

TX2250004 TRI SUD

Annual Water Quality Report

For the period of January 1 to December 31, 2016

This report is intended to provide you with important information about your drinking water and the efforts made by the water system to provide safe drinking water.

For public participation in our decision making,
Directors Meetings are held every third
Tuesday at 12:00 noon at our office:

Location: 300 West 16th Street
Mount Pleasant TX 75455
Phone: 903-572-3676

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 here. We hope this information helps you become more knowledgeable about what's in your drinking water. **Where do we get our drinking water?** Our drinking water is obtained from a surface water source from the City of Mount Pleasant which comes from Lake Bob Sandlin. The TCEQ has completed a Source Water Assessment for all drinking water systems that own their sources. This report describes the susceptibility and types of constituents that may come into contact with the 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 at our system, contact **Aaron Gann, General Manager, at 903-572-3676**. For more information about our water sources, please refer to the following: <https://www.tceq.texas.gov/gis/swaview> or <http://dww.tceq.texas.gov/DWW>

Este informe contiene información muy importante sobre su agua potable. Tradúzcalo ó hable con alguien que lo entienda bien.

About the Table on page two:

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 persons such as those undergoing chemotherapy for cancer, 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.

The table on page two lists all the federally regulated or monitored contaminants which have been found in your drinking water. The U.S. EPA requires water systems to test up to 97 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 Environmental Protection Agency's Safe Drinking Water Hotline (800) 426-4791.

Secondary Constituents

Secondary 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.

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 before treatment include: microbes, inorganic contaminants, pesticides, herbicides, radioactive contaminants, and organic chemical contaminants.

Water Loss

In the water loss audit submitted to the Texas Water Development Board for the time period of Jan-Dec 2016, our system lost an estimated 126,879,854 gallons of water, including leaks and fire department usage. If you have any questions about the water loss audit, please call 903-572-3676.

Definitions:

Maximum Contaminant Level (MCL) – The highest contaminant level permissible 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 the 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.

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 (ug/L); **ppt** – parts per trillion, or nanograms per liter; **ppq** – parts per quadrillion, or picograms per liter.

2016 Drinking Water Quality Report
Consumer Confidence Report
For The
TRI SPECIAL UTILITY DISTRICT

Inorganic Contaminants

Year	Constituent	Highest Level at Any Sampling Point	Range of Detected Levels	MCL	MCLG	Unit of Measure	Violation	Source of Constituent
2016	Barium	0.056 MG/L	0.050 - 0.056	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
2016	Nitrate (as Nitrogen)	0.0194 MG/L	0.1 - 0.194	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks/sewage; Erosion of natural deposits.
2016	Fluoride	0.067 MG/L	0.06 - 0.67	4	4	ppm	N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
2016	Arsenic	0.0007 MG/L	Less than Detection Limit	.10	0	ppb	N	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production waste.
2016	Chromium	0.0004 MG/L	Less than Detection Limit	.10	.10	ppb	N	Discharge from steel and pulp mills; erosion of natural deposits.
2016	Selenium	Less than Detection Limit	0.001 MG/L	50	.05	ppb	N	Discharge from petroleum and metal refineries; Erosion of natural deposits; Discharge from mines.

Turbidity

2016	Level Detected	Limit (Treatment Technique)	Violation	Likely Source of Contamination
Highest Single Measurement	0.8	1 NTU	N	Soil Runoff
Lowest Monthly % of Samples Meeting Limits	100%	0.3 NTU	N	Soil Runoff

Turbidity is a measurement of the cloudiness of water; it is a good indicator of water quality and the effectiveness of our filtration system.

Disinfection By-Products

Year	Constituent	Highest Level Detected	Range of Detected Levels	MCL	MCLG	Unit of Measure	Violation	Source of Constituent
2016	Total Trihalomethanes	52	10.9 – 86.5	80	No goal for total	ppb	1	By-product of drinking water chlorination.
2016	Total Haloacetic Acid	30	13.9 – 52.6	60	No goal for total	ppb	1	By-product of drinking water chlorination.

Total Coliform Bacteria

Maximum Contaminant Level Goal	Total Coliform MCL	Highest Number Positive Samples	Violation	Likely Source of Contamination
0	1 positive monthly sample	1	N	Naturally present in the environment.

Fecal Coliform Bacteria

Maximum Contaminant Level Goal	Total Positive E. Coli or Fecal Coliform Samples	Violation	Likely Source of Contamination
0	1	N	Naturally present in the environment.

Lead and Copper

Year	Constituent	The 90 th Percentile	Number of Sites Exceeding Action Level	Violation	MCLG	Action Level	Unit of Measure	Source of Constituent
2016	Lead	0.095	1	N	1.3	1.3	ppm	Corrosion of household plumbing systems; erosion of natural deposits; Leaching from wood preservatives.
2016	Copper	2.88	0	N	0	15	ppm	Corrosion of household plumbing systems; Erosion of natural deposits.

All water systems are required by EPA to report the language below.

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 system 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>.

Disinfectant Residuals

Year	Constituent	Average	Highest	Lowest	MRDL	MCLG	Units	Source
2016	Chloramines	1.7	2.2	1	4	4	ppm	Disinfectant used to control microbes

Radioactive Contaminants

Year	Constituent	Highest	Range	MCLG	MCL	Units	Violation	Source
2011	Combined Radium 226/228	1	1 – 1	0	5	pCi/L	N	Erosion of natural deposits
2011	Beta/photon emitters	4.3	4.3 – 4.3	0	50	PCI/L*	N	Decay of natural and man-made deposits

**EPA considers 50 pCi/L to be the level of concern for beta particles.*

Violations Tables**Chlorine**

Some people who use water containing chlorine well in excess of the MRDL could experience irritating effects to their eyes and nose. Some people who drink water containing chlorine well in excess of the MRDL could experience stomach discomfort.

Violation Type	Violation Begin	Violation End	Violation Explanation
Disinfectant Level Quarterly Operating Report (DLQOR)	10/01/2016	12/31/16	We failed to provide the 1 st Quarter DLQOR Report to TCEQ by the due date. Corrective Action: Report to be filed online.

Lead and Copper Rule

The Lead and Copper Rule protects public health by minimizing lead and copper levels in drinking water, primarily by reducing water corrosivity. Lead and copper enter drinking water mainly from corrosion of lead and copper containing plumbing materials.

Violation Type	Violation Begin	Violation End	Violation Explanation
Follow-up or Routine Tap M/R (LCR)	10/01/2016	12/31/2016	We failed to retrieve a few of the LCR samples quickly enough from customers to be received by TCEQ by the date due. Corrective Action: We will have more site locations available for collection in the future.