

### *Where Do We Get Our Water?*

Our drinking water is obtained from surface and groundwater sources. Our water comes from the Evangeline aquifer and Lake Houston. A Source Water Susceptibility Assessment for your drinking water sources is currently being updated by the Texas Commission on Environmental Quality and will be provided to us this year. This information 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 the assessment will allow us to focus our source water protections strategies. Some of this source water assessment information will be available later this year on Texas Drinking Water Watch at <http://dwww.tceq.state.tx/us/DWW/>. For more information on source water assessments and protection efforts at our system, please contact us.

### *Water Sources*

The sources of drinking water (both tap 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, organic chemical contaminants, and radioactive contaminants.

### *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.

Parkway UD  
P.O. Box 1827  
Cypress, Texas 77410

PRSR STD  
US POSTAGE  
PAID  
HOUSTON TX  
PERMIT NO 542

\*\*\*OR CURRENT RESIDENT\*\*\*

# *PARKWAY UTILITY DISTRICT*

## **2010**

### **Annual Drinking Water Quality Report**

### **January through December 2010**

**This annual Drinking Water Quality Report provides information on your District's drinking water. The United States Environmental Protection Agency (EPA) requires that all drinking water suppliers in the country provide a water quality report to their customers annually.**

### **En Espanol**

**Este reporte incluye informacion importante sobre su agua de beber. Para obtener una copia de esta informacion traducida en Espanol, llame al telefono 281-290-3107.**

### *Our Drinking Water Meets 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 following pages. We hope this information helps you become more knowledgeable about what's in your drinking water.

### ***SPECIAL NOTICE***

You may be more vulnerable than the general population to certain microbial contaminants, such as Cryptosporidium, in drinking water. Infants, some elderly, or immunocompromised such as those undergoing chemotherapy for cancer, those who have undergone organ transplants, those who are undergoing treatment with steroids, and people with HIV/AIDS or other immune system disorders can be particularly at risk from infections. You should seek advice about drinking water from your physician or health care providers. Additional guidelines on appropriate means to lessen the risk of infection by Cryptosporidium are available from the Safe Drinking Water Hotline at (800-426-4791).

### *Public Participation Opportunities*

The Board of Directors of the District meet at 6:30 PM on the third Tuesday of each month. You may mail comments to:

*Parkway Utility District  
Attn.: Board of Directors  
P.O. Box 1827  
Cypress, Texas 77410  
Or Call: (281) 290-6500*

### About the Tables

The following tables 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. All contaminants detected in your water are below state and federal allowed levels. The State of Texas allows us to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently.

### Drinking Water Definitions and Units

#### Description

**NA:** Not Applicable

**ND:** Not Detected

**NR:** Not Reported

**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)

**MNR:** Monitoring not required, but recommended

**MCL: Maximum Contaminant Level:** 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.

**MCLG: Maximum Contaminant Level Goal:** 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.

**MRDL: Maximum Residual Disinfection Level:** The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

**MRDLG: Maximum Residual Disinfection Level Goal:** The level of a drinking water disinfectant below which there is no known or expected health risk. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

**AL: Action Level:** The concentration level of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

**NTU:** Nephelometric Turbidity Units

#### For more information:

You may call 281-290-3107 to speak to a District representative about your Water Quality Report. You may also call the U.S. Environmental Protection Agency's Safe Drinking Water Hotline at 1-800-426-4791.

PWSID: 1010750

## Parkway Utility District Drinking Water Quality Report Results

### REGULATED INORGANIC CONTAMINANTS

| YEAR         | Contaminant (Unit of Measure) | Parkway UD | Greenwood UD | City of Houston | Range of Detected Levels | Violation | MCL | MCLG | Source of Contaminant                    |
|--------------|-------------------------------|------------|--------------|-----------------|--------------------------|-----------|-----|------|--|
| 2005<br>2010 | Arsenic (ppb)                 | 7.7        | 5.0          | 2.9             | ND - 7.7                 | No        | 10  | 0    | Erosion of natural deposits              |
| 2005<br>2010 | Barium (ppm)                  | 0.296      | 0.251        | 0.066           | 0.066 - 0.296            | No        | 2   | 2    | Erosion of natural deposits              |
| 2006<br>2010 | Fluoride (ppm)                | 0.4        | 0.41         | 0.76            | 0.4 - 0.76               | No        | 4   | 4    | Erosion of natural deposits              |
| 2010         | Nitrate (ppm)                 | 0.01       | 0.09         | 0.72            | 0.01 - 0.72              | No        | 10  | 10   | Erosion of natural deposits              |
| 2005<br>2010 | Selenium (ppb)                | 3.5        | ND           | 10.0            | ND - 10.0                | No        | 50  | 50   | Erosion of natural deposits              |
| 2005<br>2009 | Alpha emitters (pCi/L)        | 2.6        | 4.4          | ND              | ND - 4.4                 | No        | 15  | 0    | Erosion of natural deposits              |
| 2005<br>2009 | Beta emitters (pCi/L)         | ND         | 5.0          | ND              | ND - 5.0                 | No        | 50  | 0    | Erosion of natural and man-made deposits |
| 2005<br>2009 | Combined Radium (pCi/L)       | ND         | 0.49         | ND              | ND - 0.49                | No        | 5   | 0    | Erosion of natural deposits              |

#### Required Additional Health Information for Arsenic

Because the highest arsenic level on this report is above between 5 and 10 ppb, the following information is required by the EPA. While your drinking water meets EPA's standard for arsenic, it does contain low levels of arsenic. EPA's standard balances the current understanding of arsenic's possible health effects against the cost of removing arsenic from drinking water. EPA continues to research the health effects of low levels of arsenic, which is a mineral known to cause cancer in humans at high concentrations and is linked to other health effects such as skin damage and circulatory problems.

Additional information about the tables: Parkway UD purchases water from Greenwood UD. Greenwood UD has one water well, and it purchases water from the City of Houston. This report contains the water quality data for Parkway UD, Greenwood UD, the City of Houston's East Purification Water Plant 1, 2, and 3, and the City of Houston's Northeast Purification Water Plant. Sample analysis is not required on Turbidity or Organic Contaminants for Parkway UD or Greenwood UD. In these instances results are listed for the City of Houston only. In addition the Disinfection By-Products, Disinfectant Residuals, and Lead & Copper results are only listed for Parkway UD as these samples were collected within the District's boundaries.

## Parkway Utility District Drinking Water Quality Report Results

### DISINFECTION BYPRODUCTS

| All results listed below are for distribution sampling. |                               |                        |                          |           |     |  |
|---|-------------------------------|------------------------|--------------------------|-----------|-----|--|
| YEAR  | Contaminant (Unit of Measure) | Average Level Detected | Range of detected levels | Violation | MCL | Source of Contaminant                    |
| 2010  | Total Haloacetic Acid (ppb)   | 15.5                   | NA                       | No        | 60  | Byproduct of drinking water disinfection |
| 2010  | Total Trihalomethanes (ppb)   | 13.1                   | NA                       | No        | 80  | Byproduct of drinking water disinfection |

### 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 (Unit of Measure) | Highest Single Measurement | Lowest Monthly % of Samples Meeting Limits | Turbidity Limits | Source of Contaminant |
|------|-------------------------------|----------------------------|--|------------------|-----------------------|
| 2010 | Turbidity (NTU)               | 0.27                       | 100.0                                      | 0.3              | Soil runoff           |

### LEAD AND COPPER

| YEAR | Contaminant (Unit of Measure) | 90th Percentile | No. of sites exceeding Action Level | Violation | Action Level | Source of Contaminant           |
|------|-------------------------------|-----------------|-------------------------------------|-----------|--------------|---------------------------------|
| 2010 | Lead (ppb)                    | 2.7             | 0                                   | No        | 15           | Corrosion of household plumbing |
| 2010 | Copper (ppm)                  | 0.069           | 0                                   | No        | 1.3          | Corrosion of household plumbing |

### DISINFECTION RESIDUAL LEVELS

| YEAR | Contaminant (Unit of Measure) | Highest Average Level Detected | Range of Detected Levels | Violation | MRDL | MRDLG | Source of Contaminant                 |
|------|-------------------------------|--------------------------------|--------------------------|-----------|------|-------|---------------------------------------|
| 2010 | Chloramines (ppm)             | 2.2                            | 0.52 - 3.9               | No        | 4    | 4     | Disinfectant used to control microbes |

### UNREGULATED CONTAMINANTS

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

| YEAR         | Contaminant (Unit of Measure) | Parkway UD | Greenwood UD | City of Houston | Range of Detected Levels |
|--------------|-------------------------------|------------|--------------|-----------------|--------------------------|
| 2008<br>2010 | Chloroform (ppb)              | ND         | 6.7          | 12.1            | ND - 15                  |
| 2008<br>2010 | Bromoform (ppb)               | ND         | 1.0          | 0.4             | ND 0.4                   |
| 2008<br>2010 | Bromodichloromethane (ppb)    | ND         | 7.5          | 7.7             | ND - 11                  |
| 2008<br>2010 | Dibromomchloromethane (ppb)   | ND         | 4.5          | 2.7             | ND - 4.1                 |

### REGULATED ORGANIC CONTAMINANTS

| YEAR | Contaminant (Unit of Measure) | Average Level Detected | Range of Detected Levels | Violation | MCL | MCLG | Source of Contaminant                   |
|------|-------------------------------|------------------------|--------------------------|-----------|-----|------|---|
| 2010 | Atrazine (ppb)                | 0.54                   | ND - 1.4                 | No        | 3   | 3    | Runoff from herbicide used on row crops |
| 2010 | Simazine (ppb)                | 0.10                   | ND - 0.19                | No        | 4   | 4    | Runoff from herbicide used on row crops |

#### Required Additional Health Information for Lead

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. This water supply is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at <http://www.epa.gov/safewater/lead>.