



WATER QUALITY REPORT 2023

Este reporte incluye información importante sobre el agua para tomar. Para asistencia en español, favor de llamar al teléfono 512-218-5555.

SAFE, HIGH-QUALITY DRINKING WATER, ROUND THE CLOCK ROUND ROCK.

The City of Round Rock is committed to providing high quality, dependable water to the community. **Round Rock's water system is rated "superior" by the Texas Commission on Environmental Quality (TCEQ) – TCEQ's highest rating – and meets or exceeds all state and federal drinking water standards.**

This Consumer Confidence Report provides information about our water system, including source water, levels of detected contaminants, compliance with drinking water rules, and water quality data from the most recent U.S. Environmental Protection Agency (EPA) required tests.

Where Your Water Comes From

Round Rock's water supply comes from surface water and groundwater sources. Surface water is primarily supplied by Lake Georgetown, and groundwater is served by the Edwards Aquifer.

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.

Water can pick up substances resulting from the presence of animals or human activity. Contaminants that may be present in source water before treatment may include: microbes, inorganic contaminants, pesticides, herbicides, radioactive contaminants, and organic chemical contaminants.

Water Quality

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 may be obtained by calling the EPA Safe Drinking Water Hotline at (800-426-4791).

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 City at 512-341-3134.

To ensure tap water is safe, EPA regulations limit the amounts of certain contaminants in water provided by public water systems. Food and Drug Administration regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Secondary Constituents

Secondary constituents, such as calcium, sodium, or iron, often found in drinking water, can cause taste, color, or odor problems. The State of Texas regulates these taste and odor constituents. These constituents are not necessarily causes for health concerns. Secondary constituents are not required to be reported but may affect the appearance or taste of your water.

Vulnerability to Drinking Water Contaminants

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; those 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 provider.

Additional guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* are available from the Safe Drinking Water Hotline (800-426-4791).

City of Round Rock

Website: roundrocktexas.gov/utilities

Facebook: facebook.com/roundrock

Utilities Division: 512-218-5555

Water Quality Questions: 512-341-3134

Billing Questions: 512-218-5460

U.S. EPA Safe Drinking Water Hotline

800-426-4791 or visit

<http://water.epa.gov/drink/hotline/index.cfm>

Source Water Assessment

TCEQ completed an assessment of Round Rock's source water, and results indicate that some of our sources are susceptible to certain contaminants. The sampling requirements for our water system are based on this susceptibility and previous sample data. Any detection of these contaminants will be found in this Consumer Confidence Report. For more information on source water assessments and protection efforts at our system, please contact the City at 512-341-3134. Source water assessment information is available on Texas Drinking Water Watch at <https://dww2.tceq.texas.gov/DWW/>.

Water Loss

In the water loss audit submitted to the Texas Water Development Board for the time period of January - December 2023, our system lost an estimated 5.0 % of total water produced. If you have questions about the water loss audit, please call 512-341-3134.

Water Hardness

Many consumers believe that their water must be softened to prevent damage to plumbing and fixtures. This is untrue. The average water hardness in Round Rock is 249 mg/L or approximately 14.55 grains per gallon. While this level of hardness may cause minor aesthetic problems such as water spots and dry skin, it does not damage plumbing.

The City routinely performs laboratory tests to measure the stability of the drinking water. Stability refers to whether the water is aggressive or depositional. Test results indicate that Round Rock's drinking water, as delivered to your home, is stable.

Your Participation is Welcome

The Round Rock City Council meets each second and fourth Thursday at 6 p.m. in City Hall Council Chambers, 221 E. Main St. Council meetings are open to the public with opportunities for residents to comment on any city-related issue. Visit roundrocktexas.gov/council for details.

For questions regarding this report, please call 512-341-3134 or email wkinder@roundrocktexas.gov.

Watershed Protection

Stormwater runoff is rain that does not absorb into the ground. It carries litter, pesticides, fertilizers, bacteria from pet waste, and other harmful pollutants into nearby creeks, streams, and other waterways.

Stormwater pollution can contaminate these vital water sources, increase the cost of treating drinking water, and adversely impact the environment.

Help keep our waterways clean. Never sweep or dump anything down storm drains.

Learn more at roundrocktexas.gov/stormwater.

Grease "Can It, Don't Drain It"

Grease may go in as a liquid, but as it travels through drains, it cools and hardens, forming a sticky wax that clogs pipes. This blockage can lead to sewage backups, causing overflow into your home, yard, and nearby creeks. Avoid this costly disaster by disposing of grease in a can and throwing it in the trash.

Learn more facts and get your **FREE Cease the Grease kit** at roundrocktexas.gov/ceasethegrease.

Summer Watering 2024

The City's Water Conservation Program continues to expand, offering free home irrigation evaluations, leak detection kits, and informative classes throughout the year. The program also offers a variety of water conservation rebates that pay back hundreds of dollars on products and services such as lawn aeration, irrigation system upgrades, water-efficient clothes washers, showerheads, toilets, and much more. Upgrading to a WaterSmart home has never been easier!

The City's Drought Contingency and Water Conservation Plans were updated in June 2024. The plans include new year-round water use standards for lawn irrigation that apply when no drought restrictions are in place. Customers choosing to irrigate outdoors must follow the twice-a-week watering schedule.

Most of the water used in Round Rock happens during the summer for outdoor use. The easiest way to reduce your water usage is to only water your yard when needed. You can also replace your traditional irrigation controller with a weather-based controller that changes the watering schedule based on weather data. Or install a water flow sensor on your property to alert you of continuous water flow.

Water conservation program information, such as rebate applications, educational videos, watering schedules, and more can be found on the City's conservation pages, at roundrocktexas.gov/conservation.

You can see your daily and hourly water use online at our customer water portal RTXwater.com.

2023 Drinking Water Quality Results

The following table lists the regulated and monitored chemical constituents found in our drinking water. The EPA requires water systems to test for up to 97 federally regulated primary constituents.

Inorganic Constituents									
Year	Constituent	High	Low	Average	MCL	MCLG	Units	Violation	Likely Source of Contamination
2023	Barium	0.0324	0.0324	0.0324	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposit
2023	Cyanide	60	<10	35	200	200	ppb	N	Discharge from plastic, fertilizer, and steel/metal factories
2023	Fluoride	0.29	0.23	0.26	4	4	ppm	N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
2023	Nitrate (measured as Nitrogen)	1.05	0.05	0.47	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits

Nitrate in drinking water at levels above 10 ppm is a health risk for infants of less than six months of age. High nitrate levels in drinking water can cause blue baby syndrome. Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity. If you are caring for an infant, you should seek advice from your healthcare provider.

Radioactive Constituents									
Year	Constituent	High	Low	Average	MCL	MCLG	Units	Violation	Likely Source of Contamination
2023	Combined Radium	1.5	1.5	1.5	5	0	pCi/L	N	Erosion of natural deposits

Synthetic Organic Contaminants Including Pesticides and Herbicides									
Year	Constituent	High	Low	Average	MCL	MCLG	Units	Violation	Likely Source of Contamination
2023	Atrazine	0.13	0.13	0.13	3	3	ppb	N	Runoff from herbicide used on row crops

Lead and Copper in Distribution System									
Year	Constituent	90 th Percentile	Sites Exceeding Action Level	Action Level	MCLG	Units	Violation	Likely Source of Contamination	
2023	Lead	5.05	3 of 100	15	0	ppb	N	Corrosion of household plumbing systems; Erosion of natural deposits	
2023	Copper	0.197	0 of 100	1.3	1.3	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems	

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>.

Disinfectant Residual									
Year	Constituent	High	Low	Average	MRDL	MCLG	Units	Violation	Likely Source of Contamination
2023	Chloramine	2.25	1.90	2.11	4	4	ppm	N	Water additive used to control microbes

Disinfectant By-Products									
Year	Constituent	High	Low	Max LRAA	MCL	MCLG	Units	Violation	Likely Source of Contamination
2023	Total Trihalomethanes	56.3	28.0	53.8	80	NA	ppb	N	By-product of drinking water disinfection
2023	Haloacetic Acids	11.0	7.0	10.1	60	NA	ppb	N	By-product of drinking water disinfection

Total Organic Carbon (TOC)									
Year	Constituent	High	Low	Average	MCL	MCLG	Units	Likely Source of Contamination	
2023	TOC (Raw Water)	3.44	2.94	3.24	TT	NA	ppm	Naturally occurring organic material. There is no health effect directly associated with TOC. Removal through treatment averaged 16.40%.	
2023	TOC (Treated Water)	2.97	2.52	2.74	TT	NA	ppm		

Turbidity									
Year	Constituent	High	Low	Average	MCL	MCLG	Units	Violation	Likely Source of Contamination
2023	Turbidity	0.24	0.03	0.061	0.3	NA	NTU	N	Soil runoff

Turbidity has no health effects. However, it can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms, including bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, diarrhea, and associated headaches.

Unregulated Contaminants									
Year	Constituent	High	Low	Average	MCL	MCLG	Units	Violation	Likely Source of Contamination
2023	Dibromochloromethane	29.5	1.6	20.86	None Established		ppb	N	Unregulated contaminants are those for which EPA has not established drinking water standards. The purpose of unregulated contaminant monitoring is to assist EPA in determining their occurrence in drinking water and if future regulation is warranted.
2023	Chloroform	3.8	<1.0	2.72	None Established		ppb	N	
2023	Bromoform	22.3	<1.0	13.54	None Established		ppb	N	
2023	Bromodichloromethane	11.8	1.1	9.16	None Established		ppb	N	

Coliform Bacteria						
Year	Constituent	Highest % of Positive Samples	MCL	Units	Violation	Likely Source of Contamination
2023	Total Coliform	1.80%	5% of monthly samples are positive	Presence	N	Naturally present in the environment
2023	Fecal Coliform	0	Routine or repeat sample is coliform positive, and one is also fecal positive	Presence	N	Naturally present in the environment

Total coliform bacteria are used as indicators of microbial contamination of drinking water because testing for them is easy. While not disease-causing organisms themselves, they are often found in association with other microbes that are capable of causing disease. Coliform bacteria are hardier than many disease-causing organisms; therefore, their absence from water is a good indication that the water is microbiologically safe for human consumption.

Fecal coliform bacteria and, in particular, *E. coli*, are members of the coliform bacteria group originating in the intestinal tract of warm-blooded animals and are passed into the environment through feces. The presence of fecal coliform bacteria (*E. coli*) in drinking water may indicate recent contamination of the drinking water with fecal material.

Secondary and Other Constituents Not Regulated								
Year	Constituent	High	Low	Average	Secondary Limit	Units	Violation	Likely Source of Contamination
2023	Aluminum	0.117	0.117	0.117	0.05-0.2	ppm	N	Naturally occurring element
2023	Calcium	31.8	31.8	31.8	NA	ppm	N	Naturally occurring element
2023	Chloride	73	48	60.5	300	ppm	N	Naturally occurring element
2023	pH	7.72	7.00	7.23	> 7.0	units	N	Measure of corrosivity of water
2023	Sodium	37.6	37.6	37.6	NA	ppm	N	Naturally occurring element
2023	Sulfate	40	29	34.5	300	ppm	N	Naturally occurring material
2023	Hardness	338	176	249	NA	ppm	N	Naturally occurring calcium and magnesium
2023	Total Alkalinity	233	124	144	NA	ppm	N	Naturally soluble mineral salts
2023	Total Dissolved Solids	376	310	343	1000	ppm	N	Total dissolved mineral constituents in water

Definitions

Action Level (AL) – The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.

Level 1 Assessment – A study of the water system to identify potential problems and determine (if possible) why total coliform bacteria were found.

Level 2 Assessment – A very detailed study of the water system to identify potential problems and determine (if possible) why an Escherichia coli (*E. coli*) MCL violation has occurred and/or why total coliform bacteria were found on multiple occasions.

Maximum Contaminant Level (MCL) – The highest level of a contaminant allowed in drinking water. MCLs are set as close to MCLGs as feasible using the best available treatment technology.

Maximum Contaminant Level Goal (MCLG) – The level of a contaminant in drinking water below which there is no known or expected health risk. MCLGs allow for a margin of safety.

Maximum Residual Disinfectant Level (MRDL) – The highest level of a disinfectant allowed in drinking water. There is convincing evidence that the addition of a disinfectant is necessary for the control of microbial contaminants.

Maximum Residual Disinfectant Level Goal (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.

Treatment Technique (TT) – A required process intended to reduce the level of a contaminant in drinking water.

Abbreviations

LRAA – locational running annual average

MPN – most probable number per 100 milliliters

NA – not applicable

NTU – nephelometric turbidity units (a measure of turbidity)

pCi/L – picocuries per liter (a measure of radioactivity)

ppb – parts per billion, or micrograms per liter (ug/L)

ppm – parts per million, or milligrams per liter (mg/L)

ppq – parts per quadrillion, or picograms per liter (pg/L)

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