

Chalk Hill Special Utility District Annual Drinking Water Quality Report



Annual Water Quality Report for the period of January 1 to December 31, 2023

This report is intended to provide you with important information about your drinking water.

Providing safe and reliable drinking water is the highest priority of the Chalk Hill SUD. We can report that TCEQ has assessed our system and determined that our drinking water is **SAFE** and meets all Federal and State requirements.

Este reporte incluye informacion importante sobre el agua para tomar. Para asistencia en espanol, favor de llamar al telefono (903) 643-2927

Sources 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.

Chalk Hill SUD uses only groundwater, drawn from five wells in the Wilcox Aquifer located in Rusk County.

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 results 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 on 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 your sources are susceptible to certain contaminants. The sampling requirements for your water system are based on the 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 Chalk Hill S.U.D. office at 903-643-2927, Monday-Friday 8am-12 and 1pm -5pm

Information about Source Water Assessments

The TCEQ completed an assessment of your source water and results indicate that some of your 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 Confident Report. For more information on source water assessments and protection efforts at our system, contact Chalk Hill Special Utility District at 903-643-2927

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/>

Source Water Name		type of water	report status	Location
1 - Plant 4- FM 782	Plant 4- FM 782	GW	_____	_____
2 - N of Plant 4/FM 782	N of Plant 4/FM 782	GW	_____	_____
3 - S of Plant 4/FM 782	S of Plant 4/FM 782	GW	_____	_____
7R - 10026 CR 2126	Plant #7/CR2126	GW	_____	_____
8 - 0.25 MI S of 7	0.25 MI S of 7	GW	_____	_____
9 - FM 1716	FM 1716	GW	_____	_____

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	09/13/2022	1.3	1.3	0.627	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.

Chlorine Residual Table

Disinfectant	Year	Average Level	Minimum Level	Maximum Level	MRDL	MRDLG	Unit of Measure	Violation (Y/N)	Likely Source of Contamination
Free Chlorine	2019	1.57	.70	3.20	4.0	4.0	Mg/L	Ppm	Water additive used to control microbes.

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 sample	1		0	N	Naturally present in the environment.

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)*	2023	19	18.7-19.4	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)	2023	39	36.2-41.7	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

Synthetic organic contaminants including pesticides and herbicides	Collection Date	Highest Level detected	Range of levels detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Dalapon	2023	1.54	0-1.54	200	200	Ppb	N	Runoff from herbicide used on rights of way.
Di (2-ethylhexyl) phthalate	2022	1	0.5-0.5	0	6	Ppb	N	Discharge from rubber and chemical factories.

Volatile Organic Contaminants	Collection Date	Highest Level detected	Range of levels detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Ethylbenzene	2019	1.36	0 -1.36	10	10	Ppm	N	Discharge from petroleum factories; Discharge from chemical factories.
Xylenes	2022	0.00056	0-0.00056	10	10	Ppb	N	Discharge from petroleum refineries

Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MC LG	MCL	Units	Violation	Likely Source of Contamination
Barium	12/13/2022	0.023	0.022-0.023	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Chromium	12/13/2022	1.5	0-1.5	100	100	ppb	N	Discharge from steel and pulp mills; Erosion of natural deposits.
Fluoride	2023	0.737	0.21-0.737	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)	2023	0.0355	0.0287-0.0355	10	10	ppm	N	Runoff from fertilizer use; leaching from septic tanks sewage; Erosion of natural deposits.

Definitions: The following tables contain scientific terms and measures, some of which may require explanation.

Definitions:

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

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.

Avg: Regulatory compliance with some MCLs is 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 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: picocuries per liter (a measure of radioactivity)

ppb: micrograms per liter or parts per billion-or one ounce in 7,350,000 gallons of water.

ppm: milligrams per liter or parts per million-or one ounce in 7,350 gallons of water.

ppt: parts per trillion, or nanograms per liter (ng/L)

ppq: parts per quadrillion, or pictograms per liter (pg/L)

Treatment Technique or TT: A required process intended to reduce the level of a contaminant in drinking water