CUCHARAS SANITATION AND WATER DISTRICT 2021 Drinking Water Quality Report Covering Data For Calendar Year 2020

Public Water System ID: CO0128100

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 Shannon Shrout at 719-742-3108 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 naturallyoccurring 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 128100, CUCHARAS SANITATION AND WATER DISTRICT, or by contacting Shannon Shrout at 719-742-3108. 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>	Potential Source(s) of Contamination
CUCHARAS RIVER (Surface Water-Intake)	Existing/Abandoned Mine Sites, Row Crops, Pasture / Hay,
DODGETON CREEK (Surface Water-Intake)	Deciduous Forest, Evergreen Forest, Mixed Forest, Septic
BAKER CREEK EMERGENCY SOURCE (Surface Water-Intake)	Systems, Road Miles

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

CUCHARAS SANITATION AND WATER DISTRICT 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, 2020 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 <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	Time PeriodResultsNumber of Samples Below LevelSampleTTMRDLSizeViolation					
Chlorine	Chlorine December, 2020 Lowest period percentage of samples meeting TT requirement: 100% 0 1 No 4.0 ppm						

	Lead and Copper Sampled in the Distribution System							
Contaminant	Time	90 th	Sample	Unit of	90 th	Sample	90 th	Typical Sources
Name	Period	Percentile	Size	Measure	Percentile	Sites	Percentile	
					AL	Above	AL	
						AL	Exceedance	
Copper	09/02/2020	0.07	5	ppm	1.3	0	No	Corrosion of
	to							household plumbing
	09/02/2020							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)	2020	7.9	7.9 to 7.9	1	ррb	60	N/A	No	Byproduct of drinking water disinfection
Total Trihalome thanes (TTHM)	2020	8.3	8.3 to 8.3	1	ррb	80	N/A	No	Byproduct of drinking water disinfection

	Summary of Turbidity Sampled at the Entry Point to the Distribution System								
Contaminant Name	Sample Date	Level Found	TT Requirement	TT Violation	Typical Sources				
Turbidity	Date/Month: Sep	Highest single measurement: 0.18 NTU	Maximum 1 NTU for any single measurement	No	Soil Runoff				
Turbidity	Month: 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				

Radionuclides 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	
Gross Alpha	2017	1.55	1.5 to 1.6	2	pCi/L	15	0	No	Erosion of
									natural deposits
Combined	2017	0.9	0.5 to 1.3	2	pCi/L	5	0	No	Erosion of
Radium									natural deposits
									_

	I	norganic C	ontaminants Sar	npled at th	e Entry Poi	nt to the	Distributio	on System	
Contaminant Name	Year	Average	Range Low – High	Sample Size	Unit of Measure	MCL	MCLG	MCL Violation	Typical Sources
Antimony	2020	0.45	0 to 0.9	2	ррЬ	6	6	No	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder
Cadmium	2020	1	0 to 2	2	ррЪ	5	5	No	Corrosion of galvanized pipes; erosion of natural deposits; discharge from metal refineries; runoff from waste batteries and paints
Fluoride	2020	0.11	0 to 0.22	2	ppm	4	4	No	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories

	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
Mercury	2020	0.1	0 to 0.2	2	ррb	2	2	No	Erosion of natural deposits; discharge from refineries and factories; runoff from landfills; runoff from cropland
Selenium	2020	1	0 to 2	2	ррЬ	50	50	No	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines

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							
Sodium	2020	4.75	4.5 to 5	2	ppm	N/A	

Violations, Significant Deficiencies, and Formal Enforcement Actions

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	Name Description Time Period						
TOTAL COLIFORM	TOTAL COLIFORM FAILURE TO MONITOR AND/OR 08/01/2020 - 08/31/2020 REPORT 08/01/2020 - 08/31/2020						
CHLORINE/CHLORAMINE	FAILURE TO MONITOR AND/OR REPORT	08/01/2020 - 08/31/2020					

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you immediately. We missed collectin	g a sample (water quality is unknown), we repo	rted the sample result after the due date, or						
we	e did not complete a report/notice by the require	d date.						
Num	Description	m'are basted						
Name	Description	Time Period						
CHLORINE	CHLORINE FAILURE TO MONITOR AND/OR 07/01/2020 - 09/30/2020							
	REPORT							
	Additional Violation Information							
CSWD was issued a violation for failure	to report water sample results in August of 2020.	The District in fact did take proper samples						
with no coliform detected. There were no	with no coliform detected. There were no health effects or risks to our consumers. The District has since came into compliance. CCR							
available online at www.cuchara.org or copies available at the District office 16925 State Hwy. 12. Also posted at the District office.								