

2010 WATER QUALITY RESULTS

SUBSTANCE	YEAR TESTED	VIOLATION YES/NO	HIGHEST LEVEL ALLOWED (MCL)	HIGHEST DETECTED LEVEL	UTILITY RANGE	EPA MCLG (EPA GOAL)	SOURCES OF CONTAMINANT
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MICROBIOLOGICAL CONTAMINANTS							
Total Coliform	2010	No	5%	0	0	0	Naturally present in the environment
Turbidity (NTU)	2010	No	0.3	0.46	0.04-0.46	NA	Soil runoff

INORGANIC CHEMICALS							
Free Chlorine (ppm)	2010	No	4 MRDL	1.7	0.4-1.7	4 MRDLG	Additive used to control microbes
Fluoride (ppm)	2010	No	4	1.2	0.8-1.2	4	Additive to promote strong teeth; discharge from fertilizer and aluminum factories; erosion of natural deposits
Nitrate (as N) (ppm)	2010	No	10	5.8	2.4-5.8	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Chlorine Contact (CT)	2010	No	NA	36.4	11.1-36.4	>1	

ORGANIC CONTAMINANTS							
Total Trihalomethane (TTHM) (ppb)	2010	No	80	47 RAA	32-70	NA	Byproduct of treatment process
Total Haloacetic Acids (HAA5) (ppb)	2010	No	60	16	12-19	NA	Byproduct of treatment process
Di(2-ethylhexyl)adipate (ppb)	10/2009	No	6	0.9	0.9	0	Discharge from rubber and chemical factories

UNREGULATED CONTAMINANTS							
Sodium (ppm)	2010	No	NA	9.1	NA	NA	Erosion of natural deposits; added to water during treatment process

DISINFECTANT							
Chlorine (ppm)	2010	No	4	1.1 RAA	0.5-1.6	4	Byproduct of drinking water disinfection

SOURCE WATER	VIOLATION YES/NO	% REMOVAL RANGE	% REMOVAL REQUIRED	SOURCES OF CONTAMINANT
TOTAL ORGANIC CARBON	No	18-43%	15%	Naturally present in the environment
Alluvial Wells	No			

SUBSTANCE	YEAR TESTED	VIOLATION YES/NO	ACTION LEVEL	MAXIMUM 90% DETECTION	UTILITY RANGE	# SAMPLES ABOVE ACTION LEVEL	SOURCES OF CONTAMINANT
COPPER AND LEAD - Regulated at Customer Tap							
Copper (ppm)	2010	No	1.3	0.0325	0-0.0495	0 of 30	Corrosion of home plumbing; erosion of natural deposits
Lead (ppb)	2010	No	15	5	0-27	1 of 30	Corrosion of home plumbing; erosion of natural deposits
Lead (ppb)	2010	No	15	6*	0-27	1 of 30	Corrosion of home plumbing; erosion of natural deposits

*95% Detection. NOTE: The EPA requires monitoring of over 80 drinking water contaminants. Those listed above are the only contaminants detected in your drinking water. For a complete list, contact the City or Boone Water Works.

Definitions

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

Inorganic Chemicals Chemical substances of mineral origin, such as lead and copper.

Maximum Contaminant Level (MCL) The highest level of a contaminant allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

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

Maximum Residual Disinfectant Level (MRDL) 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.

Maximum Residual Disinfectant Level Goal (MRDLG) 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.

Microbiological Contaminants Very small organisms, such as bacteria, algae, virus, plankton, and fungi.

NA Not applicable.

ND Not detected at testing limit.

NTU Nephelometric Turbidity Units.

Organic Contaminants Naturally occurring or synthetic substances containing mainly carbon, hydrogen, nitrogen, and oxygen. This includes most pesticides and industrial chemicals.

PCN Picocuries per liter.

ppb Parts of contaminant per billion parts of water. One part per billion (ppb) is equivalent to a single penny in ten million dollars. "PPB" may also be referred to as µg/l or micrograms per liter.

ppm Parts of contaminant per million parts of water. One part per million (ppm) is equivalent to a single penny in ten thousand dollars. "PPM" may also be referred to as mg/l or milligrams per liter.

RAA Running Annual Average

Radionuclides Contaminants giving off ionizing radiation.

TOC Total organic carbon in untreated water.

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

Chlorine Disinfectant

The most common drinking water treatment is disinfection. Disinfection is considered to be the primary mechanism to kill bacteria and other germs to prevent the spread of waterborne diseases. Chlorine is the most widely used disinfectant.

Disinfectants combine with organic and inorganic matter present in water to form chemicals called disinfection byproducts. EPA sets standards for controlling the levels of disinfectants and disinfectant byproducts in drinking water. The chart above reflects these standards and the utility's ability to meet those standards.

Fluoride

Some fluoride is naturally present in the source water. The amount is carefully monitored every day so optimum concentration is maintained. If you have concerns about fluoride, you should discuss this topic with your dentist and doctor.

Nitrate

Nitrate in drinking water at levels above 10 ppm is a health risk for infants less than 6 months of age. High nitrate levels in drinking water can cause blue baby syndrome. Nitrate levels may rise quickly for short periods of time because of rainfall or agriculture activity. If you are caring for an infant, you should ask advice from your healthcare provider.

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. City of Boone Water Works 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://water.epa.gov/drink/lead>.

TTHMs (Total Trihalomethanes)

Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous system and may have an increased risk of getting cancer.

Unregulated Contaminants

EPA requires systems of our size to take samples in an assessment monitoring phase for Unregulated Contaminant Monitoring Regulations (UCMR). There were no detectable levels in our drinking water. For more information about unregulated contaminants, please contact us at (515) 433-0536.

DRINKING WATER AND HEALTH INFORMATION FROM THE EPA

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 from infections. These people should seek advice about drinking water from their health care providers. EPA Center for Disease Control guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. Nitrate in drinking water at levels above 10 ppm is a health risk for infants of less than six months of age. High nitrate levels in drinking water can cause blue baby syndrome. Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity. If you are caring for an infant, you should ask for advice from your health care provider.

FDA regulations establish limits for contaminants in bottled water that must provide the same protection for public health. Any bottled water that is labeled "drinking water" has to meet EPA's drinking water regulations. 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 Environmental Protection Agency's (EPA) Safe Drinking Water Hotline.

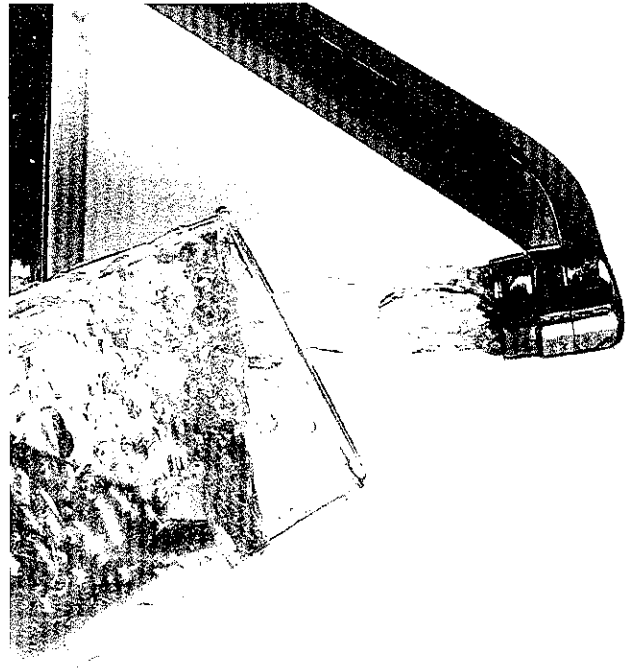
EPA Safe Drinking Water Hotline:

1-800-426-4791

<http://water.epa.gov/drink>

AWWA Safe Drinking Water Web Site:

www.drinktap.org



Additional Information
For more information on this *Consumer Confidence Report* or other water quality concerns, please contact:

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Public Meeting Information

The Boone City Council meets at 7:00 p.m. on the first and third Monday of each month at the Boone City Hall. Inquiries may be directed to:

City of Boone

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