



2005 Drinking Water Quality Report

RRA - PRESTON SHORES WATER SYSTEM

Red River Authority of Texas

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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.

En Espanol

Este reporte incluye informacion importante sobre el agua para tomar. Para obtener una copia de esta informacion traducir al Espanol, favor de llamar al telefono (940) 723-8697.

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. 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 at (800) 426-4791.

WHERE DO WE GET OUR DRINKING WATER?

The **RRA-Preston Shores Water System** utilizes surface water from Lake Texoma as its sole source supply. Raw lake water is treated at the Authority's treatment facilities located in the Preston Shores sub-division in Grayson County, Texas. Texas Commission on Environmental Quality (TCEQ) has completed and provided the Authority a Source Water Susceptibility Assessment for your drinking water source(s). This report 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 this assessment will allow us to focus our source water protection activities. For more information on source water assessments and protection efforts for our system contact Henry C. Wied at (940) 723-8697.

**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 Environmental Protection Agency’s Safe Drinking Water Hotline at (800) 426-4791.

**PUBLIC PARTICIPATION
OPPORTUNITIES**

The Authority’s Board of Directors regularly meets on the third Wednesday of January, April, July, and September of each year. Specific times and locations of these and/or any special meetings can be obtained by contacting the Authority at (940) 723-8697.

For more information about the water quality of your water system, public participation programs, water conservation programs, and/or general operations policies, call (940) 723-8697 or e-mail the Authority at: info@rra.dst.tx.us. For service requests or reporting leaks after normal business hours, page your District Manager, Ms. Patti Quade or Mr. Rick Pellman at (903) 867-7600. You may also leave a message on the recorder at the Water Treatment Plant at (903) 786-9303.

SYSTEM INFORMATION

The Red River Authority of Texas owns and operates 29 registered public water supply systems through its Utility Division. The Utility Division maintains over 2,150 miles of transmission lines, two surface water treatment plants, 65 pumping facilities and serves approximately 10,000 customers residing in a 15 county area of the Red River Basin. The Utility Division is subdivided into geographical districts for proper management, maintenance, and financial accounting of individual systems.

The **RRA-Preston Shores Water System** is one of the water systems operated by the Utility Division’s District 22. In 2005, the system served 687 active connections with an average water use of 133 gallons per day per connection. The primary use of the water was seasonal/recreational and rural domestic. New disinfectant equipment was installed to reduce Trihalomethanes and Haloacetic Acids. No other capital improvements items were scheduled for 2005.

The Authority has upgraded the Utility Division’s Water Conservation and Drought Contingency Plan. Information on the plan is available on the Authority’s web page at www.rra.dst.tx.us or can be obtained by calling (940) 723-8697.

DEFINITIONS:

Maximum Contaminant Level (MCL) –

The highest 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.

NTU – Nephelometric Turbidity Units

MFL – million fibers per liter

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 (ug/l)

ppt – parts per trillion, or nanograms per liter

ppq – parts per quadrillion, or picograms per liter

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 concerns. Therefore, secondaries are not required to be reported in this document, but they may greatly affect the appearance and taste of your water.

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
2005	Turbidity	0.23	100.00	0.3	NTU	Soil Runoff

ABOUT THE FOLLOWING TABLES

U.S. EPA requires water systems to test up to 97 constituents. The attached tables contain all of the federally regulated or monitored constituents which have been found in your drinking water.

Inorganic Contaminants

Year or Range	Contaminant	Average Level	Minimum Level	Maximum Level	MCL	MCLG	Unit of Measure	Source of Contaminant
2002	Arsenic	2.2	2.2	2.2	50	0	ppb	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes.
2002	Barium	0.119	0.119	0.119	2	2	ppm	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
2005	Fluoride	0.2	0.2	0.2	4	4	ppm	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
2005	Nitrate	0.08	0.08	0.08	10	10	ppm	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
2002	Selenium	5.900	5.9	5.9	50	50	ppb	Discharge from petroleum and metal refineries; Erosion of natural deposits; Discharge from mines.

NA = MCL not applicable - not regulated. Special Monitoring Requirement.

Disinfection Byproducts

Year	Contaminant	Average Level	Minimum Level	Maximum Level	MCL	Unit of Measure	Source of Contaminant
2005	Total Haloacetic Acids	56.3	40.2	70.8	60	ppb	Byproduct of drinking water disinfection.
2005	Total Trihalomethanes	224	192	258	80	ppb	Byproduct of drinking water disinfection.

Unregulated Contaminants

Year	Contaminant	Average Level	Minimum Level	Maximum Level	Unit of Measure	Source of Contaminant
2005	Chloroform	34	34	34	ppb	Byproduct of drinking water disinfection.
2005	Bromoform	20.0	20	20	ppb	Byproduct of drinking water disinfection.
2005	Bromodichloromethane	72	72	72	ppb	Byproduct of drinking water disinfection.
2005	Dibromochloromethane	75	75	75	ppb	Byproduct of drinking water disinfection.

Lead and Copper

Year	Contaminant	The 90 th Percentile	Number of Sites Exceeding Action Level	Action Level	Unit of Measure	Source of Contaminant
1999	Lead	3.9	1	15	ppb	Corrosion of household plumbing systems; Erosion of natural deposits.
1999	Copper	0.2180	0	1.3	ppm	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives.

Total Coliform - NOT DETECTED

Fecal Coliform - NOT DETECTED

RETURN SERVICE REQUESTED

Maximum Residual Disinfectant Level

Year	Disinfectant	Average Level	Minimum Level	Maximum Level	MRDL	MRDLG	Unit of Measure	Source of Chemical
2005	Free Chlorine	1.2	0.3	2.2	4.0	<4.0	ppm	Disinfectant used to control microbes.

Total Organic Carbon (TOC)

Year	Contaminant	Average	Minimum	Maximum	Unit of Measure	Source of Contaminant
2005	TOC	5.84	4.4	7.91	ppm	TOCs are naturally occurring and there are no health effects directly associated with it.

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.	1/1/2005 to 3/31/2005	TTHM levels were recorded at 192 ppb exceeding the MCL.	Purchase of new disinfectant equipment.
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.	4/1/2005 to 6/30/2005	TTHM levels were recorded at 231 ppb exceeding the MCL.	Installation of new equipment.
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.	7/1/2005 to 9/30/2005	TTHM levels were recorded at 258 ppb exceeding the MCL.	Installation of new equipment.
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.	10/1/2005 to 12/31/2005	TTHM levels were recorded at 215 ppb exceeding the MCL.	Tests were performed on the new equipment.