

# 2018 Annual Drinking Water Quality Report

## Consumer Confidence Report

Texas Grand Ranch PWS # 2360088

January 1 to December 31, 2018

**Your drinking water meets or exceeds all federal (EPA) drinking water requirements.** The U.S. Environmental Protection Agency (EPA) requires water systems to test for up to 97 contaminants. The following results list all of the federally regulated or monitored contaminants which have been found in your drinking water. The analysis was made by using the data from the most recent EPA required tests and lab analysis on your water. This report is summary of the quality of the water we provide our customers. We hope this information helps you become more knowledgeable about what's in your drinking water.

*Please see Definition/Abbreviation section for specific terms and measures explanations.*

**The water system's result is highlighted in yellow.**

## Results

### Lead and Copper

This table shows the latest results of lead and copper tested. (Results may be from a previous year if not tested last year.)

Lead and Copper	Date Sampled	MCLG	*Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation (YES/NO)	Likely Source of Contamination
Copper	2018	1.3	1.3	0.18	0	ppm	NO	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.

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

### Coliform Bacteria Table

There were **No Present** Total or E. coli Coliform detections in year 2018.

### Disinfectant Residual Table

This table shows the average, minimum and maximum levels of chlorine measured in the water system throughout the year.

Disinfectant	Year	Average Level	Minimum Level	Maximum Level	MRDL	MRDLG	Unit of Measure	Violation (YES/NO)	Likely Source of Contamination
Sodium Hypochlorite (Chlorine)	2018	0.81	0.23	2.10	4	4	ppm	NO	Water additive used to control microbes.

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### Regulated Contaminants

This table shows the results of EPA regulated compounds that were found in the water system.

Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Arsenic	2017	5.2	5.2 - 5.2	0	10	ppb	N	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes.
Barium	2017	0.145	0.145 - 0.145	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Fluoride	2017	0.55	0.55 - 0.55	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]	2018	0.03	0.03 - 0.03	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Selenium	2017	10	10.4 - 10.4	50	50	ppb	N	Discharge from petroleum and metal refineries; Erosion of natural deposits; Discharge from mines.

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Radioactive Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Combined Radium 226/228	2017	2.37	2.37 - 2.37	0	5	pCi/L	N	Erosion of natural deposits.
Gross alpha excluding radon and uranium	2017	4.3	4.3 - 4.3	0	15	pCi/L	N	Erosion of natural deposits.
Beta/photon emitters	2017	11.7	11.7 - 11.7	0	4	mrem/yr	N	Decay of natural and man-made deposits.

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

Disinfection By-Products	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Haloacetic Acids (HAA5)	2018	1	1.3 - 1.3	No goal for the total	60	ppb	N	By-product of drinking water disinfection.
Total Trihalomethanes (TTHM)	2018	8	7.9 - 7.9	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 HAA5 sample results collected at a location over a year'

\* 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'

Volatile Organic Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Xylenes	2018	0.0014	0.0 - 0.0014	10	10	ppm	N	Discharge from petroleum factories.

Synthetic organic	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
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contaminants including pesticides and herbicides								
Di (2-ethylhexyl) phthalate	2018	2	0.0 – 6.3	0	6	ppb	N	Discharge from rubber and chemical factories.

**Is MY Water Safe According to the Results?**



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### ABOUT US:

The water system is owned and operated by **Quadvest**, 40 year-old company specializing in the operations and maintenance of water and sewer treatment and distribution systems. If you have any questions concerning water quality or the source of your water, please call our office at **(281) 356-5347**.

*We do not hold regularly scheduled meetings.*

HEALTH NOTE	DEFINITIONS/ ABBREVIATIONS
<p><b>Special Notice for the ELDERLY, INFANTS, CANCER PATIENTS, people with HIV/AIDS or other immune problems:</b></p> <p>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 <b>Safe Drinking Water Hotline (800) 426-4791</b>.</p> <p>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.</p> <p>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.</p> <p>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 <a href="http://www.epa.gov/safewater/lead">http://www.epa.gov/safewater/lead</a></p>	<p><b>Action Level:</b> The concentration of contaminants which, if exceeded, triggers treatment or other requirements which a water system must follow.</p> <p><b>Action Level Goal (ALG):</b> The level of a contaminant in drinking water below which there is now known or expected risk to health. ALGs allow for a margin of safety.</p> <p><b>Avg:</b> Regulatory compliance with some MCLs is based on running annual average of monthly samples.</p> <p><b>Maximum Contaminant Level or MCL:</b> 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.</p> <p><b>Maximum Contaminant Level Goal or MCLG:</b> 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.</p> <p><b>Maximum residual disinfectant level or MRDL:</b> 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.</p> <p><b>Maximum residual disinfectant level goal or MRDLG:</b> 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.</p> <p><b>Level 1 Assessment:</b> A study to identify potential problems and determine (if possible) why total coliform bacteria have been found in the water system.</p> <p><b>Level 2 Assessment:</b> A detailed study 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 the water system on multiple occasions.</p> <p><b>MFL:</b> million fibers per liter (a measure of asbestos)</p> <p><b>na:</b> not applicable.</p> <p><b>mrem:</b> millirems per year (a measure of radiation absorbed by the body)</p> <p><b>NTU:</b> nephelometric turbidity units (a measure of turbidity)</p> <p><b>pCi/L:</b> picocuries per liter (a measure of radioactivity)</p> <p><b>ppb:</b> micrograms per liter or parts per billion - or one ounce in 7,350,000 gallons of water.</p> <p><b>ppm:</b> milligrams per liter or parts per million - or one ounce in 7,350 gallons of water.</p> <p><b>ppq:</b> parts per quadrillion, or picograms per liter (pg/L)</p> <p><b>ppt:</b> parts per trillion, or nanograms per liter (ng/L)</p> <p><b>Treatment Technique/TT</b>—a specific treatment method required by the EPA to control the level of contaminant in drinking water.</p>

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### Secondary Constituents

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 greatly affect appearance and taste of your water..

### Source of 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.**

### ALL Drinking water may contain contaminants.

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.

### Information about of Source Water Assessments

A Source Water Susceptibility Assessment for your drinking water source(s) is currently being updated by the Texas Commission on Environmental Quality. This information describes 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 allows us to focus source water protection strategies.

**The SWSA susceptibility ratings are divided into three divisions: “High,” “Medium,” and “Low.”**

“**High**” susceptibility means there are activities near the source water and the natural conditions of the aquifer or watershed make it very likely that chemical constituents may come into contact with the source water. It does **not** mean that there are any health risks present.

“**Medium**” susceptibility means there are activities near the source water and the natural conditions of the aquifer or watershed make it somewhat likely that chemical constituents may come into contact with the source water. It does **not** mean that there are any health risks present.

“**Low**” susceptibility means there are activities near the source water and the natural conditions of the aquifer or watershed make it unlikely that chemical constituents may come into contact with the source water. It does **not** mean that there are any health risks present.

For more information about your sources of water, please refer to the Source Water Assessment Viewer available at the following URL:

<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/DWW/>

#### Source Water Name

#### Type of water

1 – FM 1374

GW

Gulf Coast Aquifer is the water source for the well.

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### Source Water Assessment

A Source Water Assessment for your drinking water source(s) will be conducted by the TCEQ once the system becomes active. 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 in this assessment will allow us to focus our source water protection strategies.