



SouthWest
Water Company®

2020 Drinking Water Quality Report

(Consumer Confidence Report)



What's inside?

This is an annual, overall summary report of the water quality in your area that explains the source of your water, test results and general information for those with health concerns. The analysis was made 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's in your drinking water. If you have any questions concerning water quality or the source of your water, please call our Regulatory Department at 512-531-6271.

**Our drinking water meets or
exceeds all federal (EPA)
drinking water requirements.**



Special Notice for the ELDERLY, INFANTS, CANCER PATIENTS, people with HIV/AIDS or other immune problems: You may be more vulnerable than the general population to certain microbial contaminants, such as *Cryptosporidium*, in drinking water. Infants, some elderly or immune-compromised 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 from 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 (1-800-426-4791).

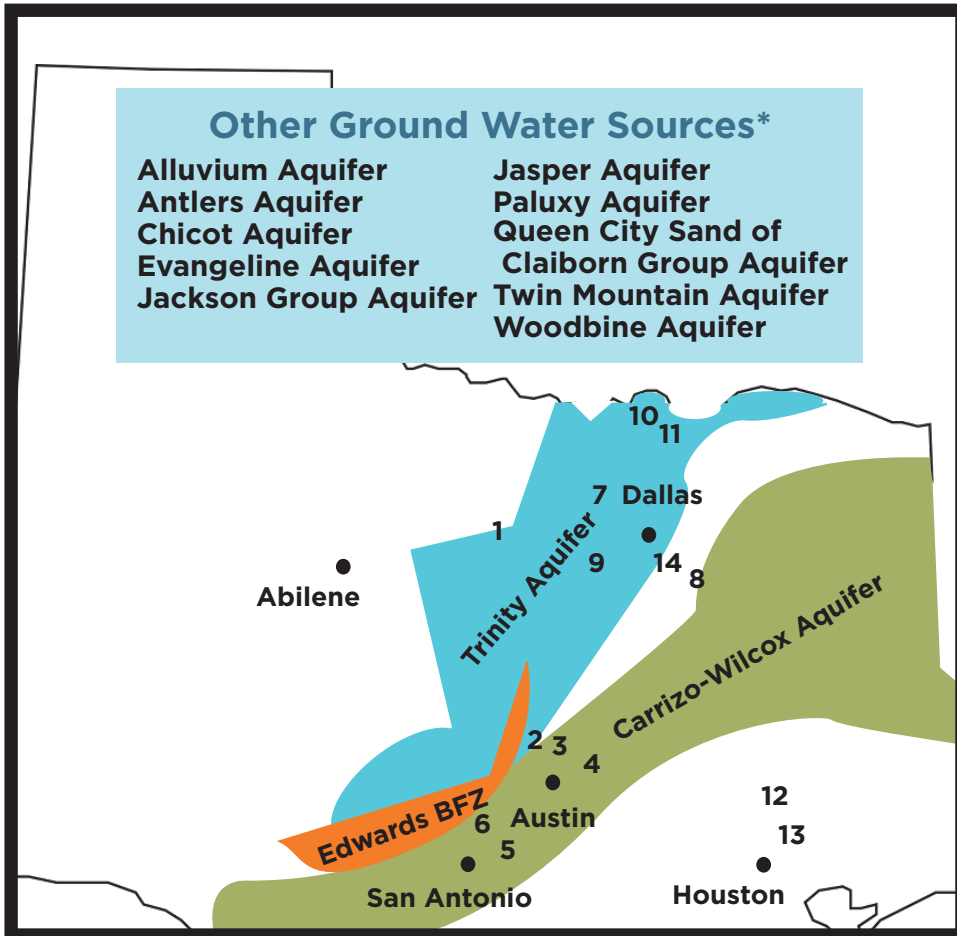
Water empowered.™

En Español: Este informe incluye información importante sobre el agua potable. Si tiene preguntas o comentarios sobre éste informe en español, favor de llamar al tel 1-866-654-7992 para hablar con una persona bilingue en español.

P.W.S.

Your Water Source

ON THE MAP



Lake Sources

- | | |
|-----------------------|--------------------------|
| 1 Possum Kingdom Lake | 8 Lake Palestine |
| 2 Lake Travis | 9 Lake Granbury |
| 3 Lake Austin | 10 Lake Texoma |
| 4 Lake Pflugerville | 11 Lake Randell |
| 5 Lake Dunlap | 12 Lake Livingston |
| 6 Canyon Lake | 13 Lake Houston |
| 7 Lake Bridgeport | 14 Cedar Creek Reservoir |

*These aquifers were too small to put on this map, but check it out online!

Public Participation Opportunities: The Utility does not hold regularly scheduled meetings. However, if you wish to contact the owners, please call our Customer Care at 866-654-7992.

TYPES OF SOURCES

rivers

lakes

streams

ponds

reservoirs

springs

wells

What is surface water?

The water found in rivers, streams, creeks, lakes, and reservoirs.

What's the water quality before treatment?

Surface water is affected by many factors, which is why it requires much more filtration and sanitization. Pollutants you can find within the untreated, raw water before treatment includes: fertilizers, litter, pesticides and large particles of dirt.

Why are there contaminants?

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. Contaminants that may be present in source water before treatment include: microbes, inorganic contaminants, pesticides, herbicides, radioactive contaminants, and organic chemical contaminants. Therefore, **all drinking water may contain contaminants**. The Texas Commission on Environmental Quality (TCEQ) completed an assessment of our source water and the results indicate that some of our sources are susceptible to certain contaminants. The sampling requirements for our water system are based on this susceptibility and previous sample data. Any detection of these contaminants will be found in this Consumer Confidence Report. For more information on source water assessments and protection efforts at our system, please contact us.

HOW IS SURFACE WATER TREATED?

1

Starts With the Source

Water comes through an intake from your local lake or reservoir.

Coagulation

Mixing solutions are added to the water to cause dirt particles to stick together.

2

3

Flocculation

Water is moved around to cause smaller dirt particles to collide and create larger particles.

Sedimentation

The water then flows through a basin or tank to allow the dirt particles to sink to the bottom in order to be removed easily.

4

5

Filtration

It passes through material that filters out the particles and other substances.

Disinfection

This process removes any naturally-occurring germs in the water.

6

7

Ends at Your Tap

After the water has been fully treated, it goes into a ground storage tank and is ready for you to turn on your tap.

What are the charts about?

The charts on 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.

How to read the charts:

From left to right, you will see the year the water was required to be tested, the contaminant we tested for, the amount detected within the water, the acceptable level developed by the EPA, and the source of the mentioned contaminant. For an even more detailed explanation, below are the definitions of the terms used within the charts.

DEFINITIONS

Maximum Contaminant Level Goal (MCLG)

The level of a contaminant in drinking water below which there is no known or expected health risk. MCLGs allow for a margin of safety before the contaminant reaches a harmful level.

Maximum Contaminant Level (MCL)

The highest allowable level of a contaminant in drinking water. MCLs are set as close to the MCLGs as possible using the best available treatment technology.

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 contamination.

Maximum Residual Disinfectant Level (MRDL)

The highest level of disinfectant allowed in drinking water. There is convincing evidence that an addition of a disinfectant is necessary for control of microbial contaminants.

Treatment Technique (TT)

A required process intended to reduce the level of a contaminant in drinking water.

Action Level (AL)

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

Secondary Constituents

Many constituents (such as calcium, sodium or iron) which are often found in drinking water can cause taste, color, and odor problems. The taste and odor constituents are called secondary constituents and are regulated by the State of Texas, not the 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.

Abbreviations

NTU – Nephelometric Turbidity Units
MFL – million fibers per liter (a measure of asbestos)
pCi/L – picocuries per liter (a measure of radioactivity)
ppm – parts per million, or milligrams per liter (mg/L)
ppb – parts per billion, or micrograms per liter ($\mu\text{g/L}$)
ppt – parts per trillion, or nanograms per liter
ppq – parts per quadrillion, or picograms per liter

**Want more day-to-day
water facts and info?**

**Visit: [www.swwc.com/
h2ome](http://www.swwc.com/h2ome)**

What is ground water?

The water found underground in the cracks and spaces in soil, sand and rock. It is stored in and moves slowly through geologic formations of soil, sand and rocks called aquifers.

What's the water quality before treatment?

The ground water we use has less contaminants than surface water because there is not much human interaction. Therefore, the water does not require as much filtration as our surface water.

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HOW IS GROUND WATER TREATED?

1

Starts With the Source

Water comes in pumped through a well from your local aquifer.

Cleaning the Water

Water is treated and sanitized with chlorine. This process is called chlorination. It is an effective way to kill naturally-occurring germs in ground water, and is a common practice by most systems.

2

3

Ends at Your Tap

Once the water has been cleaned, it goes into a ground storage tank and is ready for you to turn on your tap.



1: Well



2: Chlorination



3: Storage Tank

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Inorganic Contaminants

Year	Contaminant	Our Average Level	Minimum Level	Maximum Level	MCL	MCLG	Typical Source
2020	Barium (ppm)	0.099	0.099	0.099	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits.
2020	Chromium (ppb)	5.9	5.9	5.9	100	100	Discharge from steel and pulp mills; erosion of natural deposits.
2020	Cyanide (ppb)	50	50	50	200	200	Discharge from steel/metal factories; discharge from plastic and fertilizer factories
2020	Fluoride (ppm)	0.231	0.231	0.231	4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories.
2020	Nitrate (ppm)	0.21	0.159	0.263	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits.

Radioactive Contaminants

Year	Contaminant	Our Average Level	Minimum Level	Maximum Level	MCL	MCLG	Typical Source
2020	Combined Radium 226 & 228 (pCi/L)	4.59	4.41	4.87	5	0	Erosion of natural deposits.
2020	Gross alpha emitters (pCi/L)	16.36	11.3	20.2	50	0	Decay of natural and man-made deposits.
2020	Gross beta emitters (pCi/L)	8.23	5.7	10.5	15	0	Decay of natural and man-made deposits.

Organic Contaminants TESTING WAIVED, NOT REPORTED, OR NONE DETECTED

Maximum Residual Disinfectant Level

Year	Disinfectant	Our Average Level	Minimum Level	Maximum Level	MRDL	MRDLG	Typical Source
2020	Chloramines (ppm)	1.49	0.50	4.00	4.00	4.00	Disinfectant used to control microbes

Unregulated Initial Distribution System Evaluation for Disinfection Byproducts (DBP2)

Year	Contaminant	Our Average Level	Minimum Level	Maximum Level	MCL	Unit of Measure	Typical Source
2020	Total Haloacetic Acids	46.03	7.0	260	60	ppb	Byproduct of drinking water disinfection.
2020	Total Trihalomethanes	33.42	8.37	83.7	80	ppb	Byproduct of drinking water disinfection.

Unregulated Contaminants

Bromoform, chloroform, bromodichloromethane, and dibromochloromethane are disinfection byproducts. There is no maximum contaminant level for these chemicals at the entry point to distribution.

Year	Contaminant	Our Average Level	Minimum Level	Maximum Level	Unit of Measure	Typical Source
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2020	Chloroform	7.13	7.13	7.13	ppb	Byproduct of drinking water disinfection.
2020	Bromoform	1.49	1.49	1.49	ppb	Byproduct of drinking water disinfection.
2020	Bromodichloromethane	5.55	5.55	5.55	ppb	Byproduct of drinking water disinfection.
2020	Dibromochloromethane	3.37	3.37	3.37	ppb	Byproduct of drinking water disinfection.

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

Lead and Copper

Year	Contaminant	90% of Test Levels Were Less Than	# of Tests With Levels Above EPA's Action Level	Action Level	Unit of Measure	Typical Source
2018	Lead	0	0	15	ppb	Corrosion of household plumbing systems; erosion of natural deposits.
2018	Copper	0.12	0	1.3	ppm	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives.

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. This water supply 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>.

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.						
Year	Contaminant	Highest Single Measurement	Lowest Monthly % of Samples Meeting Limits		Turbidity Limits	Typical Source
2020	Turbidity (NTU)	0.44	100%		0.3	Soil runoff.

Total Coliform REPORTED MONTHLY TESTS FOUND NO TOTAL COLIFORM BACTERIA

Fecal Coliform REPORTED MONTHLY TESTS FOUND NO FECAL COLIFORM BACTERIA

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

Year	Contaminant	Our Average Level	Minimum Level	Maximum Level	Limit	Typical Source
2020	Aluminum (ppm)	0.031	0.031	0.031	0.05	Abundant naturally occurring element.
2020	Calcium (ppm)	54.7	54.7	54.7	NA	Abundant naturally occurring element.
2020	Chloride (ppm)	103	103	103	300	Abundant naturally occurring element; used in water purification; byproduct of oil field activity.

2018	Copper (ppm)	0.001	0.001	0.001	1	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives.
2020	Magnesium (ppm)	14	14	14	NA	Abundant naturally occurring element.
2020	Manganese (ppm)	0.069	0.069	0.069	0.05	Abundant naturally occurring element.
2018	Nickel (ppm)	0.002	0.002	0.002	NA	Erosion of natural deposits.
2020	Sodium (ppm)	155	155	155	NA	Erosion of natural deposits; byproduct of oil field activity.
2020	Sulfate (ppm)	113	113	113	300	Naturally occurring; common industrial byproduct; byproduct of oil field activity.
2020	Total Alkalinity as CaCO ₃ (ppm)	271	271	271	NA	Naturally occurring soluble mineral salts.
2020	Total Dissolved Solids (ppm)	625	625	625	1000	Total dissolved mineral constituents in water.
2020	Total Hardness as CaCO ₃ (ppm)	194	194	194	NA	Naturally occurring calcium.
2020	Zinc (ppm)	0.061	0.061	0.061	5	Moderately abundant naturally occurring element; used in the metal industry.

Violations

Total Haloacetic Acids (HAA5)

Some people who drink water containing Haloacetic Acids in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous systems, and may have an increased risk of getting cancer.

Violation Type	Violation Begin	Violation End	Violation Explanation
MCL, LRAA	07/01/2020	12/31/2020	Water samples showed that the amount of this contaminant in our drinking water was above its standard (called a maximum contaminant level and abbreviated MCL) for the period indicated.

Public Notification Rule

The Public Notification Rule helps to ensure that consumers will always know if there is a problem with their drinking water. These notices immediately alert consumers if there is a serious problem with their drinking water (e.g., a boil water emergency).

Violation Type	Violation Begin	Violation End	Violation Explanation
PUBLIC NOTICE RULE LINKED TO VIOLATION	07/01/2020	09/30/2020	We failed to adequately notify you, our drinking water consumers, about a violation of the drinking water regulations.