REVISED 2020 DRINKING WATER QUALITY REPORT CITY OF SAN AUGUSTINE AND RURAL WATER CUSTOMERS

Phone No. 936-275-2121

CONSUMER CONFIDENCE REPORT 2020

OUR DRINKING WATER IS REGULATED

By the Texas Commission on Environmental Quality (TCEQ) and they have determined that certain water quality issues exist. The City of San Augustine has met all of the requirements as stated in the Federal Drinking water standards.

This report is a summary of the quality of the water we provide to our customers. 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's in your drinking water.

En Espanol

Este informe incluye informacion importante sobre el aqua potable. Si tiene preguntas o comentarios sobre este informe en espanol, favor de llamar al tel. (936) 275-2121.

Our drinking water is obtained from SURFACE water sources. It comes from Lake / River / Reservoir / Aquifer: San Augustine City Lake.

WATER SOURCES: The sources of drinking water (both tap and bottled) 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. Contaminants that may be present in source water before treatment includes: microbes, inorganic contaminants, pesticides, herbicides, radioactive contaminants, and organic chemical contaminants.

SPECIAL NOTICE for ELDERLY, INFANTS, CANCER PATIENTS, people with HIV / AIDS or other immune problems:

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV / AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health providers. EPA / Centers for Disease Control and Prevention (CDC) guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water HOTLINE (800-426-4791).

ALL drinking water may contain contaminates:

When drinking water meets federal standards there may not be any health-based benefits to purchasing bottled water or point of service devices. Drinking water, including bottled water, may reasonably be expected to contain a least small amounts of some contaminates. 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 EPA Safe Drinking Water HOTLINE (800-426-4791).

Secondary Constituents

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

Lead and Copper

If present, elevated levels of lead can cause serious health problems, especially for pregnant woman 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

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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.

About The Following Pages

The pages attached and below listed definitions provide all of the federally regulated or minitored constituents which have been found in your drinking water. U.S. EPA requires water systems to test up to 97 contaminants. The tables below contain all of the chemical constituents, which have been found in your drinking water. The City of San Augustine tested our water quality over 2,400 times in calendar year 2020.

DEFINITIONS

Maximum Contaminant Level (MCL) – The highest level of contaminant in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

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

Maximum Residual Disinfectant Level (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 (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.

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.

ABBREVIATIONS

NTU - Nephelometric Turbidity Units - Turbidity is the amount of particles in the water. Our source is from soil (Red Dirt) runoff into the City Lake.

MFL – million fibers per liter (a measure of asbestos)

pCi/I – pecocuries per liter (a measure of radioactivity)

ppm – parts per million, or milligrams per liter (mg/l)

ppb – parts per billion, or micrograms per liter (ug/l)

ppt - parts per trillion, or nanograms per liter

ppq - part per quadrillion, or picograms per liter

Public Participation Opportunities:

DATE: July 5, 2021

TIME:

10:00 A.M.

LOCATION: City Hall Council Chambers

PHONE: 936-275-2121

Chris Anding Superintendant

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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.

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Year	Contaminant	Highest Single	Lowest Monthly	Turbidity	Unit of	Source of Contaminant
		Measurement	% of Samples		Limits	
			Meeting Limits			
2020	Turbidity	0.96	99.00%	0.3	NTU	Soil Runoff

Organic Contaminants

Tested in 2020

Cryptosporidium Monitoring Information

"We monitored for Cryptosporidium. a microbial parasite that may be commonly found in surface water. Cryptosporidium may come from animal and human feces in the watershed. The result of our monitoring indicated that there may be Cryptosporidium in the raw water and/or treated finished water. Although treatment by filtration removes Cryptosporidium, it cannot guarantee 100 percent removal. The testing methods used cannot determine if the organisms are alive and capable of causing cryptosporidiosis. an abdominal infection with nausea, diarrhea and abdominal cramps that may occur after ingestion of contaminated water."

Total Coliform

NOT DETECTED

Fecal Coliform

NOT DETECTED

Disinfection Byproducts

Year	Contaminant	Average Level	Minimum Level	Maximum Level	MCL	Unit of Measure	Source of Contaminant
2020	Total Haloacetic Acids	31	83.5	55	60	ppb	Byproducts
							of Drinking Water
2020	Total Trihalomethanes	54.5	86	127	80	ppb	Disinfection

Unregulated Initial Distribution System Evaluation for Disinfection Byproducts

This evaluation is sampling required by EPA to determine the range of total trihalomethane and haloacetic acid in the system for nature regulations. The samples are not used for compliance, and may have been collected under non-standard conditions. EPA also requires the data to be reported here.

Year	Contaminant	Average Level		Maximum Level	MCL	Unit of Measure	Source of Contaminant
2020	Total Haloacetic Acids	31	83.5	55	60	ppb	Byproducts
							of Drinking Water
2020	Total Trihalomethanes	54.5	86	127	80	ppb	Disinfection

Inorganic Contaminates

Year	Contaminant	Average Level Measurement	Minimum Level	Maximum Level	MCL	MCLG	Unit of Measure	Source of Contaminant
2020	Gross Alpha	1.2	1.2	1.2	1.5	0	pCi/L	Erosion of Natural Deposits
2020	Barium	0.018	0.018	0.018	2	2	ppm	discharge of drilling waste,
2020	Chromium	0.001	0.001	0.001	0.1	0.1	ppb	discharge from steel mills
2020	Nitrate (measured as Nitrogen)	0.01	0.01	0.01	10	10	ppm	runoff from fertilizer use.
2020	Floride	0.0358	0.0358	0.0358	4	4	ppm	Erosion of Natural Deposits; Runoff from fertilizer use.

Maximum Residual Disinfection Level

Systems must complete and submit disinfection data on the Surface Water Monthly Operating Report (SWMOR). On the CCR report, the system must provide disinfection type. Minimum, maximum, and average levels.

Year	Disinfectant		Minimum Level	Maximum Level	MRDL	MRDLG	Unit of	Source of Contaminant
	Used	Quarterly Avg.					Measure	
2020	Chlorine	1.52	1.03	1.89	4.0	<4.0	ppm	Chlorine Gas

Unregulated Initial Distribution System Evaluation for Disinfective Byproducts WAIVED OR NOT YET SAMPLED

Total Organic Carbon (TOC)

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Total Organic Carbon (TOC) no helath effects. The disinfectant can combine with TOC to form disinfectant byproducts. Disinfection is necessary to ensure that water does not have unacceptable levels of pathogens. Byproducts of disinfection include Trihalomethanes (THM's) and Haloacetic Acids (HAA) which are reported elsewhere in this report.

Year	Contaminant	Average Level Measurement	Minimum Level	Maximum Leve	Unit of Measure	Source of Contaminant
2020	Lake Water	7.90	2.60	10.00	ppm	Naturally Present in Lake
2020	Drinking Water	2.26	1.50	3.10	ppm	Naturally Present in Lake
2020	l Removal Ratio	1	1	1		

We used alternative calculations

Removal Ratio is the percent of TOC removed by the treatment processs divided by the percent of TOC required by TCEQ to be removed.

Unregulated Contaminants

Bromoform, Chloroform, dichlorobromomethane, and dibromochloromethane are disinfectant byproducts. There is no maximum contiminant level for these chemicals at the entry point to distribution.							
Year o	r Range	Contaminant	Average Level	Minimum Level	Maximum - Level	Unit of Measurement	Source of Contimant
2020		Bromodichromomethane	15.1	13.2	20.4	ppb	Byproduct of drinking water disinfection
2020		Dibromochloromethane	3.24	2.39	4.72	ppb	Byproduct of drinking water disinfection
2020		Chloroform	58.9	36.3	95.9	ppb	Byproduct of drinking water disinfection

2018 Water Loss

2020	Produced Water	Total Water Loss Volume	Total Water Loss %
2020	267.281,000	65.467,782	35.90%

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VIOLATION TYPE	Health Effects	Duration	Explanation	Steps to Correct
DISTRIBUTION: MCL	Some people who drink water containing	1/1/2020	water samples showed that	We have increased sludge reduction
VIOLATION - TOTAL	trihalomethanes in excess of the MCL OVER	to	the amount of this contaminant	at the plant and the organic loading from the raw water to help lower the
TRIHALOMETHANES	MANY YEARS may experience problems	12/31/2020	in our drinking water was	TTHM numbers.
	problems with their liver, kidneys, or central		above its MCL	TTTM Hamboro.
	nervious systems, and may have an incresed risk		for the period indicated	
	of getting cancer. Proper notices have been made	£		

Violations

Public Notice Rule				Steps to Correct
Linked To Violation Linked To Violation	Violation Begin 1/4/2020	Violation End 1/22/2021	Explanation We failed to adequately notify you,our drinking water consumers,	The City now has a web page Customers can go to this page and
Linked To Violation			about a violation of the drinking water regulations.	view all public notices .
Linked To Violation				1
Linked To Violation				
				9

Violations

Consumer Confidence Rule						
The Consumer Confide	The Consumer Confidence Rule requires community water systems to prepare and provide to their customers annual consumer					
confidence reports on	the quality of the water deli	vered by the systems.	50 C.			
Violation Type	Violation Begin	Violation End	Violation Explanation			
CCR REPORT	7/1/2020	2/2/2021	We failed to provide to you, our drinking water			
	- Participation of the Partici		customers, an annual report that infors you about the			
			quality of our drinking water and characterizes the risks			
	No.		from exposure to contaminants detected in our drinking			