

THE CITY OF MOUNT CLEMENS – CALENDAR YEAR 2007 ANNUAL DRINKING WATER QUALITY REPORT

City of Mount Clemens – 1750 Clara Street – Mount Clemens, MI 48043 – 586.469.6889 ext. 501 – www.cityofmountclemens.com

RIGHT TO KNOW RULE

The City of Mount Clemens provides your drinking water and is pleased to present you with this annual water quality report, in accordance with the regulations. Our goal is to provide you with a safe and dependable drinking water supply. This report will illustrate that we are achieving this goal.

MOUNT CLEMENS WATER FILTRATION PLANT

On July 1, 1929 the City of Mount Clemens Water Filtration Plant began filtering and pumping Lake St. Clair water to the City of Mount Clemens. It was soft water compared to the hard well and river water the citizens had been used to for many years. During the past 79 years the plant has pumped the equivalent contents of Lake St. Clair over 50 times!

The first public water supply in Mount Clemens was started in 1888. The water plant was built at present day Shadyside Park and used the Clinton River as its source. The City switched to wells in 1905. However, the well supply was not adequate for fire flows so untreated Clinton River water had to be pumped into the water system to help fight large fires.

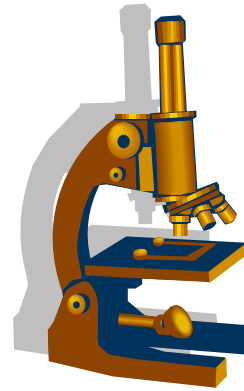
For the past 79 years the City of Mount Clemens and surrounding areas have been supplied by the plant located on the shores of Lake St. Clair in Harrison Township. The plant has achieved a high pumping rate of 13.9 million gallons per day and sent drinking water as far south as the City of Fraser and as far north as 24 Mile Road and Romeo Plank.

Since its original construction in 1929, the Mount Clemens Water Filtration Facility has undergone many changes including doubling in size in 1959. In 2000 the plant was upgraded to include ozone treatment and in 2003 the Michigan Section of the American Water Works Association awarded Mount Clemens Drinking Water the best tasting drinking water in the State! In 2004 the American Water Works Association named the Mount Clemens Water Filtration Plant a designated landmark.

Water Supply is always key to growth of any region. Providing a safe, abundant, reliable supply of drinking water has helped the City of Mount Clemens and adjacent townships develop tremendously since 1929.

WHERE DOES YOUR WATER COME FROM?

Your drinking water is drawn from Lake St. Clair. A 30-inch steel pipe extending over three-quarters of a mile into the lake transports the lake water to the treatment plant. The intake is equipped with zebra mussel control to prevent these troublesome mollusks from obstructing the pipeline. To ensure a reliable supply of water, the City has an emergency interconnection with the Detroit Water System.



EPA MANDATED WATER TESTING IN 2008

Cryptosporidium is the microscopic organism that was accused of sickening hundreds of thousands of people in the City of Milwaukee in 1993. As a result of that one time incident the EPA has mandated that all water plants that use surface water conduct source (raw) water sampling for cryptosporidium. During

2008 water samples will be taken directly from the Mount Clemens intake crib located 4000 feet out in L'Anse Creuse Bay of Lake St. Clair.

If cryptosporidium is located in the waters of Lake St. Clair the City of Mount Clemens may be required to increase the amount of Ozone already added to the water since ozone is one of the most effective methods of treating cryptosporidium.

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HEALTH AND SAFETY INFORMATION

The following information is mandatory language provided by the Environmental Protection Agency:

Drinking water, including bottled water, may be reasonably expected to contain at least small amounts of some contaminants. The presence of these contaminants does not necessarily pose a health risk. The sources of both tap and bottled drinking water include rivers, lakes, streams, ponds, reservoirs, springs, and wells.

As water travels over the surface of land or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive materials, and can also pick up substances resulting from animal or 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 be the result from urban storm water 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 and residential users.
- **Radioactive contaminants**, which are natural occurring or be the result of oil and gas production and mining activities.
- **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.

To ensure that tap water is safe, the Environmental Protection Agency (EPA) prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. The Food and Drug Administration establishes limits for contaminants in bottled water, which must provide the same protection for public health. All of these contaminants were below the level of concern in Mount Clemens= water.

Information for Vulnerable Populations: Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as 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. Federal guidelines on appropriate means to lessen the risk of infection from cryptosporidium and other microbiological contaminants are available from EPA's Safe Drinking Water Hotline, 800.426.4791.

Information about lead: 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. The City of Mount Clemens 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 Hotline or at <http://www.epa.gov/safewater/lead>.

DEFINITIONS

Parts per million (ppm) and parts per billion (ppb) - One ppm = parts per million, or milligrams per liter (mg/L), **ppb** = parts per billion, or micrograms per liter (ug/L).

Maximum Contaminant Level Goal (MCLG) – The MCLG is the level of a contaminant in drinking water below which there no known is or expected health risk. MCLGs provide a margin of safety.

Maximum Contaminant Level (MCL) – the MCL is 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.

Nephelometric Turbidity Unit (NTU) measures clarity.

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 treatment technique is a required process intended to reduce the level of a contaminant in drinking water.

Picocuries Per Liter (pCi/L) – A measure of radioactivity.

“Maximum residual disinfectant level goal” or “MRDLG” means 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.

“Maximum residual disinfectant level” or “MRDL” means 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.

SOURCE WATER ASSESSMENT REPORT

Our source Water Assessment was completed in 2004. The Mount Clemens source water is categorized as highly susceptible, given land uses and potential contaminant sources within the source water area. However, it is noted that historically, the Mount Clemens Water Treatment Plant has effectively treated this source water to meet drinking water standards. The City of Mount Clemens has instituted pollution prevention programs, but is cognizant of additional potential threats to its source of drinking water that are identified in the report. The report explains the background and basis for these determinations. More information is available at www.michigan.gov/deq

MOUNT CLEMENS DRINKING WATER QUALITY DATA FOR 2007

The table below lists all the drinking water contaminants that we detected during the 2007 calendar year. The presence of these contaminants in the water does not necessarily indicate that the water poses a health risk. Unless otherwise noted, the data presented in this table is from testing done January 1 - December 31, 2007. The State allows us to monitor for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. All of the data is representative of the water quality, but some are more than one year old.

Regulated contaminant	MCL	MCLG	Level Detected	Range of Detection	Sample Date	Violation Yes/No	Typical Source of Contaminant
Fluoride (ppm)	4	4	1.2	N/A	9/10/07	NO	Erosion of natural deposits. Discharge from fertilizer and a aluminum factories
Bromate (ppb)	10	0	0	0-0	Monthly	No	By-product of drinking water disinfection
Regulated Contaminant	Treatment Technique	Running annual average	Monthly Ratio Range	Violation Yes / No	Typical Source of contaminant		
Total Organic Carbon (ppm)	The Total Organic Carbon (TOC) removal ratio is calculated as the ratio between the actual TOC removal and the TOC removal requirements. The TOC was measured quarterly and our system met all TOC removal requirements set by the state.			No	Erosion of natural deposits.		
Special Monitoring and Unregulated Contaminant**		Level Detected	Sample Date	Typical Source of Contaminant			
Sodium (ppm)		41	9/10/07	Erosion of natural deposits			
Contaminant Subject to Action Level	Action Level	90 th Percentile	Monitoring Period	Number of Samples Above the Action Level	Typical Source of Contaminant		
Lead (ppb)	15	2	June 1, 2005 To	None	Corrosion of household plumbing systems, Erosion of natural deposits		
Copper (ppm)	1.3	0.120	September 30, 2005	None	Corrosion of household plumbing systems, Erosion of natural deposits. Leaching from wood preservatives.		

** Unregulated contaminants are those for which EPA has not established drinking water standards. Monitoring helps EPA to determine where certain contaminants occur and whether it needs to regulate those contaminants. The City of Mount Clemens has tested a wide variety of unregulated contaminants in 2005. The unregulated contaminants test results are available to customers by contacting the Mount Clemens Utilities Department.

2007 Turbidity - Monitoring every 4 hours at Plant Finished Water Tap								
Turbidity is a measure of the cloudiness of water. We monitor it because it is a good indicator of the effectiveness of our filtration system.								
Highest Single Measurement Cannot exceed 1 NTU	Lowest Monthly % of samples meeting Turbidity Limit of 0.3 NTU (Min. 95%)			Violation Yes / No		Major Source in Drinking Water		
0.18 NTU	100%			No		Soil Runoff		
Disinfection Residuals and Disinfection By-Products – Monitoring in Distribution System								
Contaminant	Test Date	Units	Health Goal MCLG	Allowed Level MCL	Level Detected	Range of Detection	Violation Yes / No	Major Source of Drinking Water
Total Trihalomethanes (TTHM)	2007	ppb	N/A	80	55.1	16-103	No	By-product of drinking water chlorination
Haloacetic Acid (HAA5)	2007	ppb	N/A	60	26.1	0-51	No	By-product of drinking water disinfection
Disinfectant (Chlorine) Residual (ppm)	2007	ppb	MRDGL 4	MRDL 4	0.61	0.41-0.90	No	Water additive used to control microbes
Microbial Contaminants	MCL			MCLG	Number Detected	Violation Yes / No	Typical Source of contaminant	
Total Coliform Bacteria	1 positive monthly sample (5% of monthly samples positive)			0	0 in one month	No	Naturally present in the environment	
Fecal Coliform And E. Coli	Routine and repeat sample total Coliform positive, and one is also fecal or E. Coli positive			0	0 in entire year	NO	Human and animal fecal waste	

PUBLIC PARTICIPATION

Interested citizens are welcome to attend City Commission meetings to hear more about the Mount Clemens Water System. Meetings are held the first and third Monday of each month at 7:00 pm at City Hall, located at One Crocker Boulevard.

QUESTIONS? COMMENTS

City Staff works year-round to provide quality water to residents and businesses. Monitoring results from early 2002 are available upon request. If you have any questions or comments, or would like to receive more specific information about Mount Clemens Water System, please feel free to call Chuck Bellmore, Director of Utilities.

For More Information, Please Contact:
Chuck Bellmore
Director of Utilities
(586) 469-6889 Ext 501
7 am to 3 pm weekdays.

CITY OF MOUNT CLEMENS
1750 CLARA
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IMPORTANT INFORMATION ENCLOSED:
2007 WATER QUALITY REPORT



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