



**2011 Annual Drinking
WATER QUALITY REPORT
(Consumer Confidence Report)**

**FOR
BARTONVILLE WATER SUPPLY CORPORATION
817-430-3541
www.bartonvillewater.com**

**Bartonville Water Supply Corporation's Drinking Water: Quality You
Can Count On**

Bartonville Water Supply Corporation (BWSC) is pleased to present our **2011 Drinking Water Quality Report**. This report is designed to inform you about the quality of your drinking water and the services we deliver to you every day.

Our constant goal is to provide you with a safe and dependable supply of drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your drinking water.

BWSC's current water sources consist of nine (9) wells that are often referred to as ground (below the surface) water and treated water we purchase from the Upper Trinity Regional Water District (UTRWD). UTRWD's water comes from lakes and goes through an extensive treatment process prior to distribution to its customers. BWSC principally provides water service to 2,126 connections in a 20+ square mile area which includes the Towns of Bartonville, Double Oak, Copper Canyon and some unincorporated portions of south central Denton County. A Source Water Susceptibility Assessment for your drinking water source(s) is currently being updated by the Texas Commission on Environmental Quality. This information describes the susceptibility and types of constituents that may come into contact with your drinking water source based on human activities and natural conditions. The information contained in the assessment will allow us to focus our source water protection strategies. For more information on source water assessments and protection efforts at our system, please contact us.

Your Drinking Water Meets or Exceeds All Federal (EPA) Drinking Water Requirements

BWSC's Board of Directors and Staff are pleased to report that our "Superior" rated drinking water system is safe and meets federal and state requirements. As required by the U.S. Environmental Protection Agency (EPA), the Texas Commission on Environmental Quality (T.C.E.Q.) has assessed our system and made this determination. The analysis was made by using the data from the most recent U.S. EPA required tests and is presented in the attached pages. However, if you have any questions about this report or any other issue concerning your water utility, please contact Jim Leggjieri, General Manager or Eric Laird, Water Superintendent for the corporation. They can be reached by calling the office at (817) 430-3541. We want you to be informed about your water quality.

Public Participation Opportunities

If you want to learn more about BWSC, please attend any of our regularly scheduled meetings or call our office to request to schedule one. Unless rescheduled, the Board of Directors meetings are held at 7:00 p.m. on the second Monday of every month at the office at 1911 E. Jeter Rd. in Bartonville, TX, 76226. All meeting agendas, with time and date, are posted at the office. If you have questions or comments, please call the office at (817) 430-3541. You may also visit our web site at www.bartonvillewater.com for more information.

SPECIAL NOTICE

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/CDC guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

Bartonville WSC: The Future

In our continuing efforts to maintain a safe and dependable water supply, BWSC is now constructing specific system improving capital projects necessary to deliver superior service to our customers. For additional news and information, you can visit us at www.bartonvillewater.com or read our quarterly newsletter.

Commitment

Bartonville Water Supply Corporation is committed to excellence in all that we do. Now and in the future, the Board of Directors and Staff will continue to strive for excellence in water quality and service. We endeavor to produce superior results and ask that our members help us protect our water sources, which are the heart of our community, our way of life, and our children's future.

If there are any questions pertaining to this report or the BWSC system, please contact the office at (817) 430-3541.

Assurance of Quality in Our Drinking Water

Sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. All of these sources, including bottled drinking water, may reasonably be expected to contain at least small amounts of some contaminants or constituents. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and can pick up substances resulting from the presence of animals or from human activity (pesticides & herbicides from agriculture, etc.) and in some cases radioactive material. Contaminants that may be present in source water before treatment include: microbes, inorganic contaminants, and organic chemical contaminants. In order to insure that tap water is safe to drink, the EPA prescribes regulations that limit the amount of certain substances in water provided by public water systems.

The FDA also regulates bottled water but not as closely as the EPA regulates public water supplies. It is important to remember that the presence of constituents does not necessarily indicate that the water poses a health risk. Maximum Contaminant Levels (MCL's) are set at very stringent levels. To understand the possible health effects described for many regulated constituents, a person would need to drink two (2) liters of water everyday at the MCL level for a lifetime to have a one-in-a-million chance of having the described health effect. Many constituents (such as calcium, sodium, or iron) that are often found in drinking water can cause taste, color, and odor problems. The State of Texas, not the EPA, regulates the taste and odor, called **secondary constituents**. These constituents are not causes for health concerns. Therefore, **secondary constituents** are not required for this report but they may greatly affect the appearance and taste of your water. **Remember**, when drinking water meets federal standards there may not be any health-based benefits to purchasing bottled water or point of use devices. More information about contaminants and potential health effects can be obtained by calling the **Environmental Protection Agency's Safe Drinking Water Hotline at (1-800) 426-4791**.

BWSC routinely monitors the constituents in your drinking water according to Federal and State laws. The tables in this report show the results of our monitoring in accordance with regulations for the period of January 1, 2011 through December 31, 2011.

Water Constituents Detected for 2011

Bartonville Water Supply Corporation's well water and the treated surface water purchased from the Upper Trinity Regional Water District & Highland Village, Texas (via UTRWD) were each tested for up to the 97 possible federally regulated or monitored constituents with no violations noted. The results are listed in the following Table I (BWSC) and Table II (UTRWD/HV)

**TABLE I
Bartonville Water Supply Corporation**

Inorganic Contaminants

TCEQ Year or Range Sampled	Contaminant	Range of Levels	Min Level	Max Level	MCL	MCLG	Unit of Measure	Source of Contaminant
2010	Fluoride	0.29-1.68	0.29	1.68	4.0	4	ppm	Erosion of natural deposits, water additive that promotes strong teeth; discharge from fertilizer and aluminum factories.
2010	Nitrate {measured as Nitrogen}	0-0.52	0	0.52	10	10	ppm	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits.
2010	Barium	0.0271-0.0621	0.0271	0.0621	2	2	ppm	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits.
2010	Arsenic	0.858 - 1.62	0.858	1.62	10	0	ppb	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes.
2010	Chromium	0.453-1.98	0.0453	1.98	100	100	ppb	Discharge from steel and pulp mills; Erosion of natural deposits.
2010	Selenium	1.18-2.59	1.18	2.59	50	50	ppb	Discharge from petroleum and metal refineries; Erosion of natural deposits; Discharge from mines.
2010	Thallium	0.035-0.06	0.035	0.06	2	0.5	ppb	Discharge from electronics; glass, and Leaching from ore-processing sites; drug factories.
2010	Beryllium	0-0	0	0	4	4	ppb	Discharge from metal refineries and coal burning factories; etc.
2010	Cadmium	0-0	0	0	5	5	ppb	Corrosion of galvanized pipes; erosion of natural deposits; etc.
2010	Antimony	0-0	0	0	6	6	ppb	Discharge from petroleum refineries; fire retardants; ceramics; electronic; solder.

Organic Contaminants and Radioactive Contaminants*

Year	Contaminant	Range of Levels	Min Level	Max Level	MCL	MCLG	Unit of Measure	Source of Contaminant
2010	Atrazine	0.12-0.12	0.12	0.12	3	3	ppb	Runoff from herbicide used on row crops.
2010	Beta/photon emitters*	0-6.7	0	6.7	4	0	mrem/yr	Decay of natural and man-made deposits.
2010	Xylenes	0 - 0.00068	0	0.00068	10	10	ppm	Discharge from petroleum and chemical factories.

Maximum Residual Disinfectant Level

Year	Disinfectant	Avg Level	Min Level	Max Level	MRDL	MRDLG	Unit of Measure	Source of Disinfectant
2011	Chloramine Residual/Free Residual	1.07	0.5	2.3	4	<4	ppm	Disinfectant used to control microbes.

Unregulated Initial Distribution System Evaluation for disinfection by-products -- waived or not yet sampled.

Disinfectant By-Products

Year	Contaminant	Range of Levels	Min Level	Max Level	MCL	Unit of Measure	Source of Contaminant
2010	Haloacetic Acids(HAA5)*	1.9-4.7	1.9	3	60	ppb	By-product of drinking water disinfection.
2010	Total Trihalomethanes (TThm)*	0-32.2	0	20	80	ppb	By-product of drinking water disinfection.

*Not all sample results may have been used for calculating the Highest Level Detected because some results may be part of an evaluation to determine where compliance sampling should occur in the future

Lead and Copper "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. This water supply is responsible for providing high quality drinking water however we 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>."

Year	Contaminant	The 90th Percentile	Number of Sites Exceeding Action Level	Action Level	Unit of Measure	Source of Contaminant
2010	Lead	2.25	0	15	ppb	Corrosion of household plumbing systems; erosion of natural deposits.
2010	Copper	0.32	0	1.3	ppm	Corrosion of household plumbing systems; erosion of natural deposits, leaching from wood preservatives.

Total Coliform - There were No Total Coliform detections for this system in this CCR period.

Fecal Coliform - Reported Monthly Tests for 2011 Found No (0) Fecal Coliform Bacteria.

TABLE II
Upper Trinity Regional Water District Purchased Treated Surface Water

Date	Substance	Max Amount in UTRWD Water	Range in UTRWD Water	MCL	MCLG	Possible Source
Regulated at the Treatment Plant						
6/20/2011	Fluoride (ppm)	0.28	N/A	4.0	4.0	Water additive; natural geology.
6/20/2011	Nitrate (ppm)	0.45	N/A	10.0	10.0	Fertilizer runoff; septic tanks; wastewater plant effluent; animal waste runoff.
10/2011	Turbidity (ntu)	0.14	0.04-0.14	0.3*	N/A	Soil runoff.
<i>*Treatment Technique: MCL is achieved through coagulation, flocculation and filtration.</i>						
Regulated in the Distribution System						
7/27/2011	Total THM's (ppb)	44	25-44	80	0	Disinfection by-product.
1/26/2011	Total HAA's (ppb)	9.8	4.1-9.8	60	0	Disinfection by-product
Radioactive Contaminants						
6/9/2009	Beta Emitters (pCi/L)	2.3	N/A	50	0	Decay of natural and man-made deposits.
6/9/2009	Alpha Emitters (pCi/L)	0.6	N/A	15	0	
6/9/2009	Radium 228 pCi/L	0.76	N/A	5	0	
Unregulated Contaminants & Synthetic Organic Chemicals Including Pesticides & Herbicides*						
4/29/08	N-nitrosodimethylamine (ppb)	0.0028	0.0025-0.0028	NA	NA	Nitrosamines are chemical byproducts from the manufacture of numerous products including rubber, leather, plastics. Foods such as bacon and malt beverages may also contain nitrosamines.
4/26/2011	Atrazine (ppb)	0.27	N/A	3	3	Herbicide runoff.

Definitions:

- **EPA** - Environmental Protection Agency
- **FDA** - Food and Drug Administration
- **Parts per million (ppm) or Milligrams per liter (mg/l)** - 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 -** One part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.
- **Million Fibers per Liter (MFL)** - Million fibers per liter is a measure of the presence of asbestos fibers that are longer than 10 micrometers.
- **Nephelometric 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.
- **Picocuries per Liter (pCi/L)** - a measure of radioactivity.
- **Treatment Technique (TT)** - A treatment technique is a required process intended to reduce the level of a contaminant in drinking water.
- **Maximum Contaminant Level (MCL)** - The highest permissible level of a contaminant 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. MCLGs allow for a margin of safety.
- **Maximum Residual Disinfectant Level (MRDL)** - The highest level of disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.
- **Treatment Technique (TT)*** - A required process intended to reduce the level of a contaminant in drinking water.
- **Action Level (AL)** - The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
- **Turbidity** - Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease - causing organisms. These organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, diarrhea and associated headaches.

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