

# 2007 Annual Drinking Water Quality Report

(Consumer Confidence Report)

**CRYSTAL CLEAR WSC**

Phone Number: 830-372-1031

***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:** June 17, 2008

**Time:** 9:00 AM

**Location:** 2370 FM 1979, San Marcos

**Phone Number:** 830-372-1031

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

## **Our Drinking Water Meets or Exceeds All Federal (EPA) Drinking Water Requirements**

This report is a summary of the quality of the water we provide our customers. The analysis was made by using the data from the most recent U.S. Environmental Protection Agency (EPA) required tests and is presented in the attached pages. We hope this information helps you become more knowledgeable about what's in your drinking water.

**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. (830) 372-1031 para hablar con una persona bilingüe en español.

## **Where do we get our drinking water?**

Our drinking water is obtained from SURFACE AND GROUND water sources. It comes from the following: Edwards & Carrizo Aquifers, Lake Dunlap on the Guadalupe River and the San Marcos River. A Source Water Susceptibility Assessment for your drinking water sources(s) is currently being updated on 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	MCL	MCLG	Unit of Measure	Source of Contaminant
2005 2004	Barium	0.037	0.029	0.056	2	2	ppm	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits.
2005 2004	Chromium	1.3	0	2.4	100	100	ppb	Discharge from steel and pulp mills; erosion of natural deposits.
2007 2005	Fluoride	0.4	0.18	1.08	4	4	ppm	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories.
2007	Nitrate	1.31	0.42	1.94	10	10	ppm	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits.

### Organic Contaminants

Year or Range	Contaminant	Average Level	Minimum Level	Maximum Level	MCL	MCLG	Unit of Measure	Source of Contaminant
2007 2003	Simazine	0.03	0	0.82	4	4	ppb	Herbicide runoff.
2007 2003	Atrazine	0.05	0	1.47	3	3	ppb	Runoff from herbicide used on row crops.
2007 2003	Xylenes	0.19	0	2.23	10000	10000	ppb	Discharge from petroleum factories; discharge from chemical factories.

### Maximum Residual Disinfectant Level

Year	Disinfectant	Average Level	Minimum Level	Maximum Level	MRDL	MRDLG	Unit of Measure	Source of Disinfectant
2007	Chloramine Residual	1.97	0.5	4.2	4	4	ppm	Disinfectant used to control microbes.

### Disinfection Byproducts

Year	Contaminant	Average Level	Minimum Level	Maximum Level	MCL	Unit of Measure	Source of Contaminant
2007	Total Haloacetic Acids	15.7	0	39.4	60	ppb	Byproduct of drinking water disinfection.
2007	Total Trihalomethanes	44.9	0	106.5	80	ppb	Byproduct of drinking water disinfection.

### Unregulated Initial Distribution System Evaluation for Disinfection Byproducts

This evaluation is sampling required by EPA to determine the range of total trihalomethane and haloacetic acid in the system for future regulations. The samples are not used for compliance, and may have been collected under non-standard conditions. EPA also requires the data to be reported here.

Year	Contaminant	Average Level	Minimum Level	Maximum Level	MCL	Unit of Measure	Source of Contaminant
2007	Total Haloacetic Acids	26.4	0	146.7	NA	ppb	Byproduct of drinking water disinfection.
2007	Total Trihalomethanes	51.2	0	235.6	NA	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
2007-2003	Chloroform	11.62	0	48.79	ppb	Byproduct of drinking water disinfection.
2007-2003	Bromoform	0.67	0	1.57	ppb	Byproduct of drinking water disinfection.
2007-2003	Bromodichloromethane	6.13	0	20.78	ppb	Byproduct of drinking water disinfection.
2007-2003	Dibromochloromethane	4.11	0	9.7	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
2006	Lead	4.9	0	15	ppb	Corrosion of household plumbing systems; erosion of natural deposits.
2006	Copper	0.174	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
2007	Turbidity	0.50	99.00	0.3	NTU	Soil runoff.

Total Coliform REPORTED MONTHLY TESTS FOUND NO COLIFORM BACTERIA

Fecal Coliform REPORTED MONTHLY TESTS FOUND NO FECAL COLIFORM BACTERIA

**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
2005 2004	Aluminum	0.051	0	0.134	.05	ppm	Abundant naturally occurring element.
2007 2005	Bicarbonate	231	132	269	NA	ppm	Corrosion of carbonate rocks such as limestone.
2005 2004	Calcium	74.6	60.2	89.6	NA	ppm	Abundant naturally occurring element.
2007 2005	Chloride	17	12	23	300	ppm	Abundant naturally occurring element; used in water purification; byproduct of oil field activity
2005 2004	Copper	0.008	0	0.03	1	ppm	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives.
2007 2004	Hardness as Ca/Mg	254	170	313	NA	ppm	Naturally occurring calcium and magnesium.
2005 2004	Magnesium	15.7	13.9	17.4	NA	ppm	Abundant naturally occurring element.
2005 2004	Nickel	0.002	0	0.003	NA	ppm	Erosion of natural deposits.
2007 2005	pH	7.8	7.5	8.3	>7.0	units	Measure of corrosivity of water.
2005 2004	Sodium	10	7	12	NA	ppm	Erosion of natural deposits; byproduct of oil field activity.
2007 2005	Sulfate	23	16	29	300	ppm	Naturally occurring; common industrial byproduct; byproduct of oil field activity.
2007 2005	Total Alkalinity as CaCO <sub>3</sub>	224	132	269	NA	ppm	Naturally occurring soluble mineral salts.
2007 2005	Total Dissolved Solids	302	235	358	1000	ppm	Total dissolved mineral constituents in water.
2005 2003	Total Hardness as CaCO <sub>3</sub>	266	249	298	NA	ppm	Naturally occurring calcium.
2005 2004	Zinc	0.014	0	0.044	5	ppm	Moderately abundant naturally occurring element; used in the metal industry.