

Trihalomethanes (THM)

Year	Detected Constituent	Average of all Sampling Points	Range of Detected Levels	MCL	MCLG	Unit of Measure	Source of Constituent
2007	Total Trihalomethanes	60.8	46.1 - 80.7	80	0	ppb	Byproduct of drinking water chlorination.

Halooctic Acids (HAA5)

Year	Detected Constituent	Average of all Sampling Points	Range of Detected Levels	MCL	MCLG	Unit of Measure	Source of Constituent
2007	Total Halooctic Acids	24.46	12.4 - 35.6	60	0	ppb	Byproduct of drinking water disinfection.

Total Coliform NOT DETECTED

E.coli NOT DETECTED

Secondary and Other Constituents Not Regulated
No associated adverse health effects.

Year	Constituent	Measured Concentration	Number of Analyses	Secondary Limit	Unit of Measure	Source of Constituent
2007	Bicarbonate	95	1	NA	ppm	Corrosion of carbonate rocks such as limestone.
2007	Chloride	66.4	1	300	ppm	Abundant naturally occurring element, used in water purification; byproduct of oil field activity.
2007	Hardness as Ca/Mg	200	1	NA	ppm	Naturally occurring calcium and magnesium.
2007	pH	7.42	1	7	units	Measure of corrosivity of water.
2007	Sulfate	87.9	1	300	ppm	Naturally occurring common industrial byproduct; byproduct of oil field activity.
2007	Total Alkalinity as CaCO3	95	1	NA	ppm	Naturally occurring soluble mineral salts.
2007	Total Dissolved Solids	321	1	1000	ppm	Total dissolved mineral constituents in water.

Required Additional Health Information

In order to ensure that tap water is safe to drink, the USEPA 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 that must provide the same protection for public health.

All 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 USEPA's Safe Drinking Water Hotline (1-800-426-4791).

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 radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

National Primary Drinking Water Regulation Compliance

This report was prepared with technical assistance from the Guadalupe-Blanco River Authority. GBRA will be happy to answer any questions about the Port Lavaca Water Treatment Plant or its water quality and treatment process. Please contact us at 361-552-9751 or through our website at www.gbra.org. Water quality data for community water systems throughout the United States is available at www.waterdata.com.

WATER QUALITY '07

Calhoun County Rural Water Supply System

EXCELLENCE IN WATER QUALITY

GBRA Water Treatment Plant 361-552-9751

Dear Customer:

The Guadalupe-Blanco River Authority (GBRA) is pleased to provide you with this 2007 Water Quality Report. We take all possible precautions to safeguard your water supply and hope you will be encouraged to learn about the high quality of water provided to you.

The federal Safe Drinking Water Act (SDWA) requires water utilities to issue an annual report to customers, in addition to other notices that may be required by law. This report explains where your drinking water comes from, what it contains, and the health risks our water testing and treatment are designed to prevent.

We are committed to providing you with information about your water supply because informed customers are our best allies in supporting improvements needed to maintain the highest drinking water standards.

We are proud to report that the Texas Commission on Environmental Quality (TCEQ) has assessed our system and determined that your drinking water, provided by the GBRA Port Lavaca Water Treatment Plant near Port Lavaca, Texas, meets or exceeds all federal and state established water quality standards.

The tables in this report list all substances that were detected in our treated water, and the highest level at which they were detected. The tables also reflect the highest levels allowed by federal regulatory agencies. Please read this information carefully and if you have questions, call the numbers listed in this report.

Customer Views Welcome

The GBRA strongly supports the national primary drinking water regulation compliance process. If you are interested in learning more about the water department, water quality, or participating in the decision-making process, there are a number of opportunities available.

Questions about water quality can be answered by calling 361-552-9751 from 8 a.m. - 5 p.m., Monday through Friday. Inquiries about public participation and policy decisions should be directed to GBRA Port Lavaca Water Treatment Plant, P.O. Box 146, Port Lavaca, Texas 77979.

En Español

Éste informe incluye información importante sobre el agua potable. Si tiene preguntas o comentarios sobre éste informe en Español, favor de llamar al tel. 361-552-9751 para hablar con una persona bilingüe en español durante las horas regulares de oficina (8 a.m. - 5 p.m.).

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.

United States Environmental Protection Agency (USEPA) and the Center 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 USEPA's Safe Drinking Water Hotline (1-800-426-4791).

Where Do We Get Our Drinking Water?

The Calhoun Canal Rural Water Supply System receives its water from surface water treated at the Port Lavaca Water Treatment Plant, operated by the Guadalupe-Blanco River Authority (GBRA).

The TCEQ completed an assessment of your source water and results indicate that some of our sources are susceptible to certain contaminants. The sampling requirements for your water system are based on this susceptibility and previous sample data. Any detections of these contaminants will be found in this Consumer Confidence Report. For more information on source water assessments and protection efforts at our system contact the GBRA Port Lavaca WTP at 361-552-9751.

Trained operators monitor and test the water, including the addition of fluoride and chloramines, to ensure that our water meets or exceeds all state and federal drinking water standards. The treated water is delivered to the utility's ground storage and delivered through its distribution system to you.

What We Found

The following tables list the contaminants that have been found in your drinking water. USEPA requires water systems to test for more than 97 contaminants. The column marked "Highest Level at Any Sampling Point" shows the highest test results during the year. The "Source of Constituent" column shows where this substance usually originates.

DEFINITIONS:

Maximum Contaminant Level (MCL) - the highest level of the contaminant allowed 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.

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

NTU - Nephelometric Turbidity Units.

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

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

MRDL - Maximum Residual Disinfection Level.

TABLE I - Test results for the GBRA water supply to the Calhoun Canal Rural Water Supply (Sampled at the GBRA Port Lavaca Water Treatment Plant)

Inorganics

Year	Detected Constituent	Measured Concentration	Number of Analyses Performed	MCL	MCLG	Unit of Measure	Source of Constituent
2007	Fluoride	0.56	1	4	4	ppm	Erosion of natural deposits; water additive which promotes strong teeth; runoff from fertilizer use.
2007	Nitrate	0.72	1	10	10	ppm	Runoff from fertilizer use; leaching from septic tanks; treated wastewater effluent; erosion of natural deposits.
2004	Gross Beta Emitters	4.8	1	50	0	pCi/l	Decay of mineral and man-made deposits.

Organics

Year	Detected Constituent	Measured Concentration	Number of Analyses Performed	MCL	MCLG	Unit of Measure	Source of Constituent
2007	Atrazine	0.13	1	3	3	ppb	Runoff from herbicide used on row crops.

Unregulated Contaminants

We participated in gathering data under UCMR in order to assist EPA in determining the occurrence of possible drinking water contaminants. If any unregulated contaminants were detected, they are shown in the table below. This data may also be found on EPA's website at <http://www.epa.gov/safewater/data/ucmd.html>, or call the Safe Drinking Water Hotline at 1-800-426-4791.

Year	Constituent	Average Concentration	Range of Detected Levels	Reason for Monitoring
Trihalomethanes				
2007	Chloroform	18.35	7.8 - 37.8	Monitoring helps EPA to determine where certain contaminants occur and whether it needs to regulate those contaminants.
2007	Bromoform	1.5	ND - 3.0	
2007	Dichlorobromomethane	19.25	12.6 - 28.4	
2007	Dibromochloromethane	12.9	10.8 - 17.7	
Haloacetic Acids				
2007	Chloroacetic acid	ND	ND	Monitoring helps EPA to determine where certain contaminants occur and whether it needs to regulate those contaminants.
2007	Dichloroacetic acid	7.2	ND-16.0	
2007	Trichloroacetic Acid	9.2	3.0-19.2	
2007	Bromoacetic acid	4.75	ND-9.7	
2007	Dibromoacetic acid	3.6	ND-6.6	
2007	Bromochloroacetic acid	8.775	5.9-13.0	

Disinfection Byproducts

Year	Constituent	Average Level	Minimum Level	Maximum Level	MCL	Unit of Measure	Source of Constituent
2007	Total Haloacetic Acids	24.75	13	41.8	60	ppb	Byproduct of drinking water disinfection.
2007	Total Trihalomethanes	52	33.6	78	80	ppb	Byproduct of drinking water disinfection.

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. Turbidity is measured 4 times per day through grab samples and continuously through automatic on-line individual filter turbidity monitors.

Year	Detected Constituent	Highest Single Measurement	Lowest Monthly % of Samples Meeting Limits	Turbidity Limits	Unit of Measure	Source of Constituent
2007	Turbidity	0.28	100	0.3	NTU	Organic particles.

Disinfection Residuals

Year	Constituent	Highest Average	Range of Detects (Low - High)	MRDL	Unit of Measure	Source of Constituent
2007	Chloramines	3.752	1.2 - 4.2	4	ppm	Disinfectant used to control microbes.

Total organic carbon (TOC) sampled from source water has 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	Constituent	Average Measurement	Minimum	Maximum	Source of Constituent
2007	Source Water TOC	4.32	2.98	8.36	Naturally occurring; no health effects directly associated with it.
2007	Drinking Water	2.3892	2	2.96	Naturally occurring; no health effects directly associated with it.
2007	Removal Ratio	1.894833	1	2.854	NA

Cryptosporidium Monitoring Information

The EPA Long Term 2 Enhanced Surface Water Treatment Rule (LT2 Rule) requires that the water treatment plants monitor the source water (water prior to treatment plant) for Cryptosporidium, turbidity, and *E.coli*. Cryptosporidium is a microbial pathogen that may be found in water contaminated with feces. Monitoring results will be used to determine whether additional treatment is required and to refine the relationship established between *E.coli* and Cryptosporidium levels in the source water. Although treatment plant filters remove Cryptosporidium, filters cannot guarantee 100% removal nor can the analysis determine if the organisms are alive and capable of causing cryptosporidiosis, an abdominal infection causing nausea, vomiting, diarrhea and abdominal cramps that may occur after ingestion of contaminated water. Bimonthly sampling of the Guadalupe River, the source water for the Port Lavaca Water Treatment Plant, began in October 2006 and will continue until September 2008. The following table summarizes the source water data collected in 2007.

Year	Analysis of Source Water Prior to Treatment	No. of Analyses	Mean	Range of Analyses	Units
2007	Cryptosporidium	24	0.155	<0.089-0.364	Oocyst per Liter
2007	<i>E.coli</i>	24	8.55*	<1-690	Most Probable Number
2007	Turbidity	24	51.8	8.7-230	NTU

*geometric mean

2007 Total Coliform NOT DETECTED 2007 *E.coli* NOT DETECTED

TABLE II - Tests results for GBRA water supply to Calhoun County Rural Water customers (As sampled in the customer distribution system)

Inorganics

Year	Detected Constituent	Measured Concentration	Number of Analyses Performed	MCL	MCLG	Unit of Measure	Source of Constituent
1999	Gross Alpha	1	1	15	0	pCi/L	Erosion of natural deposits.
2004	Gross Beta	3.2	1	50	0	pCi/L	Decay of mineral and man-made deposits.

Lead and Copper (None taken for 2006 - analyzed every 9 years)

Year	Constituent	The 90th Percentile	Number of Sites Exceeding Action Level	Action Level	Unit of Measure	Source of Constituent
1999	Lead	2.7	0	15	ppb	Corrosion of household plumbing systems; erosion of natural deposits.
1999	Copper	0.081	0	13	ppm	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives.

Maximum Residual Disinfectant Level

Year	Disinfectant Level	Average Level	Minimum Level	Maximum Level	MRDL	Unit of Measure	Source of Constituent
2007	Chloramine Residual	2.18	1.1	3.4	4	ppm	Disinfectant used to control microbes.