



Annual Drinking Water Quality Report

2021

Our Drinking Water Is Regulated

The City of The Colony is pleased to share this report

with you. This report is a summary of the quality of

the water we provide our customers. The analysis

covers January 1 through December 31, 2021, and

Texas Commission on Environmental Quality (TCEQ)

We hope this information helps you become more

The sources of drinking water (both tap water and

bottled water) include rivers, lakes, streams, ponds,

over the surface of the land or through the ground,

some cases, radioactive material, and can pick up

substances resulting from the presence of animals

• Microbial contaminants, such as viruses and

treatment plants, septic systems, agricultural

bacteria, which may come from sewage

reservoirs, springs, and wells. As water travels

it dissolves naturally-occurring minerals and, in

Contaminants that may be present in source

livestock operations, and wildlife.

Source of Drinking Water

or from human activity.

water include:

knowledgeable about what's in your drinking water.

required tests and is presented in the attached pages.

was made by using the data from the most recent

U.S. Environmental Protection Agency (EPA) and

PWS ID #0610081

Frequently Asked Questions

What is this report and why do I receive it every year?

Water system providers are mandated by federal law to provide their customers with an annual consumer confidence report (annual water quality report). This report serves many functions. It allows you, the user, to make informed choices about your water; also, it allows you to know what contaminants, if any, are in your water, and allows your water provider a chance to tell you everything it takes to deliver safe drinking water to your tap.

What causes my water to occasionally have a "milky" appearance?

A "milky" look is caused when tiny air bubbles are in the water. These form when the water coming into your home or business is under pressure and gasses (air) are dissolved and trapped in the pressurized water. These bubbles will not affect the quality or the taste of your water.

Is it okay to use hot water from the tap for cooking and drinking?

You should always use cold water since hot water has a higher chance of containing potential contaminants from your household plumbing and water heaters. These contaminants can include, but are not limited to rust, copper, and lead and can dissolve in hot water faster than they can in cold water.



How much water do I use during a typical shower? Based on the age of your house and your shower

heads, anywhere from 20 to 40 gallons of water

can be used during a typical shower.

• 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 byproducts of industrial processes and petroleum production, can also come from gas stations, urban storm water runoff, and septic systems.
- Radioactive contaminants, which can be naturallyoccurring or be the result of oil and gas production and mining activities.

If present, elevated levels of lead can cause serious health

Lead and Drinking Water

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. The City of The Colony Water Utilities is responsible for providing high quality drinking water, but cannot control the variety of materials used in customer plumbing components. When your water has been sitting in the home piping 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 ***.epa.gov/safewater/lead. **All Drinking Water May Contain Contaminants**

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. In order to ensure that tap water is safe to drink, EPA prescribes

water while you are brushing your teeth can save up to 25 gallons per month. Also, take time to review your water bill on a regular basis as this can help you quickly realize if there are leaks in your system.

There are many things you can do to conserve water. Running your clothes washer and dishwasher only when

they are full can save up to 1,000 gallons a month. Watering your lawn and garden in the morning or

evening when temperatures are cooler will help minimize

evaporation. Shortening your shower by a minute or two

can save up to 150 gallons per month. Turning off the

What can I do to conserve water?



For Additional Information

For more information about this report, or for any questions relating to your drinking water, please contact Kenneth Blount, Water Production, Water Quality Technician, at (972) 624-4436.

En Español

Este informe incluye información importante sobre el agua potable. Si tiene preguntas o comentarios sobre éste informe en español, favor de llamar al tel. **(972) 625-1756** – para hablar con una persona bilingüe en español

regulations which limit the amount of certain contaminants

in water provided by public water systems. Food and

contaminants in bottled water which must provide the

about contaminants and potential health effects can be

obtained by calling the EPA's Safe Drinking Water Hotline

same protection for public health. More information

Drug Administration regulations establish limits for

Where Do We Get Our Drinking Water? The City of The Colony owns and operates five water

(1-800-426-4791)

wells that produce up to 9 Million Gallons per Day (MGD) of treated water. Four wells are on the Trinity Sands Aquifer and one well on the Paluxy Aquifer. The Colony purchases up to 6 MGD of treated surface water from Dallas Water Utilities (DWU). DWU water is supplied from seven reservoirs: Lake Lewisville, Lake Ray Roberts, Lake Ray Hubbard, Lake Tawakoni and Lake Fork.

The City purchases up to 4 MGD of treated water from

the City of Plano. This is a small area of Austin Ranch in The Colony, which lies south of State Highway 121 and east of the MKT Railroad line to the eastern city limits. Plano's water is supplied by North Texas Water Utility District (NTMWD). NTMWD water is supplied from three reservoirs: Lake Lavon, Lake Jim Chapman and Lake Texoma. The Colony owns and operates the water system within

the city limits regardless of the supplier. The water quality within the system is monitored and tested in accordance to State and Federal laws by the city's staff of state licensed water system operators. **Water Loss**

In the water loss audit submitted to the Texas Water Development Board for the time period of January –

December 2021, The Colony's system lost an estimated 9.3% of the system input volume. If you have any questions about the water loss audit, please call (972) 624-4431. PWS ID #0610081

Testing Results We routinely monitor for contaminants in your drinking water according to Federal and State laws. The test results table shows the results of our monitoring for the period of January 1 to

December 31, 2021. In the table you might find terms and abbreviations you are not familiar with. To help you better understand these terms we've provided the following definitions: mrem - millirems per year (a measure of radiation **DEFINITIONS** Maximum Contaminant Level Goal (MCLG) -

Action Level (AL) – the concentration of a contaminant which, of exceeded, triggers treatment or other requirements

Substance and unit

of measure

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

Avg. - Regulatory compliance with some MCLs is based on running annual average of monthly samples.

Symbol indicates the level found is less than the number that follows it.

Maximum Contaminant Level (MCL) - the highest

expected risk to health. ALGs allow for a margin of safety.

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.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial

2021

2021

Sodium (ppm)

Sulfate (ppm)

Total Hardness as CaCO3 (ppm)

2021

2021

2021

NA

NA

NA

Year Sampled

MCLG

[MRDLG]

MCL

[MRDL]

Amount

there is no known or expected risk to health. MCLGs allow for a margin of safety.

is necessary for control of microbial contaminants.

Maximum Residual Disinfectant Level (MRDL) the highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant

the level of a contaminant in drinking water below which

Maximum Residual Disinfectant Level Goal (MRDLG) - the level of a drinking water disinfectant below which there is no known expected risk to health.

MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants. NA - not applicable. ND - not detected.

NU – not applicable Nephelometric Turbidity Units. Parts per billion (ppb) – micrograms per liter (µg/l)

Highest Level

81.1

153

192

33.0-81.1

22.4 - 153

96-128

Erosion of natural deposits; by-product of oil field activity Naturally occurring; common industrial by-product;

by-product of oil field activity

Naturally occurring calcium

Ranae

absorbed by the body).

or one ounce in 7,800 gallons of water. Parts per million (ppm) - milligrams per liter (mg/l)

or one ounce in 7,800 gallons of water. TT – Treatment Technique is a required process intended to reduce the level of a contamination in drinking water.

Typical Source

contaminants are available from the Safe Drinking Water Hotline (1-800-426-4791). Regulated Substances **Plano Water Utility** Colony Dallas Plano The Colony Water Utility **Dallas Water Utility**

Amount

Range

Range

					Detected	Low-High	Detected	Low-High	Detected	Low-High			
Atrazine (ppb)	NA	2021	2021	3	3	NA	NA	0.13	<.120	0.3	.23	Runoff from herbicide on row crops	
Barium (ppm)	2021	2021	2021	2	2	0.067	.062071	0.029	0.024-0.033	0.038	.037038	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits	
Bata/photon emitters (pCi/L)	NA	NA	2021	0	50	NA	NA	NA	NA	Levels lower than detect level	0-0	Decay of natural and man-made deposits	
Chromium (ppb)	2021	2020	NA	100	100	NA	ND0015	1.03	<1-1.80	NA	NA	Discharge from steel and pulp mills; erosion of natural deposits	
Cyanide (ppb)	2020	2021	NA	200	200	0.0896 ppm	ND-0.0896	71.8	38.3-113.0	NA	NA	Waste from industrial chemical factories	
Di (2—ethylhexyl) phthalate (ppb)	2019	NA	2021	0	6	0.0009	0.0009	NA	NA	Levels lower than detect level	0-0	Discharge from rubber and chemical factories	
Fluoride (ppm)	2021	2021	2021	4	4	0.512	.464559	0.674	.648715	0.480	.306480	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories	
Gross Alpha (pCi/L)	2021	NA	NA	0	15	3.1	3.1	NA	NA	NA	NA	Decay of natural or man-made deposits	
Gross beta particle activity (pCi/L)	NA	2017	NA	0	50	NA	NA	5.1	4.2-6.6	NA	NA	Decay of natural or man-made deposits	
Haloacetic Acids [HAA's] (ppb)	2021	NA	NA	NA	0.060	0.020	.005047	NA	NA	NA	NA	By-product of drinking water disinfection	
Nitrate as N (ppm)	2021	2021	NA	10	10	0.572	.035824	0.526	.396666	NA	NA	Runoff from fertilizer use; leaching from septic tanks; sewage; erosion of natural deposits	
Radium (pCi/L)	NA	NA	2021	0	5	NA	NA	NA	NA	Levels lower than detect level	0-0	Erosion of natural deposits	
Simazine (ppb)	NA	2021	2020	4	4	NA	NA	0.06	<0.0611	0.08	.0708	Herbicide runoff	
Total Trihalomethanes [TTHMs] (ppb)	2021	NA	NA	NA	0.080	0.032	.011079	NA	NA	NA	NA	By-product of drinking water disinfection	
Total Organic Carbon (ppm) Year Sampled		led	Treated Water Alkalinity		NA	NA	Amount Detected	Range of Levels Detected	Highest Level Detected	Range of Levels Detected			
Drinking Water (ppm)	NA	2021	2021	% removal,	/SUVA (<2)	NA	NA	2.89	2.18-3.67	4.01	2.01-4.01	Naturally present in the environment	
Source Water (ppm)	NA	NA	2021	N	IA	NA	NA	NA NA 4.66 3.69-4.66 Naturally present in the environment		Naturally present in the environment			
Removal Ratio (%) removed	NA	NA	2021	N	IA	NA NA NA		NA	0.46%	1.9-46.0	NA		
Turbidity	Year Sampled		led	Turbidity Limits		Highest Single measurements	Lowest Monthly % of Samples Meeting Limits	Highest Single measurements	Lowest Monthly % of Samples Meeting Limits	Highest Single measurements	Lowest Monthly % of Samples Meeting Limits		
(NTU)	NA	2021	2021	0.3	(TT)	NA	NA	0.45	99%	0.39 NTU	98.80%	Soil runoff	
Secondary unregulated Substances													
Substance	stance Year Sampled Second		ary MCL	Amount Detected	Range Low—High			Highest Level Detected	Range Low—High	Typical Source			
Calcium (ppm)	2021		2021	N	IA	3.43	3.43			77.5	34.5–77.5	Abundant naturally occurring element	
Magnesium (ppm)	2021		2021	N	IA	0.831	0.831			4.43	3.40-4.43	Abundant naturally occurring element	
Hardness, Calcium/Magnesium (As CaCO3)	2021		NA	N	IA	11.9	11.9			NA	NA	Naturally occurring soluble mineral salts	
pH (pH Units)	2011		2021	6.5-	-8.5	8.6	8.5-8.7			9.12	7.56-9.12	Measure of corrosivity of water	

Total Alkalinity (As CaCO3)	2021		2021	NA	326	321-331		128	65-128	Naturally occurring so	luble mineral salts
Maximum Residual Disinfectant Level											
he Colony Water Utility											
	Year	Sampled		Average level of Quarterly Data	(Lowest result	of single sample) (Highest result of sing	le sample)	MCLG [MRDLG]	MCL [MRDL]	Typical Source
Chlorine Residual (Chloramines) (ppm)	2	2021		2.85	0	.51	4.4		[4]	[4]	In distribution system, Disinfectant is used to control microbes
Tap Water Samples: Lead and Copper											
The Color Market Colors											

331.00

5.55

331.00

87.1-104.00

NA

The Colony Water Utility												
Lead and Copper	Year Sampled	90th Percentile	Total Number of Sites	Number Sites above Action Level	MCLG	Action Level	Typical Source					
Copper (ppm)	2019	0.34	30	0	1.3	1.3	Erosion of natural deposits; leaching from wood preservatives; corrosion of household plumbing systems					
Lead (ppm)	2019	0.0012	30	0	0	0.015	Corrosion of household plumbing systems; erosion of natural deposit					