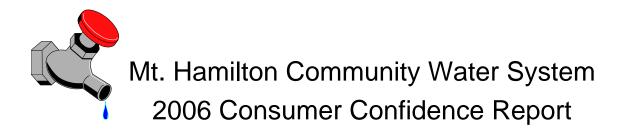
Mt. Hamilton Community Water System



This report contains important information about your drinking water and is made available to you as a requirement of the Safe Drinking Water Act. Hard copies are posted in the Maintenance Shop and the Post Office lobby. Contact Sheryl or Wendy if you want a hard copy.

> Prepared by: Sheryl Severinsen Wendy Hansen June 2007





Mt. Hamilton Community Water System routinely monitors for contaminants in your drinking water according to Federal and State laws. This report shows the results of our monitoring for the period of January 1 – December 31, 2006. Our constant goal is to provide you with a safe and dependable supply of drinking water.

About Your Water

The water system consists of two spring sources, North Spring and South Spring, that have been classified *as groundwater under the direct influence of surface water*. This classification mandates that the water be filtered and disinfected. Our system uses chlorine to provide disinfection.

The North Spring provides water most of the year. If there are heavy rains during the spring and winter, the clarity (turbidity) of the water does not always meet water quality standards and it becomes necessary to obtain water from the South Spring.

The South Spring is used as a backup source when the North Spring water is unable to meet the clarity standard and the storage tank levels are getting low. This spring produces clearer water but usually dries up during the summer making it unreliable to use year round.

Water from either spring is pump to the water treatment plant on Kepler Peak, next to the KAIT Telescope where it is filtered, chlorinated and pumped to a storage tank. Water is then gravity-fed throughout the distribution system with booster pumps used where necessary.

Drinking Water Source Assessment

A Watershed Sanitary Survey of the drinking water sources was conducted in 2005. The sources are very protected from activities that might cause contamination. The only likely contaminant sources are wild animals primarily deer and wild pigs.

Who to Contact

Contact someone below if you have any questions or problems with your water:

Water System Operator

Sheryl Severinsen	
Leave a message	
Home (emergencies)	

Water Monitor

Wendy Hansen	
Home	

Maintenance Department

Dave Lingo	831-459-5930
Jon Genens	831-459-5930
Richard Kasmi	831-459-5930

Maintenance Supervisor

Glossary

The following are definitions of some of the terms used in this report.

In the following tables you will find many terms and abbreviations you might not be familiar with. To help you better understand these terms we've provided the following definitions:

Maximum Contaminant Level (MCL): The highest level of a contaminant that is allowed in drinking water. Primary MCLs are set as close to the PHGs (or MCLGs) as is economically and technologically feasible. Secondary MCLs are set to protect the odor, taste, and appearance of drinking water.

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 are set by the U.S. Environmental Protection Agency (USEPA).

Public Health Goal (PHG): The level of a contaminant in drinking water below which there is no known or expected risk to health. PHGs are set by the California Environmental Protection Agency.

Maximum Residual Disinfectant Level (MRDL): The level of a disinfectant added for water treatment that may not be exceeded at the consumer's tap.

Maximum Residual Disinfectant Level Goal (MRDLG): The level of a disinfectant added for water treatment below which there is no known or expected risk to health. MRDLGs are set by the U.S. Environmental Protection Agency. Environmental Protection Agency (USEPA).

Primary Drinking Water Standards (PDWS): MCLs and MRDLs for contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements. Secondary Drinking Water Standards (SDWS): MCLs for contaminants that affect taste, odor, or appearance of the drinking water. Contaminants with SDWSs do not affect the health at the MCL levels.

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

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

Variances and Exemptions: Department permission to exceed an MCL or not comply with a treatment technique under certain conditions.

ND: not detectable at testing limit

ppm: parts per million or milligrams per liter (mg/L)

ppb: parts per billion or micrograms per liter (ug/L)

ppt: parts per trillion or nanograms per liter (ng/L)

pCi/L: picocuries per liter (a measure of radiation)

Information About Drinking 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.

Contaminants that may be present in source water include:

- *Microbial contaminants*, such as viruses and bacteria, that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- *Inorganic contaminants*, such as salts and metals, that can be naturallyoccurring or 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, urban storm water runoff, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, that are byproducts of

industrial processes and petroleum production, and can also come from gas stations, urban storm water runoff, and septic systems.

• *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, USEPA and the state Department of Health Services (Department) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. Department regulations also establish limits for contaminants in bottled water that must provide the same protection for public health.

The following tables list all of the drinking water contaminants that were detected during the most recent sampling for the constituent. The presence of these contaminants in the water does not necessarily indicate that the water poses a health risk. The Department requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of the data, though representative of the water quality, are more than one year old.

Individual Tap Monitoring for Lead & Copper

Monitoring of individual taps from locations within the water system is performed for lead & copper to verify that the delivered water does not contain lead or copper at levels that may have health effects.

Samples were taken from 5 residences and analyzed in April 2006. The next analysis will be done in 2009.

Constituent (and reporting units)	No. of samples collected	90 th percentile Level Detected	No. Sites exceeding AL	AL	MCLG	Likely Source of Contamination
Lead (ppb)	5	<5	0	15	2	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits.
Copper (ppm)	5	0.105	0	1.3	0.17	Internal corrosion of household water plumbing systems; erosion of natural deposits; leaching from wood preservatives.

There were no violations of lead and copper standards.

Sodium and Hardness

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant
Sodium (ppm)	5/16/06	8.9	8.6 - 9.2	none	none	Generally found in ground and surface water
Hardness (ppm)	5/16/06	145	130 - 160	none	none	Generally found in ground and surface water

Detection of Contaminants with a Primary Drinking Water Standard

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant		
Radiological Every 4 averaged together. The	Radiological Every 4 th year samples are taken quarterly from the North & South Springs. The results are averaged together. The next sampling will be in 2010. This year we were required to test for Radium 228.							
Gross Alpha Activity, (pCi/L)	2006	1.08	0 - 5.02	15	NA	Decay of natural and man- made deposits		
Radium 228 (pCi/L)	2006	0.03	0 - 0.181	5	NA	Erosion of natural deposits		
Disinfection Byprodu	Disinfection Byproducts, Disinfection Residual, and Disinfection Byproduct Precursors							
TTHM (ppb) [Total trihalomethanes]	9/7/06	9.6	NA	80	NA	Byproduct of drinking water chlorination		
HAA5 (ppb) [Haloacetic Acids]	9/7/06	2.6	NA	60	NA	Byproduct of drinking water disinfection		
Chlorine (ppm)	Once per month at various residences	0.18	0.07 - 0.25	MRDL = 4 (as Cl ₂)	MRDLG = 4 (as Cl ₂)	Drinking water disinfectant added for treatment		
Inorganics								
Cadmium (ppb)	5/16/06	0.55	0 - 1.1	5	.04	Internal corrosion of galvanized pipes; erosion of natural deposits; discharge from electroplating and industrial chemical factories, and metal refineries; runoff from waste batteries and paints		



Detection of Contaminants with a Secondary Drinking Water Standard

There are no PHGs, MCLGs, or mandatory standard health effects language for constituents with secondary drinking water standards because secondary MCLs are set on the basis of aesthetics.

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL	Typical Source of Contaminant
Chloride (ppm)	5/16/06	4.65	4.1 - 5.2	500	Runoff/leaching from natural deposits; seawater influence
Specific Conductance (micromhos)	5/16/06	287.5	255 - 320	1600	Substances that form ions when in water; seawater influence
Total Dissolved Solids (ppm)	5/16/06	187.5	165 - 210	1000	Runoff/leaching from natural deposits
Sulfate (ppm)	5/16/06	18.5	16 - 21	500	Runoff/leaching from natural deposits' industrial wastes
Zinc (ppb)	5/16/06	175	0 - 350	500	Runoff/leaching from natural deposits; industrial wastes



North Spring Storage Tanks

SAMPLING RESULTS SHOWING TREATMENT OF SURFACE WATER SOURCES

<i>Treatment Technique</i> * (Type of approved filtration technology used)	Rosedale bag & cartridge filters
<i>Turbidity Performance Standards</i> ** (that must be met through the water treatment process)	 <u>Turbidity of the filtered water must</u>: 1 - Be less than or equal to <u>0.2</u> NTU in 95% of measurements in a month. 2 - Not exceed <u>0.5</u> NTU for more than eight consecutive hours. 3 - Not exceed <u>1.0</u> NTU at any time.
Lowest monthly percentage of samples that met Turbidity Performance Standard No. 1	100%
Highest single turbidity measurement during the year	0.199
The number of violations of any surface water treatment requirements	0

* A required process intended to reduce the level of a contaminant in drinking water.

** Turbidity (measured in NTU) is a measurement of the cloudiness of water and is a good indicator of water quality and filtration performance. Turbidity results which meet performance standards are considered to be in compliance with filtration requirements.

Summary of Tables

As you can see by the table, our system had no violations. We are proud that your drinking water meets or exceeds all Federal and State requirements. We have learned through our monitoring and testing that some contaminants have been detected; however, the EPA has determined that your water IS SAFE at these levels.

