



2020 Annual Drinking Water Quality Report (Consumer Confidence Report)

Our Drinking Water is Regulated

The City of Victoria's water system has been given a "Superior" rating by the Texas Commission on Environmental Quality. This means that it either meets or exceeds all State and Federal water quality standards and that there is ample supply, storage, and pumping facilities to meet the citizens' needs.

This report is a summary of the quality of the water we provide our customers for the period of January 1, 2020, to December 31, 2020. The analysis was made by using the data from the most recent U.S. Environmental Protection Agency (EPA) required tests and is presented in the attached pages. We hope this information helps you become more knowledgeable about what is in your drinking water.

Drinking Water Sources

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 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.

When drinking water meets federal standards, there may not be any health based benefits to purchasing bottled water or point of use devices. 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 1-(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 Kevin Post, Surface Water Treatment Plant Manager, at (361) 485-3415.

Special Notice

Required Language for All Community Public Water Supplies:

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; those 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 for infections. You should seek advice about drinking water from your physician or health care provider. Additional guidelines on appropriate means to lessen the risk of infection by Cryptosporidium are available from the Safe Drinking Water Hotline at 800-426-4791.

En Español

Este reporte incluye la información importante sobre el agua para tomar. Para asistencia en español, favor de llamar al telefono (361) 485-3381 par hablar con una personal bilingüe en español.

Where Do We Get Our Drinking Water?

The City of Victoria's primary source is 20,000 acre feet of surface water from the Guadalupe River. This is about two times the amount of water that the City currently uses. This water is made available through a permit issued by the Texas Commission on Environmental Quality, (TCEQ). Because there are environmental restrictions placed on this permit and because there are senior water rights downstream of the City, there may be times during extreme drought situations when the City could not get all of the water that it needs from this source.

Therefore, in addition to the Guadalupe River water, the City has off-channel reservoirs holding 3,000 acre feet of water located on 640 acres of incorporated land. This water is a mixture of groundwater from a shallow aquifer and Guadalupe River water that the City has pumped into these reservoirs.

Lastly, the City of Victoria has retained 10 water wells for extreme emergencies and for peak demand periods. These wells are drilled into the Gulf Coast Aquifer and prior to 2001 they supplied all of the water for the City's residents.

The TCEQ completed an assessment of your source water and results indicate that some of your sources are susceptible to certain contaminants. The sampling requirements for your water system are based on this susceptibility and previous sample data. Any detection of these contaminants may be found in this Consumer Confidence Report. For more information on source water assesments and protection efforts at our system, contact the Surface Water Treatment Plant Manager at (361) 485-3415.

About the Following Pages

The pages that follow list all of the federally regulated or monitored contaminants which have been found in your drinking water. The U.S. EPA requires water systems to test for up to 97 contaminants. Although some of these components were detected in your water, none of them exceeded the Maximum Contaminant Level. The EPA and the TCEQ mandate that each community water system provide its customers with an annual Consumer Confidence Report. Much of the language contained in this report is required.

Public Participation Opportunities

You are invited to comment on this information during the Citizen Communication portion of any regularly scheduled City Council meeting. These meetings are held at 5:00 p.m. on the first and third Tuesdays of each month in the City Council Chambers, 107 W. Juan Linn Street, Victoria, Texas. To learn about future public meetings (concerning your drinking water), or to request one, please call us at (361) 485-3381.

Abbreviations

NTU - Nephelometric Turbidity Units

pCi/L - Picocuries per liter (a measure of radioactivity)

Definitions Used in This Report

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

Maximum Contaminant Level Goal (MCLG): The level of a contaminant in drinking water below which there is not a known or expected health risk. MCLGs allow for a margin of safety.

Maximum Contaminant Level (MCL): The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to maximum contaminant level goals as feasible using the best available treatment technology.

Maximum Residual Disinfectant Level (MRDL): The highest level of disinfectant allowed in drinking water. There is convincing evidence that addition of disinfectant is necessary for control of microbial contaminants.

Maximum Residual Disinfectant Level Goal (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.

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.

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

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.

na: not applicable.

2020 Regulated Contaminants Detected

Total Coliform

Total coliform bacteria are used as indicators of microbial contamination of drinking water because testing for them is easy. While not disease-causing organisms themselves, they are often found in association with other microbes that are capable of causing disease. Coliform bacteria are more hardy than many disease-causing organisms; therefore, their absence from water is a good indication that the water is microbiologically safe for human consumption.

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	5 % of monthly samples are positive.	2.6	0	0	N	Naturally present in the environment.

Maximum Residual Disinfectant Level

Disinfectant Residual	Year	Average Level	Range of Levels Detected	MRDL	MRDLG	Unit Of Measure	Violation (Y/N)	Source in Drinking Water
Total Chlorine	2020	2.63	0.5 - 4	4	4	mg/l	N	Water additive used to control microbes

Lead and Copper

	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# of Sites Over AL	Units	Violation	Likely Source of Contamination
Lead*	2020	0	15	<1.0	0	ppb	N	Corrosion of household plumbing systems; erosion of natural deposits
Copper*	2020	1.3	1.3	0.336	0	ppm	N	Erosion of natural deposits; leaching from wood preservatives; corrosion of household plumbing systems.

***Lead and Copper** – Required analysis will be taken in 2023. Testing is required every three years.

Required Additional Health Information for Lead

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. The City of Victoria is 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 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>.

Regulated Contaminants

Disinfectants and Disinfection By-Products

Disinfection By-Products	Collection Date	Highest Level or Avg Detected	Range of Individual Samples	MCLG	MCL	Unit	Violation	Likely Source of Contamination
Haloacetic Acid (HAA5)*	2020	16	1.2 - 18.8	No goal for the total	60	ppb	N	By-product of drinking water chlorination
Total Trihalomethanes (TTHm)*	2020	47	0 - 65.2	No goal for the total	80	ppb	N	By-product of drinking water chlorination
Chlorite	2020	0.647	0 - 0.647	0.8	1	ppm	N	By-product of drinking water chlorination

* The value in the Highest Level or Average Detected column is the highest average of all TTHM & HAA5 sample results collected at a location over a year'

Inorganic Contaminants

Contaminant	Collection Date	Highest Level or Avg. Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Arsenic	2020	<0.0020	<0.002 - <0.002	0	10	ppb	N	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production waste
Barium	2020	0.0702	0.0702 - 0.0702	2	2	ppm	N	Discharging of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Cyanide*	2020	<0.01	<0.01 - <0.01	200	200	ppb	N	Discharge from plastic, fertilizer, steel/metal factories
Chromium	2020	<0.01	<0.01	100	100	ppb	N	Discharge from steel and pulp mills; Erosion of natural deposits
Fluoride	2020	0.21	0.21 - 0.21	4	4.0	ppm	N	Erosion of natural deposits; Water additive which promotes strong teeth; discharge from fertilizer and aluminum
Nitrate (Measured as Nitrogen)	2020	1	0.99 - 0.99	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Selenium	2020	<0.003	<0.003	50	50	ppm	N	Discharge from petroleum and metal refineries; Erosion of natural deposits; Discharge from mines.
Thallium	2020	<0.0004	<0.0004	0.5	2	ppm	N	Discharge from electronics, glass and leaching from ore-processing sites; drug factories

* Required sampling every three years. Next required sample date is 2023.

Radioactive Contaminants

Radioactive Contaminants	Collection Date	Highest Level or Average Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Combined Radium 226/228*	2017	<1.0	<1.0	0	5	pCi/L	N	Erosion of natural deposits

*Required analysis will be taken in 2023. Testing is required every (6) six years.

Turbidity

Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms. These organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, diarrhea and associated headaches.

	Limit(Treatment Technique)	Level Detected	Violation	Likely Source of Contamination
Highest Single Measurement	1 NTU	0.11 NTU	N	Soil Runoff
Low est Monthly % Meeting Limit	0.3 NTU	100.00%	N	Soil Runoff

Total Organic Carbon (TOC)

Total organic carbon (TOC) has no health effects. The disinfectant can combine with TOC to form disinfection by-products. Disinfection is necessary to ensure that water does not have unacceptable levels of pathogens. By-products of disinfection include trihalomethanes (THMs) and haloacetic acids (HAA) which are reported elsewhere in the report.

Year	Contaminant	Average Level	Minimum Level	Maximum Level	Unit of Measure	Source of Contaminant
2020	Source Water	2.02	1.5	2.6	ppm	Naturally present in the environment
2020	Drinking Water	1.37	1.0	2.02	ppm	Naturally present in the environment
2020	Removal Ratio	32.1	33.3	22.3	%*	N/A

*Removal ratio is the percent of TOC removed by the treatment process divided by the percent of TOC required by TCEQ to be removed.

Cryptosporidium Monitoring Information

As required by the TCEQ, we have conducted Cryptosporidium monitoring. Cryptosporidium is a microbial parasite that may be commonly found in surface water. Cryptosporidium may come from animal and human feces in the watershed. **Our monitoring resulted in no Cryptosporidium being detected. No additional monitoring or treatment is required.**

Synthetic Organic Contaminants

Regulated Contaminants	Collection Date	Highest Level Detected	Range of Levels	MCLG	MCL	Units	Violation	Likley Source of Contaminant
Atrazine	2020	<0.1	0.1 - 0.1	3	3	ppm	N	Runoff from herbicide used on row crops
Di (2-ethylhexyl) Phthalate	2020	<0.6	0 - <0.6	0	6	ppm	N	Discharge from rubber and chemical factories

Unregulated Contaminants

Unregulated contaminants are those for which the EPA has not established drinking water standards. The purpose of unregulated contaminant monitoring is to assist the EPA in determining the occurrence of unregulated contaminants in drinking water and whether future regulation is warranted.

Year or Range	Contaminant	Average Level	Minimum Level	Maximum Level	Unit of Measure	Source of Contaminant
2020	Chloroform	6.42	<1.0	13.70	ppb	By-product of drinking water disinfection
2020	Bromoform	6.06	<1.0	9.00	ppb	By-product of drinking water disinfection
2020	Bromodichloromethane	11.4	<1.0	17.5	ppb	By-product of drinking water disinfection
2020	Dibromochloromethane	16.7	<1.0	25.2	ppb	By-product of drinking water disinfection

Secondary and other Constituents Not Regulated (No associated adverse health effects)

Many constituents (such as calcium, sodium, or iron) which are often found in drinking water, can cause taste, color, or odor problems. The taste and odor constituents are called secondary constituents and are regulated by the State of Texas, not EPA. These constituents are not causes for health concern. Therefore, secondaries are not required to be reported in this document but they may greatly affect the appearance and taste of your water.

Year	Constituent	Average Level	Minimum Level	Maximum Level	Secondary Limit	Unit of Measure	Source of Constituent
2020	Aluminum	<0.02	<0.02	<0.02	0.05	ppm	Abundant naturally occurring element
2020	Bicarbonate	229	212	212	NA	ppm	Corrosion of carbonate rocks such as limestone
2020	Calcium	56.7	44	44	NA	ppm	Abundant naturally occurring element
2020	Chloride	41	55	55	300	ppm	Abundant naturally occurring element; used in water purification; byproduct of oil field activity
2020	Copper	0.022	0.0237	0.0237	1	ppm	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
2020	Hardness as Ca/Mg	210	155	155	NA	ppm	Naturally occurring calcium and magnesium
2020	Magnesium	16.7	10.7	10.7	NA	ppm	Abundant naturally occurring element
2020	Manganese	<0.0010	<0.001	<0.001	0.05	ppm	Abundant naturally occurring element
2020	Nickel	0.0017	0.0022	0.0022	NA	ppm	Erosion of natural deposits
2020	pH	8.1	7.6	7.6	>7.0	units	Measure of corrosivity of water
2020	Sodium	31.9	57.4	57.4	NA	ppm	Erosion of natural deposits; byproduct of oil field activity
2020	Sulfate	41	22	22	300	ppm	Naturally occurring; common industrial byproduct; byproduct of oil field activity
2020	Total Alkalinity as CaCO ₃	188	174	174	NA	ppm	Naturally occurring soluble mineral salts
2020	Total Dissolved Solids	308	312	312	1000	ppm	Total dissolved mineral constituents in water
2020	Zinc	<0.0050	0.0095	0.0095	5	ppm	Moderately abundant naturally occurring element; used in the metal industry