

S.U.N Water Supply Corporation 2024 Annual Drinking Water Report

(Also known as the Consumer Confidence Report)

Water System Identification Number – TX2210015

Annual Water Quality Report for the period of January 1 to December 31, 2024

S.U.N. WSC purchases treated surface water from the City of Abilene which treats surface water from Lake Fort Phantom, Lake Ivie and Hubbard Creek Lake

For more information regarding this report contact: Finley Barnett, Manager at (325) 928-5406

Este reporte incluye informacion sobre el agua para tomar. Para asistencia en espanol, favor de llamar al telefono (325) 928-5406

PUBLIC PARTICIPATION OPPORTUNITIES AT WATER BOARD MEETINGS

Date: Third Tuesday of every other month. **Time:** 6:30 pm

Note – The meeting time and date may change due to conflicting community events

Location: Water office – 135 Edwards, Merkel, Texas 79536 | **Phone:** (325) 928-5406

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. 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 Assessments

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 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 the source water assessments and protection efforts at our system, please contact Molly Bryant, General Manager at 325-928-5406.

Water Quality Test Results Explanation of Acronyms Used in this Report: The following tables contain scientific terms and measures, some of which may require explanation.

Avg: Regulatory compliance with some MCLs are 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.

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.

Total Trihalomethanes (TTHM)	2024	36	29.6-48	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
Nitrate [measured as Nitrogen]	2024	0.294	0.294-0.294	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.

Sun WSC purchases water from CITY OF ABILENE. CITY OF ABILENE provides purchase surface water from WEST CENTRAL TEXAS MWD located in STEPHENS County.

Regulated Contaminants in the Source Water – City of Abilene

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	07/21/2023	1.3	1.3	0.249	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives Corrosion of household plumbing systems.
Disinfection By-Products	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Chlorite	2024	0.92	0.000283 - 0.9	0.8	1	ppm	N	By-product of drinking water disinfection.
Haloacetic Acids (HAAS)	2024	21	12 - 24.9	No Goal for the total	60	ppm	N	By-product of drinking water disinfection.
Total Trihalomethanes (TTHM)	2024	54	15.9 - 60	No Goal for the total	80	ppb	N	By-product of drinking water disinfection.

<u>Inorganic Contaminants</u>	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Arsenic	2024	1	0-1.1	0	10	ppb	N	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes.
Barium	2024	0.18	0.16-0.18	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Chromium	2024	1.7	0-1.7	100	100	ppb	N	Discharge from steel and pulp mills; Erosion of natural deposits.
Cyanide	2024	206	25.6-206	200	200	ppb	N	Discharge from plastic and fertilizer factories; Discharge from steel/metal factories.
Fluoride	2024	0.8	0.822-0.841	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	0.247	0.0403-0.247	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
<u>Radioactive Contaminants</u>	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Beta/photon emitters	2024	10.7	7.7-10.7	0	50	pCi/L*	N	Decay of natural and man-made deposits.
Uranium	2024	2.9	0-2.9	0	30	Ug/l	N	Erosion of natural deposits.

Turbidity

	Level Detected	Limit (Treatment Technique)	Violation	Likely Source of Contamination
Highest Single measurement	0.19 NTU	1 NTU	N	Soil runoff.
Lowest monthly % meeting Limit	100%	0.3 NTU	N	Soil runoff.

Unregulated Contaminants Detected

Unregulated Contaminant	Collection Date	Results (µg/L)	Health-Based Reference Concentration (µg/L) (recommended, not required in the CCR)	Health Information Summary (recommended, not required in the CCR)
Lithium	06/12/2024	28.9	10	This data is part of UCMR5 results in relation to minimum reporting levels and available non-regulatory health-based reference concentrations.
PFPeA	06/12/2024	0.0164	NA	This data is part of UCMR5 results in relation to minimum reporting levels and available non-regulatory health-based reference concentrations.
PFOA	06/12/2024	0.00714	NA	This data is part of UCMR5 results in relation to minimum reporting levels and available non-regulatory health-based reference concentrations.
PFOS	06/12/2024	0.0256	NA	This data is part of UCMR5 results in relation to minimum reporting levels and available non-regulatory health-based reference concentrations.
PFHpA	06/12/2024	0.0096	NA	This data is part of UCMR5 results in relation to minimum reporting levels and available non-regulatory health-based reference concentrations.
PFHxA	06/12/2024	0.0214	3	This data is part of UCMR5 results in relation to minimum reporting levels and available non-regulatory health-based reference concentrations.
PFBS	06/12/2024	0.00688	NA	This data is part of UCMR5 results in relation to minimum reporting levels and available non-regulatory health-based reference concentrations.
PFHxS	06/12/2024	0.0202	NA	This data is part of UCMR5 results in relation to minimum reporting levels and available non-regulatory health-based reference concentrations.

Sun WSC purchases water from Bitter Creek WSC.

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
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0	1 positive monthly sa	1		0	N	Naturally present in the environment.
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Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	2024	1.3	1.3	0.139	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.

Disinfection By-Products	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Total Trihalomethanes (TTHM)	2024	1	1.13 - 1.14	No goal for the tot	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 2024

Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Barium	05/30/2023	0.14	0.14 - 0.14	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Fluoride	05/30/2023	0.551	0.551 - 0.551	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	1.77 - 1.77	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
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Radioactive Contaminants	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Beta/photon emitters	05/30/2023	6	6 - 6	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.

Combined Radium 226/228	05/30/2023	1.03	1.03 - 1.03	0	5	pCi/L	N	Erosion of natural deposits.
Gross alpha excluding radon uranium	05/30/2023	9	9 - 9	0	15	pCi/L	N	Erosion of natural deposits.
Uranium	05/30/2023	3.9	3.9 - 3.9	0	30	ug/l	N	Erosion of natural deposits.

Violations – Sun WSC

Revised Total Coliform Rule (RTCR)			
<p>The Revised Total Coliform Rule (RTCR) seek to prevent waterborne diseases caused by E. coli. E. coli are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Human pathogens in these wastes can cause short-term effects, such as diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a greater health risk for infants, young children,</p>			
Violation Type	Violation Begin	Violation End	Violation Explanation
MONITORING, ROUTINE, MAJOR (RTCR)	11/01/2024	11/30/2024	We failed to test our drinking water for the contaminant and period indicated. Because of this failure, we cannot be sure of the quality of our drinking water during the period indicated.

Violations – Bitter Creek WSC

Public Notification Rule			
<p>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).</p>			
Violation Type	Violation Begin	Violation End	Violation Explanation
PUBLIC NOTICE RULE LINKED TO VIOLATION	05/22/2023	05/06/2024	We failed to adequately notify you, our drinking water consumers, about a violation of the drinking water regulations.