# 2020 Consumer Confidence Report for Public Water System G & W WSC

This is your water quality report for January 1 to December 31, 2020

 ${\sf G}$  & W WSC provides ground water from Gulf Coast Aquifer located in Waller County.

Name	David Derrick
Phone	936-372-9858
Este reporte	e incluye información importante sobre el agua para tomar. Para asistencia en español, favor de

For more information regarding this report contact:

llamar al telefono (936) 372 - 9858.

	Туре	Report Status	Location
1-27466 Riley Rd.	GW	Α	Aquifer- Gulf Coast
2-27466 Riley Rd.	GW	Α	Aquifer- Gulf Coast
3- FM1488/1 Mi S of Joseph	GW	Α	Aquifer- Gulf Coast
4-0.5 Mi N of Plant	GW	Α	Aquifer- Gulf Coast

#### Definitions and Abbreviations

Definitions and Abbreviations The following tables 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 MCLs are based on running annual 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 total 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. MCLs are set as close to the MCLGs 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. MCLGs allow for a margin of safety.

Maximum residual disinfectant level or MRDL: 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.

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. MRDLGs 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 radiation 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

ppt parts per quadrillion, or picograms per liter (pg/L)
ppt parts per trillion, or nanograms per liter (ng/L)

Treatment Technique 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 water and bottled water) include rivers, lakes, streams, ponds, reservoirs, 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 animals or from human activity.

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 EPAs Safe Drinking Water Hotline at (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 the system's business office.

#### Information about Source Water

TCEQ completed an assessment of your source water, and results indicate that some of our sources are susceptible to certain contaminants. The sampling requirements for your water system is based on this susceptibility and previous sample data. Any detections of these contaminants will be found in this Consumer Confidence Report. For more information on source water assessments and protection efforts at our system contact David Derrick, 936-372-9858.

In the water loss audit submitted to the TWDB for the time period Jan.- Dec. 2020, our system lost an estimated 4,413,369 gallons of water.

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	08/09/2018	1.3	1.3	0.0331	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing
Lead	08/09/2018	0	15	0.537	0	ppb	N	Corrosion of household plumbing systems; Erosion of natural deposits.

# **2020 Water Quality Test Results**

Disinfection By-Products	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Total Trihalomethanes (TTHM)	2020	1	1-1	No goal for the total	80	ppb	N	By-product of drinking water disinfection.

<sup>\*</sup>The value in the Highest Level or Average Detected column is the highest average of all TTHM sample results collected at a location over a year

Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Arsenic	08/16/2019	3.1	3.1 - 3.1	0	10	ppb	N	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes.
Barium	08/16/2019	0.171	0.171 - 0.171	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Fluoride	10/01/2019	0.45	0.45 - 0.45	4	4.0	ppm	N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
Selenium	08/16/2019	3.2	3.2 - 3.2	50	50	ppb	N	Discharge from petroleum and metal refineries; Erosion of natural deposits; Discharge from mines.

Radioactive Contaminants	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units		Likely Source of Contamination
Beta/photon emitters	08/16/2019	4.7	4.7 - 4.7	0	50	pCi/L*	N	Decay of natural and man-made deposits.
*EDA considera EO nCi/l to be the								

<sup>\*</sup>EPA considers 50 pCi/L to be the level of concern for beta particles.

Combined Radium 226/228	03/06/2018	2.16	2.16 - 2.16	0	5	pCì/L	N	Erosion of natural deposits.
Gross alpha excluding radon and uranium	08/16/2019	3.8	3.8 - 3.8	0	15	pCi/L	N	Erosion of natural deposits.

### **Disinfectant Residual**

Disinfectant Residual	Year	Average Level	Range of Levels Detected	MRDL	MRDLG	Unit of Measure	Violation (Y/N)	Source in Drinking Water
Chlorine (free)	2020	1,13	0.26-2.17	4	4	Mg/L	N	Water additive used to control microbes.

# 2020 Consumer Confidence Report for Public Water System G & W WSC FIELD STORE

This is your water quality report for January 1 to December 31, 2020

G & W WSC FIELD STORE provides ground water from Gulf Coast Aquifer located in Waller County.

For more information regarding this report contact:

Name <u>David Derrick</u>

Phone \_\_\_\_\_936-372-9858

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		Туре	Report Status	Location
1-	CR 306	GW	Α	Aquifer- Gulf Coast
2-	0.25 Mi W of STP	GW	Α	Aquifer- Gulf Coast
5-	0.3 Mi E of STP on CR 306	GW	Α	Aquifer- Gulf Coast
6-	13577 CR 446	GW	Α	Aquifer- Gulf Coast

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NTU nephelometric turbidity units (a measure of turbidity)

pCi/L picocuries per liter (a measure of radioactivity)

04/09/2021 - TX0930048\_2020\_2021-04-09\_14-09-56.DOC

ppb: micrograms per liter or parts per billion

ppm: milligrams per liter or parts per million

ppt parts per quadrillion, or picograms per liter (pg/L)
ppt parts per trillion, or nanograms per liter (ng/L)

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In the water loss audit submitted to the TWDB for the time period Jan.- Dec. 2020, our system lost an estimated 3,390,563 gallons of water.

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	2020	1.3	1.3	0.0383	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing
Lead	2020	0	15	1.23	0	ppb	N	Corrosion of household plumbing systems; Erosion of natural deposits.

# **2020 Water Quality Test Results**

Disinfection By-Products	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Total Trihalomethanes (TTHM)	2020	4	3.9 - 3.9	No goal for the total	80	ppb		By-product of drinking water disinfection.

<sup>\*</sup>The value in the Highest Level or Average Detected column is the highest average of all TTHM sample results collected at a location over a year

Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Arsenic	2020	10	8.5 - 10.8	0	10	ppb		Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes.

While your drinking water meets EPA standards for arsenic, it does contain low levels of arsenic. EPAs standard balances the current understanding of arsenics possible health effects against the costs of removing arsenic from drinking water. EPA continues to research the health effects of low levels of arsenic, which is a mineral known to cause cancer in humans at high concentrations and is linked to other health effects such as skin damage and circulatory problems.

Barium	08/31/2018	0.146	0.146 - 0.146	2	2	ppm	[	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Fluoride	11/13/2018	0.33	0.33 - 0.33	4	4.0	ppm	t .	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.

Radioactive Contaminants	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Beta/photon emitters	2020	25	15.8 - 25	0	50	pCi/L*	N	Decay of natural and man-made deposits.

<sup>\*</sup>EPA considers 50 pCI/L to be the level of concern for beta particles.

Combined Radium 226/228	2020	7	4.48 - 7.75	0	5	pCi/L	Υ	Erosion of natural deposits.
Gross alpha excluding radon and uranium	2020	29.7	16 - 29.7	0	15	pCi/L	Y	Erosion of natural deposits.

### Disinfectant Residual

Disinfectant Residual	Year	Average Level	Range of Levels Detected	MRDL	MRDLG	Unit of Measure	Violation (Y/N)	Source in Drinking Water
Chlorine (free)	2020	1.10	0.23-4.00	4	4	Mg/L	N	Water additive used to control microbes.

### **Violations**

### Combined Radium 226/228

Some people who drink water containing radium 226 or 228 in excess of the MCL over many years may have an increased risk of getting cancer.

Violation Type	Violation Begin	Violation End	Violation Explanation
MCL, AVERAGE	01/01/2020	03/31/2020	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.
MCL, AVERAGE	04/01/2020	06/30/2020	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.
MCL, AVERAGE	07/01/2020	09/30/2020	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.
MCL, AVERAGE	10/01/2020	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.

### Gross alpha excluding radon and uranium

Certain minerals are radioactive and may emit a form of radiation known as alpha radiation. Some people who drink water containing alpha emitters in excess of the MCL over many years may have an increased risk of getting cancer.

Violation Type	Violation Begin	Violation End	Violation Explanation
MCL, AVERAGE	01/01/2020	03/31/2020	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.
MCL, AVERAGE	04/01/2020	06/30/2020	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.
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### **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).

1-180/												
Violation Type	Violation Begin	Violation End	Violation Explanation									
PUBLIC NOTICE RULE LINKED TO VIOLATION	04/19/2020	05/06/2020	We failed to adequately notify you, our drinking water consumers, about a violation of the drinking water regulations.									
PUBLIC NOTICE RULE LINKED TO VIOLATION	04/26/2020	05/06/2020	We failed to adequately notify you, our drinking water consumers, about a violation of the drinking water regulations.									

# 2020 Consumer Confidence Report for Public Water System G & W WSC WOODLAND LAKES WATER SYSTEM

This is your water quality report for January 1 to December	er 31, 2020 For more in	For more information regarding this report contact:				
G & W WSC WOODLAND LAKES WATER SYSTEM provides Coast Aquifer located in Waller County.	ground water from Gulf Name	David Derrick				
	Phone	936-372-9858				
		e incluye información importante sobre el agua para tomar. Para asistencia en español, favor de efono ( <u>936) 372 - 9858</u> .				
7-32171 FM 1736 Hempstead, TX 77445	Type Report Status Location GW A Aquifer- Gulf Coast					
Definitions and Abbreviations						
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Maximum Contaminant Level or MCL:		${\sf MCLs}\ are\ set\ as\ close\ to\ the\ {\sf MCLGs}\ as\ feasible\ using\ the\ best\ available\ treatment\ technology.$				
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mrem:	millirems per year (a measure of radiation 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)

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#### Information about Source Water

TCEQ completed an assessment of your source water, and results indicate that our sources have a low susceptibility to contaminants. The sampling requirements for your water system is based on this susceptibility and previous sample data. Any detections of these contaminants will be found in this Consumer Confidence Report. For more information on source water assessments and protection efforts at our system contact David Derrick, 936-372-9858.

In the water loss audit submitted to the TWDB for the time period Jan.- Dec. 2020, our system lost an estimated 4,968,495 gallons of water.

### Coliform Bacteria

Maximum Contaminant Level Goal	Total Coliform Maximum Contaminant Level	-	Fecal Coliform or E. Coli Maximum Contaminant Level		Violation	Likely Source of Contamination
0	1 positive monthly sample.	1	0	0	N	Naturally present in the environment.

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	2020	1.3	1.3	0.0578	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing
Lead	2020	0	15	1.79	0	ppb	N	Corrosion of household plumbing systems; Erosion of natural deposits.

**2020 Water Quality Test Results** 

Disinfection By-Products	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Haloacetic Acids (HAA5)	05/28/2019	3.1	3.1 - 3.1	No goal for the total	60	ppb	N	By-product of drinking water disinfection.
Total Trihalomethanes (TTHM)	05/28/2019	48	48 - 48	No goal for the total	80	ppb	N	By-product of drinking water disinfection.

Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units		Likely Source of Contamination
Arsenic	10/01/2019	6.6	6.6 - 6.6	0	10	ppb	N	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes.

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Barium	10/01/2019	0.0647	0.0647 - 0.0647	2	2	ррт	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Fluoride	10/01/2019	1.03	1.03 - 1.03	4	4.0	ppm	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.

Volatile Organic Contaminants	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCI.	Units	Violation	Likely Source of Contamination
Xylenes	2020	0.0013	0.001 - 0.0013	10	10	ррт	N	Discharge from petroleum factories; Discharge from chemical factories.

### Disinfectant Residual

Disinfectant Residual	Year	Average Level	Range of Levels Detected	MRDL	MRDLG	Unit of Measure	Violation (Y/N)	Source in Drinking Water
Chlorine (free)	2020	0.99	0.25-3.90	4	4	Mg/L		Water additive used to control microbes.

# Violations

E. coli			
Fecal coliforms and E. coli are bacteria whose pre headaches, or other symptoms. They may pose a	sence indicates that the v special health risk for infa	vater may be contamin ints, young children, an	ated with human or animal wastes. Microbes in these wastes can cause short-term effects, such as diarrhea, cramps, nausea, id people with severely compromised immune systems.
Violation Type	Violation Begin	Violation End	Violation Explanation
MONITOR GWR TRIGGERED/ADDITIONAL, MAJOR	05/27/2020	09/28/2020	We failed to collect follow-up samples within 24 hours of learning of the total coliform-positive sample. These needed to be tested for fecal indicators from all sources that were being used at the time the positive sample was collected.

# 2020 Consumer Confidence Report for Public Water System SPRING PRESERVE WATER SYSTEM

This is your water quality report for January 1 to December 31, 2020 For more information regarding this report contact: SPRING PRESERVE WATER SYSTEM provides ground water from Gulf Coast Aquifer & David Derrick Brazos River Basin located in Waller County. Phone 936-372-9858 Este reporte incluye información importante sobre el agua para tomar. Para asistencia en español, fayor de llamar al telefono ( 936 ) 372 - 9858 Type Report Status Location 1- Spring Preserve Water Well-24689 Hegar Springs Parkway GW Aquifer-Gulf Coast & Brazos River Basin Α **Definitions and Abbreviations Definitions and Abbreviations** The following tables 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 MCLs are based on running annual 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 total 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. MCLs are set as close to the MCLGs 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. MCLGs allow for a margin of safety. Maximum residual disinfectant level or MRDL: 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. 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. MRDLGs 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 radiation 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 Technique 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 water and bottled water) include rivers, lakes, streams, ponds, reservoirs, 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 animals or from human activity.

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 EPAs Safe Drinking Water Hotline at (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 the system's business office.

#### Information about Source Water

No Source Water Assessment for your drinking water source(s) has been conducted by the TCEQ for your water system. The report describes the susceptibility and the types of constituents that may come into contact with your drinking water source based on human activities and natural conditions. The information in this assessment allows us to focus our source water protection strategies.

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	09/12/2019	1.3	1.3	0.027	0	ppm		Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing

# **2020 Water Quality Test Results**

Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Barium	02/13/2018	0.234	0.234 - 0.234	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Fluoride	02/13/2018	0.1	0.1 - 0.1	4	4.0	ppm	N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.

								sewage; Erosion of natural deposits.
					***************************************			
Volatile Organic Contaminants	Collection Date	Highest Level Detected	Range of Individual Samples	MÇLG	MCL	Units	Violation	Likely Source of Contamination
Toluene	2020	0.0006	0.0006 - 0.0006	1	1	ppm	1	Discharge from petroleum factories.

10

ppm

10

### **Disinfectant Residual**

Nitrate [measured as Nitrogen]

2020

0.14

0.14 - 0.14

Disinfectant Residual	Year	Average Level	Range of Levels Detected	MRDL	MRDLG	Unit of Measure	Violation (Y/N)	Source in Drinking Water
Chlorine (free)	2020	1.06	0.48-3.30	4	4	Mg/L		Water additive used to control microbes.

Runoff from fertilizer use; Leaching from septic tanks,

# 2020 Consumer Confidence Report for Public Water System KICKAPOO PRESERVE SUBDIVISION

For more information regarding this report contact:

KICKAPOO PRESERVE SUBDIVISION provides ground water Brazos River Basin located in Waller County.	from Gulf Coast Aquifer &	Name	David Derrick
·		Phone _	936-372-9858
		•	orte incluye información importante sobre el agua para tomar. Para asistencia en español, favor de telefono (936) 372-9858.
Definitions and Abbreviations			
Definitions and Abbreviations	The following tables contain scientific terms and me	asures, some	e of which may require explanation.
Action Level:	The concentration of a contaminant which, if exceed	led, triggers t	treatment or other requirements which a water system must follow.
Avg:	Regulatory compliance with some MCLs are based o	n running anı	nnual average of monthly samples.
Level 1 Assessment:	A Level 1 assessment is a study of the water system water system.	to identify po	potential problems and determine (if possible) why total coliform bacteria have been found in our
Level 2 Assessment:	A Level 2 assessment is a very detailed study of the and/or why total coliform bacteria have been found	•	n to identify otentiall "roblems an" d"termine (if pos"lb"e) why an E. coli MCL violation has occurred system on multiple occasions.
Maximum Contaminant Level or MCL:	The highest level of a contaminant that is allowed in	drinking wat	ter. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.
Maximum Contaminant Level Goal or MCLG:	The level of a contaminant in drinking water below v	which there is	is no known or expected risk to health. MCLGs allow for a margin of safety.
Maximum residual disinfectant level or MRDL:	The highest level of a disinfectant allowed in drinking contaminants.	g water. Ther	ere is convincing evidence that addition of a disinfectant is necessary for control of microbial
Maximum residual disinfectant level goal or MRDLG:	The level of a drinking water disinfectant below which control microbial contaminants.	ch there is no	o known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to
MFL	million fibers per liter (a measure of asbestos)		
mrem:	millirems per year (a measure of radiation absorbed	by the body)	)
na:	not applicable.		
NTU	nephelometric turbidity units (a measure of turbidity	y)	
pCi/L	picocuries per liter (a measure of radioactivity)		

This is your water quality report for January 1 to December 31, 2020

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 Technique 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 water and bottled water) include rivers, lakes, streams, ponds, reservoirs, 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 animals or from human activity.

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 EPAs Safe Drinking Water Hotline at (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 the system's business office.

#### Information about Source Water

KICKAPOO PRESERVE SUBDIVISION purchases water from SPRING PRESERVE WATER SYSTEM, SPRING PRESERVE WATER SYSTEM provides purchase ground water from Gulf Coast Aquifer & Brazos River Basin located in Waller County.

See 2020 Consumer Confidence Report for Spring Preserve Water System PWS#2370095 for monitoring results

TCEQ completed a Source Water Susceptibility for all drinking water systems that own their sources. This report describes the susceptibility and types of constituents that may come into contact with the drinking water source based on human activities and natural conditions. The system(s) from which we purchase our water received the assessment report. For more information on source water assessments and protection efforts at our system contact David Derrick, 936-372-9858.

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90 <sup>th</sup> Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	08/10/2018	1.3	1.3	0.05	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.

# **2020 Water Quality Test Results**

Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Nitrate [measured as Nitrogen]	2020	0.15	0.15 - 0.15	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.

### **Disinfectant Residuals**

Disinfectant Residual	Year	Average Level	Range of Levels	MRDL	MRDLG	Unit of Measure	Violation (Y/N)	Source in Drinking Water
Chlorine (free)	2020	1.05	0.69-1.96	4	4	Mg/L	N	Water additive used to control microbes.