

CITY OF MIDLAND TEST RESULTS FOR 2006

SUBSTANCES REGULATED AT MIDLAND'S WATER TREATMENT PLANT

Substance	Unit	Amount Detected		MCL	MCLG	Likely Source	Violation?
		Lowest	Highest				
Fluoride	ppm	0.66	1.3	4	4	Erosion of natural deposits; Water Treatment additive which promotes strong teeth	NO
Turbidity	ntu	0.03	0.15	TT ^a	n/a	Soil runoff; suspended matter in surface water	NO
Barium ^b	ppm	0.01	0.01	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits	NO
Selenium ^b	ppb	2	2	50	50	Discharge from petroleum refineries; erosion of natural deposits; discharge from mines	NO
Total Organic Carbon	ppm	Range 1.3 - 1.8	Average 1.5	TT	n/a	Naturally present in the environment	NO

a. Turbidity is monitored because it is a good indicator of the effectiveness of the filtration system. The treatment technique for turbidity requires that all samples be below 1 ntu, and at least 95% of the samples each month be lower than 0.3 ntu. 100% of our samples were below 0.3 ntu.

b. Test date 2004. Testing for this substance conducted every nine years.

SUBSTANCES REGULATED IN THE DISTRIBUTION SYSTEM

Substance	Unit	Amount Detected		MCL	MCLG	Likely Source	Violation?
		Range	Highest RAA ^c				
Total Trihalomethanes	ppb	33 - 79	52.5	80		By-products of drinking water chlorination	NO
Total Haloacetic Acids	ppb	7 - 43	23	60		By-products of drinking water chlorination	NO
Chlorine	ppm	0.15 - 1.11	0.76	4	4	Water Treatment additive for control of microbial contaminants	NO

c. Highest Running Annual Average (RAA) calculated quarterly.

SUBSTANCES REGULATED AT THE CUSTOMER'S TAP (CITY OF MIDLAND)

Substance	Unit	Amount Detected		MCL	MCLG	Likely Source	Violation?
		90th Percentile					
Copper ^{d,f}	ppm	0.402	AL=1.3	1.3		Corrosion of household plumbing systems	NO
Lead ^{e,f}	ppb	13	AL=15	0		Corrosion of household plumbing systems	NO

d. No testing site exceeded the Copper Action Level of 1.300 ppm.

e. Four testing sites exceeded the Lead Action Level of 15 ppb. However, MCL compliance is determined using the 90th percentile value.

f. Test date 2004. Testing for this substance conducted every three years.

IMPORTANT DEFINITIONS

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

Action Level or AL: The concentration of a contaminant which, if exceeded, triggers the need for additional treatment or other requirements which a water system must meet.

Maximum Contaminant Level or MCL: The highest level of a contaminant, which is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

Maximum Contaminant Level Goal or MCLG: The level of contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

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.

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 contamination.

Nephelometric Turbidity Units (ntu): Is a measure of the clarity of water. The lower the numbers, the more clear the water.

Not Applicable: n/a

Part per million (ppm); part per billion (ppb): These units describe the levels of detected contaminants. One part per million is about 1/2 of a dissolved aspirin tablet (162.5 mg) in a full bathtub of water (about 50 gallons). One part per billion is about one dissolved aspirin tablet (325 mg) in a typical 25-meter swimming pool (about 100,000 gallons).

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

INFORMATION ON COPPER

Copper is an essential nutrient, but some people who drink water containing copper in excess of the action level over a relatively short amount of time could experience gastrointestinal distress. Some people who drink water containing copper in excess of the action level over many years could suffer liver or kidney damage. People with Wilson's Disease should contact their personal doctor. If you are concerned about elevated copper levels in your home's water, you may wish to have the water tested, and flush your tap for 30 seconds to two minutes before using the water. Contact the City's Water Treatment Plant at **837-3515** for further information on water testing.

INFORMATION ON LEAD

Infants and young children are typically more vulnerable to lead in drinking water than the general population. It is possible that lead levels at your home may be higher than others in the community as a result of materials used in your home's plumbing. If you are concerned about elevated lead levels in your home's water, you may wish to have your home's water tested, and to flush your water tap for 30 seconds to two minutes before using the water. Contact the City's Water Treatment Plant at **837-3515** for further information on water testing.

WHAT THE EPA SAYS ABOUT DRINKING WATER CONTAMINANTS

Drinking Water

Between claims made by people selling water treatment devices and news reports about environmental issues, it is easy to forget the water delivered by the Midland Water System undergoes a multi-stage treatment process and is rigorously tested to ensure it meets strict government standards. 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 (EPA) Safe Drinking Water Hotline (800-426-4791) or e-mail: www.sdwa@epa.gov.

What if I Have Special Health Needs?

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. Environmental Protection Agency/Centers for Disease Control 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) or e-mail: www.sdwa@epa.gov.

Source Water

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. 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.

UTILITIES DEPARTMENT

WATER TREATMENT • WATER DISTRIBUTION • WATER OFFICE

Here are some helpful City of Midland telephone numbers:

24-hour water Emergency services:	989-837-3515
Questions or concerns about water quality:	989-837-3515
Distribution system questions or problems:	989-837-6950
Utility Billing – Water office @ City Hall:	989-837-3341



Water Quality News

A Newsletter for the Citizens Served by the City of Midland Water System June 2007

2006 DRINKING WATER QUALITY REPORT

The City of Midland has a water treatment facility designed to do one thing — provide drinking water that meets all state and federal water-quality standards. Midland's annual **Drinking Water Quality Report** is intended to provide you, our customer, the most recent water quality testing data. Your concerns and opinions are important to us, and we encourage you to contact us with any questions or comments. You can reach us by calling the Water Treatment Plant at **837-3515** or leaving a message on our 24-hour citizen comment line, **837-3400**. You may also send an e-mail to cityhall@midland-mi.org or write to us at **333 West Ellsworth Street, Midland, MI 48640**.

SOURCE WATER INFORMATION

Midland has received its source water supply from Lake Huron since 1948. The source water pumping system is jointly owned and operated by the cities of Midland and Saginaw and is called the Saginaw-Midland Municipal Water Supply Corporation (SMMWSC). Water is drawn into the system through two intake structures located in Lake Huron off the shores of Whitestone Point. The water is chlorinated at the lake intake structures to kill harmful bacteria and zebra mussels and is then pumped through 65 miles of pipeline to Midland. The water treatment complex is able to provide 48 million gallons per day (MGD) of treated Lake Huron water to our community. The water plant is staffed by state certified water treatment operators, water analysts and maintenance personnel that monitor, test, maintain and adjust the treatment process to provide high quality and reliable water service. Water distribution personnel are on duty to ensure water quality and safety as the water is delivered to the Midland area through approximately 320 miles of water main.

In June 2004, the Michigan Department of Environmental Quality (MDEQ) released a Source Water Assessment Report (SWAR) for our community's source of raw water. Included in the Source Water Assessment is a susceptibility analysis of our raw water. Susceptibility is a measure of the factors within the source water area that may pose a risk to the water supply. The Source Water Assessment Report concluded that potential contaminant sources present a negligible risk due to the physical location of the intakes. Based on our intake's infrequent experience with abnormal current flows, the Saginaw-Midland source water is defined as moderately low for susceptibility to potential contamination. Midland has effectively treated this source to meet drinking water standards. Protecting the source of our drinking water is an investment in our community's future and one of our main priorities. A copy of the report is available for review at the Water Office located at City Hall. If you have questions or need additional information on our Source Water Assessment, please call the Water Plant at **837-3515**.

2006 Drinking Water Quality Report

Is produced by the Utilities Department – Water Division
333 W. Ellsworth • Midland, MI • 48640 • www.midland-mi.org
Midland City Council – meetings held twice monthly on Monday evenings at 7 p.m. Check your City calendar for dates.

Tom Adams, Ward I
James Myers, Ward II / Mayor Pro Tem
Hollis H. McKeag, Ward III
Bruce Johnson, Ward IV / Mayor
Joseph Rokosz, Ward V

This report was mailed to all residences and businesses in the City of Midland and to customers in communities that purchase their water directly from the City of Midland. Extra copies are available at the Water Plant by calling **989-837-3515** or on the City's website at www.midland-mi.org.

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