

Facts about your drinking water from Bryan Municipal Water Department

We are pleased to provide you with our Ninth Annual Water Quality Report. This report is designed to provide information to you, the consumer, on the quality of the drinking water we supply. We hope it helps you understand the efforts we make to continually provide a fresh, safe and abundant supply of water. This report contains general health information, water quality test results, and contacts for water department personnel.

Water Quality Report

2006 Monitoring Data

Ninth Annual

The Source of Your Water

Bryan was founded in 1840 and quickly became known as the “Fountain City” due to its many flowing artesian wells. An artesian well has naturally occurring pressure that pushes the water upward like a fountain. Your drinking water today still comes from artesian wells. Currently, seven artesian wells provide Bryan with water. They are distributed around the northeast corner of the City.

We are extremely dependent on our groundwater supply and therefore must protect it from contamination. To do this, we have prepared a Well Head Protection Plan. Preparation of this plan included determining where the groundwater



Fountain in Bryan’s Central Park

that supplies our system comes from, identifying activities that have the potential to pollute the groundwater, and developing a management strategy to protect the area from contamination. Part of the plan included the installation of signs around the area to alert motorists that they are entering a groundwater protection area and to please report spills. Anyone wishing to view this plan may do so by contacting us.

The Safe Drinking Water Act amendments of 1996 established the Federal Source Water Protection and Assessment Program (SWAP), which requires that a “source water assessment” be completed for all public water systems. Source water assessments are similar to wellhead protection plans with the additional requirement of a susceptibility analysis. The Ohio Environmental Protection Agency has completed a susceptibility analysis for the City of Bryan and it is summarized in the following paragraph.

The aquifer that supplies drinking water to the City of Bryan has a moderate susceptibility to contamination, due to the sensitivity of the aquifer in which the drinking water wells are located and the existence of several potential contaminant sources within the protection zone. This does not mean that the wellfields will become contaminated, only that conditions are such that the ground water could be impacted by

potential contaminant sources. Future contamination may be avoided by implementing protective measures. More information is available by calling the water department at 419-633-6100 or the Ohio Environmental Protection Agency at 614-644-3020.

Potential Sources of Contamination to Drinking Water

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. It can also pick up substances resulting from the presence of animals or from human activity.

Contaminants that may be present in source water include:

- A) **Microbial contaminants**, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife
- B) **Inorganic contaminants**, such as salts and metals, which can be naturally occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming
- C) **Pesticides and herbicides**, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses
- D) **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 storm water runoff, and septic systems
- E) **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 prescribes regulations, which limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water, which must provide the same protection for public health.

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 at 1-800-426-4791.

Health Information

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised persons such as persons with cancer or 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 infection. 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 at 1-800-426-4791.

Infants and young children are typically more vulnerable to lead in drinking water than the general population. It is possible that lead levels in your home may be higher than at other homes in the community as a result of materials used in your home's plumbing. If you are concerned about elevated lead levels in your home's water, you may wish to have your water tested and flush your tap for thirty seconds to two minutes before using tap water. Additional information is available from the Safe Drinking Water Hotline at 1-800-426-4791.

Visit our Web site at www.cityofbryan.net

The Environmental Protection Agency requires regular sampling to ensure drinking water safety. Bryan Water Department conducted all required sampling and **met or exceeded all federal and state standards** for safe drinking water. The following chart contains information on contaminants that were found in the City of Bryan’s drinking water. Some contaminants are monitored less than once per year, because their concentration does not change frequently. Therefore, some of our data are more than one year old.

Table of Detected Contaminants

Contaminants (units)	MCLG	MCL	Level Found	Range of Detections	Violation	Sample Year	Typical Source of Contaminants
Inorganic Contaminants							
Barium (ppm)	2	2	0.41	NA	No	2004	Erosion of natural deposits; Discharge from metal refineries; Discharge of drilling wastes
Chromium (ppm)	0.1	0.1	0.016	NA	No	2004	Discharge from steel and pulp mills; Erosion of natural deposits
Fluoride (ppm)	4	4	1.1	NA	No	2004	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
Copper (ppm)	1.3	AL = 1.3	0.51	NA	No	2005	Corrosion of household plumbing systems; Erosion of natural deposits
Lead (ppb)	0	AL = 15	7.2	NA	No	2005	Corrosion of household plumbing systems; Erosion of natural deposits
	Two of twenty samples were found to have lead in excess of the Action Level of 15 ppb.						
Volatile Organic Contaminants							
Bromoform (ppb)	NA	NA	0.7	NA	No	2004	By-product of drinking water chlorination
Bromodichloromethane (ppb)	NA	NA	3.8	NA	No	2004	By-product of drinking water chlorination
Chloroform (ppb)	NA	NA	3	NA	No	2004	By-product of drinking water chlorination
Dibromochloromethane (ppb)	NA	NA	3.4	NA	No	2004	By-product of drinking water chlorination
Total Trihalomethanes (ppb)	NA	80	34.5	NA	No	2006	By-product of drinking water chlorination
Residual Disinfectants							
Total Chlorine (ppm)	MRDL=4	MRDLG=4	0.6	.4-.7	No	2006	Water additive used to control microbes

Definitions of terms contained in the above chart -

MCLG - Maximum Contaminant Level Goal is the level of a contaminant in drinking water which below there is no known or expected risk to health. MCLGs allow for a margin of safety. NA in this column denotes the contaminant is not yet fully regulated.

MCL - Maximum Contaminant Level is 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.

MRDL - Maximum Residual Disinfectant Level is the highest level allowed.

MRDLG - Maximum Residual Disinfectant Level Goal is the level at which below there is no known or expected risk to health.

ppm - Parts per Million or Milligrams per Liter (mg/L) are units of measure for concentration of a contaminant. A part per million corresponds to 1second in a little more than 11.5 days.

ppb - Parts per Billion or Micrograms per Liter (ug/L) are units of measure for concentration of a contaminant. A part per billion corresponds to 1 second in 31.7 years.

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

NA - Not Applicable

Public Participation

Public participation is encouraged at regular meetings of the Board of Public Affairs (B.P.A.), on the first and third Tuesdays of each month. Meetings are held in the boardroom at 841 East Edgerton Street and begin at 7:00 p.m.



Standard Presort
U.S. Postage
Paid
Bryan, OH
Permit No. 128

**BRYAN MUNICIPAL UTILITIES
841 EAST EDGERTON STREET
BRYAN OH 43506**

Postal Customer
ECRWSS

Water Quality Report



**BRYAN MUNICIPAL
UTILITIES**

This report is our Ninth Annual Water Quality Report as required by the Environmental Protection Agency. Its purpose is to provide you with information about your drinking water.

The quality of your drinking water is monitored each and every day by state certified operators. These operators are dedicated to providing you with an ample supply of safe water. Additionally, the Environmental Protection Agency requires continuing education for operators to maintain their certification.

We hope that you take the time to read this report. If you would like additional information or are interested in a tour of the water facilities, please contact us and we will be happy to assist you.

For more information on your drinking water, contact Water Superintendent, Norm Echler, at 419-633-6100, Water Treatment Plant personnel at 419-633-6160, or e-mail us at water@cityofbryan.com.