# City of De Leon 2017 Annual Drinking Water Report

(Also known as the Consumer Confidence Report)
Water System Identification Number - TX0470002

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

City of De Leon purchases treated surface water from the

Upper Leon River MWD which treats surface water from Lake Proctor

For more information regarding this report contact: David Denman, City Administrator at (254) 893-2065.

Este reporte incluye informacion sobre el agua para tomar. Para asistencia en espanol, favor de llamar at telephono (254) 893-2065

#### **PUBLIC PARTICIPATION OPPORTUNITIES**

Date: Second Monday of the month. Time: 6:00 pm Location: City Council Chambers, 125 S. Texas St., De Leon, Texas 76444

## 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 EPAs 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
- 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 Assessments

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?wtrsrc=

Further details about sources and source-water assessments are available in Drinking Water Watch at the following URL: http://dww.tceq.texas.gov/DWW

Source Water Name Type of Water Report Status Location
SW from Upper Leon River MWD CC From TX0470015 SW Complete Lake Proctor

Water Quality Test Results Explanation of Acronyms Used in this Report: 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.

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.

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.

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.

Level 2 Assessment: A level 2 assessment is a very detailed study of the water system to identify potential problems and determine (if possible why an E, coll MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.

Treatment Technique or TT: A required process intended to reduce the level of a contaminant in drinking water.

MFL: million fibers per liter (a measure of asbestos)

mrem: millirems per year (a measure of radiation absorbed by the body)

pCI/L: picocuries per liter (a measure of radioactivity)

na: not applicable

NTU: nephelometric turbidity units (a measure of turbidity)

ppb: micrograms per liter or parts per billion-or one ounce in 7,350,000

gallons of water.

ppt: parts per trillion, or nanograms per liter (ng/L)

ppm: milligrams per liter or parts per million-or one ounce in 7,350 gallons of water. ppq: parts per quadrillion, or picograms per liter (pg/L)

Disinfectant (Chloramine) levels Testing Results in the City of De Leon Distribution System

	Disinfectant	Year of Range	Average Level	Minimum Level	Maximum Level	MRDL	MRDLG	Unit of Measurement	Violation	Source of Chemical
	Chloramines	2017	2.66	1.35	3.6	4.0	4.0	ppm	N	Disinfectant used to control microbes

Microbiological (Coliforms) Testing Results in the City of De Leon System

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Type of	Year of Range	Total	E. coll	Total	Violation	Likely Source of
Contaminant		Coliform	Maximum	Number of		Contaminant
		Maximum	Contaminant	Positive E.		
		Contaminant	Level	coll or		
		Level		Positive		
				Total		
				Coliform		
				Samples		
				Collected		
Coliform bacteria	2017	Two are more samples collected in a month which are total coliform	0	0	N	Naturally present in environment
		positive				

2017 Water Loss Audit Information

Time Period Covered by Audit	Estimated Gallons of Water Lost During 2017	Comments and/or Explanations
January to December 2017	6,520,253	Most of the water lost during 2017 was the result of flushing to maintain water quality or leaks in the distribution system

#### 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. ALGs allow for a margin of safety. Action Level. The concentration

or a contamin	of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must rollow.											
Lead and	Date	MCLG	Action	90°	#Sites	Units	Violation	Likely Source of				
Copper	Sampled		Level(AL)	Percentile	Over AL			Contamination				
Copper	2015	1.3	1.3	0.052	1	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.				
Lead	2015	0	15	1.1	0	ppb	N	Corrosion of household plumbing systems; Erosion of natural deposits.				

Regulated Contaminants in the City of De Leon Distribution System

Disinfectants and	Collection	Highest	Range of	MCLG	MCL	Units	Violation	Likely Source of Contamination
Disinfection By-Products	Date	Level Detected	Levels Detected					
Haloacetic Acids (HAA5)	2017	35	19.4- 35	No Goal for the Total	60	bbp	Y	By-product of drinking water disinfection.
TotalTrihalomethanes (TTHM)	2017	50	34.2 - 50	No Goal for the Total	80	ppb	Y	By-product of drinking water disinfection.
Inorganic Contaminants	Collection Date	Highest Level	Range of Levels	MCLG	MCL	Units	Violation	Likely Source of Contamination

	1	Detected	Detected					
Nitrate [measured as Nitrogen]	2017	0.21	0.21-0.21	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Nitrite [measured as Nitrogen]	2015	0.07	0.07-0.07	1	1	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.

Regulated Contaminants in the Source Water – Upper Leon River MWD

Inorganic	Collection	Highest	Range of	MCLG	MCL	Units	Violation	Likely Source of Contamination
Contaminants	Date	Level Detected	Levels Detected					
Arsenic	2017	0.0026	0.0026-0.0026	0	0.01	ppm	N	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes.
Barium	2017	0.0842	0.0842-0.0842	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Fluoride	2017	0.10	0.10-0.10	4	4	ppm	N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
Nitrate (measured as N)	2017	0.11	0.11-0.11	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Selenium	2017	0.0039	0.0039-0.0039	50	50	ppm	N	Discharge from petroleum and metal refineries; Erosion of natural deposits; Discharge from mines.
Radioactive Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Beta/photon emitters	2012	6.8	6.8	0	50	pCi/L*	N	Decay of natural and man-made deposits
Combined Radium 226/228	2012	1.0	1.0	0	5	pCi/L	N	Erosion of natural deposits.

<sup>\*</sup>EPA considers 50 pCI/L to be the level of concern for beta particles.

# Important Information About Your Drinking Water

Public water systems must routinely monitor for drinking water contaminants. CITY OF DE LEON, TX0470002 failed to monitor for or meet drinking water standards. The table below lists each violation, the time period(s), potential health effects, and associated analytical results (if applicable).

Violation	Violation Number	Time Perio	. ,	Potential Health Effects	Analytical Results	
A Routine Total Coliform Rule (TCR) Monitoring/Reporting (M/R) violation	2016 12	07/01/2015	07/31/2015	Required samples for contaminant or contaminant group were not collected, or samples were not reported to TCEQ, for the specified monitoring period.	No Analytical Result(s) Associated	

You do not need to boil your water or obtain alternative water supply (e.g. bottle water) at this time. However, if you have specific health concerns, consult your doctor

If you have a severely compromised immune system, have an infant, are pregnant, or are elderly, you may be at increased risk and should seek advice from your health care providers about drinking this water. General guidelines on ways to lessen the risk of drinking water contaminants are available from EPA's Safe Drinking Water Hotline at 1-800-426-4791.

# Corrective Action:

CITY OF DE LEON has taken the following action(s) to return the system to compliance:

The additional samples were taken to meet TCEQ
requirements and monitoring performed afterwards

For more information, or to Jearn more about protecting your drinking water, please contact CITY OF DE LEO TX0470002 representative 200 Duncey at 254-893-2065.

Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.