



# 2004 Drinking Water Quality Report

## **RRA - BOX COMMUNITY WATER SYSTEM**

**Red River Authority of Texas**

900 8<sup>th</sup> Street, Suite 520

Wichita Falls, Texas 76301- 6894

(940) 723-8697

## **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.

### **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.

### **En Espanol**

Este reporte incluye informacion importante sobre el agua para tomar. Si tiene preguntas o discusiones sobre este reporte en espanol, favor de llamar al tel.(940) 723-8697 par hablar con una persona bilingue en espanol.

### **WHERE DO WE GET OUR DRINKING WATER?**

The **RRA-Box Water System** utilizes ground water from the alluvium formation purchased from the City of Vernon. The Texas Commission on Environmental Quality (TCEQ) has completed a Source Water Susceptibility Assessment for all drinking water systems that own their 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 system(s) from which we purchase our water received the assessment report. 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](mailto:info@rra.dst.tx.us). For service requests or reporting leaks after normal business hours, contact your District Manager, Mr. Barlee Barron at (940) 553-4573 or Mr. Mike Carlson at (940) 474-3263.

## **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-Box Water System** is one of the water systems operated by the Utility Division's District 13. In 2004, the system served 55 active connections with an average water use of 176 gallons per day per connection. The primary use of the water was rural domestic. No major capital

improvement items were scheduled for 2004.

The Authority maintains a Water Conservation and Drought Contingency Plan for the Utility Division. Information on the plan is available on the Authority's web page at [www.rra.dst.tx.us](http://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.

### **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.

## **ABOUT THE FOLLOWING TABLES**

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

## Inorganic Contaminants

Year (Range)	Contaminant	Average Level	Minimum Level	Maximum Level	MCL	MCLG	Unit of Measure	Source of Contaminant
2002-2002	Barium	0.222	0.2220	0.222	2	2	ppm	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
2002-2002	Fluoride	0.400	0.4	0.4	4	4	ppm	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
2004-2004	Nitrate	5.990	4.87	7.11	10	10	ppm	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
2002-2002	Selenium	4.6	4.6	4.6	50	50	ppb	Discharge from petroleum and metal refineries; Erosion of natural deposits; Discharge from mines.
2002-2002	Gross alpha adjusted	1.700	1.7	1.7	15	0	pci/l	Erosion of natural and manmade deposits..

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

## Unregulated Contaminants

Year (Range)	Contaminant	Average Level	Minimum Level	Maximum Level	Unit of Measure	Source of Contaminant
2003-2003	Bromoform	2.900	1.8	4	ppb	Byproduct of drinking water disinfection.
2003-2003	Dibromochloromethane	0.850	0.8	0.9	ppb	Byproduct of drinking water disinfection.

## Lead and Copper

Year (Range)	Contaminant	The 90 <sup>th</sup> Percentile	Number of Sites Exceeding Action Level	Action Level	Unit of Measure	Source of Contaminant
2000-2000	Lead	3.1000	0	15	ppb	Corrosion of household plumbing systems; Erosion of natural deposits.
2000-2000	Copper	0.1540	0	1.3	ppm	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives.

## Maximum Residual Disinfectant Level

Year	Disinfectant	Average Level	Minimum Level	Maximum Level	MCL	MCLG	Unit of Measure	Source of Disinfectant
2004	Chlorine	0.750	0.5	1.2	4	4	ppm	Disinfectant used to control microbes.

**Red River Authority of Texas  
Hamilton Building  
900 8<sup>th</sup> Street, Suite 520  
Wichita Falls, Texas 76301-6894**

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**RETURN SERVICE REQUESTED**

**Nitrate**

**(Above 5 mg/l, but below the MCL)**

Nitrate in drinking water at levels above 10 ppm is a health risk for infants less than six months of age. High nitrate levels in drinking water can cause blue baby syndrome. If you are caring for an infant you should seek advice from your health care provider.

**Organic Contaminants - NOT TESTED OR REPORTED, OR NONE DETECTED**

**Total Coliform - NOT DETECTED**

**Disinfection By-Products - NOT TESTED OR REPORTED, OR NONE DETECTED**

**Fecal Coliform - NOT DETECTED**

**Turbidity - NOT REQUIRED**