

2022 Consumer Confidence Report for Public Water System CITY OF FLORENCE

This is your water quality report for January 1 to December 31, 2022

CITY OF FLORENCE provides surface water and ground water from the Trinity aquifer and purchased water from the City of Georgetown, Lake Georgetown located in Williamson County Texas.

For more information regarding this report contact:

Name Jeff Dixon

Phone 254-793-8037

Este reporte incluye información importante sobre el agua para tomar. Para asistencia en español, favor de llamar al telefono (254)793-8037.

Definitions and Abbreviations

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

Action Level:

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

Avg:

Regulatory compliance with some MCLs are based on running annual average of monthly samples.

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. coli MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.

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.

MFL

million fibers per liter (a measure of asbestos)

mrem:

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

na:

not applicable.

NTU

nephelometric turbidity units (a measure of turbidity)

pCi/L

picocuries per liter (a measure of radioactivity)

Definitions and Abbreviations

ppb:	micrograms per liter or parts per billion
ppm:	milligrams per liter or parts per million
ppq	parts per quadrillion, or picograms per liter (pg/L)
ppt	parts per trillion, or nanograms per liter (ng/L)
Treatment Technique or TT:	A required process intended to reduce the level of a contaminant in drinking water.

Information about your 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

CITY OF FLORENCE purchases water from CITY OF GEORGETOWN. CITY OF GEORGETOWN provides purchase surface water from Lake Georgetown located in Williamson County. 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 Jeff Dixon at 254-793-8037

2022 Water Quality Test Results tested by the City of Florence

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	2022	1.3	1.3	0.36	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems
Lead	2022	0	15	2.7	1	ppb	N	Corrosion of household plumbing systems; Erosion of natural deposits.

Disinfection By-Products	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Haloacetic Acids (HAA5)	2022	22	6.8 - 26.1	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)	2022	71	30.8 - 97.5	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
Arsenic	2022	3.4	3.4 - 3.4	0	10	ppb	N	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes.
Barium	2022	0.0595	0.0595 - 0.0595	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.

Fluoride	2022	0.92	0.92 - 0.92	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]	2022	0.17	0 - 0.17	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Selenium	2022	10.1	10.1 - 10.1	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 Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Beta/photon emitters	2022	5.8	5.8 - 5.8	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	01/26/2021	3.02	3.02 - 3.02	0	5	pCi/L	N	Erosion of natural deposits.
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Disinfectant Residual

A blank disinfectant residual table has been added to the CCR template, you will need to add data to the fields. 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
Free Chlorine	2022	1.72	0.3-3.9	4	4	ppm	N	Water additive used to control microbes.

Additional 2022 Water Quality Test Results tested by the City of Georgetown

Synthetic Organic Contaminants, Semivolatile Organic Contaminants, Pesticides, Herbicides & Carbamates

Year	Constituent	High	Low	Average	MCL	MCLG	Units	Violation
2022	None exceeded detection levels							

Turbidity

Year	Constituent	High	Low	Average	MCL	MCLG	Units	Violation
2022	Turbidity	0.23	0.02	0.04	0.3	NA	NTU	N

Total Organic Carbon

Year	Constituent	High	Low	Average	MCL	MCLG	Units	Violation
2022	Source Water Total Organic Carbon (Surface/Ground)	1.40	0.60	1.05	None established		ppm	N
		3.30	2.36	2.94			ppm	N

2022	Treated Water Total Organic Carbon (Surface/Ground)	1.56	0.67	1.16	None established	ppm	N
		2.90	2.13	2.54		ppm	N

Unregulated Contaminants Monitored at Entry Point

Year	Constituent	High	Low	Average	MCL	MCLG	Units	Violation
2022	Dibromocloromethane	17.8	2.4	13.5	None established		ppb	N
2022	Chloroform	5.6	3	4.9	None established		ppb	N
2022	Bromoform	13.2	1.5	8.02	None established		ppb	N
2022	Bromodichlormethane	13.4	0.9	9.77	None established		ppb	N
2022	Hardness (surface water)	154	145	149	None established		mg/L	N
2022	Hardness (ground water)	286	251	273	None established		mg/L	N
2022	LSI (surface water)	-0.28	-0.28	-0.28	None established		NA	N
2022	LSI (ground water)	0.37	0.13	0.25	None established		NA	N

LSI - Langelier Stability Index. LSI between -0.5 and 0.5 means the water is stable or balanced.

The CITY OF FLORENCE water system PWS ID TX2460005 has violated the monitoring and reporting requirements set by Texas Commission on Environmental Quality (TCEQ) in Chapter 30, Section §290, Subchapter F. Public water systems in exceedance of an operational evaluation level are required to conduct an evaluation of their source water, treatment and distribution operations and submit a report of their findings to the TCEQ.

We failed to conduct an operational evaluation and/or submit a report to the TCEQ. This/ These violation(s) occurred in the monitoring period(s) quarter three 2022.

We are taking the following actions to address this issue:

An operational evaluation report was submitted in the required time frame. The TCEQ rejected the report because it was on the old form.

Please share this information with all other people who drink this water, especially those who may not have received this notice directly (i.e., 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.

If you have questions regarding this matter, you may contact Jeff Dixon at 254-793-8037

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