

2023 Consumer Confidence Report for The City of Richland

This is your water quality report for January 1 to December 31, 2023

For more information regarding this report contact: Ronda Franks at 903-362 3707

Este reporte incluye informacion sobre el agua para tomar. Para asistencia en espanol, favor de llamar al telefono 903-362-3707

Richland gets Surface Water from the City of Corsicana (Navarro Mills and Lake Halbert)

Definitions and Abbreviations

The following table 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 MCL's are based on 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 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. MCL's are set as close to the MCLG's 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. MCLG's allow for a margin of safety.
Maximum Residual Disinfectant Level or MRDL:	The highest level of 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. MRDLG's 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 radition absorbed by the body)
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
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 Tecnique 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 and bottled water) include rivers, lakes, streams, ponds, reervoirs, 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 animal or from human activity.

Drinking water, including bottled water, may be reasonably 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 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 the 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 sorces 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 found in drinking water that may cause taste, color or odor problems. These types of problems are not necessarily cause 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 from 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 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 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

The TCEQ has completed a Source Water Assessment for all drinking water systems that own their sources. The report 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 system from which we purchase our water received the assessment report. For more information on source water assessments and protection efforts at our system, contact Rory Evans. Source Water Name: Surface Water from The City of Corsicana. Location : Navarro Mills, the report status is active.

2023 Water Quality Test Results

Lead and Copper								Likely source of Contamination
	Sampled	MCLG	Action Level	90th Percentile	#sites over AL	Units	Violation	
Copper	2023	1.3	1.3	0.00343	0	ppm	N	Erosion of natural deposits; leaching from wood preservatives;
Lead	2023	0	1.5	0.8	0	ppb	N	Corrosion of household plumbing systems
								Corrosion of household plumbing systems; Erosion of natural deposits
Disinfection By-Products	Collection	Highest Level	Range of					Likely source of Contamination
	Date	Detected	Samples	MCLG	MCL	Units	Violation	
Haloacetic Acids (Haa5)	2023	20	6.3- 28.8	no goal	60	ppb	N	By-product of drinking water disinfection
Total Trihalomethanes (TTHM)	2023	62	39.1- 0.143	no goal	80	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 and TTHM samples collected at a location over a year								
Inorganic Contaminants	Collection	Highest Level	Range of					Likely source of Contamination
	Date	Detected	Samples	MCLG	MCL	Units	Violation	
Nitrate (measured as Nitrogen)	2023	1	0.0537-0.085	10	10	ppb	N	Runoff from fertilizer use; leaching from septic tanks, sewage;
								Erosion of natural deposits.
Nitrite (measured as Nitrogen)	7/27/2021	0.143	0.143- 0.143	1	1	ppm	N	Run off from fertilizer use; leaching from septic tanks, sewage;
								; Erosion of natural deposits

2023 Disinfectant Residual								
Disinfectant Residual	Average	Range			Unit			
Chloramines	Level	of Levels	MRDL	MRDLG	of Measure	Violation Y/N	Source in Drinking Water	
	1.46	.50-4.0	4	4	ppm	N	Water Additive used to control microbes	
From the City of Corsicana								
Inorganic Contaminants	Collection	Highest Level	Range of	MCLG	MCL	Units	Violation	Likely source of Contamination
	Date	Detected	Samples					Discharge of drilling wastes; Discharge from metal refineries;
Barium	2023	0.049	0.043-0.049	2	2	ppb	N	Erosion of natural deposits.
Cyanide	2023	30.6	0-30.6	200	200	ppb	N	Discharge from plastic and fertilizer factories; Discharge from steel/metal factories
Fluoride	2023	0.6	0.47-0.586	4	4	ppm	N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.....
Nitrate (measured as Nitrogen)	2023	0.27	0.0664-0.27	10	10	ppm	N	Runoff from fertilizer use; leaching from septic tanks, sewage; Erosion of natural deposits.
Synthetic Organic Contaminants including pesticides and herbicides								
Atrazine	2023	1	0-0.7	3	3	ppb	N	Runoff from herbicide used on row crops.
Turbidity 2023								
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 effectiveness of our filtration system and disinfectants.								
	Level	Limit	Violation	Likely source of Contamination				
	Detected	(TT)						
Highest Single Measurement	0.16	1 NTU	N	Soil Runoff				
Lowest Monthly % Meeting Limit	100%	0.3 NTU	N	Soil Runoff				
Total Organic Carbon 2023								
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.								