

2011 Drinking Water Quality Report



This report provides a summary of the quality of drinking water provided by City of College Station Water Services. The water quality test results shown are required by the Texas Commission on Environmental Quality (TCEQ). Annual Drinking Water Quality Reports such as this one are required of every public water system to provide information to their water customers as stated in the 1996 Safe Drinking Water Act Amendments. **Your College Station drinking water system is rated "Superior" by the TCEQ and meets all state (TCEQ) and federal (EPA) standards.**

Special Notice for the ELDERLY, INFANTS, CANCER PATIENTS, and people with HIV/AIDS or other immune problems:

If you fall into one of these populations, you may be more vulnerable to certain microbial contaminants, such as Cryptosporidium, in drinking water. Infants, some elderly, or immuno-compromised persons such as those undergoing chemotherapy for cancer; those who have undergone organ transplants; those who are undergoing treatment with steroids; and people with HIV/AIDS or other immune system disorders can be particularly at risk from infections. You should seek advice about drinking water from your physician or health care provider. Additional guidelines on appropriate means to lessen the risk of infection by Cryptosporidium are available from the **Safe Drinking Water Hotline (1-800-426-4791)**.

Bottled water vs. tap 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. In fact, when drinking water meets federal standards, as College Station's water does, 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 **EPA Safe Drinking Water Hotline (1-800-426-4791)**.

But what about contaminants?

Contaminants may be found in drinking water that may cause taste, color, or odor problems. Occasionally water may become discolored due to a water line break. These types of problems are not necessarily causes for health concerns. For more information on taste, odor, or color of drinking water, please contact College Station Water Services at 979-764-3660.

Where do we get our 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, and can pick up substances resulting from the presence of animals or from human activity. Contaminants that may be present in source water before treatment include: microbes, inorganic contaminants, pesticides, herbicides, radioactive contaminants, and organic chemical contaminants.

College Station relies entirely on groundwater for its drinking water supply, pumping water from eight wells in the Carrizo-Wilcox Aquifer and one well in the Sparta Aquifer. A Source Water Susceptibility Assessment for your drinking water sources has been completed by the Texas Commission on Environmental Quality. This assessment 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 allows College Station Water Services to focus our source water protection strategies. Some of this source water assessment information is available on Texas Drinking Water Watch at <http://dww.tceq.state.tx.us/DWW/>.

Want more? Find us online!



Scan me with your smartphone
or go to cstx.gov/water.

UTILITY CUSTOMER SERVICE

Bill pay, connect / disconnect utilities

979-764-3535, 1-800-849-6623

epay.cstx.gov

Line breaks, sewer backups, power outages

979-764-3638 [24 hours]

Water presentations, field trips

979-764-6223

EN ESPAÑOL: Este informe incluye información importante sobre el agua potable. Si tiene preguntas o comentarios sobre este informe en español, favor de llamar al tel. 979-764-3433 - para hablar con una persona bilingüe en español.

2011 WATER QUALITY TEST RESULTS

Inorganic Contaminants

YEAR SAMPLED	SUBSTANCE	HIGHEST AVG. DETECTED	RANGE DETECTED	MCL	MCLG	VIOLATION? Y/N	POSSIBLE SOURCE(S) OF CONTAMINANT
2011	Fluoride	0.44 ppm	0.44 - 0.44 ppm	4 ppm	2 ppm	N	Water additive to promote strong teeth; erosion of natural deposits
2011	Barium	0.0807 ppm	0.0807 - 0.0807 ppm	2 ppm	2 ppm	N	Discharge of drilling wastes or metal refineries; erosion of natural deposits
2011	Nitrate	0.31 ppm	0.31 - 0.31 ppm	10 ppm	10 ppm	N	Runoff from fertilizer; leaching from septic tanks; erosion of natural deposits

Microbiological Contaminants ¹

Year Sampled	Total Coliform MCL	Total Coliform MCLG	Highest Monthly % of Positive Samples	Fecal Coliform or E. Coli MCL	Total No. of Positive E. Coli or Fecal Coliform Samples	Violation? Y/N	Possible Source(s) of Contaminant
2011	Presence in ≥ 5% of samples	0	0%	1 positive sample	0	N	Naturally present in the environment

Disinfectant Residual, Disinfection By-Products

YEAR SAMPLED	SUBSTANCE	HIGHEST AVG. DETECTED	RANGE DETECTED	MCL*	MCLG*	VIOLATION? Y/N	POSSIBLE SOURCE(S) OF CONTAMINANT
2011	Chlorine	1.67 ppm	0.9 - 1.91 ppm	4 ppm	2 ppm	N	Disinfectant used to control microbes
2011	Total Trihalomethanes (TTHM)	35.6 ppb	35.6 - 35.6 ppb	80 ppb	0 ppb	N	Byproduct of drinking water disinfection
2011	Haloacetic Acids (HAAS)	3.6 ppb	3.6 - 3.6 ppb	60 ppb	0 ppb	N	Byproduct of drinking water disinfection

Lead and Copper ²

YEAR SAMPLED	SUBSTANCE	90th PERCENTILE ³	ACTION LEVEL	VIOLATION Y/N	SITES EXCEEDING ACTION LEVEL	POSSIBLE SOURCE(S) OF CONTAMINANT
2009	Lead	1.8 ppb	15 ppb	N	0	Corrosion of household plumbing systems; erosion of natural deposits
2009	Copper	0.16 ppm	1.3 ppm	N	0	Corrosion of household plumbing systems; erosion of natural deposits

Secondary and Other Non-Regulated Contaminants ⁴

YEAR SAMPLED	SUBSTANCE	DETECTED LEVELS	UNITS	LIMIT
2011	Alkalinity (Bicarbonate)	432	mg/L	No recommendation
2011	Alkalinity (Total)	369	mg/L	No recommendation
2011	Carbonate	9	mg/L	No recommendation
2011	Phenolphthalein Alkalinity (as CaCO ₃)	8	mg/L	No recommendation
2011	Calcium	2.82	mg/L	No recommendation
2011	Chloride	52	mg/L	300
2011	Copper	0.0063	N/A	1
2011	Fluoride	0.44	mg/L	2
2011	Manganese	0.0066	mg/L	0.05
2011	pH	8.5	mg/L	> 7.0
2011	Sodium	193	mg/L	No recommendation
2011	Diluted Conductance	897	µmhos/cm	No recommendation
2011	Sulfate	9	mg/L	300
2011	Total Hardness (as CaCO ₃)	7.04	mg/L	No recommendation
2011	Total Dissolved Solids	513	mg/L	1,000

This report is a summary of the quality of the water we provide our customers. The analysis was made using data from the most recent U.S. Environmental Protection Agency (EPA) required tests and is presented below. Our drinking water meets or exceeds all federal (EPA) drinking water requirements.

¹ Total coliform bacteria are not disease-causing organisms themselves, but they are often found in association with other microbes that are capable of causing disease. They are used as indicators of microbial contamination of drinking water because their absence from water is a good indication that the water is microbiologically safe for human consumption. In 2011, a total of 1,212 samples, at least 101 per month, were collected by Environmental Services personnel and analyzed by the Brazos County Health Department. Out of these 1,212 samples, **NOT ONE SAMPLE** tested positive for Total Coliform Bacteria. In addition, Fecal Coliform Bacteria was not detected in any of these monthly tests.

² 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, 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>.

³ College Station's water does not exceed the Action Level for Lead or Copper. 90% of College Station tap water samples measured at or below 1.8 parts per billion (ppb) for lead and 0.16 parts per million (ppm) for copper. The Environmental Protection Agency considers the 90th percentile the same as an "average" value for other contaminants.

⁴ Many constituents which are often found in drinking water can cause taste, color, and odor problems. The taste and odor constituents are called secondary constituents and are regulated by the State of Texas, not the EPA. These constituents are not causes for health concern but they may greatly affect the appearance and taste of your water.

Unregulated Contaminants

Our water system conducted unregulated contaminant monitoring with no detects reported. Unregulated contaminants are those for which EPA has not established drinking water standards. The purpose of unregulated contaminant monitoring is to assist EPA in determining the occurrence of unregulated contaminants in drinking water and whether future regulation is warranted.

Public Participation Opportunities

City Council Meetings | College Station City Hall
2nd & 4th Thursdays, 7 p.m. | call 979.764.3510

To learn about future public meetings (concerning your drinking water), or to request to schedule one, please call the City Secretary's Office at the number above, or College Station Water Services at 979.764.3660.

Definitions

The above tables contain scientific terms and measures, some of which may require explanation.

Action Level Goals (ALG): The level of a contaminant in drinking water below which there is no known or expected risk to health. ALGs allow for a margin of safety.

Action Level: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

Average or Avg: Regulatory compliance with some MCLs is based on running annual average of monthly samples.

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 health risk. MCLGs allow for a margin of safety.

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.

ABBREVIATIONS

N/A = not applicable
ppm = Parts per million, or milligrams per liter (mg/L). Equivalent to one ounce in 7,350 gallons of water.

ppb = Parts per billion, or micrograms per liter (µg/L). Equivalent to one ounce in 7,350,000 gallons of water.