corner of the City between Broad Street and Johnson Road. Four of the wells are sand and gravel wells located in the valley southwest of the City near the soccer fields and the airport. Medina County draws water from Wadsworth waterlines at the city limits on SR 94 and distributes the water to you through County-owned pipelines.

For more information about this report, or for any questions relating to your drinking water, please call Dave Ling, Water Distribution Systems Supervisor, at (330)723-9585.

#### **Community Participation**

The Medina County Board of Commissioners holds regularly scheduled meetings every Monday at 9:30 a.m. at the County Administration Building, 144 N. Broadway, Medina. Information regarding these meetings can be found on the Commissioners Web site at <http://www.co.medina.oh.us/commiss/agenda.htm>. The public may also address any drinking water concerns to the Medina County Sanitary Engineer's Superintendent of Treatment, Dave Bazilevich, at (330) 723-9585.

#### **Important Health Information**

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised 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 may be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. The U.S. EPA/CDC (Centers for Disease Control and Prevention) guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline at (800) 426-4791 or [www.epa.gov/safewater/hotline/](http://www.epa.gov/safewater/hotline/).

#### **Substances That Could Be in Water**

To ensure that tap water is safe to drink, U.S. EPA prescribes regulations limiting the amount of certain contaminants in water provided by public water systems. U.S. 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 these contaminants does not necessarily indicate that the water poses a health risk.

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 can acquire naturally occurring minerals, in some cases, radioactive material; and substances resulting from the presence of animals or from human activity. Substances 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, or wildlife; Inorganic Contaminants, such as salts and metals, which can be naturally occurring or may 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 may also come from gas stations, urban stormwater runoff, and septic systems; Radioactive Contaminants, which can be naturally occurring or may be the result of oil and gas production and mining activities. For more information about contaminants and potential health effects, call the U.S. EPA's Safe Drinking Water Hotline at (800) 426-4791.

#### **Lead and Drinking Water**

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. Medina County is responsible for providing high quality drinking water, but cannot control contaminants that may be contributed to the water through the variety of materials used in plumbing components. When your water has been sitting for several hours, metals from these fixtures can leach into your water. 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 Hotline or at [www.epa.gov/safewater/lead](http://www.epa.gov/safewater/lead).

#### **Operating License**

Medina County currently has a unconditioned license issued by the Ohio EPA to operate The Medina County Sharon-Wadsworth Satellite water system.

#### **Sampling Results**

The Ohio EPA requires regular sampling to ensure drinking water safety. Medina County and the City of Wadsworth regularly conducts sampling for bacterial, inorganic, radiological, synthetic organic, and volatile organic contaminants. Along with daily treatment monitoring requirements, samples are routinely analyzed for a total of 123 different contaminants most of which have never been detected in the Wadsworth water supply. The Ohio EPA requires the monitoring of some contaminants less than once per year because the concentration of these contaminants does not change frequently. In these cases, the most recent sample data is included along with the year in which the sample was taken.

#### **Source Water Assessment**

The Ohio EPA completed a study of the City of Wadsworth's wells in order to identify potential containment sources, and provide guidance on protecting the drinking water source. Detailed information is provided in the Source Water Assessment Report, which can be obtained by calling the Medina County Sanitary Engineers at 330-723-9585.

## Contaminant Monitoring Results

Listed below is information on those contaminants that were found in the drinking water supplied by the City of Wadsworth or measured by Medina County Sanitary Engineers.

Only those contaminants where the reading was greater than zero are listed.

### Inorganic Contaminants (measured by Medina County Sanitary Engineer)

Contaminants (Units)	MCLG	MCL	Level Found	Range of Detections	Violation	Year Sampled	Typical Source of Contaminants
Copper (ppb)	1300	1300	155	<50-201	NO	2010	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives
Lead (ppb)	15	0	2.6	<5-5.1	NO	2010	Corrosion of household plumbing systems.

Infants and young children are typically more vulnerable to lead in drinking water than the general population. It is possible that lead levels in your home may be higher than at other homes in the community as a result of materials used in your home's plumbing. It is always a good practice to flush your tap for 30 seconds to 2 minutes before using tap water. If you are concerned about elevated lead levels in your home's water, you may wish to have your water tested. Additional information is available from the Safe Drinking Water Hotline (1-800-426-4791).

### Residual Disinfectants (measured by Medina County Sanitary Engineer)

Contaminants (Units)	MCLG	MCL	Level Found	Range of Detections	Violation	Year Sampled	Typical Source of Contaminants
Total Chlorine (ppm)	MRDL=4	MRDLG=4	0.5	.14 – 1.27	YES	2011	Water additive used to control microbes.

The Sharon-Wadsworth Satellite Water System was issued a monitoring violation for failure to maintain a minimum of 0.2 mg/L free chlorine residual for 18 days in 2011 as required by the Ohio EPA.

The Medina County Sanitary Engineering department was in the process of constructing a supplemental chlorination station at the time of these violations. The station was put into operation in October 2011. There were no additional violations after the station was in operation.

### Disinfection By-Products (measured by Medina County Sanitary Engineer)

Contaminants (Units)	MCLG	MCL	Level Found	Range of Detections	Violation	Year Sampled	Typical Source of Contaminants
Trihalomethanes (ppb)	NA	80	18.7	NA	NO	2007	By-product of drinking water chlorination
Haloacetic Acids (ppb)	NA	60	4.9	NA	NO	2007	By-product of drinking water chlorination

### Inorganic Contaminants (measured by Wadsworth City)

Contaminants (Units)	MCLG	MCL	Level Found	Range of Detections	Violation	Year Sampled	Typical Source of Contaminants
Fluoride (ppm)	4.0	4.0	1.18	0.76-1.18	NO	2011	Water additive which promotes strong teeth
Barium (ppm)	2	2	0.02	NA	NO	2011	Erosion of natural deposits

### Volatile Organic Contaminants (measured by Wadsworth City)

Contaminants (Units)	MCLG	MCL	Level Found	Range of Detections	Violation	Year Sampled	Typical Source of Contaminants
Bromodichloromethane (ppb)	NA	NA	8	NA	NO	2009	By-product of drinking water chlorination
Dibromochloromethane (ppb)	NA	NA	1	NA	NO	2009	By-product of drinking water chlorination

### Radioactive Contaminants (measured by Wadsworth City)

Contaminants (Units)	MCLG	MCL	Level Found	Range of Detections	Violation	Year Sampled	Typical Source of Contaminants
Total Alpha	0	15pc/L	<3pc/L	NA	NO	2009	Erosion of natural deposits
Total Beta	0	4mrem/yr (AL=50pc/L)*	<4pc/L	NA	NO	2009	Decay of natural and man-made deposits
Radium-228	0	5pc/L	<1pc/L	Na	NO	2009	Erosion of natural deposits

\* 4 mrem/yr is the limit but the EPA considers 50pc/L to be of concern

### Definitions

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

**MCL (Maximum Contaminant Level):** The highest level of a contaminant that is allowed in drinking water. MCL's are set as close to the MCLG's as feasible using the best available treatment technology.

**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.

**MRDL (Maximum Residual Disinfectant Level):** 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.

**MRDLG (Maximum Residual Disinfectant Level Goal):** 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.

**NA:** Not applicable

**ND (Not Detected):** Indicates that the substance was not found by laboratory analysis.

**NTU (Nephelometric Turbidity Units):** Measurement of the clarity, or turbidity, of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

**pCi/L (picocuries per liter):** A measure of radioactivity.

**Ppb (parts per billion):** One part substance per billion parts water (or micrograms per liter).

**Ppm (parts per million):** One part substance per million parts water (or milligrams per liter).

**Removal ratio:** A ratio between the percentage of a substance actually removed to the percentage of the substance required to be removed.

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