

City of Quinlan

**2023
Annual Drinking
Water Quality
Report**

City of Quinlan

**Purchased Surface Water System
TX 1160007**



2022 Consumer Confidence Report for Public Water System CITY OF QUINLAN

This is your water quality report for January 1 to December 31, 2023

For more information regarding this report contact:

CITY OF QUINLAN provides surface water from Cash SUD TX 1160018 located in Quinlan, TX and from Combined Consumers WSC, TX 1160052

Name Tyler Davis
Phone 903-356-3306 Ext. 1006

Phone : 903 356-3306 ext. 1006 Este reporte incluye información importante sobre el agua para tomar. Para asistencia en español, favor de llamar al telefono (903)356-3306 ext. 1006.

Definitions and Abbreviations

Definitions and Abbreviations	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
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	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
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
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 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

CITY OF QUINLAN purchases water from CASH SUD. CASH SUD provides purchase surface water from **Lake Tawakoni, which supplies Cumby, Lone Oak, and Cash areas south of Interstate 30.** CASH SUD also has a second source of water they purchase from North Texas Municipal Water District (NTMWD) which treats the raw water from Lake Lavon, and services< this water supplies the Southeast Caddo Mills, Quinlan, and Union Valley areas south of 30. City of Quinlan also purchases water from Combined Consumer WSC which is obtained from Lake Tawakoni.

No Source Water Assessment for your drinking water source(s) has been conducted by the TCEQ for your water system. The report describes the susceptibility and the types of constituents that may come into contact with your drinking water source based on human activities and natural conditions. The information in this assessment allows us to focus our source water protection strategies.

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.

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	09/30/2021	1.3	1.3	0.17	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.
Lead	09/30/2021	0	15	2	0	ppb	N	Corrosion of household plumbing systems; Erosion of natural deposits.

Disinfection By-Products	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Haloacetic Acids (HAA5)	2023	20	14.8 - 26.8	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	27.6 - 39	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
Nitrate [measured as Nitrogen]	2023	0.468	0.466 - 0.468	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Nitrite [measured as Nitrogen]	06/10/2021	0.145	0.136 - 0.145	1	1	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.

Disinfectant Residual

Disinfectant Residual	Year	Average Level	Range of Levels Detected	MRDL	MRDLG	Unit of Measure	Violation (Y/N)	Source in Drinking Water
Chloramine	2023	1.725	0.14 - 3.56	4	4	ppm	N	Water additive used to control microbes.

Cash Special Utility District PWS ID 1160018 Information:

Source Water Assessment: 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 detections 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 Clay Hodges, General Manager, at (903) 883-2695.

INORGANIC CONTAMINANTS								
CONTAMINANT (UNIT OF MEASURE)	YEAR	CASH SUD		NTMWD		MCL	MCLG	SOURCE OF CONTAMINANT
		HIGHEST	RANGE	HIGHEST	RANGE			
Arsenic (ppb)	2023	ND	N/A	ND	N/A	0.01	0	Erosion of natural deposits; runoff from orchards; runoff from glass & electronic production wastes
Barium (ppm)	2023	0.063 ¹	N/A	0.048	0.041-0.048	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Bromate (ppb)	2023	N/A	N/A	ND	N/A	5	10	By-product of drinking water ozonation
Chromium (ppb)	2023	ND	N/A	ND	N/A	0.1	0.1	Discharge from steel and pulp mills; erosion of natural deposits
Cyanide (ppb)	2023	0.0275 ¹	N/A	199	28—199	200	200	Discharge from steel/metal factories; Discharge from plastics and fertilizer factories
Fluoride (ppm)	2023	0.231 ¹	N/A	0.968	0.537-0.968	4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Nitrate (measured as Nitrogen) (ppm)	2023	0.216 ¹	N/A	0.790	0.067-0.790	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Beta/photon emitters (pCi/L)	2023	N/A	N/A	4.7	4.7-4.7	50	0	Decay of natural & man-made deposits
Radium (pCi/L)	2023	<1.0	N/A	ND	N/A	5	5	Erosion of natural deposits

SYNTHETIC ORGANIC CONTAMINANTS								
CONTAMINANT (UNIT OF MEASURE)	YEAR	CASH SUD		NTMWD		MCL	MCLG	SOURCE OF CONTAMINANT
		HIGHEST	RANGE	HIGHEST	RANGE			
Atrazine (ppb)	2023	0.2 ¹	N/A	0.2	0.1 -0.2	3	3	Runoff from herbicide used on row crops
Di(2-ethylhexyl) phthalate (ppb)	2023	ND ¹	N/A	ND	N/A	6	6	Discharge from rubber & chemical factories
Simazine (ppb)	2023	ND ¹	N/A	0.12	0.06-0.12	4	4	Runoff from herbicide used on row crops

LEAD & COPPER					
CONTAMINANT (UNIT OF MEASURE)	YEAR	CASH SUD		AL	SOURCE OF CONTAMINANT
		90th Percentile	Sites Above AL		
Lead (ppm)	2021	0.00204	0	0.015	Corrosion of household plumbing systems; erosion of natural deposits
Copper (ppm)	2021	0.321	0	1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives

MAXIMUM RESIDUAL DISINFECTANT LEVEL								
CONTAMINANT (UNIT OF MEASURE)	YEAR	CASH SUD		NTMWD		MRDL	MRDLG	SOURCE OF CONTAMINANT
		HIGHEST	RANGE	HIGHEST	RANGE			
Chlorine Residual (ppm)	2023	4.19	2.67 – 4.19	N/A	N/A	4.0	< 4.0	Disinfectant used to control microbes
Chlorine Dioxide (ppm)	2022	ND	N/A	0.59	0.0-0.59	0.8	0.8	Disinfectant
Chlorine (ppm)	2022	ND	N/A	0.88	0.0-0.88	1.0	N/A	Disinfectant

TURBIDITY							
CONTAMINANT (UNIT OF MEASURE)	YEAR	HIGHEST SINGLE MEASUREMENT		LOWEST MONTHLY % OF SAMPLES MEETING LIMIT		TURBIDITY LIMITS	SOURCE OF CONTAMINANT
		CASH SUD	NTMWD	CASH SUD	NTMWD		
Turbidity (NTU)	2023	0.7	0.73	99.9%	98.0%	1.0	Soil Runoff

TOTAL ORGANIC CARBON								
CONTAMINANT (UNIT OF MEASURE)	YEAR	CASH SUD		NTMWD		MCL	MCLG	SOURCE OF CONTAMINANT
		HIGHEST	RANGE	HIGHEST	RANGE			
Source Water	2023	7.95	5.43 - 7.95	**	N/A	N/A	N/A	Naturally present in the environment
Drinking Water	2023	5.5	3.27 - 5.5	**	N/A	N/A	N/A	
Removal Ratio*	2023	1.6	0.69 - 1.6	**	N/A	N/A	N/A	N/A

* Removal ratio is the percent of TOC removed by the treatment process divided by the percent of TOC required by TCEQ to be removed. NOTE: Total organic carbon (TOC) has no health effects. The disinfectant can combine with TOC to form disinfection byproducts. Byproducts of disinfection include trihalomethanes (THM) and haloacetic acids (HAA), which are reported elsewhere in this report.

**The percentage of Total Organic Carbon (TOC) removal was measured each month and the system met all TOC removal requirements set.

MICROBIOLOGICAL CONTAMINANTS						
YEAR	CONTAMINANT (UNIT OF MEASURE)	LEVEL DETECTED		MCL	MCLG	SOURCE OF CONTAMINANT
		CASH SUD				
2023	Total Coliform Bacteria (# positive monthly samples)	0		1 POSITIVE SAMPLE/ MONTH	0	Naturally present in the environment

DISINFECTION BYPRODUCTS								
CONTAMINANT (UNIT OF MEASURE)	YEAR	CASH SUD		NTMWD		MCL	MCLG	SOURCE OF CONTAMINANT
		HIGHEST	RANGE	HIGHEST	RANGE			
Total Haloacetic Acids (ppb)	2023	27.0	9.9 - 27	N/A	N/A	60	N/A	Byproduct of drinking water disinfection
Total Trihalomethanes (ppb)	2023	52.0	21.6 - 52	N/A	N/A	80	N/A	

UNREGULATED CONTAMINANTS								
CONTAMINANT (UNIT OF MEASURE)	YEAR	CASH SUD		NTMWD		MCL	MCLG	SOURCE OF CONTAMINANT
		HIGHEST	RANGE	HIGHEST	RANGE			
Bromodichloromethane (ppb)	2023	13.8	7.04 - 13.8	N/A	N/A	N/A	N/A	Byproduct of drinking water disinfection
Bromoform (ppb)	2023	<1.00	ND - <1.00	N/A	N/A	N/A	N/A	
Chloroform (ppb)	2023	34.3	12.1 - 34.3	N/A	N/A	N/A	N/A	
Dibromochloromethane (ppb)	2023	3.89	2.39 - 3.89	N/A	N/A	N/A	N/A	

NOTE: Bromoform, chloroform, dichlorobromomethane, and dibromochloromethane are disinfection by-products. There is no MCL for these chemicals at the entry point to distribution.

<i>SECONDARY AND OTHER CONSTITUENTS NOT REGULATED (No associated adverse health effects)</i>							
CONTAMINANT (UNIT OF MEASURE)	YEAR	CASH SUD		NTMWD		SECONDARY LIMIT	SOURCE OF CONTAMINANT
		HIGHEST	RANGE	HIGHEST	RANGE		
Calcium (ppm)	2023	24.7 ¹	N/A	69.8	26.5-69.8	N/A	Abundant naturally occurring element
Chloride (ppm)	2023	48.8 ¹	N/A	107	30-107	N/A	Abundant naturally occurring element; used in water purification; byproduct of oil field activity.
Magnesium (ppm)	2023	3.0 ¹	N/A	9.77	4.90-9.77	N/A	Abundant naturally occurring element.
Manganese (ppm)	2023	0.0077 ¹	N/A	0.158	.0068-.158	N/A	Abundant naturally occurring element.
Nickel (ppm)	2023	0.0052 ¹	N/A	0.0048	.0047-.0048	N/A	Erosion of natural deposits
pH (units)	2023	8.72	7.35 - 8.72	9.17	6.39-9.17	6.5 - 8.5	Measure of corrosivity of water
Potassium (ppm)	2023	4.47 ¹	N/A	N/A	N/A	N/A	Runoff/leaching from natural deposits
Sodium (ppm)	2023	31.0 ¹	N/A	95.4	26.5-95.4	N/A	Erosion of natural deposits; byproduct of oil field activity
Specific Conductance (micromhos) (µS/cm)	2023	316 ¹	N/A	N/A	N/A	1600	Substances that form ions when in water; seawater influence
Sulfate (ppm)	2023	13.4 ¹	N/A	171	76.8-171	250	Naturally occurring; common industrial byproduct; byproduct of oil field activity.
Total Alkalinity as CaCO ₃ (ppm)	2023	118	63 - 118	139	51-139	N/A	Naturally occurring soluble mineral salts.
Total Dissolved Solids (ppm)	2023	160 ¹	N/A	492	263-492	1000	Total dissolved mineral constituents in water.
Total Hardness as CaCO ₃ (ppm)	2023	74.1 ¹	N/A	312	82-312	N/A	Naturally occurring calcium

1 Result is a single sample

The state allows us to monitor for some contaminants less than once per year because the concentration on of these contaminants do not change frequently. Some of our data, though accurate, is more than one year old.

Combined Consumers:

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

Lead and Copper	Date Sampled	MCLG	Action Level	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	2021	1.3	1.3	0.208	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.
Lead	2021	0	15	2.72	0	ppb	N	Corrosion of household plumbing systems; Erosion of natural deposits.

Turbidity Turbidity is a measurement of the cloudiness of the water caused by suspended particles.

	Limit (Treatment Technique)	Level Detected	Violation	Likely Source of Contamination
Highest single measurement	1 NTU	0.17 NTU	N	Soil runoff.
Lowest monthly % meeting limit	0.3 NTU	100 %	N	Soil runoff.

Regulated Contaminants

Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Barium	2023	0.035	0.035-0.035	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Cyanide	2023	148	148-148	200	200	ppm	N	Discharge from plastic and fertilizer factories. Discharge from steel/metal factories.
Fluoride	2023	0.1	0.122-0.122	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	0.285	0.285-0.285	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Nitrate measured as Nitrogen]	02/07/2022	0.0113	0.0113-0.0113	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.

Total Organic Carbon The percentage of Total Organic Carbon (TOC) removal was measured each month and the system met all TOC removal requirements set, unless a TOC violation is noted in the violations section.

Disinfectant	Year	Average Level	Range of Levels Detected	MRDL	MRDLG	Unit of Measure	Violation	Likely Source of Contamination
CL@Gas Chlorine	2023	2.89	.5 – 5.0	4	4	ppm	N	Water additives used to control microbes.

<i>Disinfectants and Disinfection By-Products</i>	<i>Collection Date</i>	<i>Highest Level Detected</i>	<i>Range of Levels Detected</i>	<i>MCLG</i>	<i>MCL</i>	<i>Units</i>	<i>Violation</i>	<i>Likely Source of Contamination</i>
Haloacetic Acids (HAA5)*	2023	32	2.46-41.7	No goal for the total	60	ppb	N	By-product of drinking water disinfection.
Total Trihalomethanes (TTHM)	2023	26	18.8-36	No goal for the total	80	ppb	N	By-product of drinking water disinfection.

Radioactive Contaminants

	<i>Year</i>	<i>Highest Level Detected</i>	<i>Range of Levels Detected</i>	<i>MCLG</i>	<i>MCL</i>	<i>Unit of Measure</i>	<i>Violation</i>	<i>Likely Source of Contamination</i>
Combined Radium 226/228	02/07/2022	1.5	1.5 – 1.5	0	5	pCi/L	N	Erosion of natural deposits

Coliform Bacteria

<i>Maximum Contaminant Level</i>	<i>Total Coliform Maximum Contaminant Level</i>	<i>Highest No. of Positive</i>	<i>Fecal Coliform or E. Coli Maximum Contaminant Level</i>	<i>Total no. of Positive E. Coli or Fecal Coliform Samples</i>	<i>Violation</i>	<i>Likely Source of Contamination</i>
0	1 positive monthly sample	1	A combination of total coliform and E. coli positive samples in one month	0	N	Naturally present in the environment.

- Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially harmful, waterborne pathogens may be present or that a potential pathway exists through which contamination may enter the drinking water distribution system. We found coliforms indicating the need to look for potential problems in water treatment or distribution. When this occurs, we are required to conduct assessment(s) to identify problems and to correct any problems that were found during these assessments.

<i>Synthetic organic contaminants including pesticides and herbicides</i>	<i>Collection Date</i>	<i>Highest Level Detected</i>	<i>Range of Levels Detected</i>	<i>MCLG</i>	<i>MCL</i>	<i>Units</i>	<i>Violation</i>	<i>Likely Source of Contamination</i>
Atrazine	2023	0.2 UG/L	0.2 - 0.2	3	3	ppb	N	Runoff from herbicide used on row crops.
Simazine	2023	0.1	0.01 – 0.1	4	4	ppb	N	Herbicide runoff.



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

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.

Action Level: The concentration of a contaminate 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.

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

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:

na: not applicable.

NTU nephelometric turbidity units (a measure of turbidity)

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

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 picograms per liter (pg/L)

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