



CRYSTAL CLEAR SPECIAL UTILITY DISTRICT
2024 CONSUMER CONFIDENCE REPORT
PWS ID NO: TX0940015

2024 Consumer Confidence Report for Public Water System CRYSTAL CLEAR SUD

This is your water quality report for January 1 to December 31, 2024

CRYSTAL CLEAR SUD provides surface water and ground water under the influence of surface water and ground water from the **Edwards Aquifer, Carrizo-Wilcox Aquifer, San Marcos River and Lake Dunlap** located in **Comal, Gonzales, Hays and Guadalupe County**.

For more information regarding this report contact:

Name Crystal Clear Special Utility District

Phone (830) 372-1031

Este reporte incluye información importante sobre el agua para tomar. Para asistencia en español, favor de llamar al telefono (830) 372-1031

Definitions and Abbreviations

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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 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 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)

Definitions and Abbreviations

ppb:	micrograms per liter or parts per billion
ppm:	milligrams per liter or parts per million
ppq	parts per quadrillion, or picograms per liter (pg/L)
ppt	parts per trillion, or nanograms per liter (ng/L)
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 EPAs 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 number 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

Crystal Clear SUD currently services two wells that provide ground water from the **Edwards Aquifer** located in **New Braunfels, TX**.
The 2023 Crystal Clear SUD Water Quality Test Results can be found on **page 4**.

CRYSTAL CLEAR SUD purchases water from CRWA LAKE DUNLAP WTP. CRWA LAKE DUNLAP WTP provides purchase surface water from **Lake Dunlap** located in **New Braunfels, TX**.
The 2023 CRWA LAKE DUNLAP WTP Water Quality Test Results can be found on **page 6**.

CRYSTAL CLEAR SUD purchases water from CRWA HAYS CALDWELL WTP. CRWA HAYS CALDWELL WTP provides purchase surface water from the **San Marcos River** located in **San Marcos, TX**.
The 2023 CRWA HAYS CALDWELL WTP Water Quality Test Results can be found on **page 7**.

CRYSTAL CLEAR SUD purchases water from CRWA WELLS RANCH. CRWA WELLS RANCH provides purchase ground water from **Carrizo-Wilcox Aquifer** located in **Seguin, TX**.
The 2023 CRWA WELLS RANCH Water Quality Test Results can be found on **page 8**.

CRYSTAL CLEAR SUD purchases water from SPRINGS HILL SUD, SPRINGS HILL SUD provides purchase ground water from **Carrizo-Wilcox Aquifer** located in **Seguin TX**.
The 2023 SPRINGS HILL WSC Water Quality Test Results can be found on **page 9**.

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 **Crystal Clear Special Utility District, (830) 372-1031**

Crystal Clear SUD

2024 Water Quality Test Results

Contaminant	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation Y/N	Likely Source of Contamination
Microbiological Contaminants								
Total Coliform Bacteria	2024	Present (2 Positive)	Absent or Present	0	1 Positive monthly sample	N/A	N	Naturally present in the environment.
Fecal Coliform and E.Coli	2024	Absent	Absent or Present	0	0	N/A	N	Human and animal fecal waste.
Inorganic Contaminants								
Copper	2024	0.27	0.0-0.27	1.3	AL=1.3 (EPA National Primary Drinking Water Regulations)	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; corrosion of household plumbing systems.
Lead	2024	0.0137	0.0-0.0137	0	0.015	Ppm	N	
Barium	2022	0.0406	0.0406-0.0406	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Fluoride	2023	0.17	0.18-0.17	4	4	ppm	N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
Nitrate (Measured as Nitrogen)	2024	2	0.43-2.09	10	10	ppm	N	Runoff from fertilizer use; leaching from septic tanks, sewage; Erosion of natural deposits.
Disinfection By-Products *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								
Haloacetic Acids (HAA5)	2024	36	0-49.7	No goal for the total	60	ppb	N	Byproduct of drinking water disinfection
Total Trihalomethanes (TTHM)	2024	60	4.6-71.1	No goal for the total	80	ppb	N	Byproduct of drinking water disinfection

Unregulated Contaminants (UCMR5)								
Perfluorobutanoic acid (PFBA)	2024	5.6	0-5.6	No goal for the total	5.2	ng/L	N	polyfluoroalkyl substance (PFAS)
Perfluoropentanoic acid (PFPeA)	2024	3.8	0-3.8	No goal for the total	3.01	ng/L	N	polyfluoroalkyl substance (PFAS)
Disinfectant Residual	Year	Average Level	Range of Levels Detected	MRDL	MRDLG	Unit of Measure	Violation (Y/N)	Source in Drinking water
Chlorine (Free)	2024	1.45	0.42-2.21	4	4	ppm	N	Water additive used to control microbes.

CRWA LAKE DUNLAP WTP

2024 Water Quality Test Results

Disinfection By-Products	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Chlorite	2024	0.025	0 – 0.025	0.8	1	ppm	N	By-product of drinking water disinfection.
Haloacetic Acids (HAA5)	2023	21.1	32.6-71.7	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)	2024	42.7	41.5-68.4	No goal for the total	80	ppb	N	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

Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Barium	2024	0.0461	0.0461-0.0461	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Fluoride	2024	0.15	0.15-0.15	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]	2024	2.01	2.01-2.01	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.

Turbidity	Level Detected	Limit (Treatment Technique)	Violation	Likely Source of Contamination
Highest single measurement	0.098 NTU	1 NTU	N	Soil runoff.
Lowest monthly % meeting limit	100%	0.3 NTU	N	Soil runoff.

Information Statement: Turbidity is a measurement of the cloudiness of the water caused by suspended particles. We monitor it because it is a good indicator of water quality and the effectiveness of our filtration system and disinfectants.

CRWA HAYS CALDWELL WTP

2024 Water Quality Test Results

Disinfection By-Products	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Chlorite	2024	0.92	0.28-0.92	0.8	1	ppm	N	By-product of drinking water disinfection.
Haloacetic Acids (HAA5)	2024	22	22.0-71.7	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)	2024	49.9	25.5-68.4	No goal for the total	80	ppb	N	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
Barium	2023	0.0404	0.0404 - 0.0404	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Fluoride	2023	0.16	0.16 - 0.16	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	1.82	1.82 – 1.82	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.

Turbidity	Level Detected	Limit (Treatment Technique)	Violation	Likely Source of Contamination
Highest single measurement	0.014 NTU	1 NTU	N	Soil runoff.
Lowest monthly % meeting limit	100%	0.3 NTU	N	Soil runoff.

Information Statement: Turbidity is a measurement of the cloudiness of the water caused by suspended particles. We monitor it because it is a good indicator of water quality and the effectiveness of our filtration system and disinfectants.

CRWA WELLS RANCH

2024 Water Quality Test Results

Disinfection By-Products	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Haloacetic Acids (HAA5)	07/01/2021	1.1	1.1 - 1.1	No goal for the total	60	ppb	N	By-product of drinking water disinfection.
Total Trihalomethanes (TTHM)	07/01/2021	8.2	8.2 - 8.2	No goal for the total	80	ppb	N	By-product of drinking water disinfection.

Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Asbestos	2018	<0.197	N/A	7	7	MFL	N	Decay of asbestos cement water mains; erosion of natural deposits
Fluoride	2022	0.12	0.12 - 0.12	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]	2024	0.18	0.00-0.18	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 Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Beta/photon emitters	2024	4.8	5.5 - 5.5	0	50	pCi/L*	N	Decay of natural and man-made deposits.
Alpha Emitters	2024	<3.0	<3.0	0	15	pCi/L*	N	Erosion of Natural deposits.
Radium-228	2024	<1.0	<1.0	0	5	pCi/L*	N	Erosion of natural deposits.

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

SPRINGS HILL SUD

2024 Water Quality Test Results

Disinfection By-Products	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Chlorite	2024	0.81	0-0.81	0.8	1	Ppm	N	By-product of drinking water disinfection
Haloacetic Acids (HAA5)	2024	36	1.1-53.1	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)	2024	84	6.8-125	No goal for the total	80	ppb	N	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
Barium	2024	0.0461	0.0461-0.0461	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Fluoride	2024	0.2	0.12-0.19	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]	2024	2	0 – 1.77	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	2022	1.3	1.3	0.12	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.
Lead	2022	0	15	1.3	1	ppb	N	Corrosion of household plumbing systems; Erosion of natural deposits.

Turbidity	Level Detected	Limit (Treatment Technique)	Violation	Likely Source of Contamination
Highest single measurement	0.29 NTU	1 NTU	N	Soil runoff.
Lowest monthly % meeting limit	100%	0.3 NTU	N	Soil runoff.

Information Statement: Turbidity is a measurement of the cloudiness of the water caused by suspended particles. We monitor it because it is a good indicator of water quality and the effectiveness of our filtration system and disinfectants.