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City of Rhyme

2022 Consumer Confidence Report for Public Water System # 2490007

This is your water quality report for January 1 to December 31, 2022,

CITY OF RHOME provides surface water and ground water from Paluxy Aquifer and Bridgeport Lake located in Wise County.

For more information regarding this report contact:

Name: Public Works Director Jesus Dominguez

Phone: 940-210-6501

Este reporte incluye informacion importante sobre el agua para tomar. Para asistencia en espanol favor de llamar al telefono 940-210-6501



Definitions and Abbreviations

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| 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. |
| 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 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 |
| ppm: | milligrams per liter or parts per million |
| 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.

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).

Information about Source Water

1. **CITY OF RHOME** produces ground water from the Paluxy Aquifer and purchases water from WALNUT CREEK SUD. WALNUT CREEK SUD provides purchased surface water from Bridgeport Lake located in Wise County.

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 **City**

Hall 817 - 636 - 2462

CITY OF Rhome: 2022 Water Loss Audit

The City of Rhome's Conservation Plan addresses several measures in reducing water loss and improving the efficiency in the use of water. In the water loss audit submitted to the Texas Water Development Board for the time period of January through December 2022, the system lost an estimated 19% of water from the 98,108,310 gallons of water produced/purchased. Leaks, line breaks, un-metered fire protection, hydrant flushing for health and safety purposes, unauthorized consumption, data discrepancies, and other factors all contribute to water loss. The city will continue to audit its water supply.

| Source water name | | Type of water | Report Status | Location |
|---------------------------------|-----------------------|---------------|---------------|--|
| 3-400 Morris | West Morris/School Rd | GW | A | Longitude: -97.414927 Latitude: 32.813497 |
| 4-300 Randal | Randal St./Logan St. | GW | A | Longitude: -97.469228 Latitude: 32.050966 |
| 5-500 Pecan | St. Pecan Ct./Hickory | GW | A | Longitude: -97.469392 Latitude: 33.058258 |
| Surface Water from Walnut Creek | CC From TX1840008 | SW | A | Longitude: -97.533576 Latitude: 33.051601 |

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>.

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 Jesus Dominguez, Public Works Director 940-210-6501

| Lead and Copper | Date Sampled | MCLG | Action Level (AL) | 90th Percentile | # Sites Over AL | Units | Violation | Likely Source of Contamination |
|-----------------|--------------|------|-------------------|-----------------|-----------------|-------|-----------|---|
| Copper | 09/23/2020 | 1.3 | 1.3 | 0.081 | 0 | ppm | N | Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems. |
| Lead | 09/23/2020 | 0 | 15 | 2.4 | 0 | ppb | N | Corrosion of household plumbing systems; Erosion of natural deposits. |

2022 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) | 2022 | 28 | 15.8 - 23 | 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 | 2022 | 55 | 45.7 - 56.6 | 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 |
|---------------------------------------|------------------------|-------------------------------|------------------------------------|-------------|------------|--------------|------------------|---|
| Barium | 2022 | 0.041 | 0.041 - 0.041 | 2 | 2 | ppm | N | Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits. |
| Chromium | 2022 | 4.6 | 4.6 - 4.6 | 100 | 100 | ppb | N | Discharge from steel and pulp mills; Erosion of natural deposits. |
| Cyanide | 08/19/2020 | 63.8 | 0 - 63.8 | 200 | 200 | ppb | N | Discharge from plastic and fertilizer factories; Discharge from steel/metal factories. |
| Fluoride | 08/05/2021 | 0.0916 | 0.0891 - 0.0916 | 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] | 2022 | 0.241 | 0.0332 - 0.241 | 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 |
|---------------------------------|------------------------|-------------------------------|------------------------------------|-------------|------------|--------------|------------------|---------------------------------------|
| Combined Radium 226/228 | 11/07/2018 | 1.5 | 0 - 1.5 | 0 | 5 | pCi/L | N | Erosion of natural deposits. |

Disinfectant Residual

| Disinfectant Residual | Year | Average Level | Range of Levels Detected | MRDL | MRDLG | Unit of Measure | Violation (Y/N) | Source in Drinking Water |
|------------------------------|-------------|----------------------|---------------------------------|-------------|--------------|------------------------|------------------------|--|
| Total chlorine residual | 2022 | 1.48 | 0.51-3.32 | 4 | 4 | PPM | N | Water additive used to control microbes. |

SW From Walnut Creek SUD Form TX1840008

The following information is provided by Walnut Creek SUD since the City of Rhome purchases treated water from Walnut Creek SUD
2022 Water Quality Test Results

| Lead and Copper | Date Sampled | MCLG | Action Level (AL) | 90th Percentile | # Sites Over AL | Units | Violation | Likely Source of Contamination |
|------------------------|---------------------|-------------|--------------------------|------------------------|------------------------|--------------|------------------|---|
| Copper | 09/14/2021 | 1.3 | 1.3 | 0.083 | 0 | ppm | N | Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems. |
| Lead | 09/14/2021 | 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 |
|---------------------------------|------------------------|-------------------------------|------------------------------------|-----------------------|------------|--------------|------------------|--|
| Chlorite | 2022 | 0.9 | 0.205 - 0.9 | 0.8 | 1 | ppm | N | By-product of drinking water disinfection. |
| Haloacetic Acids (HAA5) | 2022 | 34 | 15.3 - 23.8 | 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 | 2022 | 56 | 28.2 - 62.2 | 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 |
|---------------------------------------|------------------------|-------------------------------|------------------------------------|-------------|------------|--------------|------------------|--|
| Barium | 2022 | 0.071 | 0.071 - 0.071 | 2 | 2 | ppm | N | Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits. |
| Cyanide | 2022 | 125 | 125 - 125 | 200 | 200 | ppb | N | Discharge from plastic and fertilizer factories; Discharge from steel/metal factories. |
| Fluoride | 2022 | 0.1 | 0.146 - 0.146 | 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] | 2022 | 0.122 | 0.122 - 0.122 | 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 | 02/13/2017 | 5.9 | 5.9 - 5.9 | 0 | 50 | pCi/L* | N | Decay of natural and man-made deposits. |

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

| | | | | |
|---------------------------------------|---------|---------|---|--------------|
| Highest single | 0.5 NTU | 1 NTU | N | Soil runoff. |
| Lowest monthly % meeting limit | 100% | 0.3 NTU | N | Soil runoff. |

Turbidity

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 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 Fecal Coliform Samples | Violation | Likely Source of Contamination |
|--------------------------------|--|-------------------------|---|---|-----------|---------------------------------------|
| 0 | 1 positive monthly | 1 | | 0 | N | Naturally present in the environment. |

Disinfectant Residual

| Disinfectant Residual | Year | Average Level | Range of Levels Detected | MRDL | MRDLG | Unit of Measure | Violation (Y/N) | Source in Drinking Water |
|-----------------------|------|---------------|--------------------------|------|-------|-----------------|-----------------|--|
| chloramines | 2022 | 2.81 | 0.90-4.1 | 4 | 4 | Mg/L | ppm | Water additive used to control microbes. |

Outdoor Water Conservation Tips

There are several easy ways to save water, and they all start with YOU. When you save water, you save money on your utility bills. Here are just a few ways...

- Water only when needed. Look at the grass, feel the soil, or use a soil moisture meter to determine when to water.
- Do not over-water. Soil can hold only so much moisture, and the rest simply runs off. A timer will help, and either a kitchen timer or an alarm clock will do. Apply only enough water to fill the plant's root zone. Excess water beyond that is wasted. One and a half inches of water applied once a week in the summer will keep most grasses alive and healthy.
- Water lawns early in the morning during the hotter summer months. Otherwise, much of the water used on the lawn can simply evaporate between the sprinkler and the grass.
- To avoid excessive evaporation, use a sprinkler that produces large drops of water, rather than a fine mist. Sprinklers that send droplets out on a low angle also help control evaporation. Adjust sprinkler heads as necessary, to avoid waste, runoff and ensure proper coverage.
- Set automatic sprinkler systems to provide thorough, but infrequent watering. Pressure-regulating devices should be set to design specifications. Rain shut-off devices can prevent watering in the rain.
- Use drip irrigation systems for bedded plants, trees, or shrubs, or turn soaker hoses upside-down so the holes are on the bottom. This will help avoid evaporation.
- Water slowly for better absorption, and never water on a windy day.
- Forget about watering the streets or walks or driveways. They will never grow a thing.
- Condition the soil with mulch or compost before planting grass or flowerbeds so that water will soak in rather than run off.
- Fertilize lawns at least twice a year for root stimulation, but do not over-fertilize. Grass with a good root system makes better use of less water and is more drought tolerant.
- Do not scalp lawns when mowing during hot weather. Taller grass holds moisture better. Grass should be cut fairly often, so that only 1/2 to 3/4 inch is trimmed off. A better-looking lawn will result.
- Use a watering can or hand water with the hose in small areas of the lawn that need more frequent watering (those near walks or driveways or in especially hot, sunny spots.)
- Use water-wise plants. Learn what types of grass, shrubbery, and plants do best in the area and in which parts of the lawn, and then plant accordingly. Choose plants that have low water requirements, are drought-tolerant, and are adapted to the area of the state where they are to be planted.
- Consider decorating some areas of the lawn with wood chips, rocks, gravel, or other materials now available that require no water at all.
- Do not "sweep" walks and driveways with the hose. Use a broom or rake instead.
- When washing the car, use a bucket of soapy water and turn on the hose only for rinsing.
- We're more likely to notice leaks indoors, but don't forget to check outdoor faucets, sprinklers, and hoses for leaks.

6 Tips to Prevent Storm Water Pollution

- Turn off your sprinklers when it rains to avoid water runoff.
- Do not apply fertilizers and pesticides before it rains. Contrary to popular belief, the rain will not help soak chemicals into the ground; instead, it creates polluted runoff into the local waters.
- Do not dump your car's oil on the ground or in the storm drain; dispose of it properly at an oil recycling center.
- Check your car, boat, or motorcycle for leaks. Clean up spilled fluids with an absorbent material; do not rinse it into the storm drain.

- Wash your car with water only or use biodegradable soap to avoid runoff of harmful chemicals and try to wash your car on a lawn or other unpaved surface.
- Don't mess with Texas! Throw your litter in a garbage can and recycle what you can

