Dallas Creek Water Company's 2019 Drinking Water Quality Report For Calendar Year 2018

Public Water System ID: CO0146485

Dallas Creek Water Company is pleased to present to you this year's water quality report. Our goal is to provide you with a safe and dependable supply of exceptional drinking water!

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 http://water.epa.gov/drink/contaminants.

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 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.

Sources of drinking 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 naturallyoccurring or result from urban storm water runoff, industrial or domestic wastewater discharges, 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.

Lead in Drinking Water

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, 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. 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.

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 www.colorado.gov/cdphe/ccr. The report is located under "Guidance: Source Water Assessment Reports". Search the table using 146485, DALLAS CREEK WC. The Source Water Assessment Report provides a screening-level evaluation of potential contamination that could occur. It <a href="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 Anthony Ramsey at (970) 626-3889 to learn more about what you can do to help protect your drinking water source, with questions about the Drinking Water Quality Report, or to learn more about our water system. 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 Source

Source Name (Source Type)	Potential Sources of Contamination
Infiltration Gallery No 1 on Dallas Creek (Surface Water)	Existing/abandoned mines, septic systems, oil/gas wells, roads, forests, pasture/hay fields, and row crops

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.
- 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 Failure to meet a Colorado Primary Drinking Water Regulation.
- **Formal Enforcement Action** 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—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 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.

Violations, Significant Deficiencies, Backflow/Cross-Connection, and Formal Enforcement Actions

There were no violations or formal enforcement actions to report in 2018!

Detected Contaminants

Dallas Creek Water Company routinely monitors for contaminants in your drinking water according to Federal and State laws. The following tables show all detections found in the period of January 1 to December 31, 2018 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. Only detected contaminants sampled within the last 5 years appear in this report.

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 <u>OR</u> 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	Jan-Dec 2018	<u>Lowest period</u> 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	09/10/2018 to 09/12/2018	0.33	10	ppm	1.3	0	No	Corrosion of household plumbing systems; Erosion of natural deposits		
Lead	09/10/2018 to 09/12/2018	6.9	10	ppb	15	0	No	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)	2018	32.33	10.9 to 62	4	ppb	60	N/A	No	Byproduct of drinking water disinfection
Total Trihalome thanes (TTHM)	2018	60.32	40.6 to 81.5	4	ppb	80	N/A	No	Byproduct of drinking water disinfection

Low - High	h Size	Measure	Ratio	Violation			
1.82 0.95 to 3.03	3 12	Ratio	1.00	No	Naturally present in the environment		
Carbon Ratio in the							

Disinfectants Sampled at the Entry Point to the Distribution System (Chlorine/Chloramine Row is Optional, Chlorine Dioxide Row is Required)							
Disinfectant Name	Year	Number of Samples Above or Below Level	Sample Size	TT/MRDL Requirement	TT/MRDL Violation	Typical Sources	
Chlorine	2018	0	2154	TT = No more than 4 hours with a sample below 0.2 MG/L	No	Water additive used to control microbes	

	Summary of Turbidity Sampled at the Entry Point to the Distribution System									
Contaminant	Sample	Level Found	TT Requirement	TT	Typical					
Name	Date			Violation	Sources					
Turbidity	Date/Month: July 27th	Highest single measurement: 0.275 NTU	Maximum 1 NTU for any single measurement	No	Soil Runoff					
Turbidity	Month: Jan-Dec	Lowest monthly percentage of samples meeting TT requirement for our technology: 100 %	In any month, at least 95% of samples must be less than 0.3 NTU	No	Soil Runoff					

Inorganic Contaminants Sampled at the Entry Point to the Distribution System									
Contaminant	Year	Average	Range	Sample	Unit of	MCL	MCLG	MCL	Typical Sources
Name			Low – High	Size	Measure			Violation	
Nitrate-Nitrite	2014	0.11	0.11	1	ppm	10	10	No	Fertilizers; septics,
									sewage; erosion of
									natural deposits

Cryptosporidium and Raw Source Water E. coli						
Contaminant Name	Year	Number of Positives	Sample Size			
E. Coli	2018	5	19			