

2019 CONSUMER CONFIDENCE REPORT FOR THE PUBLIC WATER SYSTEM
CITY OF WILLOW PARK
TX1840027

Annual Water Quality Report for the period of January 1 to
December 31, 2019.

For more information regarding this report contact:

CITY OF WILLOW PARK provides Ground Water from
the Trinity and Paluxy Aquifer in Parker County.

Michelle Guelker
Phone: (817) 441-7708

Este reporte incluye información importante sobre el
agua para tomar. Para asistencia en español, favor de
llamar al telefono (817) 441-7708.

Sources 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.

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 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.

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 the system's business office.

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; persons 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 (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. We are responsible for providing high quality drinking water, but we 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>.

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 detections 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 Michelle Guelker at (817) 441-7708.

Source Water Name	Well Name	Type of Water	Report Status	Location	Aquifer Name
Ground Storage	#1	Groundwater	Active	Indian Camp Rd.	Paluxy
Ground Storage	#2	Groundwater	Active	Indian Camp Rd.	Paluxy
Ground Storage	#3	Groundwater	Active	Indian Camp Rd.	Paluxy
Ground Storage	#4	Groundwater	Active	Indian Camp Rd.	Paluxy
Ground Storage	#5	Groundwater	Active	Indian Camp Rd.	Paluxy
Ground Storage	#6T	Groundwater	Active	Indian Camp Rd.	Trinity
Ground Storage	#6P	Groundwater	Active	Indian Camp Rd.	Paluxy
Ground Storage	#7	Groundwater	Active	Indian Camp Rd.	Paluxy
Ranch House Road	#9T	Groundwater	Active	Ranch House Rd.	Trinity
Ranch House Road	#9P	Groundwater	Active	Ranch House Rd.	Paluxy
Surrey	#10T	Groundwater	Active	Surrey Ln.	Trinity
Surrey	#10P	Groundwater	Active	Surrey Ln.	Paluxy
Willow Wood	#11P	Groundwater	Active	Squaw Creek	Paluxy
El Chico	El Chico T	Groundwater	Active	El Chico	Trinity
El Chico	El Chico P	Groundwater	Active	El Chico	Paluxy
Ground Storage	#14	Groundwater	Active	Indian Camp Rd.	Trinity
Ground Storage	#15	Groundwater	Active	Indian Camp Rd.	Paluxy
Fox Hunt	#16T	Groundwater	Active	Fox Hunt Trl.	Trinity
Fox Hunt	#16P	Groundwater	Active	Fox Hunt Trl.	Paluxy
Willow Wood	#12 WVN	Groundwater	Active	Forest Cr.	Paluxy
Willow Wood	#13 WWS	Groundwater	Active	Forest Cr.	Paluxy
Willow Springs Oaks	WSO T	Groundwater	Active	Circle Ct.	Trinity
Willow Springs Oaks	#20 WSO P	Groundwater	Active	Circle Ct.	Paluxy
Willow Springs	#17 WSS	Groundwater	Active	Quail Crest Dr.	Paluxy
Willow Springs	#18 WSN	Groundwater	Active	Quail Crest Dr.	Paluxy

2019 Disinfectant Residual Table

Disinfectant	Year	Average Level	Minimum Level	Maximum Level	MRDL	MRDLG	Unit of Measure	Violation	Like Source of Contamination
Chlorine, Gas	2019	1.15	0.20	2.15	4	4	ppm	No	Water additive used to control Microbes.

Coliform Bacteria

Maximum contaminant Level Goal	Total Coliform Maximum contaminant Level	Highest No. of Positive	Fecal Coliform or E. Coli Maximum Contaminant Level	Total No. of Positive E. Coli or Fecal Coliform Samples	Violation	Likely Source of Contamination
0	0	0		0	No	Naturally present in the environment.

2019 Water Loss Audit Information

Time Period Covered by Audit	Estimated Gallons of Water Lost	Comments and/or Explanations
January to December 2019	68,815,653*	Loss is due to leaks, meter errors, and flushing of water system to maintain water quality.

* Does not include calculation of water in the system at any given time.

2019 Water Use Survey Information

Water Use Survey is required yearly by the Texas Water Development Board

Time Period: Jan. to Dec. 2019	Produced Water: 263,393,181
Usage	Volume Used
Residential	142,854,614
Commercial	45,502,193
Institutional	5,646,595

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. ALGs allow for a margin of safety.

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

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	2019	1.3	1.3	0.144	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.
Lead	2019	0	15	0	1	ppb	N	Corrosion of household plumbing systems; Erosion of natural deposits.

Definitions and Abbreviations

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

- **Avg:** Regulatory compliance with some MCLs are based on running annual average of monthly samples.
- **Maximum Contaminant Level or 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.
- **Level 1 Assessment:** A Level 1 assessment is a study of the water system to identify potential problems and determine (if possible why total coliform bacteria have been found in our water system.
- **Maximum Contaminant Level Goal or 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.
- **Level 2 Assessment:** A Level 2 is a very detailed study of the water system to identify potential problems and determine (if possible) why an E. coli MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.
- **Maximum residual disinfectant level or 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.
- **Maximum residual disinfectant level goal or 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 contaminants.
- **MFL:** million fibers per liter (a measure of asbestos)
- **na:** not applicable.
- **NTU:** nephelometric turbidity units (a measure of turbidity)
- **pCi/L:** picocuries per liter (a measure of radioactivity)
- **ppb:** Micrograms per liter or parts per billion – or one ounce in 7,350,000 gallons of water

- **ppm:** Milligrams per liter or parts per million – or one ounce in 7,350 gallons of water
- **Treatment Technique or TT:** A required process intended to reduce the level of contaminant in drinking water.
- **ppt:** Parts per trillion, or nanograms per liter (mg/L)
- **ppq:** Parts per quadrillion, or picograms per liter (pg/L)

2019 Water Quality Test Results

Disinfection By-Products	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Haloacetic Acids (HAA5)	2019	1	0 - 1	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 (TTHM)	2019	14	6.89 - 14.1	No goal for the total	80	ppb	N	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 Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Barium	2019	0.11	0.029 - 0.11	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Chromium	2019	1.2	0 - 1.2	100	100	ppb	N	Discharge from steel and pulp mills; Erosion of natural deposits.
Fluoride	2019	0.846	0.427 - 0.846	4	4.0	ppm	N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
Nitrate [measured as Nitrogen]	2019	0.468	0.0589 - 0.468	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.

Radioactive Contaminants	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Combined Radium 226/228	2019	1.79	1.79 - 1.79	0	5	pCi/L	N	Erosion of natural deposits.
Gross alpha excluding radon and uranium	2019	11.2	0 - 11.2	0	15	pCi/L	N	Erosion of natural deposits.

Violations

Chlorine			
Violation Type	Violation Begin	Violation End	Violation Explanation
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.			
Disinfectant Level Quarterly Operating Report (DLQOR).	10/01/2019	12/31/2019	We failed to test our drinking water for the contaminant and period indicated. Because of this failure, we cannot be sure of the quality of our drinking water during the period indicated.

PUBLIC PARTICIPATION OPPORTUNITIES

City Council Meeting

Date: Second Tuesday of each month

Time: 7 P.M.

Location: 516 Ranch House Road, Willow Park, TX 76087

Phone Number: 817-441-7108