TYLER COUNTY SPECIAL UTILITY DISTRICT

TCEQ-Designated as a SUPERIOR WATER SYSTEM

2020 ANNUAL WATER QUALITY REPORT

OUR DRINKING WATER IS REGULATED BY THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY. 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 required tests, in conjunction with the Federal (EPA) Drinking Water Standards, and is presented in the following pages. We hope this information helps you to become more knowledgeable about what's in your drinking water. [*En Espanol: Este reporte incluye informacion importante sobre el aqua para tomar. Si tiene preguntas o' discusiones sobre este reporte en espanol, favor de llamar al tel. (409) 429-3994 par hablar con una persona bilingue en espanol.]* NOTE: The pages that follow (pages 3 -- 4) lists all the federally regulated or monitored contaminants found in your drinking water.

All drinking water may contain contaminants. When drinking water meets federal standards there may not be any health-based benefits to purchasing bottled water or point of use devices. Drinking water, including bottled water, may reasonably be expected to contain at least some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPA's Safe Drinking Water Hotline (1-800-426-4791).

Secondary Constituents: Many constituents (such as calcium, sodium, iron, or manganese) which are often found in drinking water, can cause taste, color, and odor problems; these are called Secondary Constituents and are regulated by the State of Texas, not EPA. These constituents are not a cause for health concerns and are not required to be a part of this report, but they may greatly affect the appearance and taste of your water. NOTE: Groundwater sources in Tyler County contain Iron (Fe) and Manganese (Mn), which are aesthetic issues – not health issues – and these constituents often cause discolored water. The Tyler County SUD has successfully completed the Rehabilitation of the Groundwater Filters at the Rockland Well, and these Filters are significantly reducing the levels of Iron and Manganese before the water enters the Rockland water distribution system.

Special Notice for the Elderly, Infants, Cancer Patients, People with HIV/AIDS, or other Immune Problems: Some people (as these listed or with similar health problems) may be more vulnerable to contaminants in drinking water than the general population. These people should seek advice about drinking water from their health care 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 (1-800-426-4791).

Water Sources: 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. Contaminants that may be present in source water before treatment include: microbes, inorganic contaminants, pesticides, herbicides, radioactive contaminants, and organic chemical contaminants.

Definitions and Water Quality Information: The following definitions pertain to the terms and abbreviations listed on the WATER QUALITY REPORT displayed on the following pages. Telephone numbers for obtaining additional water quality information include: TCEQ (512-239-1000) and the Tyler County SUD (409-429-3994).

- **Maximum Contaminant Level (MCL)** = The highest permissible level of a contaminant (constituents) in drinking water. MCLs are set as close to 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 no 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 disinfection is necessary for control of microbial contaminants.
- **Maximum Residual Disinfectant Level Goal (MRDLG):** The level of disinfectant (chlorine) 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 water contaminant.
- **Action Level (AL)** = The concentration of a contaminant, which – if exceeded – triggers treatment or other requirements which a water system must follow.
- **VOCs** = Volatile Organic Chemicals
- *Measurement Definitions:* **pCi/l** or **mrem/year** (picocuries per liter or millirems per year – measures of radioactivity); **ppm** (parts per million, or milligrams per liter – mg/l); **ppb** (parts per billion, or micrograms per liter), **NTU** (Nephelometric Turbidity Units – a measure of the degree of turbidity), **ppt** (parts per trillion or nanograms per liter), and **ppq** (parts per quadrillion or picograms per liter).

OTHER DEFINITIONS:

- Level 1 Assessment: A study of the water system to identify potential problems – if Coliform Bacteria have been found in the water system (not found in TCSUD system).
- Level 2 Assessment: A detailed study to identify potential problems – if Fecal Coliforms (E. Coli) have been found in the water system (not found in TCSUD system).

PUBLIC PARTICIPATION: The Tyler County SUD Board of Directors normally holds a Regular Monthly Board Meeting on the Third Tuesday of each Month (9:00 a.m.) at the TCSUD Office. Additionally, the TCSUD General Manager and Office Staff may be contacted via telephone # 409-429-3994, if you have any comments or questions in regard to this Water Quality Report or other issues associated with the Tyler County Special Utility District. **NOTE:** The TCSUD Office is open extended hours on Monday – Thursday (7:00 a.m. to 5:30 p.m.); Emergency Calls can be made to the TCSUD Answering Service (# 409-429-3994) when the Office is closed (after-hours and on Friday, Saturday, and Sunday). An outside Drop-Box is also available for receiving payments.

In 2015, based on the outstanding performance of the Tyler County Special Utility District, the TCEQ designated it as a SUPERIOR PUBLIC WATER SYSTEM.

Where Do We Get Our Drinking Water? Our drinking water is obtained from GROUNDWATER water sources and is pumped from the following Aquifer: GULF COAST. A Source Water Susceptibility Assessment for your drinking water source(s) is currently being updated by the Texas Commission on Environmental Quality. The report will describe the susceptibility and types of constituents that may come into contact with your drinking water source based on human activities and natural conditions. The information contained in the assessment will allow us to focus on source water protection strategies. For more information on source water assessments and protection efforts at our system, please contact us at # 409-429-3994; other details about sources and source-water assessments are available in Drinking Water Watch (TCEQ) at the following: **http://dww.tceq.texas.gov/DWW** ...

Source Water Name (Well)	Community / Area Served
1 – FM 92 / DAM B	DAM B and TOWN BLUFF
3 – FM 92 / SPURGER	SPURGER
4 – FM 92 / FRED	FRED (screen failure – Fred Well out of service)
5 – FM 1013 / HILLISTER	HILLISTER
6 – FM 1745 / DIES	DIES
7 – FM 255 / ROCKLAND	ROCKLAND
8 – ROCKLAND	ROCKLAND

THE CUSTOMER COMES FIRST: It is the GOAL of the TCSUD Board and Directors and Employees to make sure that that the **Customer Comes First** when he or she is being served by the Tyler County Special Utility District. This means that we are working hard to cut costs, to make certain that we are listening to Customer Concerns and that our response to these concerns is quick and complete, that we are being flexible (within the boundaries of TCSUD Policies) in dealing with Customer issues, that we respect our Customers and realize their value, and that we are making organizational improvements for the benefit of our Customers. **If you have any issues with the TCSUD, questions about the TCSUD organization, or have suggestions for ways that we can improve, please contact the TCSUD General Manager at # 409-429-3994.** Thank you.

Tyler County Special Utility District
P.O. Drawer 138 Spurger, Texas 77660

LEAD AND COPPER SAMPLES WERE TAKEN IN 2019 (samples are taken every 3 years – next samples will be taken in 2022). There were no Violations of the Lead and Copper Rule. Lead was below the Action Level of 0.015 ppm and Copper was below the Action Level of 1.3 ppm.

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	09/11/2019	1.3	1.3	0.18	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems

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)	2020	3	3.2 - 3.2	No goal for the total	60	ppb	N	By-product of drinking water disinfection.

*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)	2020	1	1 - 1	No goal for the total	80	ppb	N	By-product of drinking water disinfection.

*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	6	0 - 6	0	10	ppb	N	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	2020	0.23	0.0598 - 0.23	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Fluoride	2020	0.28	0 - 0.28	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]	2020	1	0 - 1.42	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	MCL	Units	Violation	Likely Source of Contamination
Beta/photon emitters	2020	14.4	9 - 14.4	0	50	pCi/L*	N	Decay of natural and man-made deposits.

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

Combined Radium 226/228	2020	3	2.58 - 2.83	0	5	pCi/L	N	Erosion of natural deposits.
Gross alpha excluding radon and uranium	2020	14.7	8.7 - 14.7	0	15	pCi/L	N	Erosion of natural deposits.

Disinfectant Residual

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

*Disinfectant Residuals are monitored in the TCSUD Water Distribution System, and each 3 months (a Quarter), the Results are submitted to the TCEQ. Copies of these 2020 "DLQORs" are enclosed (next 4 sheets). The Minimum Residual (Free Chlorine) is no less than 0.2 mg/L (ppm). The TCSUD had NO Violations in 2020.

DISINFECTANT LEVEL QUARTERLY OPERATING REPORT (DLQOR)

FOR GROUNDWATER OR PURCHASED-WATER PUBLIC WATER SYSTEMS-ANY SIZE

Select Quarter: FIRST Select Year: 2020

PWS Name: Tyler County Special Utility District	PWS ID: 2290037

Type of Disinfectant Used in Distribution System*: FREE CHLORINE

* If you used chloramines and free chlorine at any time during this quarter, select both.

First Month of Quarter: Monthly Summary

Month: JANUARY 2020 Was the PWS active this month? (•) YES ( ) NO

Average of all disinfectant residuals for this month	Number of residuals collected this month	Number below MIN for this month	Number with NO residual for this month
1.26 mg/L	217	0 %	0 %

Second Month of Quarter: Monthly Summary

Month: FEBRUARY 2020 Was the PWS active this month? (•) YES ( ) NO

Average of all disinfectant residuals for this month	Number of residuals collected this month	Number below MIN for this month	Number with NO residual for this month
1.16 mg/L	203	0 %	0 %

Third Month of Quarter: Monthly Summary

Month: MARCH 2020 Was the PWS active this month? (•) YES ( ) NO

Average of all disinfectant residuals for this month	Number of residuals collected this month	Number below MIN for this month	Number with NO residual for this month
1.11 mg/L	217	0 %	0 %

Quarterly Summary and Certification

Average of all disinfectant residuals for this quarter	Lowest residual for this quarter	Highest residual for this quarter
1.18 mg/L	0.40 mg/L	2.90 mg/L

DISINFECTANT LEVEL QUARTERLY OPERATING REPORT (DLQOR)

FOR GROUNDWATER OR PURCHASED-WATER PUBLIC WATER SYSTEMS-ANY SIZE

Select Quarter: SECOND Select Year: 2020

PWS Name: TYLER COUNTY SPECIAL UTILITY DISTRICT PWS ID: 2290037

Type of Disinfectant Used in Distribution System*: FREE CHLORINE

* If you used chloramines and free chlorine at any time during this quarter, select both.

First Month of Quarter: Monthly Summary

Month: APRIL 2020 Was the PWS active this month? (•) YES ( ) NO

Average of all disinfectant residuals for this month	Number of residuals collected this month	Number below MIN for this month	Number with NO residual for this month
1.49 mg/L	210	0 %	0 %

Second Month of Quarter: Monthly Summary

Month: MAY 2020 Was the PWS active this month? (•) YES ( ) NO

Average of all disinfectant residuals for this month	Number of residuals collected this month	Number below MIN for this month	Number with NO residual for this month
1.52 mg/L	217	0 %	0 %

Third Month of Quarter: Monthly Summary

Month: JUNE 2020 Was the PWS active this month? (•) YES ( ) NO

Average of all disinfectant residuals for this month	Number of residuals collected this month	Number below MIN for this month	Number with NO residual for this month
2.15 mg/L	210	0 %	0 %

Quarterly Summary and Certification

Average of all disinfectant residuals for this quarter	Lowest residual for this quarter	Highest residual for this quarter
1.72 mg/L	0.28 mg/L	2.40 mg/L

DISINFECTANT LEVEL QUARTERLY OPERATING REPORT (DLQOR)

FOR GROUNDWATER OR PURCHASED-WATER PUBLIC WATER SYSTEMS-ANY SIZE

Select Quarter: Third Select Year: 2020

PWS Name: Tyler County Special Utility District PWS ID: 2290037

Type of Disinfectant Used in Distribution System*: Free Chlorine

* If you used chloramines and free chlorine at any time during this quarter, select both.

First Month of Quarter: Monthly Summary

Month: July 2020 Was the PWS active this month? (•) YES ( ) NO

Average of all disinfectant residuals for this month	Number of residuals collected this month	Number below MIN for this month	Number with NO residual for this month
1.34 mg/L	217	0 %	0 %

Second Month of Quarter: Monthly Summary

Month: August 2020 Was the PWS active this month? (•) YES ( ) NO

Average of all disinfectant residuals for this month	Number of residuals collected this month	Number below MIN for this month	Number with NO residual for this month
1.36 mg/L	217	0 %	0 %

Third Month of Quarter: Monthly Summary

Month: SEPTEMBER 2020 Was the PWS active this month? (•) YES ( ) NO

Average of all disinfectant residuals for this month	Number of residuals collected this month	Number below MIN for this month	Number with NO residual for this month
1.37 mg/L	210	0 %	0 %

Quarterly Summary and Certification

Average of all disinfectant residuals for this quarter	Lowest residual for this quarter	Highest residual for this quarter
1.36 mg/L	0.37 mg/L	2.50 mg/L

DISINFECTANT LEVEL QUARTERLY OPERATING REPORT (DLQOR)

FOR GROUNDWATER OR PURCHASED-WATER PUBLIC WATER SYSTEMS-ANY SIZE

Select Quarter: Fourth Select Year: 2020

PWS Name: Tyler County Special Utility District PWS ID: 2290037

Type of Disinfectant Used in Distribution System*: FREE CHLORINE

* If you used chloramines and free chlorine at any time during this quarter, select both.

First Month of Quarter: Monthly Summary

Month: OCTOBER 2020 Was the PWS active this month? (•) YES ( ) NO

Average of all disinfectant residuals for this month	Number of residuals collected this month	Number below MIN for this month	Number with NO residual for this month
1.49 mg/L	217	0 %	0 %

Second Month of Quarter: Monthly Summary

Month: NOVEMBER 2020 Was the PWS active this month? (•) YES ( ) NO

Average of all disinfectant residuals for this month	Number of residuals collected this month	Number below MIN for this month	Number with NO residual for this month
1.55 mg/L	210	0 %	0 %

Third Month of Quarter: Monthly Summary

Month: DECEMBER 2020 Was the PWS active this month? (•) YES ( ) NO

Average of all disinfectant residuals for this month	Number of residuals collected this month	Number below MIN for this month	Number with NO residual for this month
1.55 mg/L	217	0 %	0 %

Quarterly Summary and Certification

Average of all disinfectant residuals for this quarter	Lowest residual for this quarter	Highest residual for this quarter
1.53 mg/L	0.21 mg/L	2.16 mg/L

"REPORTING VIOLATION"... This is actually NOT A VIOLATION, because the Water System Samples were taken from the TCSUD Water System and all Samples were Tested (by the Texas Department of Health), but there was a delay in Reporting (possibly because of the Covid-19 Pandemic) and that Delay resulted in a "Monitoring Violation" (according to the TCEQ).

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
MONITORING, ROUTINE MAJOR	01/01/2020	03/31/2020	We failed to test our drinking water for the contaminant and period indicated. Because of this failure, we cannot be sure of the quality of our drinking water during 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
MONITORING, ROUTINE MAJOR	01/01/2020	03/31/2020	We failed to test our drinking water for the contaminant and period indicated. Because of this failure, we cannot be sure of the quality of our drinking water during the period indicated.

Uranium

Some people who drink water containing uranium in excess of the MCL (30 ug/L) over many years may have increased risk of getting cancer and kidney toxicity.

Violation Type	Violation Begin	Violation End	Violation Explanation
MONITORING, ROUTINE MAJOR	01/01/2020	03/31/2020	We failed to test our drinking water for the contaminant and period indicated. Because of this failure, we cannot be sure of the quality of our drinking water during the period indicated.

Any Questions concerning this "Violation" or any other issues within this ANNUAL WATER QUALITY REPORT should be directed to the Tyler County SUD General Manager (Jerry Lovelady) at # 409-429-3994. Thank you.