## 2019 Consumer Confidence Report for Public Water System CYPRESS SPRINGS SUD NORTH PLANT 1

This is your water quality report for January 1 to December 31, 2019

For more information regarding this report contact:

CYPRESS SPRINGS SUD NORTH PLANT 1 provides surface water and ground water from LAKE CYPRESS SPRINGS located in FRANKLIN COUNTY].

Name CYPRESS SPRINGS SUD

Phone 903-588-2082

Este reporte incluye información importante sobre el agua para tomar. Para asistencia en español, favor de llamar al telefono ( ) - .

#### **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.

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,

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)

#### **Definitions and Abbreviations**

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 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 Kevin Spence(Manager) 903-588-2082|'

Public Participation Opportunities

Date: 2nd Tuesday of the month

Location: 114 FM 115 Mt. Vernon, Tx.75457

903-588-2081

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	09/03/2019	1.3	1.3	0.034	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.
Lead	09/03/2019	0	15	1	0	ppb	N	Corrosion of household plumbing systems; Erosion of natural deposits.

Disinfection By-Products	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Haloacetic Acids (HAA5)	2019	61	9.2 - 77.8	No goal for the total	60	ppb	Y	By-product of drinking water disinfection.

<sup>\*</sup> The value in the Highest Level or Average Detected column is the highest average of all HAA5 sample results collected at a location over a year'

Total Trihalomethanes (FTHM)	2019	93	12.8 - 151	No goal for the total	80	ppb	Y	By-product of drinking water disinfection.
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<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
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Barium	2019	0.046	0.043 - 0.046	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries, Erosion of natural deposits.
Cyanide	2019	42.7	0 - 42.7	200	200	ppb	N	Discharge from plastic and fertilizer factories; Discharge from steel/metal factories.
Fluoride	2019	0.1	0.046 - 0.0709	4	4.0	ppm	N	Erosion of natural deposits, Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
Nitrate [measured as Nitrogen]	2019	0.167	0.155 - 0.167	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.

Radioactive Contaminants	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCI.	Units	Violation	Likely Source of Contamination
Beta/photon emitters	03/15/2017	5.3	0 - 5.3	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.

Synthetic organic contaminants including pesticides and herbicides	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Atrazine	2019	0.1	0 - 0.1	3	3	ppb	N	Runoff from herbicide used on row crops.
Hexachlorocyclopentadiene	2019	0.1	0 - 0.1	50	50	ppb	N	Discharge from chemical factories.

'A blank disinfectant residual table has been added to the CCR template, you will need to add data to the fields. Your data can be taken off the Disinfectant Level Quarterly Operating Reports (DLQOR).'

Disinfectant Residual	Year	Average Level	Range of Levels Detected	MRDL.	MRDLG	Unit of Measure	Violation (Y/N)	Source in Drinking Water
Chloramines	2019	2.56	1.0 – 3.3	4	4	ppm	N	Water additive used to control microbes.

## Coliform Bacteria

Maximum Contaminant Level . Goal		Highest No. of Positive	Pecal Coliform or E. Coli Maximum Contaminant Level	Total No. of Positive E. Coli or Fecal Coliform Samples		Likely Source of Contamination
. 0	1 positive	There were no TCR detections for this system in this CCR period		0	N	Naturally present in the environment.

## Turbidity

	Level Detected	Limit (Treatment Technique)	Violation	Likely Source of Contamination	
Highest single measurement	0.26 NTU	1 NTU	N	Soil runoff.	
Lowest monthly % meeting limit	100%	0.3 NTU	N	Soil runoff.	

Information Statement: 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 in the violations section.

#### Violations

## Haloacetic Acids (HAA5)

Some people who drink water containing haloacetic acids 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, LRAA	01/01/2019	03/31/2019	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.

### Total Trihalomethanes (TTHM)

Some people who drink water containing trihalomethanes 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	01/01/2019	03/31/2019	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, LRAA	04/01/2019	06/30/2019	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, LRAA	07/01/2019	09/30/2019	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.

On 4/2/19 we were notified by TCEQ that we exceeded the SMCL for secondary constituent level for Aluminum. The SMCL for Aluminum is .20mg/l. Our test result came back at .22mg/l. This is not an emergency. The E.P.A. states there are no adverse side effects. You do not need to use an alternate water supply. CSSUD are taking corrective actions (treatment techniques and modifications ) to get the level back in compliance as soon as possible.

Water Loss: During the 2013 83rd Legislative Session, House Bill H B 1461 was passed. It became effective on September 1,2013. H B 1461 requires any retail public water system to file a Water Loss Audit with the Texas Water Development Board . The water system also has to notify it's customers on the most recent report. The 2019 Water Loss Audit for PWS-0800003 CSSUD North Plant 1 was 13,354,521 gallons at 9.98%.CSSUD is currently using (BMP) Best Management Practices, replacing old lines and meters tohelp reduce water loss,

## 2019 Consumer Confidence Report for Public Water System CYPRESS SPRINGS SUD NORTHEAST PLANT 3

This is your water quality report for January 1 to December 31, 2019

For more information regarding this report contact:

CYPRESS SPRINGS SUD NORTHEAST PLANT 3 provides surface water and ground water from LAKE CYPRESS SPRINGS located in FRANKLIN COUNTY].

Name CYPRESS SPRINGS SUD

Phone 903-588-2082

Este reporte incluye información importante sobre el agua para tomar. Para asistencia en español, favor de llamar al telefono (\_\_\_\_) \_\_\_\_\_.

#### **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.

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.

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 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)

#### **Definitions and Abbreviations**

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 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 Kevin Spence(Manager) 903-588-2081

Public Participation Opportunities

Date: 2<sup>nd</sup> Tuesday of the month

Location: 114 FM 115 Mt Vernon .TX, 75457

20.00

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	09/03/2019	1.3	1.3	0.034	0	ppm	N	Erosion of natural deposits, Leaching from wood preservatives, Corrosion of household plumbing systems.
Lead	09/03/2019	0	15	1	0	ppb	N	Corrosion of household plumbing systems: Erosion of natural deposits

Disinfection By-Products	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCI.	Units	Violation	Likely Source of Contamination
Haloacetic Acids (HAA5)	2019	61	9.2 - 77.8	No goal for the total	60	ppb	Y	By-product of drinking water disinfection.

<sup>\*</sup> The value in the Highest Level or Average Detected column is the highest average of all HAA5 sample results collected at a location over a year'

Total Trihalomethanes (TTHM)	2019	93	12.8 - 151	No goal for the total	80	ppb	Y	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
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Barium	2019	0.046	0.043 - 0.046	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Cyanide	2019	42.7	0 - 42.7	200	200	ppb	N	Discharge from plastic and fertilizer factories; Discharge from steel/metal factories.
Fluoride	2019	0.1	0.046 - 0.0709	4	4.0	ppm	N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
Nitrate   measured as Nitrogen	2019	0.167	0.155 - 0.167	10	10	ppm	Z	Runoff from fertilizer use, Leaching from septic tanks, sewage; Erosion of natural deposits.

Radioactive Contaminants	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Beta/photon emitters	03/15/2017	5.3	0 - 5.3	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.

Synthetic organic contaminants including pesticides and herbicides	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Atrazine	2019	0.1	0 - 0.1	3	3	ppb	N	Runoff from herbicide used on row crops.
Hexachlorocyclopentadiene	2019	0.1	0 - 0.1	50	50	ppb	N	Discharge from chemical factories.

05/14/2020

'A blank disinfectant residual table has been added to the CCR template, you will need to add data to the fields. Your data can be taken off the Disinfectant Level Quarterly Operating Reports (DLQOR).'

Disinfectant Residual	Year	Average Level	Range of Levels Detected	MRDL.	MRDLG	Unit of Measure	Violation (Y/N)	Source in Drinking Water
Chloramines	2019	2.52	.7 - 3.5	4	4	ppm	N	Water additive used to control microbes.

## Turbidity

	Level Detected	Limit (Treatment Technique)	Violation	Likely Source of Contamination	
Highest single measurement	0.26 NTU	1 NTU	N	Soil runoff.	
Lowest monthly % meeting limit	100%	0.3 NTU	N	Soil runoff	

Information Statement: 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 in the violations section

#### Coliform Bacteria

Maximum Ontaminant Level . Goal	Total Coliform Maximum Contaminant Level	Highest No. of Positive	Fecal Coliform or E. Coli Maximum Contaminant Level	Total No. of Positive E. Coli or Fecal Coliform Samples	Violation	Likely Source of Contamination
0	1 positive monthly sample.	There were no TCR detections for this system in this CCR period		0	N	Naturally present in the environment.

WATER LOSS: During the 2013 83<sup>rd</sup> Legislative Session, House Bill HB 1461 was passed. It became effective on September 1,2013.HB 1461 requires any retail water system to file a Water Loss Audit with the Texas Water Development Board. The water system also has to notify it's customers on the most recent report. The 2019 Water Loss Audit for

PWS-0800003 CSSUD Northeast Plant 3 was 13,532,933 gallons at 9.65%. CSSUD is currently using (BMP) Best Management Practices, replacing old lines and meters to help reduce water loss.

Violation Notice: On 4/2/19 we were notified by TCEQ that we exceeded the SMCL for secondary constituent level for Aluminum. The SMCL for Aluminum is .20 mg/l. Our

Test results were .021 mg/l. This is not an emergency. The E.P.A. states there are no adverse health effects. You do not need to use an alternate water supply. We are taking corrective actions (treatment techniques and modifications) to get the level back in compliance as soon as possible.

## 2019 Consumer Confidence Report for Public Water System CYPRESS SPRINGS SUD PINE VALLEY

This is your water quality report for January 1 to December 31, 2019

For more information regarding this report contact:

CYPRESS SPRINGS SUD PINE VALLEY provides ground water from Carrizo/Wilcox Aquifer located in Franklin county. Name CYPRESS SPRINGS SUD

Phone 903-588-2081

Este reporte incluye información importante sobre el agua para tomar. Para asistencia en español, favor de llamar al telefono (\_\_\_) \_\_\_-

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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 disinfectant to

control microbial contaminants

MF1. million fibers per liter (a measure of asbestos)

mrem: millirems per year (a measure of radiation absorbed by the body)

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Public Participation Opportunities

Date: 2<sup>nd</sup> Tuesday of the week

Location: 114 FM 115 Mt. Vernon, TX.75457

903-588-2081]

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	09/03/2017	1.3	1.3	0.103	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.
Lead	09/03/2017	0	15	1.4	0	ppb	N	Corrosion of household plumbing systems; Erosion of natural deposits

Disinfection By-Products	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Haloacetic Acids (HAA5)	2019	8.8	8.8 - 8.8	No goal for the total	60	ppb	N	By-product of drinking water disinfection.

Total Trihalomethanes (TTHM)	2019	26.6	26.6 - 26.6	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	Violation	Likely Source of Contamination
Barium	2019	0.044	0.044 - 0.044	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Fluoride	2019	0.12	0.12 - 0.12	4	4.0	ppm	N	Erosion of natural deposits, Water additive which promotes strong teeth, Discharge from fertilizer and aluminum factories.
Nitrate   measured as Nitrogen	2019	0.0341	0.0341 - 0.0341	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage, Erosion of natural deposits.

'A blank disinfectant residual table has been added to the CCR template, you will need to add data to the fields. Your data can be taken off the Disinfectant Level Quarterly Operating Reports (DLQOR).'

Disinfectant Residual	Year	Average Level	Range of Levels Detected	MRDL	MRDLG	Unit of Measure	Violation (Y/N)	Source in Drinking Water
Free Chlorine	2019	.95	5 - 1.8	4	4	ppm	N	Water additive used to control microbes.

## Coliform Bacteria

Maximum Contaminant Level . Goal	Total Coliform Maximum Contaminant Level	Highest No. of Positive	Fecal Coliform or E. Coli Maximum Contaminant Level	Total No. of Positive E. Coli or Pecal Coliform Samples	Violation	Likely Source of Contamination
. 0	monthly sample.	There were no TCR detections for this system in this CCR period	<i>y</i>	0	N	Naturally present in the environment.

Water Loss: During the 83<sup>rd</sup> Legislative Session, House Bill HB 1461. Was passed. It became effective on September 1, 2013. HB 1461 requires any retail public water system to file a water loss audit with the Texas. Water Development Board. The water system also has to notify it's customers on the most recent report. The 2019. Water Loss Audit for CSSUD. PWS- 0800012 Pine Valley was 634,225 gallons at 16.83%.

# 2019 Consumer Confidence Report for Public Water System CYPRESS SPRINGS SUD SOUTH PLANT

This is your water quality report for January 1 to December 31, 2019

For more information regarding this report contact:

CYPRESS SPRINGS SUD SOUTH PLANT provides surface water from Lake Cypress Springs located in Franklin countyl.

Name CYPRESS SPRINGS SUD

Phone 903-588-2082

Este reporte incluye información importante sobre el agua para tomar. Para asistencia en español, favor de llamar al telefono ( ) -

#### **Definitions and Abbreviations**

Definitions and Abbreviations

The following tables contain scientific terms and measures, some of which may require explanation.

Action Level:

Avg

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

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.

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)

not applicable.

NTU

nephelometric turbidity units (a measure of turbidity)

pCi/L

picocuries per liter (a measure of radioactivity)

#### . Definitions and Abbreviations

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 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 Kevin Spence (Manager) 903-588-2081.

Public Participation Opportunities

Date: 2<sup>nd</sup> Tuesday of the month

Location: 114 FM 115 Mt. Vernon, TX. 75457

903-588-2082

Disinfection By-Products	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Haloacetic Acids (HAA5)	2019	44	21.9 - 41.9	No goal for the total	60	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 HAA5 sample results collected at a location over a year

Total Trihalomethanes (TTHM)	2019	63	21.6 - 72	No goal for the total	80	ppb	N	By-product of drinking water disinfection
				1				

<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

Barium	2019	0.041	0.041 - 0.041	2	2	ppm	N	Discharge of drilling wastes, Discharge from metal refineries, Erosion of natural deposits
Cyanid:	2019	31.7	31.7 - 31 7	200	200	ppb	N	Discharge from plastic and fertilizer factories. Discharge from steel/metal factories
Fluoride	2019	0.1	0.0539 - 0.0539	4	4.0	ppm	N	Erosion of natural deposits, Water additive which promotes strong teeth, Discharge from fertilizer and aluminum factories
Nitrate [measured as Nitrogen]	2019	0 0282	0.0282 - 0.0282	10	10	ppm	N	Runoff from fertilizer use, Leaching from septic tanks, sewage, Erosion of natural deposits

Radioactive Contaminants	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCI.	Units	Violation	Likely Source of Contamination
Beta/photon emitters	09/22/2015	7.1.	71-71	0	50	pCi/L*	N	Decay of natural and man-made deposits.
1.PA considers 50 pCi/L to be ti	hu loval of some on E							

Combined Radium 226/228	09/22/2015	1.5	15-15	0	5	pCi/L	N	Erosion of natural deposits

'A blank disinfectant residual table has been added to the CCR template, you will need to add data to the fields. Your data can be taken off the Disinfectant Level Quarterly Operating Reports (DLQOR),'

Disinfectant Residual	Year	Average Level	Range of Levels Detected	MRDI.	MRDLG	Unit of Measure	Violation (Y/N)	Source in Drinking Water
Chloramines	2019	2.58	1.4 - 3.5	4	4	ppm	N	Water additive used to control microbes

## Coliform Bacteria

Maximum Ontaminant Level - Goal	Total Coliform  Maximum  Contaminant  Level	Highest No. of Positive	Fecal Coliform or E. Coli Maximum Contaminant Level	Total No. of Positive E. Coli or Pecal Coliform Samples	Violation	Likely Source of Contamination
. 0	l positive monthly sample,	There were no TCR detections for this system in this CCR period	1	0	N	Naturally present in the environment.

## Turbidity

Level Detected	Limit (Treatment Technique)	Violation	Likely Source of Contamination
	rechinque		

MAXI

1	Highest single measurement	0.29 NTU	1 NTU	N	Soil runoff.
1	owest monthly % meeting limit	100%	0.3 NTU	N	Soil runoff.

Information Statement: 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 in the violations section.

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	09/03/2019	1.3	1.3	0.025	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.
Lead	09/03/2019	0	15	1	0	ppb	N	Corrosion of household plumbing systems; Erosion of natural deposits.

Water Loss: During the 2013 Legislative Sessions, House Bill **H B 1461** was passed. It became effective on September 1,2013. **H B 1461** requires any retail water system to file a Water Loss Audit with the Texas Water Development Board. The water system also has to notify it's customers of the most recent report. The 2019 Water Loss Audit for PWS - 0800016 CSSUD South Plant 2 was 11,751,655 gallons at 17.55%.