

ANNUNCIATION HEIGHTS 2020 Drinking Water Quality Report

Covering Data For Calendar Year 2019

Public Water System ID: CO0235185

Esta es información importante. Si no la pueden leer, necesitan que alguien se la traduzca.

We are pleased to present to you this year's water quality report. Our constant goal is to provide you with a safe and dependable supply of drinking water. Please contact HOPE DIBBLE at 970-494-1610 with any questions or for public participation opportunities that may affect water quality.

General Information

All 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 the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline (1-800-426-4791) or by visiting epa.gov/ground-water-and-drinking-water.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised 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 of infections. These people should seek advice about drinking water from their health care providers. For more information about contaminants and potential health effects, or to receive a copy of the U.S. Environmental Protection Agency (EPA) and the U.S. Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and microbiological contaminants call the EPA Safe Drinking Water Hotline at (1-800-426-4791).

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. Contaminants that may be present in source water include:

- Microbial contaminants:** viruses and bacteria that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- Inorganic contaminants:** 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:** may come from a variety of sources, such as agriculture, urban storm water runoff, and residential uses.
- Radioactive contaminants:** can be naturally occurring or be the result of oil and gas production and mining activities.
- Organic chemical contaminants:** including synthetic and volatile organic chemicals, which are byproducts of industrial processes and petroleum production, and also may come from gas stations, urban storm water runoff, and septic systems.

In order to ensure that tap water is safe to drink, the Colorado Department of Public Health and Environment prescribes regulations limiting the amount of certain contaminants in water provided by public water systems. The Food and Drug Administration regulations establish limits for contaminants in bottled water that must provide the same protection for public health.

Lead in Drinking Water

If present, elevated levels of lead can cause serious health problems (especially for pregnant women and young children). It is possible that lead levels at your home may be higher than other homes in the community as a result of materials used in your home's plumbing. If you are concerned about lead in your water, you may wish to have your water tested. 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. Additional information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline (1-800-426-4791) or at epa.gov/safewater/lead.

Source Water Assessment and Protection (SWAP)

The Colorado Department of Public Health and Environment may have provided us with a Source Water Assessment Report for our water supply. For general information or to obtain a copy of the report please visit wqcdcompliance.com/ccr. The report is located under "Guidance: Source Water Assessment Reports". Search the table using 235185, ANNUNCIATION HEIGHTS, or by contacting HOPE DIBBLE at 970-494-1610. The Source Water Assessment Report provides a screening-level evaluation of potential contamination that *could* occur. It *does not* mean that the contamination *has or will* occur. We can use this information to evaluate the need to improve our current water treatment capabilities and prepare for future contamination threats. This can help us ensure that quality finished water is delivered to your homes. In addition, the source water assessment results provide a starting point for developing a source water protection plan. Potential sources of contamination in our source water area are listed on the next page.

Please contact us to learn more about what you can do to help protect your drinking water sources, any questions about the Drinking Water Quality Report, to learn more about our system, or to attend scheduled public meetings. We want you, our valued customers, to be informed about the services we provide and the quality water we deliver to you every day.

Our Water Sources

<u>Sources (Water Type - Source Type)</u>	<u>Potential Source(s) of Contamination</u>
WELL NO 1 (Groundwater-Well) WELL NO 4 MIKES WELL (Groundwater-Well)	There is no SWAP report, please contact HOPE DIBBLE at 970-494-1610 with questions regarding potential sources of contamination.

Terms and Abbreviations

- **Maximum Contaminant Level (MCL)** – The highest level of a contaminant allowed in drinking water.
- **Treatment Technique (TT)** – A required process intended to reduce the level of a contaminant in drinking water.
- **Health-Based** – A violation of either a MCL or TT.
- **Non-Health-Based** – A violation that is not a MCL or TT.
- **Action Level (AL)** – The concentration of a contaminant which, if exceeded, triggers treatment and other regulatory requirements.
- **Maximum Residual Disinfectant Level (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 Contaminant Level Goal (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 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.
- **Violation (No Abbreviation)** – Failure to meet a Colorado Primary Drinking Water Regulation.
- **Formal Enforcement Action (No Abbreviation)** – Escalated action taken by the State (due to the risk to public health, or number or severity of violations) to bring a non-compliant water system back into compliance.
- **Variance and Exemptions (V/E)** – Department permission not to meet a MCL or treatment technique under certain conditions.
- **Gross Alpha (No Abbreviation)** – Gross alpha particle activity compliance value. It includes radium-226, but excludes radon 222, and uranium.
- **Picocuries per liter (pCi/L)** – Measure of the radioactivity in water.
- **Nephelometric Turbidity Unit (NTU)** – Measure of the clarity or cloudiness of water. Turbidity in excess of 5 NTU is just noticeable to the typical person.
- **Compliance Value (No Abbreviation)** – Single or calculated value used to determine if regulatory contaminant level (e.g. MCL) is met. Examples of calculated values are the 90th Percentile, Running Annual Average (RAA) and Locational Running Annual Average (LRAA).
- **Average (x-bar)** – Typical value.
- **Range (R)** – Lowest value to the highest value.
- **Sample Size (n)** – Number or count of values (i.e. number of water samples collected).
- **Parts per million = Milligrams per liter (ppm = mg/L)** – One part per million corresponds to one minute in two years or a single penny in \$10,000.
- **Parts per billion = Micrograms per liter (ppb = ug/L)** – One part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.
- **Not Applicable (N/A)** – Does not apply or not available.
- **Level 1 Assessment** – 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 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.

Detected Contaminants

ANNUNCIATION HEIGHTS routinely monitors for contaminants in your drinking water according to Federal and State laws. The following table(s) show all detections found in the period of January 1 to December 31, 2019 unless otherwise noted. The State of Colorado requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants

are not expected to vary significantly from year to year, or the system is not considered vulnerable to this type of contamination. Therefore, some of our data, though representative, may be more than one year old. Violations and Formal Enforcement Actions, if any, are reported in the next section of this report.

Note: Only detected contaminants sampled within the last 5 years appear in this report. If no tables appear in this section then no contaminants were detected in the last round of monitoring.

Disinfectants Sampled in the Distribution System						
TT Requirement: At least 95% of samples per period (month or quarter) must be at least 0.2 ppm QR						
If sample size is less than 40 no more than 1 sample is below 0.2 ppm						
Typical Sources: Water additive used to control microbes						
Disinfectant Name	Time Period	Results	Number of Samples Below Level	Sample Size	TT Violation	MRDL
Chlorine	December, 2019	Lowest period percentage of samples meeting TT requirement: 100%	0	1	No	4.0 ppm

Lead and Copper Sampled in the Distribution System								
Contaminant Name	Time Period	90 th Percentile	Sample Size	Unit of Measure	90 th Percentile AL	Sample Sites Above AL	90 th Percentile AL Exceedance	Typical Sources
Copper	04/23/2019 to 04/25/2019	0.47	10	ppm	1.3	0	No	Corrosion of household plumbing systems; Erosion of natural deposits
Lead	12/04/2019 to 12/04/2019	4	10	ppb	15	1	No	Corrosion of household plumbing systems; Erosion of natural deposits
Copper	12/04/2019 to 12/04/2019	0.44	10	ppm	1.3	1	No	Corrosion of household plumbing systems; Erosion of natural deposits
Lead	04/23/2019 to 04/25/2019	32	10	ppb	15	2	Yes	Corrosion of household plumbing systems; Erosion of natural deposits

Disinfection Byproducts Sampled in the Distribution System									
Name	Year	Average	Range Low – High	Sample Size	Unit of Measure	MCL	MCLG	MCL Violation	Typical Sources
Total Haloacetic Acids (HAA5)	2017	39.5	39.5 to 39.5	1	ppb	60	N/A	No	Byproduct of drinking water disinfection

Disinfection Byproducts Sampled in the Distribution System									
Name	Year	Average	Range Low – High	Sample Size	Unit of Measure	MCL	MCLG	MCL Violation	Typical Sources
Total Trihalomethanes (TTHM)	2017	28.5	28.5 to 28.5	1	ppb	80	N/A	No	Byproduct of drinking water disinfection

Radionuclides Sampled at the Entry Point to the Distribution System									
Contaminant Name	Year	Average	Range Low – High	Sample Size	Unit of Measure	MCL	MCLG	MCL Violation	Typical Sources
Gross Alpha	2017	3.03	0.74 to 3.9	4	pCi/L	15	0	No	Erosion of natural deposits
Combined Radium	2017	1.08	0.5 to 1.6	4	pCi/L	5	0	No	Erosion of natural deposits
Combined Uranium	2017	3.5	0 to 8	4	ppb	30	0	No	Erosion of natural deposits

Inorganic Contaminants Sampled at the Entry Point to the Distribution System									
Contaminant Name	Year	Average	Range Low – High	Sample Size	Unit of Measure	MCL	MCLG	MCL Violation	Typical Sources
Barium	2018	0.07	0.07 to 0.07	1	ppm	2	2	No	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Fluoride	2017	0.67	0.14 to 1.24	4	ppm	4	4	No	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Nitrate	2019	0.3	0.3 to 0.3	1	ppm	10	10	No	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits

Secondary Contaminants**						
**Secondary standards are <u>non-enforceable</u> guidelines for contaminants that may cause cosmetic effects (such as skin, or tooth discoloration) or aesthetic effects (such as taste, odor, or color) in drinking water.						
Contaminant Name	Year	Average	Range Low – High	Sample Size	Unit of Measure	Secondary Standard
Sodium	2018	58	58 to 58	1	ppm	N/A

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Contaminant Name	Year	Average	Range Low – High	Sample Size	Unit of Measure	Secondary Standard
COPPER	2018	0.36	0.36 to 0.36	1	MG/L	
LEAD	2018	16	16 to 16	1	UG/L	

Violations, Significant Deficiencies, and Formal Enforcement Actions

Health-Based Violations

Maximum contaminant level (MCL) violations: Test results for this contaminant show that the level was too high for the time period shown. Please read the information shown below about potential health effects for vulnerable populations. This is likely the same violation that we told you about in a past notice. We are evaluating, or we already completed an evaluation, to find the best way to reduce or remove the contaminant. If the solution will take an extended period of time, we will keep you updated with quarterly notices.

Treatment technique (TT) violations: We failed to complete an action that could affect water quality. Please read the information shown below about potential health effects for vulnerable populations. This is likely the same violation that we told you about in a past notice. We were required to meet a minimum operation/treatment standard, we were required to make upgrades to our system, or we were required to evaluate our system for potential sanitary defects, and we failed to do so in the time period shown below. If the solution will take an extended period of time, we will keep you updated with quarterly notices.

Name	Description	Time Period	Health Effects	Compliance Value	TT Level or MCL
LEAD & COPPER RULE	FAILURE TO INSTALL TREATMENT FOR LEAD AND COPPER	01/01/2018 - Open		N/A	N/A

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Name	Description	Time Period	Health Effects	Compliance Value	TT Level or MCL
CROSS CONNECTION RULE	FAILURE TO MEET CROSS CONNECTION CONTROL AND/OR BACKFLOW PREVENTION REQUIREMENTS - M614	08/07/2019 - Open	We have an inadequate backflow prevention and cross-connection control program. Uncontrolled cross connections can lead to inadvertent contamination of the drinking water. This is due to one or more of the following: We have permitted an uncontrolled cross connection, AND/OR we have installed or permitted an uncontrolled cross connection, AND/OR we failed to comply with the requirements for surveying our system for cross connections, AND/OR we failed to complete the testing requirements for backflow prevention devices or methods, AND/OR we failed to notify the State Health Dept of a backflow contamination event.	N/A	N/A

Additional Violation Information

Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.

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Treatment technique (TT) violations: We failed to complete an action that could affect water quality. Please read the information shown below about potential health effects for vulnerable populations. This is likely the same violation that we told you about in a past notice. We were required to meet a minimum operation/treatment standard, we were required to make upgrades to our system, or we were required to evaluate our system for potential sanitary defects, and we failed to do so in the time period shown below. If the solution will take an extended period of time, we will keep you updated with quarterly notices.

Name	Description	Time Period	Health Effects	Compliance Value	TT Level or MCL
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Describe the steps taken to resolve the violation(s), and the anticipated resolution date:

Lead and Copper Rule: This violation was issued for failure to install treatment for Lead and Copper. On August 9, 2017, Annunciation Heights installed the corrosion control treatment (CCT) that was approved by the Department on June 16, 2017. During the first half of 2018, water samples were collected and determined to contain lead quantities above the EPA action level. It was later determined that the high lead levels were likely caused by a failure to properly operate corrosion control treatment (i.e. use and, when necessary, replace the media which was approved by the Department for corrosion control treatment). The violation was resolved on 4/27/2020 when the Department approved the Supplier's recommendation for treatment plant upgrades. To remain in compliance, the Supplier must continue to properly operate corrosion control treatment and submit sample results that demonstrate proper operation.

Cross Connection Rule: This violation was issued for an Inadequate Backflow Assembly Testing Compliance Ratio, M614, after a routine drinking water inspection performed on July 9, 2019. During the inspection, the supplier's BPCCC program identified three testable assemblies, but the supplier could not provide documentation that these assemblies were properly tested in 2018. On March 11, 2020, the supplier submitted a BPCCC program to the department inspector outlining how they will achieve compliance with the annual backflow assembly testing ratio moving forward. This BPCCC program included a Completed Annual Backflow Report for 2019 which included updated test results for the three testable assemblies identified by the department during the inspection and served to satisfy the 2018 ratio also. The inspector accepted the program and report and deemed this M614 violation as well as the related M613 violation in the next section below as resolved on 4-15-2020.

Non-Health-Based Violations

These violations do not usually mean that there was a problem with the water quality. If there had been, we would have notified you immediately. We missed collecting a sample (water quality is unknown), we reported the sample result after the due date, or we did not complete a report/notice by the required date.

Name	Description	Time Period
PUBLIC NOTICE	FAILURE TO NOTIFY THE PUBLIC/ CONSUMERS	10/01/2019 - 12/10/2019
PUBLIC NOTICE	FAILURE TO NOTIFY THE PUBLIC/ CONSUMERS	07/01/2019 - 12/10/2019
LEAD & COPPER RULE	FAILURE TO MONITOR AND/OR REPORT	07/01/2019 - 11/18/2019
LEAD & COPPER RULE	FAILURE TO MONITOR AND/OR REPORT	07/01/2019 - 12/31/2019
LEAD & COPPER RULE	FAILURE TO MONITOR AND/OR REPORT	01/01/2019 - 06/30/2019
CROSS CONNECTION RULE	FAILURE TO MEET CROSS CONNECTION CONTROL AND/OR BACKFLOW PREVENTION REQUIREMENTS - M613	08/07/2019 - Open

Non-Health-Based Violations

These violations do not usually mean that there was a problem with the water quality. If there had been, we would have notified you immediately. We missed collecting a sample (water quality is unknown), we reported the sample result after the due date, or we did not complete a report/notice by the required date.

Name	Description	Time Period
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Additional Violation Information

Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.

Describe the steps taken to resolve the violation(s), and the anticipated resolution date:

First Public Notice: We were required to distribute public notification to consumers on or before September 30, 2019 due to a required 90-day continuous post for Failure to Operate Approved Corrosion Control Treatment issued March 1, 2019. We failed to do so by that date; therefore, we received this violation. Distribution of the notice took place on December 4, 2019. The department accepted this with the submission of the certificate of delivery and the matter was resolved on 12-10-2019.

Second Public Notice: We were required to distribute public notification to consumers on or before June 30, 2019 due to required 90-day continuous post for Failure to Operate Approved Corrosion Control Treatment issued March 1, 2019. We failed to do so by that date; therefore, we received this violation. Distribution of the notice took place on December 4, 2019. The department accepted this with the submission of the certificate of delivery and the matter was resolved on 12-10-2019.

First Lead & Copper Rule: We required to submit a materials evaluation of the entire distribution system and a lead and copper sample pool that consists of sample sites at highest risk for lead and copper contamination by June 30, 2019. We submitted both documents to the state and the Department approved the documents and considers this violation resolved as of 11/18/2019.

Second & Third Lead & Copper Rule: Both violations are directly related to the Lead & Copper Rule Violation given for failure to install treatment for lead and copper under the Health-based Violations section above. There are steps in the corrosion control process. After installation of the CCT, the supplier must conduct follow-up sampling for two consecutive six-month periods including water quality parameters at the entry point and the distribution system as well as lead and copper at the entry point. We failed to perform and report some parts of the testing required during these two six-month periods: January 1, 2019 to June 30, 2019 and July 1, 2019 to December 31, 2019. We are now regularly conducting sampling required for the Department to evaluate if optimal corrosion control treatment is properly installed and being maintained adequately for optimal operation. This violation will remain open until we complete all the required testing as stated above so that the Department can make its determination as to the correctness of the installation, operation, and maintenance of the optimal corrosion control treatment. The Department will then specify final optimal water quality parameters.

Cross Connection Rule: This violation was issued for Failure to Complete an Annual Backflow Report, M613, which is related to the M614 violation for Inadequate Compliance Ratio in the section above after a routine drinking water inspection performed on July 9, 2019. As outlined above, at the time of the routine drinking water inspection, the supplier did not have a complete annual BPCCC program report. On March 11, 2020, the supplier submitted a BPCCC program to the department inspector outlining how they will achieve compliance with the annual backflow assembly testing ratio moving forward. This BPCCC program included a Completed Annual Backflow Report for 2019 which included updated test results for the three testable assemblies identified by the department during the inspection and served to satisfy both the 2018 and 2019 ratio also. The inspector accepted the program and the report and deemed this M613 violation as well as the related M614 violation in the above section as resolved on 4-15-2020.

Backflow and Cross-Connection

We have an inadequate backflow prevention and cross-connection control program. Uncontrolled cross connections can lead to inadvertent contamination of the drinking water.

We either have installed or permitted an uncontrolled cross-connection or we experienced a backflow contamination event.

