

## 2019 Consumer Confidence Report for Public Water System CITY OF OAK RIDGE NORTH

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

For more information regarding this report contact:

CITY OF OAK RIDGE NORTH provides surface water and ground water from  
*Evangelina Aquifer located in Oak Ridge North, Texas*

Name Mark Dutton

Phone 281-292-4648

Este reporte incluye información importante sobre el agua para tomar. Para asistencia en español, favor de llamar al teléfono 281-292-4648

### Definitions and Abbreviations

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Action Level:

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

pc/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 EPA's 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.

You may be more vulnerable than the general population to certain microbial contaminants, such as Cryptosporidium, in drinking water. Infants, some elderly, or immunocompromised persons such as those undergoing chemotherapy for cancer; persons 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 from infections. You should seek advice about drinking water from your physician or health care providers. 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>.

### Information about Source Water

CITY OF OAK RIDGE NORTH purchases water from SIRA GRP SW TREATMENT PLANT. SIRA GRP SW TREATMENT PLANT provides purchase surface water from [insert source name of aquifer, reservoir, and/or river] located in [insert name of County or City].  
 [insert a table containing any contaminant that was detected in the provider's water for this calendar year, unless that contaminant has been separately monitored in your water system (i.e. TTHM, HAAS, Lead and Copper, Coliforms)].

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 [insert water system contact/[insert phone number]].

Contaminant	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Lead and Copper								
Copper	09/12/2017	1.3	1.3	0.076	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.
Lead	09/12/2017	0	15	3.5	0	ppb	N	Corrosion of household plumbing systems; Erosion of natural deposits.

## 2019 Water Quality Test Results

Disinfection By-Products	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination

Halacetic Acids (HAA5)	2019	3	3.3 - 3.3	No goal for the total	60	ppb	N	By-product of drinking water disinfection.
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\* 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	14	14 - 14	No goal for the total	80	ppb	N	By-product of drinking water disinfection.
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\* 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	0.215	0.215 - 0.215	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Fluoride	03/28/2017	0.27	0.27 - 0.27	4	4.0	ppm	N	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
Combined Radium 226/228	03/09/2015	1.5	1.5 - 1.5	0	5	pCi/L	N	Erosion of natural deposits.
Uranium	03/09/2015	1.8	1.8 - 1.8	0	30	ug/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
	2019			4	4		ppm	Water additive used to control microbes.

**San Jacinto River Authority**  
**Surface Water Treatment Plant Performance Data**  
**Consumer Confidence Report Data for PWS ID No. 1700822**

**Source Water Assessment Information**

The source of drinking water for the SJRA Surface Water Treatment Plant is Lake Conroe. The Lake Conroe watershed may 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. In order to ensure that tap water is safe to drink, the EPA prescribes regulations that limit the amount of certain contaminants in water provided by public water systems.

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. 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 EPA's Safe Drinking Water Hotline at (800) 426-4791.

A source water assessment for the Lake Conroe water source is currently being conducted by the TCEQ and should be provided to us this year. The report will describe the susceptibility and types of contaminants that may come into contact with your drinking water source based on human activities and natural conditions. The information in this assessment will allow us to focus our source water protection strategies. Further details about sources and source-water assessments are available in Drinking Water Watch at the following URL: <http://dww.tceq.texas.gov/DWW>. Our source water name is "INTAKE1- DAM SITE RD".

**Turbidity**

Texas Administrative Code (TAC) Title 30, Part 1, Chapter 290, Subchapter F, Rule §290.111 – Surface Water Treatment requires continuous monitoring of effluent turbidity level. Turbidity values are a direct measure of water quality for membrane treatment of surface water. The most likely source of contamination of turbidity is soil runoff.

Maximum allowable turbidity values for membrane plants:

- Must never exceed 0.3 Nephelometric Turbidity Units (NTU) in two consecutive 15-minute readings;
- Must be 0.15 NTU or less in at least 95% of samples tested each month

Monthly turbidity measurements follow. There were no violations noted for the reporting period.

2019 Delivery	Maximum Turbidity Reading (NTU)	Minimum Turbidity Reading (NTU)	Average Turbidity Value (NTU)	CFE 95 % Value (NTU)
January	0.05	0.03	0.03	0.04
February	0.05	0.03	0.04	0.04
March	0.05	0.03	0.04	0.04
April	0.06	0.03	0.04	0.04
May	0.05	0.03	0.04	0.04
June	0.05	0.03	0.04	0.04
July	0.05	0.03	0.04	0.04
August	0.05	0.03	0.04	0.05
September	0.06	0.03	0.04	0.05
October	0.04	0.03	0.04	0.04
November	0.04	0.03	0.03	0.04
December	0.04	0.03	0.03	0.04

### **Total Organic Carbon**

The percentage of Total Organic Carbon (TOC) removal was measured each month and the system met all TOC removal requirements set.

### ***Cryptosporidium* Monitoring**

TCEQ is in the process of determining a bin classification for the surface water treatment facilities. The classification process is not yet complete, however the Consumer Confidence Report rules require reporting results of any *cryptosporidium* detections. There were no *cryptosporidium* detections during the reporting period.

### **Additional Information**

For additional information or questions, please contact:

SJRA GRP Division  
 11998 Pine Valley Drive  
 Conroe, Texas 77304

(936) 588-1662

# DISINFECTANT LEVEL QUARTERLY OPERATING REPORT (DLQOR)

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

Select Quarter: **4th - Oct/Nov/Dec**

Select Year: **2019**

<b>PWS Name:</b> CITY OF OAK RIDGE NORTH	<b>PWS ID:</b> 1700025
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Type of Disinfectant Used in Distribution System\*: **Chlorine (Free)**

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

### First Month of Quarter: Monthly Summary

Month: **October**

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	31 readings	0 readings %	0 readings %

### Second Month of Quarter: Monthly Summary

Month: **November**

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
1.48 mg/L	31 readings	0 readings %	0 readings %

### Third Month of Quarter: Monthly Summary

Month: **December**

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
1.47 mg/L	31 readings	0 readings %	0 readings %

### Quarterly Summary and Certification

Average of all disinfectant residuals for this quarter	Lowest residual for this quarter	Highest residual for this quarter
mg/L	1.10 mg/L	2.09 mg/L

I certify that I am familiar with the information contained in this report and that, to the best of my knowledge, the information is true, complete, and accurate.

Name: **MARK DUTTON**  
Enter Name

Signature

Today's Date: **1/6/2020**

Title: **DIRECTOR OF UTILITIES**

Phone Number: **2812924648**

License #: **WG0002939**

Complete this form for the previous quarter at the beginning of April, July, October, and January; and submit in time for it to be received by the TCEQ by the 10th of the month. Always print and sign form, and keep a copy with your records for TCEQ review.

**Step 1:**

**Print Copy**

(For your own records)

**Step 2:**

**Print to Mail**

**Sign and Mail to:**  
TCEQ / PDW MC-155  
Attn: DLQOR  
PO Box 13087  
Austin, TX 78711-3087

Click the button below to start over or to reset to enter data for a different system.

**Clear Form**



**DISINFECTANT LEVEL QUARTERLY OPERATING REPORT (DLQOR)**  
FOR GROUNDWATER OR PURCHASED-WATER PUBLIC WATER SYSTEMS-ANY SIZE

Select Quarter: **2nd - Apr/May/Jun**

Select Year: **2019**

<b>PWS Name: CITY OF OAK RIDGE NORTH</b>	<b>PWS ID: 1700025</b>
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Type of Disinfectant Used in Distribution System\*: **Chlorine (Free)**

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

**First Month of Quarter: Monthly Summary**

Month: **April**

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
1.05 mg/L	30 readings	0 readings 0.0 %	0 readings 0.0 %

**Second Month of Quarter: Monthly Summary**

Month: **May**

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
0.98 mg/L	31 readings	0 readings 0.0 %	0 readings 0.0 %

**Third Month of Quarter: Monthly Summary**

Month: **June**

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
1.30 mg/L	30 readings	0 readings 0.0 %	0 readings 0.0 %

**Quarterly Summary and Certification**

Average of all disinfectant residuals for this quarter	Lowest residual for this quarter	Highest residual for this quarter
1.11 mg/L	0.66 mg/L	1.95 mg/L

I certify that I am familiar with the information contained in this report and that, to the best of my knowledge, the information is true, complete, and accurate.

Name: **Mark Dutton**

Today's Date: **7/1/19**

Enter Name

Signature

Title: **Director of Utilities**

Phone Number: **(281) 292-4648**

License #: **WG0002939**

Complete this form for the previous quarter at the beginning of April, July, October, and January; and submit in time for it to be received by the TCEQ by the 10th of the month. Always print and sign form, and keep a copy with your records for TCEQ review.

<p><b>Step 1:</b></p> <div style="border:1px solid black; padding:5px; text-align:center; width:80px; margin:0 auto;">Print Copy</div> <p>(For your own records)</p>	<p><b>Step 2:</b></p> <div style="border:1px solid black; padding:5px; text-align:center; width:80px; margin:0 auto;">Print to Mail</div> <p><b>Sign and Mail to:</b> TCEQ / PDW MC-155 Attn: DLQOR PO Box 13087 Austin, TX 78711-3087</p>	<p>Click the button below to start over or to reset to enter data for a different system.</p> <div style="border:1px solid black; padding:5px; text-align:center; width:80px; margin:0 auto;">Clear Form</div>
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\_DLQOR

# DISINFECTANT LEVEL QUARTERLY OPERATING REPORT (DLQOR)

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

Select Quarter: Select Year: 

<b>PWS Name:</b> CITY OF OAK RIDGE NORTH	<b>PWS ID:</b> 1700025
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Type of Disinfectant Used in Distribution System\*: 

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

**First Month of Quarter: Monthly Summary**Month: **January**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
0.93 mg/L	31 readings	0 readings 0.0 %	0 readings 0.0 %

**Second Month of Quarter: Monthly Summary**Month: **February**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
1.13 mg/L	28 readings	0 readings 0.0 %	0 readings 0.0 %

**Third Month of Quarter: Monthly Summary**Month: **March**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	31 readings	0 readings 0.0 %	0 readings 0.0 %

**Quarterly Summary and Certification**

Average of all disinfectant residuals for this quarter	Lowest residual for this quarter	Highest residual for this quarter
1.07 mg/L	0.53 mg/L	1.86 mg/L

 I certify that I am familiar with the information contained in this report and that, to the best of my knowledge, the information is true, complete, and accurate.Name: **MARK DUTTON**

Enter Name

Signature

Today's

Date:

Title: **DIRECTOR OF UTILITIES**

Phone Number:

**(281) 292-4648**

License #:

**WG0002939**Complete this form for the previous quarter at the beginning of April, July, October, and January; and submit in time for it to be received by the TCEQ by the 10<sup>th</sup> of the month. Always print and sign form, and keep a copy with your records for TCEQ review.**Step 1:**

(For your own records)

**Step 2:****Sign and Mail to:**

TCEQ / PDW MC-155

Attn: DLQOR

PO Box 13087

Austin, TX 78711-3087

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PWS \_ 1700025 \_ MR \_

\_DLQOR

# DISINFECTANT LEVEL QUARTERLY OPERATING REPORT (DLQOR)

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

Select Quarter: Select Year: 

PWS Name: CITY OF OAK RIDGE NORTH

PWS ID: 1700025

Type of Disinfectant Used in Distribution System\*: 

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

## First Month of Quarter: Monthly Summary

Month: January

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	31 readings	0 readings 0.0 %	0 readings 0.0 %

## Second Month of Quarter: Monthly Summary

Month: February

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
1.45 mg/L	28 readings	0 readings 0.0 %	0 readings 0.0 %

## Third Month of Quarter: Monthly Summary

Month: March

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
1.38 mg/L	31 readings	0 readings 0.0 %	0 readings 0.0 %

## Quarterly Summary and Certification

Average of all disinfectant residuals for this quarter	Lowest residual for this quarter	Highest residual for this quarter
1.40 mg/L	0.64 mg/L	1.85 mg/L

 I certify that I am familiar with the information contained in this report and that, to the best of my knowledge, the information is true, complete, and accurate.
Name: MARK DUTTON

Today's

Enter Name

Signature

Date:

Title: DIRECTOR OF UTILITIESPhone Number: (281) 292-4648License #: WG0002939

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