

2016 Annual Drinking Water Quality Report

For more information, contact the City of Floresville at 830-393-3105 or visit floresvilletx.gov

City of Floresville is Groundwater

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 more information, contact Henrietta Turner, 830-393-3105.

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 hu-

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.

man activity.

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 opera-

Sources of Drinking Water

tions, 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 byproducts 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 regula-

tions 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

The TCEQ completed an assessment of your source water and results indicated that some of your sources are susceptible to certain contaminants. The sampling requirements for your water system are based on this suspeptibility

and previous sample data. Any detection of these contaminants may be found in this Consumer Confidence Report. For more information on source water assessments and protection efforts at our system, contact Edelmiro, Chapa, Water Plant Operator.

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 \$116,219,989 gallons of water. If you have any

questions about the water loss audit please call 830-393-3105.

For more information about your sources of water, please refer to the Source Water Assessment Viewer available at the following URL: http://www.tceq.texas.gov/ gis/swaview.

Further details about sources and source-water assessments are available in Drinking Water Watch at the following URL: http://dww2.tceq.texas.gov/DWW/.

Source Water Name

Type of Water Report Status Location 1 - 1404 HOSPITAL BLVD HOSPITAL BLVD **GW ACTIVE** CARRIZO - WILCOX AQUIFER 2 - 2701 B ST B ST **GW ACTIVE** CARRIZO - WILCOX AQUIFER 3 - 503 10TH ST **PLAZA** GW **ACTIVE** CARRIZO - WILCOX AQUIFER

The TCEQ has recognized the City's water system as SUPERIOR.

Water Quality Test Results

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 assessment 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 olisinfectant 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

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

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 a contaminant in drinking water.

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

ppq - parts per quadrillion, or picograms per liter (pg/L)

2016 Regulated Contaminants Detected

Coliform Bacteria

Maximum Contaminant Level Goal	Total Coliform Maximum Contaminant Level			Total No. of Positive E. Coli or Fecal Coliform Samples	Violation	Likely Source of Contamination
0	1 positive monthly sample	1	0 .	0	N	Naturally present in the environment.

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

Lead and Coopper	Date Sampled	MCLG	Action Level (AL)	90th Per- centile	# Sites Over AL	Units	Violation	Likely Source of Contamination	
Copper	2016	1.3	1.3	0.14	0	ppm	N ·	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.	
Lead	2016	0	15	2.4	0	ppb	N	Corrosion of household plumbing systems; Erosion of natural deposits.	

REGULATED CONTAMINANTS

N	Water additive used to control microbes.
N	By-product of drinking water disinfection.
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Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Barium	2016	0.116	0.0946 - 0.116	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Fluoride	07/30/2014	0.37	0.35 - 0.37	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)	2016	0.07	0.03 - 0.07	10	10	ppb	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Selenium	2016	3.1	0 - 3.1	50	50	ppb	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	2016	12.2	11.2 - 12.2	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.

Combined Radium 226/228	2016	2.7	- 2.4 - 2.7	0	5	pCi/L	N	Erosion of natural deposits.
Gross alpha excluding radon and uranium	2016	3,3	0 - 3.3	0	15	pCi/L	N	Erosion of natural deposits.

SNS	of lead and copper containing plumbing materials.								
	Ш	Violation Type	Violation Begin	Violation End	Violation Explanation				
	8	LEAD CONSUMER							
	<u>ا</u> ≥	NOTICE (LCR)	12/30/2013	02/15/2017	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.				
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