# Quality On Tap

# 2009 Annual Drinking Water Quality Report

# Alpha-Talbott Utility District Water Quality Report for 2009

# Is my drinking water safe?

Yes, our water meets all of EPA's health standards. We have conducted numerous tests for over 80 contaminants that may be in drinking water. As you'll see in the chart on the back, we only detected 10 of these contaminants. We found all of these contaminants at safe levels.

# What is the source of my water?

Your water, which is surface water, comes from the Morristown Utilities Systems. Our goal is to protect our water from contaminants and we are working with the State to determine the vulnerability of our water source to potential contamination. The Tennessee Department of Environment and Conservation (TDEC) has prepared a Source Water Assessment Program (SWAP) Report for the untreated water sources serving this water system. The SWAP Report assesses the susceptibility of untreated water sources to potential contamination. To ensure safe drinking water, all public water systems treat and routinely test their water. Water sources have been rated as reasonably susceptible, moderately susceptible or slightly susceptible based on geologic factors and human activities in the vicinity of the water source. The Alpha-Talbott Utility District sources rated as reasonably susceptible to potential contamination.

An explanation of Tennessee's Source Water Assessment Program, the Source Water Assessment summaries, susceptibility scorings and the overall TDEC report to EPA can be viewed online at

www.state.tn.gov/environment/dws/dwassess.shtml or you may contact the Water System to obtain copies of specific assessments.

# Why are there contaminants in my water?

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 Safe Drinking Water Hotline (800-426-4791).

Este informe contiene información muy importante. Tradúscalo o hable con alguien que lo entienda bien.

For more information about your drinking water, please call Phillip Combs at 423.586.2925 or 865.475.7200.

### How can I get involved?

Our Water Board meets on the first Monday of each month at 4:00 p.m. at the office, 1085 E Hwy 11-E. Please feel free to participate in these meetings. The Commissioners of Alpha-Talbott Utility District serve four year terms. Vacancies on the Board of Commissioners are filled by appointment by the County Mayor(s) from a list of three nominees certified by the Board of Commissioners to the County Mayor(s) to fill a vacancy. Decisions by the Board of Commissioners on customer complaints brought before the Board of Commissioners under the District's customer complaint policy may be reviewed by the Utility Management Review Board of the Tennessee Department of Environment and Conservation pursuant to Section 7-82-702(7) of Tennessee Code Annotated.

# Is our water system meeting other rules that govern our operations?

The State and EPA require us to test and report on our water on a regular basis to ensure its safety. We have met all of these requirements. Results of unregulated contaminant analysis are available upon request. We want you to know that we pay attention to all the rules.

### Other Information

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:

- 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 naturallyoccurring or result from urban stormwater runoff, industrial, or domestic waste water 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 can also come from gas stations, urban stormwater 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, EPA and the Tennessee Department of Environment and Conservation prescribe regulations which limit the amount of certain contaminants in water provided by public water systems. Morristown Utilities water treatment processes are designed to reduce any such substances to levels well below any health concern. FDA regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Cryptosporidium is a microbial parasite which is found in surface water throughout the U.S. Although Cryptosproidium can be removed by filtration, the most commonly used filtration methods cannot guarantee 100% removal. Monitoring of source water from Morristown Utility Systems indicated the presence of cryptosporidium in 1 of 24 samples tested. No Cryptosporidium were detected in finished water samples. Symptoms of infection include nausea, diarrhea and abdomianl cramps. Most healthy people are able to overcome the disease within a few weeks. However, immunocompromised people have more difficulty and are at a greater risk of developing severe, life threatening illness. Immuno-compromised people are encouraged to consult their doctor regarding appropriate precautions to prevent infection. For more information on Cryptosporidium, call the Safe Drinking Water Hotline at 800-426-4791

# Do I Need To Take Special Precautions?

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 under-gone 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 not only their drinking water, but food preparation, personal hygiene, and precautions in handling infants and pets from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbiological contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

### Lead in 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. Alpha-Talbott UD 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.

## **Water System Security**

Following the events of September 2001, we realize that our customers are concerned about the security of their drinking water. We urge the public to report any suspicious activities at any utility facilities, including treatment plants, pumping stations, tanks, fire hydrants, etc. to 423.586.2925.

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# What does this chart mean? MCLG - Maximum Contaminant Le

- MCLG Maximum Contaminant Level Goal, or 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.

  MCL Maximum Contaminant Level, or 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. To understand the possible health effects described for many regulated constituents, as person would have to drink 2 liters of water every day at the MCL level for a lifetime to have a one-in-a-million chance of having the described hould have to drink 2 liters of water every day at the MCL level for a lifetime to have a one-in-a-million chance of having the described
- health effect.

  MRDL: 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 the 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.

  AL Action Level, or the concentration of a contaminant which, when exceeded, triggers treatment or other requirements which a water system.
- must follow
- Parts per million (ppm) or Milligrams per liter (mg/l) explained as a relation to time and money as one part per million corresponds to one minute in two years or a single penny in \$10,000.

  Parts per billion (ppb) or Micrograms per liter, explained as a relation to time and money as one part per billion corresponds to one minute 2,000 years, or a single penny in \$10,000,000.

  Mephelometric Turbidity Unit (NTU) nephelometric turbidity unit is a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person. - explained as a relation to time and money as one part per billion corresponds to one minute in

	Chlorine	Contaminant	Total Organic Carbon <sup>2</sup>	Haloucetic Acids (HAA5)	[Total tribalomethanes]	Sodium	Lead*	Fluoride	Copper*	Turbidity'	Total Coliform Bacteria	Contaminant
	No	Violation Yes/No	No	No	No	No	No	N <sub>o</sub>	S.	No	No	Yes/No
avg.	1.5	Found		13.1 avg.	33.7 avg.	7.9	90 <sup>m</sup> <sub>0</sub> =	1.0	90 <sup>th</sup> o <sub>0</sub> =	0.27	0	Level
	1.0-2.0	Range of Detections		1.0-84.0	5.0-20.0			0.88-1.0				Range of Detections
	2009	Date of Sample	2009	2009	2009	2009	2008	2009	2008	2009	2009	Date of Sample
	ppm	Unit	ppm	ppb	ppb	ppm	ppb	ppm	mdd	NTU		Unit Measurement
	4	MRDLG	II	N/N	n/a	N/A	0	4	Į,	n/a	0	MCLG
	4	MRDL	TT	60	80	N/N	AL=15	4	AI=1.3	II	presence of coliform bacteria in 5% of monthly samples	MCL
control microbes.	Water additive used to	Likely Source of Contamination	Naturally present in the environment	By-product of drinking water disinfection.	By-product of drinking water chlorination	Erosion of natural deposits; used in water treatment	Corrosion of household plumbing systems, erosion of natural deposits	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories	Corrosion of household plumbing systems, erosion of natural deposits; leaching from wood preservatives	Soil runoff	Naturally present in the environment	Likely Source of Contamination

<sup>\*</sup>During the most recent round of Lead and Copper testing, 0 out of 30 households sampled contained concentrations exceeding the action level.

1100% of our samples were below the turbidity limit.

2We have met all treatment technique requirements for Total Organic Carbon removal.