

# 2010 Annual Drinking Water Quality Report

*(Consumer Confidence Report)*

**CITY OF ABERNATHY**

Phone Number: 806-298-2546

## SPECIAL NOTICE

### **Required language for ALL community public water supplies:**

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 infections. You should seek advice about drinking water your physician or health care provider. Additional guidelines 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**

**Date:** July 12, 2011  
**Time:** 3:00 P.M.  
**Location:** City Hall Community Room  
**Phone Number:** 806-298-2546  
**Contact:** Mike Grimsley

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

## **OUR DRINKING WATER IS REGULATED**

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.

### **Source of Drinking Water**

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 include:

- Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban storm water runoff, and septic systems.
- Radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities.

### **En Español**

Este informe incluye información importante sobre el agua potable. Si tiene preguntas o comentarios sobre este informe en español, favor de llamar al tel.

806-298-2717

-para hablar con una persona bilingüe en español.

# Where do we get our drinking water?

The source of drinking water used by CITY OF ABERNATHY is Ground Water

A Source Water Susceptibility Assessment for your drinking water sources(s) is currently being updated by the Texas Commission on Environmental Quality. 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 allows us to focus source water protection strategies. Some of this source water assessment information is available on Texas Drinking Water Watch at <http://dww.tceq.state.tx.us/DWW/>.

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 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.

## 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>.

## 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
- ppt - parts per trillion, or nanograms per liter
- ppq - parts per quadrillion, or picograms per liter

## Definitions

|   |  |
|---|--|
| <b>Maximum Contaminant Level Goal or MCLG:</b>            | The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.   |
| <b>Maximum Contaminant Level or</b>                       | The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.                                    |
| <b>Maximum residual disinfectant level goal or MRDLG:</b> | 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 contaminants. |
| <b>Maximum residual disinfectant level or MRDL:</b>       | 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.                        |
| <b>mrem:</b>  | millirems per year (a measure of radiation absorbed by the body)   |
| <b>ppb:</b>   | micrograms per liter or parts per billion - or one ounce in 7,350,000 gallons of water.  |
| <b>na:</b>  | not applicable.  |
| <b>Avg:</b>   | Regulatory compliance with some MCLs are based on running annual average of monthly samples.   |
| <b>ppm:</b>   | milligrams per liter or parts per million - or one ounce in 7,350 gallons of water.  |

## 2010 Regulated Contaminants

| Year | Disinfectant | Average Level | Minimum Level | Maximum Level | MRDL | MRDLG | Unit of Measure | Source of Chemical                    |
|------|--------------|---------------|---------------|---------------|------|-------|-----------------|---------------------------------------|
| 2010 | Chlorine     |               |               |               | 4.0  | <4.0  | ppm             | Disinfectant used to control microbes |

| Disinfectants and Disinfection By-Products | Collection Date | Highest Single Sample | Range of Levels Detected | MCLG                  | MCL | Units | Violation | Likely Source of Contamination             |
|--|-----------------|-----------------------|--------------------------|-----------------------|-----|-------|-----------|--|
| <b>Haloacetic Acids (HAA5)*</b>            | 2010            | 1                     | 1 - 1                    | No goal for the total | 60  | ppb   | N         | By-product of drinking water chlorination. |

|                                      |      |     |           |                       |    |     |   |  |
|--------------------------------------|------|-----|-----------|-----------------------|----|-----|---|--|
| <b>Total Trihalomethanes (TThm)*</b> | 2010 | 1.9 | 1.9 - 1.9 | No goal for the total | 80 | ppb | N | By-product of drinking water chlorination. |
|--------------------------------------|------|-----|-----------|-----------------------|----|-----|---|--|

| Inorganic Contaminants   | Collection Date | Highest Single Sample | Range of Levels Detected | MCLG | MCL | Units | Violation | Likely Source of Contamination  |
|--|-----------------|-----------------------|--------------------------|------|-----|-------|-----------|---|
| <b>Arsenic - While your drinking water meets EPA standards for arsenic, it does contain low levels of arsenic. EPA's standard balances the current understanding of arsenic's possible health effects against the costs 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</b> | 04/02/2008      | 5.46                  | 5.46 - 5.46              | 0    | 10  | ppb   | N         | Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes. |

|  |            |      |             |  |    |     |   |   |
|--|------------|------|-------------|--|----|-----|---|---|
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|--|------------|------|-------------|--|----|-----|---|---|

|                                       |            |        |                 |     |     |     |   |  |
|---------------------------------------|------------|--------|-----------------|-----|-----|-----|---|--|
| <b>Barium</b>                         | 04/02/2008 | 0.0772 | 0.0772 - 0.0772 | 2   | 2   | ppm | N | Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.                                |
| <b>Chromium</b>                       | 04/02/2008 | 5.39   | 5.39 - 5.39     | 100 | 100 | ppb | N | Discharge from steel and pulp mills; Erosion of natural deposits.  |
| <b>Fluoride</b>                       | 2010       | 2.23   | 2.23 - 2.23     | 4   | 4.0 | ppm | N | Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories. |
| <b>Nitrate [measured as Nitrogen]</b> | 2010       | 1.26   | 1.26 - 1.26     | 10  | 10  | ppm | N | Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.                               |
| <b>Selenium</b>                       | 04/02/2008 | 5.06   | 5.06 - 5.06     | 50  | 50  | ppb | N | Discharge from petroleum and metal refineries; Erosion of natural deposits; Discharge from mines.                          |

# Regulated Contaminants

| Radioactive Contaminants                | Collection Date | Highest Single Sample | Range of Levels Detected | MCLG | MCL | Units   | Violation | Likely Source of Contamination          |
|---|-----------------|-----------------------|--------------------------|------|-----|---------|-----------|---|
| Beta/photon emitters                    | 04/02/2008      | 15.3                  | 15.3 - 15.3              | 0    | 4   | mrem/yr | N         | Decay of natural and man-made deposits. |
| Combined Radium 226/228                 | 04/02/2008      | 0.28                  | 0.28 - 0.28              | 0    | 5   | pCi/L   | N         | Erosion of natural deposits.            |
| Gross alpha excluding radon and uranium | 04/02/2008      | 15.7                  | 6.9 - 15.7               | 0    | 15  | pCi/L   | N         | Erosion of natural deposits.            |
| Uranium                                 | 04/02/2008      | 18.923                | 13.1 - 18.923            | 0    | 30  | ug/l    | N         | Erosion of natural deposits.            |
| Volatile Organic Contaminants           | Collection Date | Highest Single Sample | Range of Levels Detected | MCLG | MCL | Units   | Violation | Likely Source of Contamination          |
| Toluene                                 | 2010            | 0.0007                | 0 - 0.0007               | 1    | 1   | ppm     | N         | Discharge from petroleum factories.     |

|                |      |        |               |      |      |     |   |   |
|----------------|------|--------|---------------|------|------|-----|---|---|
| <b>Toluene</b> | 2010 | 0.0007 | 0 -<br>0.0007 | 1    | 1000 | ppm | N | Discharge from<br>petroleum<br>factories. |
| <b>Toluene</b> | 2010 | 0.0007 | 0 -<br>0.0007 | 1000 | 1    | ppm | N | Discharge from<br>petroleum<br>factories. |