

### **Public Input Opportunity**

Your city council meets at  
6:00 pm on the second Monday  
of each month at  
City Hall  
1109B Bayou Road  
La Marque, Texas 77568

To learn about future public meetings  
(concerning your drinking water) or to  
request to schedule one, please call  
us at (409) 938-9200.

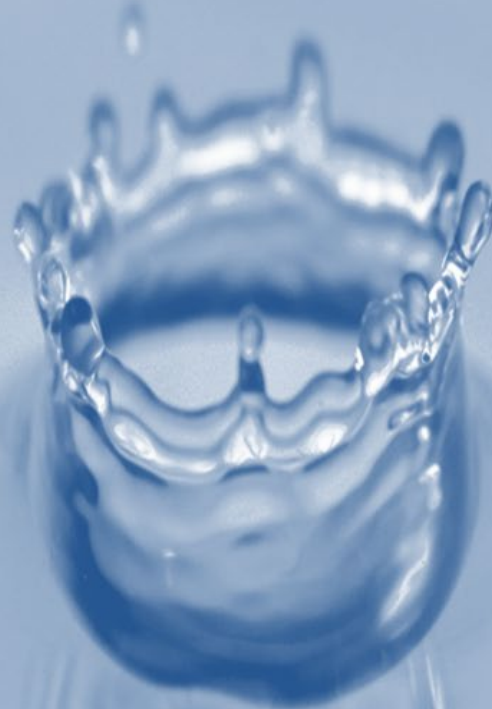
### **En Español**

*Este reporte incluye  
informacion importante sobre el  
agua para tomar. Para  
asistencia en español, favor de  
llamar al telefono  
(409) 938-9200.*



# 2019 Annual Drinking Water Quality Report

(Consumer Confidence Report)



CITY OF La Marque  
PWS# 0840006

## CITY OF La Marque

### **Our Drinking Water Meets or Exceeds All Federal and State Drinking Water Requirements**

This report is a summary of the quality of the water we provide our customers. The analysis was made by using the data from the most recent U.S. Environmental Protection Agency (EPA) required testing. We hope this information helps you become more knowledgeable about what's in your 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.

### **ALL drinking water may contain contaminants**

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 call (409) 938-9200, and for regulatory compliance department contact Sergio Torres at 281-456-9825.

### **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 immuno-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 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: (800-426-4791).

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. 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 <http://www.epa.gov/safewater/lead>

PUBLIC WATER SYSTEM ID#0840006

## Where Do We Get Our Water?

Our drinking water is obtained from ground water sources and Surface Water Sources. Our water comes from the City of La Marque Public Wells and Gulf Coast Water Authority. The Texas Commission on Environmental Quality 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 are based on the 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 protections efforts at our system, please contact Sergio Torres of our Regulatory Compliance Department at (281)-456-9825.

## About the Tables

EPA requires water systems to test for more than 90 contaminants in drinking water. The data tables in this report contain all of the regulated contaminants detected in your water, which are below state and federal allowed levels. The state of Texas allows us to monitor for some contaminants less than once per year because the concentrations do not change frequently. Definitions and abbreviations are provided below and sources of detected contaminants in this report follow the tables.

### Definitions and Abbreviations

*This table contains scientific terms and measures, some of which may require explanation.*

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:	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 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 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 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.
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.
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 - 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.
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 from City of La Marque (PWS # 0840006)								
Inorganic Contaminants								
Year	Contaminant	Highest Level Detected	Range of Detected Levels		MCL	MCLG	Units	Violation
2019	Nitrate	.78	<.05 - .78		10	10	ppm	No
Disinfection Byproducts								
Year	Contaminant	Highest Level Detected	Range of Detected Levels		MCL	MCLG	Units	Violation
2019	Haloacetic Acids (HAA5)	42	6.5 - 42		60	No goal for total	ppb	No
2019	Total Trihalomethanes (TTHM)	91.6	25.3 – 91.6		80	No goal for total	ppb	No
Unregulated Contaminants								
Year	Contaminant	Average Level	Range of Detected Levels		MCL	MCLG	Units	Violation
2019	Bromodichloromethane	14.4	5.2 – 30.3		No MCL	No Goal for the Total	ppb	No
2019	Bromoform	<6.32	<1 – 12.9		No MCL	No Goal for the Total	ppb	No
2019	Chloroform	14.51	2.8 – 39.2		No MCL	No Goal for the Total	ppb	No
Synthetic Organic Contaminants Including Pesticides and Herbicides								
Year	Contaminant	Highest Level Detected	Range of Detected Levels		MCL	MCLG	Units	Violation
2019	Dalapon	1	0 – 1		200	200	ppb	No
Maximum Residual Disinfectant Level								
Year	Contaminant	Average Level	Minimum Level	Maximum Level	MRDL	MRDLG	Units	Violation
2019	Chlorine Residual (Total)	2.68	.50	4.0	4	4	ppm	No
Lead & Copper								
Year	Contaminant	90th Percentile	Number of Sites Exceeding AL		AL	ALG	Units	Violation
2019	Copper	.361	0		1.3	1.3	ppm	No
2019	Lead	2.84	0		15	0	ppb	No

From January to December 2019, the City of La Marque received surface water through an open interconnect with the Gulf Coast Water Authority (GCWA) (PWS # 0840153). The following table contains information from GCWA's water supply. If you have any additional questions regarding the water supply, please call (409) 938-9200.

Inorganic Contaminants								
Year	Contaminant	Highest Level Detected	Range of Individual Samples		MCL	MCLG	Units	Violation
2019	Barium	.0688	.0688 - .0688		2	2	ppm	No
2019	Fluoride	.53	.53 - .53		4	4	ppm	No
2019	Nitrate	.46	.46 - .46		10	10	ppm	No
2019	Cyanide	30	30 - 30		200	200	ppb	No
Turbidity								
Year	Contaminant	Highest Level Detected	Lowest Percentage Meeting NTU		MCL	MCLG	Units	Violation
2019	Turbidity	.11	100%		<.3	<.3	NTU	No
Unregulated Conatminants								
Year	Contaminant	Highest Level Detected	Range of Individual Samples		MCL	MCLG	Units	Violation
2019	Chloroform	10	5.2 – 10		No MCL	No Goal for the Total	Ppb	No
2019	Bromoform	5.7	5.2 – 5.7		No MCL	No Goal for the Total	Ppb	No

Synthetic Organics							
Year	Contaminant	Highest Level Detected	Range of Individual Samples	MCL	MCLG	Units	Violation
2019	Atrazine	.13	.13 - .13	3	3	ppb	No
2019	Simazine	.25	.25 - .25	4	4	ppb	No
Disinfection By-Products							
Year	Contaminant	Highest Level Detected	Range of Detected Levels	MCL	MCLG	Units	Violation
2019	Haloacetic Acids (HAA5)	15.2	15.2 – 15.2	60	No	ppb	No
2019	Trihalomethanes (TTHM)	41.7	41.7 – 41.7	80	No	ppb	No
Coliform Bacteria							
Maximum Contaminant Level Goal	Total Coliform Maximum Contaminant Level	Fecal Coliform or E. Coli Maximum Contaminant Level		Highest No. of Positive	Total No. of Positive E. Coli or Fecal Coliform Samples	Violation	
0	1 positive monthly sample	Fecal Coliform or E. Coli MCL: A routine sample and a repeat sample are total coliform positive, and one is also fecal coliform or E. coli positive.		2	1	No	
*LRAA or Locational Running Annual Average is the highest average of sample results collected at a location over a year.							

### Violation Table

The Gulf Coast Water Authority failed to monitor for Chloramine and Turbidity for the monitoring period of January 1, 2019 – January 31, 2019. Gulf Coast Water Authority did sample for the contaminants, but the report was submitted past the deadline. The Gulf Coast Water Authority has changed protocol on how to submit the report.

\***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 bacteria, viruses, and parasites that could cause symptoms such as nausea, cramps, diarrhea, and associated headaches.

\***Chloramine** – Chloramine is the disinfectant that combines Chlorine with LAS or Gaseous Ammonia to disinfect the drinking water.

## **CONTAMINANT SOURCES & ADDITIONAL CONTAMINANT INFORMATION**

<u>CONTAMINANT</u>	<u>SOURCES</u>
Atrazine	Runoff from herbicide used on row crops
Barium	Discharge of drilling wastes; Discharge from metal refineries
Cyanide	Discharge from steel/metal factories; Discharge from plastic and fertilizer factories.
Fluoride	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
Simazine	Herbicide Runoff
Nitrate	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Haloacetic Acids (HAA5)	By-product of drinking water disinfection.
Total Trihalomethanes (TTHM)	By-product of drinking water disinfection.
Lead	Corrosion of household plumbing systems; erosion of natural deposits.

Copper	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems; erosion of natural deposits.
Chlorine Residual	Water additive used to control microbes.
Turbidity	Soil Runoff.
Dalapon	Runoff from herbicide used on rights of way
Unregulated Contaminants	Unregulated contaminants are those for which 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 regulation is warranted.

PUBLIC WATER SYSTEM ID#0840006

### Water Loss

In the water loss audit submitted to the Texas Water Development Board for the time period of Jan-Dec 2019, our system lost an estimated 55% percent of the total water produced.

If you have any questions about the water loss audit please call (409) 938-9200.

### 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, secondary constituents are not required to be reported in this document, but they may greatly affect the appearance and taste of your water.

#### **Outdoor Water Conservation Tips:**

- To keep your lawn healthy during the summer months - it only takes 1" of water a week.
- During the hot summer months, try to water in the early morning or late evening.
- In hot summer months, set your lawn mower to a higher setting, because taller grass helps hold in moisture. Cutting your grass too short can cause you to water more and can cause the grass to burn easier.
- Set your sprinkler system to a timer and adjust during the different seasons.

#### **Indoor Water Conservation Tips:**

- To save on water and energy, always run your dishwasher with a full load.
- Take a shower instead of a bath.
- Check for leaks in your toilets and faucets. (A helpful hint is to schedule this for every six months when you are checking your smoke detectors.)
- When brushing your teeth, shaving, or washing your hands, only run the water when it is time to rinse.

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