



## 2021 Consumer Confidence Report for Public Water System THE CONSOLIDATED WSC CENTRAL SYSTEM

This is your water quality report for January 1 to December 31, 2021

THE CONSOLIDATED WSC CENTRAL SYSTEM provides treated surface water from Houston County Lake located in Houston County, Texas.

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Este reporte incluye información importante sobre el agua para tomar. Para asistencia en español, favor de llamar al telefono (936) 544-2986.

### Definitions and Abbreviations

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 is based on running annual average of monthly samples.
Maximum Contaminant Level or 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 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	picrouries per liter (a measure of radioactivity)
ppb:	micrograms per liter or parts per billion
ppm:	milligrams per liter or parts per million
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 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 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).

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>.

## Information about Source Water

THE CONSOLIDATED WSC CENTRAL SYSTEM purchases treated water from HOUSTON COUNTY WCID 1. HOUSTON COUNTY WCID 1 provides purchased surface water from Houston County Lake located in Houston County, Texas. TCEQ completed a Source Water Susceptibility for all drinking water systems that own their sources. This report describes the susceptibility and types of constituents that may come into contact with the drinking water source based on human activities and natural conditions. The system(s) from which we purchase our water received the assessment report. For more information on source water assessments and protection efforts at our system contact Amber Stelly at 936-544-2986.

## 2021 Water Quality Test Results

The following constituents were detected by the provider.

Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation?	Likely Source of Contamination
Total Barium	2021	0.047	0.047– 0.047	2	2	ppm	<b>NO</b>	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Fluoride	2021	0.5165	0.3 - 0.7	4.0	4.0	ppm	<b>NO</b>	Erosion of natural deposits; Water additive that promotes strong teeth; Discharge from fertilizer and aluminum factories.
Chromium	2021	<0.001	<0.001	0.005	0.005	ppm	<b>NO</b>	Corrosion of galvanized pipes; erosion of natural deposits; discharge run off from waste batteries and paint.

### Turbidity

Turbidity is a measurement of the cloudiness of the water caused by suspended particles. It is a good indicator of water quality and the effectiveness of filtration systems and disinfectants.

	Level Detected	Limit (Treatment Technique)	Violation	Likely Source of Contamination
Highest single measurement	0.45 NTU	1 NTU	<b>NO</b>	Soil runoff.
Lowest monthly % meeting limit	99.772%	95%	<b>NO</b>	Soil runoff.

### Secondary and Other Constituents

Secondary constituents are not necessarily cause for health concerns but may cause taste, color and odor problems.

Constituent	Year	Average Level	Range of Levels Detected	Secondary Limit	Unit of Measure	Violation?	Source in Drinking Water
Aluminum, Total	2021	0.094	0.094 – 0.094	0.2	ppm	<b>NO</b>	Water additive used to control microbes.
Bicarbonate Alkalinity	2021	24.9	24.9 – 24.9	na	ppm	<b>NO</b>	Corrosion of carbonate rocks such as limestone.
Calcium, Total	2021	16.7	16.7 – 16.7	na	ppm	<b>NO</b>	Abundant naturally occurring element.
Chloride	2021	16.9	16.9 – 16.9	250	ppm	<b>NO</b>	Abundant naturally occurring element; Used in water purification; by-product of oil field activity.
Magnesium, Total	2021	2.49	2.49 - 2.49	na	ppm	<b>NO</b>	Abundant naturally occurring element.
pH	2021	7.3	6.2 – 8.9	9	units	<b>NO</b>	Measure of the acidity or basicity of water.
Sodium, Total	2021	7.82	7.82 – 7.82	na	ppm	<b>NO</b>	Erosion of natural deposits; By-product of oil field activity.
Sulfate	2021	26.0	26.0 – 26.0	250	ppm	<b>NO</b>	Naturally occurring; Common industrial by-product; By-product of oil field activity.
Alkalinity, Total (CaCO <sub>3</sub> )	2021	24.9	24.9-24.9	na	ppm	<b>NO</b>	Naturally occurring soluble mineral salts.
Total Dissolved Solids	2021	106	106 - 106	500	ppm	<b>NO</b>	Total dissolved mineral constituents in water.
Total Hardness as CaCO <sub>3</sub>	2021	51.9	51.9-51.9	na	ppm	<b>NO</b>	Naturally occurring calcium.
Zinc, total	2020	0.0058	0.0058 - 0.0058	5	ppm	<b>NO</b>	Moderately abundant naturally occurring element used in the metal industry.

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation?	Likely Source of Contamination
Copper	2021	1.3	1.3	0.14	0	ppm	NO	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.
Lead	2021	0	15	1.1	0	ppb	NO	Corrosion of household plumbing systems; Erosion of natural deposits.

The following constituents were reported by THE CONSOLIDATED WSC CENTRAL SYSTEM.

Disinfection By-Products	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation?	Likely Source of Contamination
Haloacetic Acids (HAA5)	2021	39	0 - 49.3	No goal for the total	60	ppb	NO	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)	2021	58	31.9 - 85.8	No goal for the total	80	ppb	NO	By-product of drinking water disinfection.
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\*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
Nitrate [measured as Nitrogen]	2021	0.181	0.165 - 0.181	10	10	ppm	NO	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.

#### Disinfectant Residual

We are required by law to maintain a minimum of 0.5 mg/L chlorine residual at all points of the distribution system. We take on average 13,873 yearly tests confirming we meet this quality standard.

Disinfectant Residual	Year	Average Level	Range of Levels Detected	MRDL	MRDLG	Units	Violation?	Source in Drinking Water
Total Chlorine	2021	1.97	0.53-3.9	4	4	ppm	NO	Water additive used to control microbes.

#### Violations

Public Notification Rule			
The Public Notification Rule helps to ensure that consumers will always know if there is a problem with their drinking water. These notices immediately alert consumers if there is a serious problem with their drinking water (e.g., a boil water emergency).			
Violation Type	Violation Begin	Violation End	Violation Explanation
PUBLIC NOTICE RULE LINKED TO VIOLATION	02/14/2021	2021	We failed to adequately notify you, our drinking water consumers, about a violation of the drinking water regulations. Specifically, we submitted an operations evaluation report to the wrong entity at the TCEQ, which created a violation. We then failed to notify you about this mistake within one year of the issuance of the violation. We are working to increase the efficiency and accuracy of our administrative processes. Thank you for your patience and understanding.