

# HARRIS COUNTY M.U.D. No. 43

## 2009 Annual Drinking Water Quality Report

PWS ID # 1010565

Phone No: 281-350-0895

HC MUD # 43 is recognized as a "Superior" Public Water System by the State of Texas

### En Español

Este reporte incluye informacion importante sobre el agua para tomar. Para asistencia en espanol, por favor llame al telefono 281-350-0895.

### OUR DRINKING WATER IS SAFE

This report is a summary of the quality of the water we provide to our customers. The analysis was made by using the data from the most recent U.S. Environmental Protection Agency (USEPA) required tests and is presented in the following tables. We hope this information helps you become more knowledgeable about your drinking water.

**Public Participation Opportunities** concerning your water system may be made at regularly scheduled meetings on the third Thursday of each month at 12:00 p.m., 600 Travis, Suite 4200, Houston, Texas, 77002. In addition, monthly meetings are held at 7:00 p.m., Birnamwood Clubhouse, 23803 Birnamwood Blvd., Spring, Texas, 77373. For a complete schedule listing go to [www.HCMUD43.org](http://www.HCMUD43.org) or you may contact Dennis Wright or David Wright at TNG Utility Corp., phone # 281-350-0895, with any questions or concerns you may have.

### Where do we get your drinking water?

Our drinking water is obtained from groundwater sources. It comes from water-bearing sands known as the Chicot Aquifer.

The Texas Commission of Environmental Quality is currently updating a Source Water Susceptibility Assessment Report. The report will describe the susceptibility and types of constituents that may come in contact with our drinking water source based on human activities and natural conditions. The information contained in the assessment will allow us to focus our source water protection strategies. Some of this source water assessment information is expected to be available later this year on Texas Drinking Water Watch at <http://dww.tceq.state.tx.us/DWW/> For more information on source water assessments and protection efforts of our system, feel free to call us at 281-350-0895.

**Water Sources:** 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: (i) microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife; (ii) inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban stormwater runoff, industrial or

domestic wastewater discharges, oil and gas production, mining, or farming; (iii) pesticides and herbicides, which might have a variety of sources such as agriculture, urban storm water runoff, and residential uses; (iv) 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 stormwater runoff, and septic systems; and (v) radioactive contaminants, which can be naturally-occurring or the result of oil and gas production and mining activities.

### A Special Notice for the ELDERLY, INFANTS, CANCER PATIENTS, people with HIV/AIDS or other immune Problems:

You may be more vulnerable than the general population to certain microbial contaminants, such as *Cryptosporidium*, in drinking water. Infants, some elderly, or Immuno-compromised persons 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 provider. Additional guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* are available from the Safe Drinking Water Hotline (800-426-4791). Also, see EPA website: [www.epa.gov/safewater](http://www.epa.gov/safewater) and NRDC website: [www.nrdc.org/water](http://www.nrdc.org/water)

### 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 USEPA's Safe Drinking Water Hotline at (800-426-4791).

In order to ensure that the tap water is safe to drink, the USEPA prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration regulations establish limits for contaminants in bottled water that must be provide the same protection for public health.

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THE NEXT GENERATION OF  
WATER AND WASTEWATER UTILITY SERVICES

### *About the Following Table*

The following table contains all of the federally regulated or monitored chemical constituents which have been found in your drinking water. USEPA requires water systems to test up to 97 constituents. The data presented in the report is from the most recent testing done in accordance with the regulations.

### *Abbreviations and Definitions*

**Maximum Contaminant Level (MCL)** - The highest permissible level of a contaminant in drinking water. MCL's are set as close to the MCLG's as feasible using the best available treatment technology.

**Maximum Contaminant Level Goal (MCLG)** - The level of contaminant in drinking water below which there is no known or expected risk to health. MCLG's 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 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.

**ppm** - parts per million (*one part per million corresponds to one minute in two years or a single penny in \$10,000*)

**ppb** - parts per billion (*one part per billion corresponds to one minute in 2,000 years or a single penny in \$10,000,000*)

**pCi/l** - pico curies per liter (*a measure of radioactivity*)

**N/A** - not applicable

## *Harris County M.U.D. No. 43 - 2009 Drinking Water Quality Report Data*

### Inorganic Contaminants:

Year	Constituent	Highest Detected Level at any Sampling Point	Range of Detected Levels	MCL	MCLG	Unit of Measure	Source of Contaminant
2008	Fluoride	0.1	0.10 - 0.10	4	4	ppm	Erosion of natural deposits; Water additive which promotes strong teeth; discharge from fertilizer and aluminum factories.
2009	Nitrate	0.28	0.28 - 0.28	10	10	ppm	Erosion of natural deposits; runoff from fertilizer use; leaching from septic tanks, sewage.

### Disinfectant Residuals:

Year	Constituent	Average Level	Range of Detected Levels (low - high)	MRDL	MRDLG	Unit of Measure	Source of Contaminant
2009	Chlorine Residual, Free	1.43	0.27 - 3.0	4	4	ppm	Disinfectant used to control microbes.

### Disinfectant Byproducts:

Year	Constituent	Average Level	Range of Detected Levels (low - high)	MCL	Unit of Measure	Source of Disinfectant
2005	Total Haloacetic Acids	1.1	1.1 - 1.1	60	ppb	Byproduct of drinking water disinfection.
2005	Total Trihalomethanes	2.4	2.4 - 2.4	80	ppb	Byproduct of drinking water disinfection.

***HC MUD # 43 is recognized as a "Superior" Public Water System by the State of Texas.***  
**The drinking water produced exceeds the minimum water quality standards as established by the USEPA.**

**Your water  is safe to Drink !**

## Harris County M.U.D. No. 43 - 2009 Drinking Water Quality Report Data Continuation

### **Secondary Constituents**

Contaminants may be found in drinking water, that may cause taste, color, and odor problems. The taste and odor constituents are called secondary constituents and are regulated by the State of Texas, not USEPA. These types of problems are not necessarily causes for health concerns, but may greatly affect the appearance and taste of your water. For more information on taste, odor or color of drinking water please contact the system's business office at 281-350-0895.

**Secondary and Other Non-Regulated Constituents:** - No associated adverse health effects with the following:

Year	Constituent	Average Level	Range of Detected Levels (low - high)	Limit	Unit of Measure	Source of Contaminant
2008	Bicarbonate	177	177 - 177	N/A	ppm	Corrosion of carbonate rocks such as limestone.
2008	Chloride	43	43 - 43	300	ppm	Abundant naturally occurring element; used in water purification; byproduct of oil field activity.
2006	Lead	.001	.001 - .001	N/A	ppm	Corrosion of household plumbing systems; erosion of natural deposits.
2008	pH	7.3	7.3 - 7.3	>7.0	units	Measure of corrosivity of water.
2008	Sulfate	6.0	6 - 6	300	ppm	Naturally occurring; common industrial byproduct; byproduct of oil field activity.
2008	Total Alkalinity as CaCO <sub>3</sub>	145	145 - 145	N/A	ppm	Naturally occurring soluble mineral salts.
2008	Total Dissolved Solids	222	222 - 222	1000	ppm	Total dissolved mineral constituents in water.

**Lead and Copper:** - These samples are taken from the customer taps.

Year	Constituent	The 90th Percentile	Number of Sites Exceeding Action Level	Action Level	Unit of Measure	Source of Contaminant
2007	Lead	7.10	1	15	ppb	Corrosion of household plumbing systems; erosion of natural deposits.
2007	Copper	0.1410	1	1.3	ppm	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives.

\* The 90th percentile of the Lead/ Copper analysis means the top 10% (highest sample results) of all samples collected.

### **Recommended Additional Health Information for Lead in Drinking Water:**

*"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 home 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 by an approved laboratory. 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>."*



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P.O. Box 2749  
Spring, TX 77383



**2009 Drinking Water Quality Report Enclosed**

[www.HCMUD43.org](http://www.HCMUD43.org)

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