



2017 Consumer Confidence Report Surface Water System ID# 1840079

Annual Water Quality report for the period of January 1 to December 31, 2017

Providing Safe and Reliable Drinking Water

The Parker County Special Utility District (PCSUD) provides safe and reliable drinking water to meet the needs of the citizens it serves. It is of the utmost importance to assure that water quality meets or exceeds all Safe Drinking Water Standards established by the U.S. Environmental Protection Agency (EPA) as well as regulations set by the Texas Commission on Environmental Quality (TCEQ). The PCSUD utilizes a multi-barrier treatment process to accomplish this goal. The *Consumer Confidence Report* (CCR) is a summary of the quality of the water PCSUD provides to its customers. The report includes analysis results from the most current EPA required water quality tests. PCSUD hopes this information helps you, the consumer, become more knowledgeable about your drinking water supply.

Where Do We Get Our Drinking Water?

Source Water Name	Type of Water	Report Status	Location
INTAKE - BRAZOS RIVER	SURFACE WATER	ACTIVE	Dennis, TX
SW FROM CITY OF MINERAL WELLS	CC FROM TX1820001 CITY OF SURFACE WATER	ACTIVE	Mineral Wells, TX

A Source Water Susceptibility Assessment for your drinking water source(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. For more information about your sources of water, please refer to the Source Water Assessment Viewer available at the following

URL: <http://gis3.tceq.state.tx.us/swav/Controller/index.jsp?wtrs> Further details about sources and source-water assessments are available in Drinking Water Watch at the following URL: <http://dww.tceq.texas.gov/DWW>

Sources of Drinking Water Contaminants

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. 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 at (800) 426-4791

Contaminants that may be present in source water before treatment include:

- Microbial contaminants, such as viruses and bacteria, which may come from wastewater 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.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Contaminants may be found in drinking water that may cause taste, color, or odor problems. These types of problems are not necessarily causes for health concerns. For more information on taste, odor, or color of drinking water, please contact our business office.

En Español

Este informe contiene información muy importante sobre el agua que usted bebe. Tradúzcalo o hable con alguien que lo entienda bien.

SPECIAL NOTICES

Public Participation Opportunities

Date: 3rd Thursday of Every Month

Time: 7:00 p.m.

Location: 500 Brock Spur
Millsap, Texas 76066

Phone: 817-594-2900

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

For more information regarding this report contact:

Phone: [817-594-2900](tel:817-594-2900)

Secondary Contaminants

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 EPA. These constituents are not causes for health concern. Therefore, secondary constituents are not required to be reported in this document but they may greatly affect the appearance and taste of your water.

Vulnerability of Some Populations to Contaminants in Drinking Water

Immuno-compromised individuals such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorder, 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 (1-800-426-4791)**. 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 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 it 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>.

TERMS TO KNOW

The following tables contain scientific terms and measures, some of which may require explanation.

<u>DEFINITIONS</u>	<u>ABBREVIATIONS</u>
<p>Action level (AL): The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.</p>	<p>Avg: Regulatory compliance with some MCLs are based on running annual average of monthly samples</p>
<p>Action Level Goal (ALG): The level of a contaminant in drinking water below which there is no known or expected risk to health. ALGs allow for a margin of safety.</p>	<p>MFL: Million fibers per liter (a measure of asbestos)</p>
<p>Maximum Contaminant Level Goal (MCLG): 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.</p>	<p>na: Not applicable</p>
<p>Maximum Contaminant Level (MCL): 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.</p>	<p>NTU: Nephelometric Turbidity Units (a measure of turbidity)</p>
<p>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.</p>	<p>pCi/L: Picocuries per liter (a measure of radioactivity)</p>
<p>Maximum Residual Disinfectant Level (MRDL): 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.</p>	<p>ppm: Milligrams per liter or parts per million - or one ounce in 7,350 gallons of water</p>
	<p>ppb: Micrograms per liter or parts per billion - or one ounce in 7,350,000 gallons of water</p>
	<p>ppq: Parts per quadrillion, or picograms per liter (pg/L)</p>
	<p>ppt: Parts per trillion, or nanograms per liter (ng/L)</p>

In the water loss audit submitted to the Texas Water Development Board for the time period of Jan-Dec 2017, our surface system produced 148,223,556 gallons of water and lost an estimated 13,180,912 gallons of water or 8.17%. If you have any questions about the water loss audit please call PCSUD 817-594-2900.

2017

**Parker County Special Utility District
Regulated Contaminants Detected**

Lead and Copper								
Definitions: Action Level Goal (ALG): The level of a contaminant in drinking water below which there is no known or expected risk to health. ALG's allow for a margin of safety. Action Level: The concentration of a contamination which, if exceeded, triggers treatment or other requirements which a water system must follow.								
Contaminant	Collection Date	90 th Percentile	Number of Sites Exceeding Action Level	Action Level	Units of Measure	Violation	Likely Source of Contamination	
Copper	9/9/2015	0.0563	0	1.3	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.	
Lead	9/9/2015	1.3	0	15	ppb	N	Corrosion of household plumbing systems. Erosion of natural deposits preservatives;	
Disinfection Byproducts								
Disinfectants and Disinfectants By-Products	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units of Measure	Violation	Likely Source of Contamination
Haloacetic Acids (HAA5)	2017	19	5.6 – 30.5	No goal for the total	60	ppb	N	By-product of drinking water chlorination
Total Trihalomethanes (THM)	2017	37	10.3 - 71	No goal for the total	80	ppb	N	By-product of drinking water chlorination
Inorganic Contaminants								
Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units of Measure	Violation	Likely Source of Contamination
Barium	2017	0.038	0.038-0.038	2	2	ppm	N	Discharge from drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Cyanide	2017	93.3	93.3 – 93.3	200	200	ppb	N	Discharge from plastic and fertilizer factories; Discharge from steel/metal factories.
Fluoride	2017	0.0676	0.0100-0.00500	4	4.0	ppm	N	Erosion of natural deposits; Water Additive which promotes strong teeth; Discharge from fertilizer and aluminum.
Nitrate [measured as Nitrogen]	2017	0.0104	0.014-0.0500	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.

Maximum Residual Disinfection Level								
Systems must complete and submit disinfection data on the Surface Water Monthly Operations Report (SWMOR). On the CCR report, the system must Provide disinfectant type, minimum, maximum and average.								
Disinfectant	Collection Date	Highest Single Sample	Range of Levels	MRDL	MRDLG	Units of Measure	Violation	Likely Source of Contamination
Chloramine	2017	4.0	1.7 – 4.0	2.8	3.62	ppm	N	Disinfectant used to control microbes.

Turbidity				
	Levels Detected	Treatment Technique Violation if:	Treatment Technique Violation (Y/N)	Likely Source of Contamination
Highest single measurement	0.3 NTU	Turbidity > 1 NTU	N	Soil runoff.
Lowest monthly % meeting turbidity limits	100.0%	Less than 95% of monthly turbidity measurements are < 0.30 NTU	N	Soil runoff.

Because Parker County Special Utility District (PCSUD) purchases water from the city of Mineral Wells so the Texas Commission on Environmental Quality requires PCSUD to provide the following water quality tests for the city of Mineral Wells.

Information about Source Water

TCEQ completed an assessment of your source water, and results indicate that some of our sources are susceptible to certain contaminants. The sampling requirements for your water system is based on this susceptibility and previous sample data. Any detection of these contaminants will be found in this Consumer Confidence Report. For more information on source water assessments and protection efforts at our system contact **City of Mineral Wells Public Works at 940-328-7777**.

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	2017	1.3	1.3	0.044	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.
Lead	2017	0	15	1.7	0	ppb	N	Corrosion of household plumbing systems; Erosion of natural deposits.

2017 Water Quality Test Results

Disinfection By-Products	Collection Date	Highest Level or Average	Range of Individual	MCLG	MCL	Units	Violation	Likely Source of Contamination
Chlorite	2017	1	0.32 - 1	0.8	1	ppm	N	By-product of drinking water disinfection.
Haloacetic Acids (HAA5)	2017	29	22.7 - 32	No goal for the total	60	ppb	N	By-product of drinking water disinfection.

*The value in the Highest Level or Average Detected column is the highest average of all HAA5 sample results collected at a location over a year'

Total Trihalomethanes	2017	83	36.1 - 79.5	No goal for the total	80	ppb	Y	By-product of drinking water disinfection.
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*The value in the Highest Level or Average Detected column is the highest average of all TTHM sample results collected at a location over a year'

Inorganic Contaminants	Collection Date	Highest Level or Average Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Barium	2017	0.11	0.11 - 0.11	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Cyanide	2017	47.8	47.8 - 47.8	200	200	ppb	N	Discharge from plastic and fertilizer factories; Discharge from steel/metal factories.
Fluoride	2017	0.1	0.147 - 0.147	4	4.0	ppm	N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum
Nitrate [measured as Nitrogen]	2017	0.0528	0.0528 - 0.0528	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.

Radioactive Contaminants	Collection Date	Highest Level or Average Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Beta/photon emitters	2017	6.2	6.2 - 6.2	0	4	mrem/yr	N	Decay of natural and man-made deposits.

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

Uranium	2017	1.2	1.2 - 1.2	0	30	ug/l	N	Erosion of natural deposits.
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Disinfectant Residual

City of Mineral Wells your data can be taken off the Disinfectant Level Quarterly Operating Reports (DLQOR).'

Disinfectant Residual	Year	Average Level	Range of Levels Detected	MRDL	MRDLG	Unit of Measure	Violation (Y/N)	Source in Drinking Water
	2017			4	4		ppm	Water additive used to control microbes.

Turbidity	Level Detected	Limit (Treatment)	Violation	Likely Source of Contamination
Highest single measurement	0.19 NTU	1 NTU	N	Soil runoff.
Lowest monthly % meeting limit	100%	0.3 NTU	N	Soil runoff.

Information Statement: Turbidity is a measurement of the cloudiness of the water caused by suspended particles. We monitor it because it is a good indicator of water quality and the effectiveness of our filtration system and disinfectants.

Total Organic Carbon

The percentage of Total Organic Carbon (TOC) removal was measured each month and the system met all TOC removal requirements set, unless a TOC violation is noted in the violations section.

City of Mineral Wells Violations

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
LEAD CONSUMER NOTICE (LCR)	12/30/2017	02/22/2018	We failed to provide the results of lead tap water monitoring to the consumers at the location water was tested. These were supposed to be provided no later than 30 days after learning the results.

Total Trihalomethanes (TTHM)			
Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous systems, and may have an increased risk of getting cancer.			
Violation Type	Violation Begin	Violation End	Violation Explanation
MCL, LRAA	04/01/2017	06/30/2017	Water samples showed that the amount of this contaminant in our drinking water was above its standard (called a maximum contaminant level and abbreviated MCL) for the period indicated.