

2006 Annual Drinking Water Quality Report

(Consumer Confidence Report)

CITY OF GLADEWATER

Phone No: 903-845-2196

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

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. The EPA/Centers for Disease Control and Prevention (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 (1-800-426-4791).

Public Participation Opportunities

Date: 3rd Thursday of every month at City Council Meeting

Time: City Hall

Location: 6 PM

Phone No: 903-845-2196

To learn about future public meetings (concerning your drinking water), or to request to schedule one, please call us.

OUR DRINKING WATER IS REGULATED

by the Texas Commission on Environmental Quality (TCEQ) and they have determined that certain water quality issues exist which prevent our water from meeting all of the requirements as stated in the Federal Drinking Water Standards. Each issue is listed in this report as a violation and we are working closely with the TCEQ to achieve solutions.

WATER SOURCES: 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.

En Español

Este informe incluye información importante sobre el agua potable. Si tiene preguntas o comentarios sobre éste informe en español, favor de llamar al tel. (903) 845 -2196 - para hablar con una persona bilingüe en español.

Where do we get our drinking water?

Our drinking water is obtained from SURFACE water sources. It comes from the following Lake/River/Reservoir/Aquifer: LAKE GLADEWATER. A Source Water Susceptibility Assessment for your drinking water sources(s) is currently being updated by the Texas Commission on Environmental Quality and will be provided to us this year. The report will describe 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.

ALL drinking water may contain contaminants.

When drinking water meets federal standards there may not be any health based benefits to purchasing bottled water or point of use devices. 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 EPA's Safe Drinking Water Hotline (1-800-426-4791).

Secondary Constituents

Many constituents (such as calcium, sodium, or iron) 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. Therefore, secondaries are not required to be reported in this document but they may greatly affect the appearance and taste of your water.

About The Following Pages

The pages that follow list all of the federally regulated or monitored contaminants which have been found in your drinking water. The U.S. EPA requires water systems to test for up to 97 contaminants.

DEFINITIONS

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 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 contamination.

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.

ABBREVIATIONS

NTU - Nephelometric Turbidity Units

MFL - million fibers per liter (a measure of asbestos)

pCi/L -picocuries per liter (a measure of radioactivity)

ppm - parts per million, or milligrams per liter (mg/L)

ppb - parts per billion, or micrograms per liter (µg/L)

ppt - parts per trillion, or nanograms per liter

ppq - parts per quadrillion, or picograms per liter

Inorganic Contaminants

Year or Range	Contaminant	Average Level	Minimum Level	Maximum Level	Measure		Source of Contaminant
2002	Barium	0.043	0.043	0.043	2	2	ppm Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits.
2006	Fluoride	0.6	0.6	0.6	4	4	ppm Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories.
2006	Nitrate	0.06	0.06	0.06	10	10	ppm Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits.

Organic Contaminants TESTING WAIVED, NOT REPORTED, OR NONE DETECTED

Maximum Residual Disinfectant Level

Systems must complete and submit disinfection data on the Surface Water Monthly Operations Report (SWMOR). On the CCR report, the system must provide disinfectant type, minimum, maximum and average levels.

Year	Disinfectant	Average Level	Minimum Level	Maximum Level	MRDL	MRDLG	Unit of Measure	Source of Chemical
2006	Chloramine	2.02	1.71	2.65	4.0	<4.0	ppm	Disinfectant used to control microbes.

Disinfection Byproducts

Year	Contaminant	Average Level	Minimum Level	Maximum Level	MCL	Unit of Measure	Source of Contaminant
2006	Total Haloacetic Acids	17.5	0	32	60	ppb	Byproduct of drinking water disinfection.
2006	Total Trihalomethanes	22.4	14.5	26.3	80	ppb	Byproduct of drinking water disinfection.

Unregulated Contaminants

Bromoform, chloroform, dichlorobromomethane, and dibromochloromethane are disinfection byproducts. There is no maximum contaminant level for these chemicals at the entry point to distribution.

Year or Range	Contaminant	Average Level	Minimum Level	Maximum Level	Unit of Measure	Source of Contaminant
2006	Chloroform	15.17	8.5	21	ppb	Byproduct of drinking water disinfection.
2006	Bromodichloromethane	3.5	2.5	4.3	ppb	Byproduct of drinking water disinfection.
2006	Dibromochloromethane	0.43	0	0.7	ppb	Byproduct of drinking water disinfection.

Lead and Copper

Year	Contaminant	The 90th Percentile	Number of Sites Exceeding Action Level	Action Level	Unit of Measure	Source of Contaminant
2004	Lead	6.5	1	15	ppb	Corrosion of household plumbing systems; erosion of natural deposits.
2004	Copper	0.2	0	1.3	ppm	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives.

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.						
Year	Contaminant	Highest Single Measurement	Lowest Monthly % of Samples Meeting Limits	Turbidity Limits	Unit of Measure	Source of Contaminant
2006	Turbidity	0.60	100.00	0.3	NTU	Soil runoff.

Total Organic Carbon

Total organic carbon (TOC) no health effects. The disinfectant can combine with TOC to form disinfection byproducts. Disinfection is necessary to ensure that water does not have unacceptable levels of pathogens. Byproducts of disinfection include trihalomethanes (THMs) and haloacetic acids (HAA) which are reported elsewhere in this report.						
Year	Contaminant	Average Level	Minimum Level	Maximum Level	Unit of Measure	Source of Contaminant
2006	Source Water	7.49	5.84	10.80	ppm	Naturally present in the environment.
2006	Drinking Water	4.82	3.61	6.06	ppm	Naturally present in the environment.
2006	Removal Ratio	40.01	27.0	51.6	% removal*	NA

*Removal ratio is the percent of TOC removed by the treatment process divided by the percent of TOC required by TCEQ to be removed.

Cryptosporidium Monitoring Information

The Texas Commission on Environmental Quality has not required the City of Gladewater to analyze for E. coli or Cryptosporidium in regards to the Long Term Stage 2 Enhanced Surface Water Treatment Rule.

Total Coliform: REPORTED MONTHLY TESTS FOUND NO COLIFORM BACTERIA.

Fecal Coliform: REPORTED MONTHLY TESTS FOUND NO FECAL COLIFORM BACTERIA.

VIOLATIONS

Violation Type	Health Effects	Duration	Explanation	Steps to Correct
MCL VIOLATION - TOTAL TRIHALOMETHANES (TTHM)	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 systems, and may have an increased risk of getting cancer.	1/1/2006 to 3/31/2006	Plant Design not meeting new limits	Switched to Chloramines

Secondary and Other Constituents Not Regulated

(No associated adverse health effects)

Year or Range	Constituent	Average Level	Minimum Level	Maximum Level	Secondary Limit	Unit of Measure	Source of Constituent
2006	Bicarbonate	26	26	26	NA	ppm	Corrosion of carbonate rocks such as limestone.
2002	Calcium	9.9	9.9	9.9	NA	ppm	Abundant naturally occurring element.
2006	Chloride	21	21	21	300	ppm	Abundant naturally occurring element; used in water purification; byproduct of oil field activity
2002	Magnesium	1.4	1.4	1.4	NA	ppm	Abundant naturally occurring element.
2006	pH	8.5	8.5	8.5	7	units	Measure of corrosivity of water.
2002	Sodium	5	5	5	NA	ppm	Erosion of natural deposits; byproduct of oil field activity.
2006	Sulfate	29	29	29	300	ppm	Naturally occurring; common industrial byproduct; byproduct of oil field activity.
2006	Total Alkalinity as CaCO ₃	21	21	21	NA	ppm	Naturally occurring soluble mineral salts.
2006	Total Dissolved Solids	121	121	121	1000	ppm	Total dissolved mineral constituents in water.
2002	Total Hardness as CaCO ₃	34	34	34	NA	ppm	Naturally occurring calcium.