

City of Quinlan

**2022
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, 2022

For more information regarding this report contact:

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

Name Tyler Davis

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Definitions and Abbreviations

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|--|--|
| 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 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) |
| 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.

| 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. |

2022 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) | 2022 | 13 | 3.3 - 21.7 | 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) | 2022 | 37 | 18.8 - 50.3 | No goal for the total | 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

| Inorganic Contaminants | Collection Date | Highest Level Detected | Range of Individual Samples | MCLG | MCL | Units | Violation | Likely Source of Contamination |
|---------------------------------------|-----------------|------------------------|-----------------------------|------|-----|-------|-----------|--|
| Nitrate [measured as Nitrogen] | 2022 | 1 | 0.69 - 0.883 | 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 | 2022 | 2.03 | 0.31-3.98 | 4 | 4 | ppm | N | Water additive used to control microbes. |

Violations: The Lead and Copper Rule protects public health by minimizing lead and copper levels in drinking water, primarily by reducing water corrosivity. Lead and copper enter drinking water mainly from corrosion of lead and copper containing plumbing materials.

| Violation Type | Violation Begin | Violation End | Violation Explanation |
|----------------------------|-----------------|---------------|---|
| LEAD CONSUMER NOTICE (LCR) | 01/01/2022 | 01/03/2022 | We failed to provide the results of lead tap water monitoring to the consumers at the location water was tested. These were supposed to be provided no later than 30 days after learning the results. |

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) | 2022 | ND | N/A | ND | N/A | 0.01 | 0 | Erosion of natural deposits; runoff from orchards; runoff from glass & electronic production wastes |
| Barium (ppm) | 2022 | 0.057 ¹ | N/A | 0.061 | 0.060-0.061 | 2 | 2 | Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits |
| Bromate (ppb) | 2022 | N/A | N/A | 4.9 | 4.9-4.9 | 5 | 10 | By-product of drinking water ozonation |
| Chromium (ppb) | 2022 | .0011 ¹ | N/A | ND | N/A | 0.1 | 0.1 | Discharge from steel and pulp mills; erosion of natural deposits |
| Cyanide (ppb) | 2022 | ND | N/A | ND | N/A | 100 | 100 | Discharge from steel/metal factories; Discharge from plastics and fertilizer factories |
| Fluoride (ppm) | 2022 | 0.18 ¹ | N/A | 0.688 | 0.278-0.688 | 4 | 4 | Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories |
| Nitrate (measured as Nitrogen) (ppm) | 2022 | 0.58 | 0.292-0.58 | 0.439 | 0.158-0.439 | 10 | 10 | Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits |
| Beta/photon emitters (pCi/L) | 2022 | N/A | N/A | 4.7 | 4.7-4.7 | 50 | 0 | Decay of natural & man-made deposits |

| ORGANIC CONTAMINANTS | | | | | | | | |
|----------------------------------|------|------------------|-------|---------|-----------|-----|------|--|
| CONTAMINANT (UNIT OF MEASURE) | YEAR | CASH SUD | | NTMWD | | MCL | MCLG | SOURCE OF CONTAMINANT |
| | | HIGHEST | RANGE | HIGHEST | RANGE | | | |
| Atrazine (ppb) | 2022 | 0.3 ¹ | N/A | 0.12 | 0.10-0.12 | 3 | 3 | Runoff from herbicide used on row crops |
| Di(2-ethylhexyl) phthalate (ppb) | 2022 | ND ¹ | N/A | ND | N/A | 6 | 6 | Discharge from rubber & chemical factories |
| Simazine (ppb) | 2022 | ND ¹ | N/A | ND | N/A | 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) | 2022 | 4.0 | 0.7 – 4.0 | N/A | N/A | 4.0 | < 4.0 | Disinfectant used to control microbes |
| Chlorine Dioxide (ppm) | 2022 | ND | N/A | 0.27 | 0.0-0.27 | 0.8 | 0.8 | Disinfectant |
| Chlorine (ppm) | 2022 | ND | N/A | 0.72 | 0.0-0.72 | 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) | 2022 | 0.25 | 0.4 | 100% | 99.50% | 0.3 | Soil Runoff |

| TOTAL ORGANIC CARBON | | | | | | | | |
|----------------------------------|------|----------|-------------|---------|-------|-----|------|--------------------------------------|
| CONTAMINANT (UNIT OF MEASURE) | YEAR | CASH SUD | | NTMWD | | MCL | MCLG | SOURCE OF CONTAMINANT |
| | | HIGHEST | RANGE | HIGHEST | RANGE | | | |
| Source Water | 2022 | 6.01 | 4.44 - 6.01 | ** | N/A | N/A | N/A | Naturally present in the environment |
| Drinking Water | 2022 | 3.86 | 2.19 - 3.86 | ** | N/A | N/A | N/A | |
| Removal Ratio* | 2022 | 1.55 | 0.79 - 1.55 | ** | 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 | | | | |
| 2022 | 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) | 2022 | 20.9 | 12.5 - 20.9 | N/A | N/A | 60 | N/A | Byproduct of drinking water disinfection |
| Total Trihalomethanes (ppb) | 2022 | 35.2 | 23.2 - 35.2 | N/A | N/A | 80 | N/A | |

| INORGANIC CONTAMINANTS | | | | | | | | |
|----------------------------------|------|----------|-------------|---------|-------|-----|------|--|
| CONTAMINANT (UNIT OF MEASURE) | YEAR | CASH SUD | | NTMWD | | MCL | MCLG | SOURCE OF CONTAMINANT |
| | | HIGHEST | RANGE | HIGHEST | RANGE | | | |
| Bromodichloromethane (ppb) | 2022 | 10.9 | 7.64 - 10.9 | N/A | N/A | N/A | N/A | Byproduct of drinking water disinfection |
| Bromoform (ppb) | 2022 | <1.00 | ND - <1.00 | N/A | N/A | N/A | N/A | |
| Chloroform (ppb) | 2022 | 22.2 | 12.7 - 22.2 | N/A | N/A | N/A | N/A | |
| Dibromochloromethane (ppb) | 2022 | 3.81 | 2.54 - 3.81 | 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.

INORGANIC CONTAMINANTS

| CONTAMINANT (UNIT OF MEASURE) | YEAR | CASH SUD | | NTMWD | | SECONDARY LIMIT | SOURCE OF CONTAMINANT |
|---|------|---------------------|-------------|---------|-------------|--------------------|--|
| | | HIGHEST | RANGE | HIGHEST | RANGE | | |
| Calcium (ppm) | 2022 | 21.7 ¹ | N/A | 69.8 | 32.2-69.8 | N/A | Abundant naturally occurring element |
| Chloride (ppm) | 2022 | 45.8 ¹ | N/A | 107 | 30-107 | N/A | Abundant naturally occurring element; used in water purification; byproduct of oil field activity. |
| Magnesium (ppm) | 2022 | 2.95 ¹ | N/A | 9.70 | 9.61-9.70 | N/A | Abundant naturally occurring element. |
| Manganese (ppm) | 2022 | 0.013 ¹ | N/A | 0.159 | 0.004-0.159 | N/A | Abundant naturally occurring element. |
| Nickel (ppm) | 2022 | 0.0033 ¹ | N/A | 0.0098 | .0069-.0098 | N/A | Erosion of natural deposits |
| pH (units) | 2022 | 8.15 | 7.81 - 8.15 | 9.2 | 7.0-9.2 | 6.5 - 8.5 | Measure of corrosivity of water |
| Potassium (ppm) | 2022 | 4.25 ¹ | N/A | N/A | N/A | N/A | Runoff/leaching from natural deposits |
| Sodium (ppm) | 2022 | 30.3 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) | 2020 | 307 ¹ | N/A | N/A | N/A | 1600 | Substances that form ions when in water; seawater influence |
| Sulfate (ppm) | 2022 | 13.8 ¹ | N/A | 171 | 84.2-171 | 250 | Naturally occurring; common industrial byproduct; byproduct of oil field activity. |
| Total Alkalinity as CaCO ₃ (ppm) | 2022 | 120 | 52.9 - 120 | 139 | 69-139 | N/A | Naturally occurring soluble mineral salts. |
| Total Dissolved Solids (ppm) | 2022 | 168 ¹ | N/A | 492 | 269-492 | 1000 | Total dissolved mineral constituents in water. |
| Total Hardness as CaCO ₃ (ppm) | 2022 | 66.2 ¹ | N/A | 194 | 90-194 | 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 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 | 0.9 NTU | N | Soil runoff. |
| Lowest monthly % meeting limit | 0.3 NTU | 100 % | N | Soil runoff. |

Regulated Contaminants

| Disinfectants and Disinfection By-Products | Collection Date | Highest Level Detected | Range of Levels Detected | MCLG | MCL | Units | Violation | Likely Source of Contamination |
|--|-----------------|------------------------|--------------------------|-----------------------|-----|-------|-----------|--|
| Haloacetic Acids (HAA5)* | 2022 | 28 | 14.3-32.3 | No goal for the total | 60 | ppb | N | By-product of drinking water disinfection. |
| Total Trihalomethanes (TTHM) | 2022 | 21 | 15.2-25.4 | 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 |
| Barium | 2022 | 0.062 | 0.062 - 0.062 | 2 | 2 | ppm | N | Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits. |
| Cyanide | 2022 | 61.4 | 61.4 - 61.4 | 200 | 200 | ppm | N | Discharge from plastic and fertilizer factories. Discharge from steel/metal factories. |
| Fluoride | 2022 | 0.1 | 0.116-0.116 | 4 | 4.0 | ppm | N | Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and |
| Nitrate measured as Nitrogen] | 2022 | 0.21 | 0.21 - 0.21 | 10 | 10 | ppm | N | Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits. |
| Nitrate measured as Nitrogen] | 2022 | 0.113 | 0.113 - 0.113 | 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 | 2022 | 2.81 | 1.0 – 5.0 | 4 | 4 | ppm | N | Water additives used to control microbes. |

Radioactive Contaminants

| Radioactive Contaminants | Collection Date | Highest Level Detected | Range of Individual Samples | MCLG | MCL | Units | Violation | Likely Source of Contamination |
|--------------------------|-----------------|------------------------|-----------------------------|------|-----|-------|-----------|--------------------------------|
| Combined Radium 226/228 | 2022 | 1.5 | 1.5 – 1.5 | 0 | 5 | pCi/L | N | Erosion of natural deposits |

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

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.

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 asbestos)

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 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