



WATER AUTHORITY OF DICKSON COUNTY

WATER QUALITY REPORT

2008

Is my drinking water SAFE?

Yes, your drinking water is safe. Water treated and distributed by the Water Authority of Dickson County (WADC) meets all the Environmental Protection Agency's (EPA) health standards. In 2008, we conducted tests for more than 80 contaminants that might be found in drinking water. As you will see on the attached chart, there were only 11 contaminants found in our water supply, and they were at levels determined safe by the EPA. The state and the EPA also require that we test our water and report the findings on a regular basis to ensure that safety and quality standards are achieved. The Water Authority of Dickson County always meets each of these requirements. We continually strive to maintain and improve the water you drink because our families drink it, too.

Where does our WATER come from?

Your water, surface water, comes either from the Piney River, Turnbull Creek, or the Cumberland River. Our goal is to protect our water from contaminants, and we are working with the state to determine the vulnerability of our water supplies to contamination. WADC, along with 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 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, moderately, or slightly susceptible, based on geologic factors and human activities in the vicinity of the water source. The WADC system has been 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 can be viewed online at <http://tn.gov/environment/dws/dwassess.shtml>, or you may contact WADC to obtain copies of specific assessments. A source water assessment has been developed and is available for review at WADC's Dickson Water Treatment Plant located at 206 West Chestnut Street, during normal business hours.

Is the water system SECURE?

Following the events of September 11, 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, tanks, fire hydrants, etc, to (615) 441-9511.

What are the HEALTH impacts of our water?

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised people can be particularly at risk for infections. This includes those undergoing chemotherapy, people who have undergone organ transplants, people with HIV-AIDS or other immune system disorders, some elderly and infants. These people should seek advice from a health care provider about their drinking water. More information about EPA guidelines on appropriate means to lessen the risk of infection by Cryptosporidium or other microbial contaminants and potential health effects can be obtained by calling the EPA's Safe Drinking Water Hotline, 800-426-4791.

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. Community water systems are required to disclose the detection of contaminants, however bottled water companies are not required to comply with this regulation. The presence of contaminants does not necessarily indicate that water poses a health threat. Because all water contains dissolved contaminants, occasionally your water may exhibit slight discoloration. We strive to maintain the standard to prevent this, and we work around the clock to provide top quality water to every tap. We ask our customers to help us protect our water sources, which are the heart of our community, our way of life, and our children's future. More information may be obtained by calling the EPA Safe Drinking Water Hotline, 800-426-4791.

For more information about your drinking water, please call Michael Chandler at 615-441-9511.

Este informe contiene informacion muy importante. Traduscalo o hable con algien que lo entienda bien.

The Water Authority of Dickson County Board of Commissioners meets on the second Monday of each month at 6:00 pm at our 101 Cowan Road facility. Please feel free to participate in these meetings. WADC's Board is comprised of two (2) members appointed by the Dickson County Mayor, two (2) members appointed by the Mayor of Dickson, and one (1) member appointed by the other four (4) Board members. The five (5) members serve staggered terms. All governmental powers of WADC are exercised by the WADC Board of Commissioners. All decisions by the Board on customer complaints may be reviewed by the Utility Management Review Board pursuant to Tennessee Code Annotated, Section 7-82-702(7).

To understand the possible health effects of many of the contaminants, a person would have to drink two liters of water at the MCL for a lifetime to have a one in one million chance of having the described health effects.

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. The Water Authority of Dickson County 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 the water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your tap 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>. During sampling conducted in 2008 it was found that none of the 30 WADC representative sites sampled had lead or copper exceeding the action level.

About the DATA

The data presented in the following table represents testing done between January 1, 2008 and December 31, 2008. WADC monitors for some contaminants less than once per year. For those contaminants the date of the last sample is shown in the table.

CONTAMINANT	VIOLATION YES/NO	LEVEL DETECTED	RANGE OF DECTECTIONS	DATE OF SAMPLE	UNIT OF MEASURE	MCLG	MCL	LIKELY SOURCE OF CONTAMINANT
Turbidity	Yes*	0.10		2008	NTU	N/A	TT	Soil runoff
Total Organic Carbon	No	1.8	0.05-1.8	2008	ppm	N/A	TT	Soil runoff
Total Coliform	No	0		2008		0	<2	Normally present in environment
Bacteria								
INORGANIC CONTAMINANTS								
Chlorine	Yes**	2.83 AVG	2.6-3.5	2008	ppm	4.0	4.0	Additive used to control microbes
Fluoride	No	1.10	0.81-1.10	2008	ppm	4.0	4.0	Natural deposits Additive promotes strong teeth
Nitrate	No	0.30	BDL-0.69	11/12/2008	ppm	10.0	10.0	Soil runoff from fertilizer
Sodium	No	7.9	5.2-12.0	5/14/2008	ppm	N/A	N/A	Erosion of natural deposits
VOLATILE CONTAMINANTS								
Total Trihalomethanes	No	48 AVG	17-98 ppb	2008	ppb	80 ppb	80 ppb	By-product of chlorination
Haloacetic Acid	No	27 AVG	8-51 ppb	2008	ppb	60 ppb	60 ppb	By-product of chlorination
LEAD AND COPPER								
Lead	No	1.5***		2008	ppb	0	AL-15	Corrosion of plumbing Natural deposits
Copper	No	.13***		2008	ppm	1.3	AL-1.3	Corrosion of plumbing Natural deposits Leaching of wood preservatives

* On May 26, 2007, January 26, 2008, and April 3, 2008, operators failed to collect grab samples during three 15-minute periods while combined turbidimeter was out of service.

** On January 18, 2008, operators failed to collect grab samples during a 30-minute period while recording equipment was out of service.

*** 90th percentile

AL- Action Level- the concentration of contaminant which, when exceeded, triggers treatment or other requirements which the water system must follow.

BDL- Below Detection Limit

MCLG- Maximum Contaminant Level Goal- the level of a contaminant in drinking water below which there is no known or expected risk to health.

MCL- Maximum Contaminant Level- the highest level of a contaminant that is allowed in drinking water.

MDRL-Maximum Disinfection Residual Level Goal- the level of drinking water disinfection below which there is no known or expected risk to health.

MDRL- Maximum Disinfection Residual Level- the highest level of a disinfectant allowed in drinking water.

N/A- Not Applicable

NTU- Nephelometric Turbidity Unit – measure of the clarity of water.

PPB- Part Per Billion (e.g., one penny in ten million dollars)

PPM- Part Per Million (e.g., one penny in ten thousand dollars)

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

Turbidity- does not present any risk to your health. WADC monitors turbidity, the measure of the cloudiness of water, because it is a good indicator that the filtration system is functioning properly.