

2021 Water Quality Report for Emerald Forest Utility District

The Drinking Water produced by your District exceeds all of the minimum Drinking Water Standards as established by the U.S Environmental Protection Agency (EPA).

YOUR WATER IS SAFE TO DRINK

En Espanol

Este reporte incluye información importante sobre el agua para tomar. Para asistencia en español, favor de llamar al telefono (281) 897-9100.

About the following pages

The pages that follow list all of the federally regulated or monitored constituents which have been found in your drinking water. 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.

Prepared by Regional Water Corporation
281-897-9100

PUBLIC PARTICIPATION OPPORTUNITIES

Date: Second Monday of each month

Time: 2:30 P.M.

Location: 3200 Southwest Freeway, Suite 2600, Houston, TX 77027

Phone Number: 281-897-9100

To learn about future public meetings (concerning your drinking water),
or to request to schedule one please call us

SPECIAL NOTICE FOR THE ELDERLY, INFANTS, CANCER PATIENTS, PEOPLE WITH IMMUNE PROBLEMS

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).

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 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).

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 (such as calcium, sodium, or iron) 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 us at 281-897-9100.

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 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.

WHERE DO WE GET OUR DRINKING WATER?

EMERALD FOREST UTILITY DISTRICT provides ground water from the Evangeline Aquifer located in Harris County. Additionally, Emerald Forest received water from Harris County FWSD No. 61 to some of the retail establishments within the district. 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 us at 281-897-9100.

This report, also referred to as Consumer Confidence Report (CCR) is your water quality report for the results of the most current water testing from 2016 through 2020. The analysis was made using the data from the most recent U.S. Environmental Protection Agency (EPA) required tests and is presented in the following tables. We hope this information helps you become more knowledgeable about what's in your drinking water.

REGULATED CONTAMINANTS

Year	Constituent	Emerald Forest, Avg	Harris Co FWSD 61, Avg	Range of Detected Levels	MCL	MCLG	Unit of Measure	Does Constituent Exceed MCL?	Source of Constituent
2019-2020	Arsenic*	3.1	9.8	2.1 – 9.8	10	0	ppb	NO	Erosion of natural deposits
2019-2020	Barium	0.230	0.164	0.164 – 0.236	2	2	ppm	NO	Erosion of natural deposits
2020	Flouride	0.15	0.52	0.13 – 0.58	4	4	ppm	NO	Erosion of natural deposits
2017–2020	Gross Alpha	12.9	2.8	ND – 18.8	15	0	pCi/L	NO	Erosion of natural deposits
2017–2020	Gross Beta	4.4	1.1	ND – 8.7	50**	0	pCi/L	NO	Decay of natural and manmade deposits
2021	Nitrate	0.15	0.09	ND – 0.19	10	10	ppm	NO	Erosion of natural deposits
2020	Radium	1.1	ND	ND – 2.25	5	0	pCi/L	NO	Erosion of natural deposits
2019-2020	Selenium	4.0	4.6	ND – 4.6	50	50	ppb	NO	Erosion of natural deposits
2021	Total Trihalomethanes (TTHM)	2.1	2.4	ND – 4.8	80	N/A	ppb	NO	Byproduct of drinking water disinfection
2017–2020	Uranium	11.7	1.2	ND – 17.1	30	30	ppb	NO	Erosion of natural deposits
2017	Di(2-ethylhexyl)phthalate	ND	3.0	ND – 15.0	6	0	ppb	NO	Discharge from rubber and chemical factories
2020 - 2021	Xylenes	0.0011	0.0011	ND – 0.011	10	10	ppm	NO	Discharge from petroleum factories; Discharge from chemical factories.

*The maximum contaminant level (MCL) for arsenic decreased from 0.05 mg/l (50 ppb) to 0.01 mg/l (10 ppb) effective January 23, 2006. Because the highest reported arsenic level on this report is between 5 ppb and 10 ppb, this information is required by EPA: *“While your drinking water meets EPA’s standard for arsenic, it does contain low levels of arsenic. EPA’s standard balances the current understanding of arsenic’s possible health effects against the cost 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.”*

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

MONITORED/ UNREGULATED CONTAMINANTS***

Year	Constituent	Emerald Forest, Avg	Harris Co FWSD 61, Avg	Range of Detected Levels	Unit of Measure	Source of Constituent
2020	Bromoform	0.7	0.7	ND – 4.3	ppb	Byproduct of drinking water disinfection
2020	Bromodichloromethane	0.6	0.1	ND – 4.8	ppb	Byproduct of drinking water disinfection
2020	Dibromochloromethane	0.9	1.2	ND – 7.8	ppb	Byproduct 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.

LEAD AND COPPER

Year	Constituent	The 90 th Percentile	Number of Sites Exceeding Action Level	AL	MCLG	Unit of Measure	Does Constituent Exceed AL?	Source of Constituent
2021	Lead****	0	0	15	0	ppb	NO	Corrosion of household plumbing systems. Erosions of natural deposits
2021	Copper	0	0	1.3	1.3	ppm	NO	Corrosion of household plumbing systems. Erosions of natural deposits

**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>.

DISINFECTANT RESIDUAL

Year	Constituent	Annual Average Level	Range of Detected Levels (low – high)	MRDL	MRDLG	Units	Does Constituent Exceed MRDL?	Source of Constituent
2021	Chlorine Residual, Free	1.6	0.5 – 1.8	4	4	ppm	NO	Treatment chemical used to control microbes

Lead and Copper Rule			
The Lead and Copper Rule protects public health by minimizing lead and copper levels in drinking water, primarily by reducing water corrosivity. Lead and copper enter drinking water mainly from corrosion of lead and copper containing plumbing materials.			
Violation Type	Violation Begins	Violation End	Violation Explanation
LEAD CONSUMER NOTICE (LCR)	12/30/2019	04/13/2021	We failed to provide the results of lead tap water monitoring to the consumers at the location water was tested. These were supposed to be provided no later than 30 days after learning the results.

DEFINITIONS:

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

Avg – Regulatory compliance with MCLs are based on running annual average of monthly samples.

Maximum Contaminant Level (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 (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 addition of a disinfectant is necessary for control of microbial contaminants.

Maximum Residual Disinfectant Level Goal (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 contamination.

Treatment Technique (TT) – A required process intended to reduce the level of a contaminant in drinking water.

ABBREVIATIONS:

NA – MCL not applicable – not regulated

ND – Not detected

NTU – Nephelometric Turbidity Units (a measure of turbidity)

MFL – million fibers per liter (a measure of asbestos)

pCi/L – Picocuries per liter, (a measure of radioactivity). One pCi/L is equivalent to two atoms disintegrating per minute per liter

ppm – Milligrams per liter or parts per million, or one ounce in 7,350 gallons of water

ppb – Micrograms per liter or parts per billion, or one ounce in 7,350,000 gallons of water