

2019 Annual Drinking Water Quality Report

(Consumer Confidence Report)

HARRIS COUNTY MUNICIPAL UTILITY DISTRICT NO. 150
PWS ID No. TX1011250 Phone No: 281-895-8547

WATER SOURCES: The Texas Commission on Environmental Quality has assessed Harris County Municipal Utility District No. 150's water and has determined that it is safe to drink. The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. Harris County MUD No. 150's water sources include both ground water and surface water sources. The District owns and maintains water wells which have the ability to pump groundwater for the District. The District additionally purchases surface water from Central Harris County Regional Water Authority which pumps such water from Lake Houston. For the year 2019, the District received 100% of its water from the Central Harris County Regional Water Authority and did not use any groundwater from its water wells. The District maintains its water wells to provide a backup source of water in the event that the surface water supply from the Central Harris County Regional Water Authority is compromised or is otherwise unavailable. 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 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 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 infections 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>.

In the Water Loss Audit submitted to the Texas Water Development Board for the time period of January 2019 – December 2019, our system lost an estimated 14,568,775 gallons of water. Overall, our system accounted for approximately 93.62% of the water produced during that period. If you have any questions about the water loss audit, please call 281.895.8547

Public Participation Opportunities	En Español
<p>Date: 3rd Tuesday of Each Month Time: 6:00 PM Location: 13563 Bammel N. Houston Houston, Texas 77066 Phone No: 281-895-8547</p> <p>To learn about future public meetings (concerning your drinking water), or to request to schedule one, please call 281-895-8547.</p>	<p>Este reporte incluye información importante sobre el agua para tomar. Para asistencia en informe en español, favor de llamar al tel. (281)895-8547.</p>

Information about Source Water Assessments

The TCEQ completed an assessment of your source water and results indicated that some of our sources are susceptible to certain contaminants. The sampling requirements for your water system are based on this susceptibility and previous sample data. Any detection of these contaminants may be found in this Consumer Confidence Report. For more information on source water assessments and protection efforts at our system, contact 281-895-8547.

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://dww.tceq.texas.gov/DWW/>

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 may greatly affect the appearance and taste of your water.

About The Following Pages

The pages that follow list all 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.

Water Quality Test Results

Definitions and Abbreviations:	The following tables contain scientific terms and measures, some of which may require explanation.
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.
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 total coliform bacteria have been found in our water system on multiple occasions.
Maximum Contaminant Level Goal or MCLG:	The level of 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 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 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.
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.
mrem:	millirems per year (a measure of radiation absorbed by the body)
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.
na:	Not applicable.
Definitions:	The following tables contain scientific terms and measures, some of which may require explanation.
TCR:	Total coliform rule
MFL	Million fibers per liter (a measure of asbestos)
NTU	Nephelometric turbidity units (a measure of turbidity)
pCi/L	picocuries per liter (a measure of radioactivity)

ppb:
ppm:
ppq:
ppt:
Treatment Technique or TT:

micrograms per liter or parts per billion – or one ounce in 7,350,000 gallons of water.
milligrams per liter or parts per million – or one ounce in 7,350 gallons of water.
parts per quadrillion, or picograms per liter (pg/L)
parts per trillion, or nanograms per liter (ng/L)
A required process intended to reduce the level of a contaminant in drinking water.

Regulated Contaminants Detected

Lead and Copper

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90 th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	9/29/2016	1.3	1.3	0.0184	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems
Lead	9/29/2016	0	15	0.573	0	ppb	N	Corrosion of household plumbing systems; Erosion of natural deposits

Regulated Contaminants

Disinfectants and Disinfection By-Products	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Haloacetic Acids (HAA5)*	2019	22	11.8 – 32.6	No goal for the total	60	ppb	N	By-product of drinking water disinfection.
Total Trihalomethanes (TThm)	2019	13	6.1 – 10.8	No goal for the total	80	ppb	N	By-product of drinking water disinfection.

Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Barium	2019	0.0581	0.0581 – 0.0581	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Cyanide	3/28/2017	40	0 – 40	200	200	ppb	N	Discharge from plastic and fertilizer factories; Discharge from steel/metal factories.
Fluoride	3/28/2017	0.1	0.– 0.1	4	4.0	ppm	N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum
Nitrate [measured as Nitrogen]	2019	1	0.5 – 0.51	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 Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Beta/photon emitters	12/5/2016	5.3	5.3 – 5.3	0	50	pCi/L*	N	Decay of natural and man-made deposits

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

Synthetic organic contaminants including pesticides	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Di- (2-ethylhexyl) phthalate	2015	1	0 – 1.1	0	6	ppb	N	Runoff from herbicide used on row crops
Atrazine	2019	0.13	0.13-0.13	3	3	ppb	N	Runoff from herbicide used on row crops
Simazine	2018	0.13	0.12-0.13	4	4	ppb	N	Herbicide runoff

Disinfectant Residual Table

Disinfectant	Year	Average Level	Minimum Level	Maximum Level	MRDL	MRDLG	Unit of Measure	Violation (Y/N)	Likely Source of Contamination
Chloramine	2019	3.27	2.5	3.8	0.5	< 4.0	ppm	N	Water additive used to control microbes.

***** In 2019, Harris County Municipal Utility District No 150 purchased water through an open interconnect from Central Harris County Regional Water Authority. The following tables contain all of the chemical constituents which have been found in their water.**

Regulated Contaminants

Disinfectants and Disinfection By-Products	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Haloacetic Acids (HAA5)	2019	14	13.9 – 13.9	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 (TTHM)	2019	11	10.6 – 10.6	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 Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Nitrate (measured as Nitrogen)	2019	0.09	0.09 – 0.09	10	10	ppm	N	Runoff from fertilizer use; leaching from septic tanks, sewage, erosion of natural deposits
Nitrite (measured as Nitrogen)	8/22/2015	0.03	0.03 – 0.03	1	1	ppm	N	Runoff from fertilizer use; leaching from septic tanks, sewage, erosion of natural deposits