

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. The City of San Marcos maintains recognition from the State of Texas as a Superior Public Water System. For 2018, our Public Water System met all the state and federal drinking water regulations.

#### FACTS ABOUT YOUR DRINKING WATER

drinking water is obtained from surface and ground ty. The report describes the susceptibility and the water sources. Our ground water comes from the types of constituents that may come into contact Aquifer (South Edwards BFZ) and surface water comes from Canyon Lake.

We hope this information helps you become more knowledgeable about what's in your drinking water. Please feel free to contact our Water Quality Manager at (512) 393-8010 if you have any questions or would like to request a meeting regarding your Viewer available at: https://www.tceq.texas.gov/gis/ drinking water.

tled) include rivers. lakes. streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the or through land ground, dissolves naturally-occurring it minerals and, in radioactive some cases, sub-stances material. can pick resulting from the presence of animals or from human activity.

The City of San Marcos Water/Wastewater A Source Water Susceptibility Assessment for your Utilities' goal and responsibility is to provide drinking water source(s) has not been conducted you safe and reliable drinking water. Our by the Texas Commission on Environmental Qualiour with your drinking water source based on human activities and natural conditions. The information contained in this assessment allows us to focus our source water protection strategies.

> For more information about your sources of water, please refer to the Source Water Assessment swaview

The sources of drinking water (both tap and bot- Further details about sources and source water assessments are available in Drinking Water Watch https://www.tceq.texas.gov/drinkingwater/ drinking\_wq.html

# ALL DRINKING WATER MAY CONTAIN CONTAMINANTS

rinking 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.

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 us at (512) 393-8010.

Contaminants that may be present in source water before treatment 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 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 the result of oil and gas production and mining activities.

### LEAD IN HOMES

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water primarily comes 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 <a href="http://www.epa.gov/safewater/lead">http://www.epa.gov/safewater/lead</a>.

# IMPORTANT HEALTH INFORMATION

You may be more vulnerable than the general population to certain microbial contaminants, such as Cryptosporidium, in drinking water. Infants, some elderly, or immuno-compromised 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. These people should seek advice about drinking water from their health care providers. 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.

#### **WATER LOSS**

The City is required to submit a Water Audit Report to the Texas Water Development Board annually. In 2018, our system lost an estimated **154,365,912** of the **2,966,235,294** gallons that entered the system — or approximately **5.2**% of our water.



#### KEY TERMS AND ABBREVIATIONS

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

MCL (Maximum Contaminant Level): 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.

MCLG (Maximum Contaminant Level Goal): 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.

MRDL (Maximum Residual Disinfectant Level): 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.

MRDLG (Maximum Residual Disinfectant Level Goal): 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.

N/A: Not applicable

NTU (Nephelometric Turbidity Units):

Measurement of the clarity, or turbidity,
of water. Turbidity in excess of 5 NTU is
just noticeable to the average person.

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

ppb (parts per billion or micrograms per liter): One ounce in 7,350,000 gallons of water, or 1 penny in 10 million dollars.

ppm (parts per million or milligrams per liter): One ounce in 7,350 gallons of water, or 1 penny in 10 thousand dollars.

**Treatment Technique:** A required process intended to reduce the level of a contaminant in drinking water.

**NOTE:** All substances displayed on the following tables were sampled and analyzed during 2018 unless otherwise specified beside the name of the substance.

### **PUBLIC PARTICIPATION**

The Citizen Utility Advisory Board (CUAB) advises Council regarding business aspects of water and wastewater. Meetings are scheduled as needed. If you'd like to be notified of future meetings, sign up for e-Notify Me at www.sanmarcostx.gov. If you have a question, reach us by phone at (512) 393-8010 or visit us on the web at www.sanmarcostx.gov/water.

REGULATED CONTAMINANTS										
Inorganic Contaminants	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Violation	Unit of Measure	Likely Source of Contamination			
Barium	0.0473	0.3999 – 0.0473	2	2			Erosion of natural deposits; Discharge of drilling wastes; Discharge from metal refineries.			
Fluoride	0.22	0.19 – 0.22	4	4	No	ppm	Erosion of natural deposits; City discontinued adding fluoride in 2015.			
Nitrate – measured as Nitrogen	2.01	1.09 – 2.01	10	10			Erosion of natural deposits; Runoff from fertilizer use; Leaching from septic tanks, sewage.			
Radioactive Contaminants	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Violation	Unit of Measure	Likely Source of Contamination			
Combined Radium 226/228 (2017)	1.5	1.5-1.5	0	5	No	pCi/L	Ci/L Erosion of natural deposits.			
Turbidity	Limit (Treatment Technique)			Level	Detected	Violation	Possible Source of Substance			
Highest single measurement	1 NTU			0.0	7 NTU	No	Soil runoff.			
Lowest monthly % meeting limit	.3 NTU			1	100%	INO	Soli fution.			

**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 the effectiveness of our filtration system and disinfectants.

#### **Total Organic Carbon**

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.

Disinfection By-products	Highest Level Detected*	Range of Levels Detected	MCLG	MCL	Unit of Measure	Violation	Source of Substance		
Chlorite	0.294	0 -0.294	0.8	1.0	ppm	No			
Haloacetic Acids (HAA5)*	13	0 – 19.3	No goal for the total	60	ppb	No	By-product of drinking water disinfection.		
Total Trihalomethanes (TTHM)*	54	4.8—71	No goal for the total	for the 80 pp		No			

\*The value in the Highest Level Detected column for HAA5 and TTHM is the highest average of all the sample results collected at a location over a year.

REGULATED CONTAMINANTS (continued)												
Substance	MCLG	Action Level		ercentile Ilues	# Sites Over Action Level	Viola- tion	Unit o	·		Possible Source of Substance		
Copper (2017)	1.3	1.3	0	.18	0	No pp		1	Erosion of natural deposits; Corrosion of household plumbing systems.			
Lead (2017)	0	15	2	2.1	0	INO	ppb	)	Erosion of natural deposits; Corrosion of household plumbing systems.			
Sub	Substance		Avera	ge Level	Range of Levels Detected	MRDLG	MRD	DL	Violation	Unit of Measure	Source of Substance	
Disinfecta	Disinfectant Residual 1.23 0.03 - 6.10 <4.0 4.0		No		Chlorine gas or Sodium hypochlorite used as a disinfectant to control microbes.							
Substance			Coliform ICL	Highest Monthly % of Total Coliform Positive Samples		."  E-(	Total No. of Positive E-Coli or Fecal Coliform Samples		Violation	Source of Substance		
Coliforn	m Bacteria 5% per month 0% 0		)	No	Naturally present in the environment.							
OTHER MONITORED COMPOUNDS												
Substance	Aver Lev		linimum Level	Maximur Level	m MCL	Unit of Me	nit of Measure		Source of Substance			
Total Hardnes	s 15	.2	13.2	18.1	N/A	gpg (grain per g	gallon)	Chair which are largely made of calcium and magnesium carbonates. Hard water			e of calcium and magnesium carbonates. Hard water is	
( as CaCO3)	26	60	226	310	N/A			not a health risk, but a nuisance because of mineral buildup on plumbing fixtures and poor soap and/or detergent performance.				