

Hamilton Creek Metropolitan District

Water Quality Report PWSID #159063

The Hamilton Creek Metropolitan District is pleased to present you with our annual Water Quality Report. Consumer concerns for our environment, the air we breathe and the food we eat also extends to the tap water we drink. All water provided during 2004 was from our new surface water source. Since August 2003 the District has been providing water to residents that meet all water quality standards. This report provides information from our monitoring for the period January 1 to December 31, 2005 unless otherwise noted.

The Water Quality Report is designed to inform you about the water and services we deliver to you each day. If you have any questions about your water or the information in this report, please contact Bob Polich, Administrator of the Hamilton Creek Metropolitan District at (970) 668-5500 Extension 12. Information can also be obtained from the District web site www.hamiltoncreek.org. A Board of Directors consisting of five elected residents governs the District. The Board holds public meetings quarterly concerning the operations of the District.

Esta es informacion importante. Si no la pueden leer, necesitan que alguien se la traduzcan.

General information about drinking water

All drinking water, including bottled drinking water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. 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 of infections. These people should seek advice about drinking water from their health care providers. More information about contaminants and potential health effects, or to receive a copy of the U.S. Environmental Protection Agency (EPA) and the U.S. Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by cryptosporidium and microbiological contaminants call EPA *Safe Drinking Water Hotline* at 1-800-426-4791.

Nationwide 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 facilities, septic systems, agricultural livestock operations, recreational activities and wildlife.

Inorganic contaminants such as salts and metals, which can be naturally-occurring or result from urban storm 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 organics which are byproducts of industrial processes and petroleum products, and can also come from gas stations, urban stormwater runoff, and septic systems.

Radioactive contaminants that can occur naturally or as the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, the Colorado Department of Public Health and Environment prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. The FDA regulations establish limits for contaminants in bottled water which provides the same protection for public health.

Source of Hamilton Creek Water.

Since August of 2003 the water source has been the physical Creek that the Hamilton Creek subdivision derived its name from. The Creek source is providing excellent water to users meeting all State and Federal Water Quality guidelines. The District has two backup 700-foot deep wells located near Hamilton Creek at 291 Lakeview Circle. The wells are located approximately 50 feet apart. The water quality is similar, but slightly different for each well. The wells will only be utilized in an emergency basis.

The Colorado Department of Public Health and Environment has provided us with a Source Water Assessment Report for our water supply, you may obtain a copy of the report by visiting www.cdphe.state.co.us/wq/sw/swaphom.html or by contacting the District. The Creek flows from the peaks above Hamilton Creek. There are three channels that feed into the Creek. Snow melt is the primary source of water to the Creek feed in the form of springs. Test and exploration by the District indicates there are no old mining claims within the water source area. There are no known industrial or commercial sources of contamination in the water source area.

The Source Water Assessment Report provides a screening-level evaluation of potential contamination that **could** occur. It does not mean that the contamination **has or will** occur. We can use this information to evaluate the need to improve our current water treatment capabilities and prepare for future contamination threats. This can help us ensure that quality finished water is delivered to your homes. In addition, the source water assessment results provide a starting point for developing a source water protection plan.

Water treatment

Hamilton Creek surface water is filtered using a bag filtration process. The filtration process is monitored constantly by computer equipment registering the particulate count and the turbidity. Should the turbidity reach too high of a level, the system automatically stops taking water from the Creek. Prior to being released into the distribution system, the water is chlorinated as a protection against microbial contaminants. The District continues to research the optimum future treatment methods. The infiltration gallery in the Creek is regularly blown out with compressed air to improve the natural filtration process of the water before it is drawn into our treatment facility.

The ground water source used until August 2003 was only chlorinated prior to entering the distribution system. A characteristic of deep wells, as was utilized by the District, is minerals in the water. While these minerals are not a concern to health, they are factors in the taste of the water, build up on plumbing fixtures and color of the water. The chlorination helps mitigate some of the taste issues with the water.

Water Conservation

The Creek in Hamilton Creek has been the water source since August 2003. This is a high quality water source, but has a limited quantity. High water flows during the spring can limit the amount of water that can be produced. Drought periods drastically reduce the stream flow. The Hamilton Creek area was never intended to be a community of formal lawns with extensive irrigation. The Design Guidelines and Covenants restrict landscaping. The water source should be adequate in most situations if residents follow sensible water usage and limit outside irrigation. If you use water outside for irrigation please only apply it before 10 AM or after 6 PM to limit evaporation. Properly installed drip systems efficiently apply water and are encouraged.

Water Quality Data and Definitions

The Hamilton Creek Metropolitan District monitors water quality through testing on a continual basis. Most of this testing is for internal operating purposes. Specialized contract laboratories are used to test for contaminants. These laboratories report their findings to the Colorado Department of Public Health and Environment which is the agency monitoring that you are receiving safe water. This report contains testing that was done in 2005. The State permits monitoring for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of this data, though representative, are more than one year old. Any regulated contaminants detected in the water, even at very low levels, are listed here. The presence of contaminants does not necessarily indicate that the water poses a health risk.

The report makes use of the following definitions:

BDL or Below Detectable Level. The result is below a level that can be recorded on the testing equipment.

MCL or Maximum Contaminant Level. 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.

MCLG or Maximum Contaminant Level Goal. 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.

MRDL or 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 or Maximum Residual Disinfectant Level Goal. The level of 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.

ppm or Parts per million. One part per million corresponds to one minute in two years or a single penny in \$10,000.

ppb or Parts per billion. One part per billion corresponds to one minute in 2,000,000 years, or a single penny in \$10,000,000.

pCi/l or Picocuries per liter. Picocuries per liter is a measure of the radioactivity in water.

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

RAA or Running Annual Average. An average of monitoring results for the previous 12 calendar months.

The state has issued our system waivers (testing not required) for dioxin, glyphosate, nitrite, cyanide, and asbestos.

Table of Detected Contaminants

The state requires 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, or the system is not considered vulnerable to this type of contamination. Some of our data, though representative, may be more than one year old.

All data is from January 1, 2005 to December 31, 2005 unless otherwise noted

	TT Requirement	Level Found	Violation	Sample Date	Likely Source of Contamination
Turbidity	Maximum 5 NTU for any single measurement	Highest single measurement: 1.35 NTU	No	5/27/2005	Soil run off
	In any month, at least 95% of samples must be less than 1 NTU	Lowest monthly percentage of samples meeting TT standard for our technology: 100%	No	Month: N/A	

Inorganic Contaminants	Unit	MCL	MCLG	Detected Level	Sample Date	MCL Violation	Likely Source of Contamination
Barium	ppm	2	2	0.015	Mar-05	NO	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits.
Lead & Copper		Range					
Copper	ppm	AL=1.3	1.3	0.05 to 0.12 90th Percentile 0.1	2005	NO	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead	ppb	AL=15	0	2	2005	NO	Corrosion of household plumbing systems; erosion of natural deposits
Radioactive Contaminants							
Gross Alpha	pCi/l	15	0	1.7	Mar-03	NO	Decay of natural and man-made deposits
Radium, combined	pCi/l	5	0	0.4	Mar-03	NO	Erosion of natural deposits
Disinfectants and Disinfection Byproducts							
Chlorine	ppm	4	4	0.03 to 1.51	1 per month	NO	By-product of drinking water chlorination
HAA	ppb	60	n/a	Average 51.5 Range 23 to 79.5 Highest 56.9	Quarterly	NO	By-product of drinking water disinfection
TTHM	ppb	80	0	Average 54.5 Range 26.8 to 82.1 Highest 59.2	Quarterly	NO	By-product of drinking water chlorination
Unregulated Contaminants							
Sodium	ppm	Not regulated		5.1	Mar-05		