

Ricewood Municipal Utility District

2020 Drinking Water Quality Report

DEAR CUSTOMER:

This report is intended to provide you with important information about your drinking water and the efforts made by the water system to provide safe drinking water.

The sources of drinking water (both tap water and bottled water) generally 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 (1-800-426-4791). Contaminants that may be present in the source water include:

- 1) Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and 2) 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.
- 3) Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.
- 4) 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.
- 5) Radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining 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 district's operator, Inframark.

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; 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 from 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 at (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>.

The source of drinking water used by Ricewood MUD is ground water from the Evangeline Aquifer and purchased surface water from the West Harris County Regional Water Authority who is providing treated surface water from the City of Houston.

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 the Consumer Confidence Report. For more information on source water assessments and protection efforts at our system contact Mirna Bonilla-Odums, Inframark, at (281-967-1761).

For more information about your sources of water, please refer to the Source Water Assessment Viewer available at the following: <http://www.tceq.texas.gov/gis/swaview>

Further details about sources and source water assessments are available in Drinking Water Watch at the following URL: <http://dww2.tceq.texas.gov/DWWW/>

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, secondaries are not required to be reported in this document but they may greatly affect the appearance and taste of your water. The pages that follow list all of the federally regulated or monitored contaminants which have been found in your drinking water. The U.S. EPA requires water systems to test for up to 97 contaminants.

When drinking water meets federal standards there may not be any health based benefits to purchasing bottled water or point of use devices.

Public input concerning the water system may be made at regularly scheduled meetings, generally held at 12:00 PM on the 3rd Tuesday of the month at 1300 Post Oak Blvd., Suite 1400, Houston, TX 77056. You may also contact Mirna Bonilla-Odums, Inframark, at 281-967-1761 with any concerns or questions you may have regarding this report.

Este reporte incluye informacion importante sobre el agua para tomar. Para asistencia en espanol, favor de llamar al tel. (281) 579-4507.

Our water system submitted to the Texas Water Development Board a Water Loss Audit for the 2020 calendar year. The system lost an estimated 14,781,629 gallons of water. If you have any questions about water loss, please call Inframark at 281-578-4200.

Definitions & Abbreviations:

Maximum Contaminant Level Goal (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 (MCL): The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to MCLGs as feasible using the best available treatment technology.

Maximum Residual Disinfectant Level (MRDL): The highest level of 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 (MRDLG): The level of 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.

Action Level (AL): The concentration of a contaminant, which, if exceeded, triggers treatment or other requirements that a water system must follow.

Parts per million (ppm): The equivalent of milligrams per liter (mg/l) is analogous to 1 minute in 2 years.

Parts per billion (ppb): The equivalent of micrograms per liter (µg/l) is analogous to 1 second in 32 years.

Picocuries per liter (pCi/L): A measure of radioactivity.

N/A: Not applicable.

NTU: Nephelometric Turbidity Units.

Level 1 assessment: Study of the water system to identify potential problems and determine (if possible) why total coliform bacteria were found.

Level 2 assessment: Very detailed study of the water system to identify potential problems and determine (if possible) why an Escherichia coli (E. coli) maximum contaminant level (MCL) violation has occurred and/or why total coliform bacteria were found on multiple occasions.

MFL: Million Fibers per Liter (asbestos).

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

AVG: Regulatory compliance with some MCLs based on running annual average of monthly samples.

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.

| Substance | Unit of Measure | Year | MCL | Average Level Detected | Min - Max Level Detected | MCLG | In Compliance | Typical Sources |
|-----------|-----------------|------|-----|------------------------|--------------------------|------|---------------|-----------------|
|-----------|-----------------|------|-----|------------------------|--------------------------|------|---------------|-----------------|

Synthetic Organic Contaminants Including Pesticides and Herbicides

| | | | | | | | | |
|----------|-----|------|---|------|-------------|---|-----|--|
| Atrazine | ppb | 2019 | 3 | 0.29 | 0.29 - 0.29 | 3 | Yes | Runoff from herbicide used on row crops. |
| Simazine | ppb | 2019 | 4 | 0.1 | 0.1 - 0.1 | 4 | Yes | Herbicide runoff. |

Unregulated Contaminants

| | | | | | | | | |
|------------------------|-----|------|-----|---------|-------|-----|-----|--|
| 1,2,3-Trichloropropane | ppm | 2020 | N/A | 0.00009 | 0 - 0 | N/A | Yes | |
|------------------------|-----|------|-----|---------|-------|-----|-----|--|

Availability of Unregulated Contaminant Monitoring Rule Data (UCMR)

We participated in gathering data under the UCMR in order to assist EPA in determining the occurrence of possible drinking water contaminants. If any unregulated contaminants were detected, they are shown in the tables elsewhere in this report. This data may also be found on EPA's web site at <http://www.epa.gov/safewater/data/ncod.html>, or you can call the Safe Drinking Water Hotline at 1-800-426-4791

| | | | | | | | | |
|----------------------|-----|------|-----|------|-----------|-----|-----|--|
| Bromodichloromethane | ppb | 2020 | N/A | 6.7 | 6.7 - 6.7 | N/A | Yes | By-product of drinking water disinfection. |
| Chloroform | ppb | 2020 | N/A | 16.0 | 16 - 16 | N/A | Yes | By-product of drinking water disinfection. |
| Dibromochloromethane | ppb | 2020 | N/A | 1.7 | 1.7 - 1.7 | N/A | Yes | By-product of drinking water disinfection. |

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.

Inorganic Contaminants (Regulated at the Water Plant)

| | | | | | | | | |
|----------|-----|------|-----|-------|-------------|-----|-----|--|
| Fluoride | ppm | 2018 | 4 | 0.49 | 0.49 - 0.49 | 4 | Yes | Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories. |
| Barium | ppm | 2019 | 2 | 0.06 | 0.06 - 0.06 | 2 | Yes | Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits. |
| Cyanide | ppb | 2020 | 200 | 100.0 | 100 - 100 | 200 | Yes | Discharge from plastic and fertilizer factories; discharge from steel/metal factories. |
| Nitrate | ppm | 2020 | 10 | 0.45 | 0.45 - 0.45 | 10 | Yes | Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits. |

Disinfectant Byproducts

| | | | | | | | | |
|-------------------------|-----|------|----|------|-------------|---|-----|--|
| Haloacetic Acids (HAA5) | ppb | 2020 | 60 | 24.7 | 24.7 - 24.7 | 0 | Yes | By-product of drinking water disinfection. |
| Total Trihalomethanes | ppb | 2020 | 80 | 24.3 | 24.3 - 24.3 | 0 | Yes | By-product of drinking water disinfection. |

| Substance | Unit of Measure | Year | MRDL | Average Level Detected | Min - Max Level Detected | MRDLG | In Compliance | Typical Sources |
|--|-----------------|------|------|------------------------|--------------------------|-------|---------------|--|
| Maximum Residual Disinfectant Level | | | | | | | | |
| Chlorine Residual | ppm | 2020 | 4.0 | 3.31 | 2.59 - 3.66 | 4.0 | Yes | Water additive used to control microbes. |

| Substance | Unit of Measure | Year | 90th % Value | EPA Action Level | Results above Action Level | MCLG | In Compliance | Typical Sources |
|---|-----------------|------|--------------|------------------|----------------------------|------|---------------|---|
| Lead and Copper (Regulated at Customers Tap) | | | | | | | | |
| Copper | ppm | 2019 | 0.071 | 1.3 | 0 | 1.3 | Yes | Corrosion of household plumbing systems, erosion of natural deposits; leaching from wood preservatives. |
| Lead | ppb | 2019 | 5.1 | 15 | 2 | 0 | Yes | Corrosion of household plumbing systems; erosion of natural deposits. |

Our Water Supply System Received Water From
City of Houston
Water Quality Results are Listed Below

| Substance | Unit of Measure | Year | MCL | Average Level Detected | Min - Max Level Detected | MCLG | In Compliance | Typical Sources |
|--|-----------------|------|-----|------------------------|--------------------------|------|---------------|---|
| Radioactive Contaminants (Regulated at the Water Plant) | | | | | | | | |
| Combined Radium | pCi/L | 2020 | 5 | 0.67 | 0 - 1.92 | 0 | Yes | Erosion of natural deposits. |
| Gross Alpha | pCi/L | 2020 | 15 | 4.18 | 0 - 13 | 0 | Yes | Erosion of natural deposits. |
| Gross Beta | pCi/L | 2020 | 50 | 1.88 | 0 - 4.9 | 0 | Yes | Decay of natural and man-made deposits. |
| Uranium | ug/L | 2020 | 30 | 4.69 | 0 - 14.2 | 0 | Yes | Erosion of natural deposits. |

| Substance | Unit of Measure | Year | MCL | Average Level Detected | Min - Max Level Detected | MCLG | In Compliance | Typical Sources |
|---|-----------------|------|-----|------------------------|--------------------------|------|---------------|--|
| Synthetic Organic Contaminants Including Pesticides and Herbicides | | | | | | | | |
| Atrazine | ppb | 2020 | 3 | 0.22 | 0 - 0.61 | 3 | Yes | Runoff from herbicide used on row crops. |
| Di(2-ethylhexyl)phthalate | ppb | 2020 | 6 | 0.35 | 0 - 0.69 | 0 | Yes | Discharge from rubber and chemical factories. |
| Simazine | ppb | 2020 | 4 | 0.07 | 0 - 0.14 | 4 | Yes | Herbicide runoff. |
| Volatile Organic Contaminants | | | | | | | | |
| Ethylbenzene | ppb | 2020 | 700 | 3.13 | 0 - 9.7 | 700 | Yes | Discharge from petroleum refineries. |
| Toluene | ppm | 2020 | 1 | 0.01 | 0 - 0.021 | 1 | Yes | Discharge from petroleum factories. |
| Xylenes | ppm | 2020 | 10 | 0.01 | 0 - 0.091 | 10 | Yes | Discharge from petroleum factories. |
| Unregulated Contaminants | | | | | | | | |
| Bromodichloromethane | ppb | 2020 | N/A | 5.89 | 0 - 12 | N/A | Yes | By-product of drinking water disinfection. |
| Bromoform | ppb | 2020 | N/A | 1.43 | 0 - 5.5 | N/A | Yes | By-product of drinking water disinfection. |
| Chloroform | ppb | 2020 | N/A | 10.35 | 0 - 23 | N/A | Yes | By-product of drinking water disinfection. |
| Dibromochloromethane | ppb | 2020 | N/A | 2.77 | 0 - 11 | N/A | Yes | By-product of drinking water disinfection. |
| Manganese | ppm | 2020 | N/A | 0.00363 | 0 - 0.009 | N/A | Yes | Abundant naturally occurring element. |
| 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. | | | | | | | | |
| Inorganic Contaminants (Regulated at the Water Plant) | | | | | | | | |
| Arsenic | ppb | 2020 | 10 | 2.22 | 0 - 5 | 0 | Yes | Erosion of natural deposits; runoff from orchards; runoff from glass, and electronics production wastes. |
| Barium | ppm | 2020 | 2 | 0.13 | 0.044 - 0.247 | 2 | Yes | Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits. |

| Substance | Unit of Measure | Year | MCL | Average Level Detected | Min - Max Level Detected | MCLG | In Compliance | Typical Sources |
|------------------|-----------------|------|-----|------------------------|--------------------------|------|---------------|--|
| Cyanide | ppb | 2020 | 200 | 52.22 | 0 - 160 | 200 | Yes | Discharge from plastic and fertilizer factories; discharge from steel/metal factories. |
| Fluoride | ppm | 2020 | 4 | 0.25 | 0.11 - 0.76 | 4 | Yes | Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories. |
| Nitrate | ppm | 2020 | 10 | 0.19 | 0 - 0.86 | 10 | Yes | Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits. |
| Selenium | ppb | 2020 | 50 | 4.3 | 0 - 17.2 | 50 | Yes | Erosion of natural deposits. |
| Turbidity | | | | | | | | |
| Turbidity | NTU | 2020 | 1 | 0.44 | 0.06 - 0.82 | N/A | Yes | Soil runoff. |

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 include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, diarrhea and associated headaches.

Our Water Supply System Received Water From
West Harris County Regional Water Authority
Water Quality Results are Listed Below

| Substance | Unit of Measure | Year | MCL | Average Level Detected | Min - Max Level Detected | MCLG | In Compliance | Typical Sources |
|--|-----------------|------|-----|------------------------|--------------------------|------|---------------|--|
| Inorganic Contaminants (Regulated at the Water Plant) | | | | | | | | |
| Nitrate | ppm | 2020 | 10 | 0.25 | 0.25 - 0.25 | 10 | Yes | Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits. |
| Disinfectant Byproducts | | | | | | | | |
| Haloacetic Acids (HAA5) | ppb | 2018 | 60 | 17.5 | 17.5 - 17.5 | 0 | Yes | By-product of drinking water disinfection. |
| Total Trihalomethanes | ppb | 2018 | 80 | 27.3 | 27.3 - 27.3 | 0 | Yes | By-product of drinking water disinfection. |

| Substance | Unit of Measure | Year | MRDL | Average Level Detected | Min - Max Level Detected | MRDLG | In Compliance | Typical Sources |
|--|-----------------|------|------|------------------------|--------------------------|-------|---------------|--|
| Maximum Residual Disinfectant Level | | | | | | | | |
| Chlorine Residual | ppm | 2020 | 4.0 | 3.53 | 3.21 - 3.8 | 4.0 | Yes | Water additive used to control microbes. |

* All levels detected were below the MCLs.