# NORTHERN DOUGLAS COUNTY WSD 2023 Drinking Water Quality Report Covering Data For Calendar Year 2022

### Public Water System ID: CO0118016

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 NIC CARLSON at 303-265-7900 with any questions or for public participation opportunities that may affect water quality. Please see the water quality data from our wholesale system(s) (either attached or included in this report) for additional information about your 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 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

NORTHERN DOUGLAS COUNTY WSD, PWS ID: CO0118016

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

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 and removing lead pipes, but cannot control the variety of materials used in plumbing components in your home. You share the responsibility for protecting yourself and your family from the lead in your home plumbing. You can take responsibility by identifying and removing lead materials within your home plumbing and taking steps to reduce your family's risk. Before drinking tap water, flush your pipes for several minutes by running your tap, taking a shower, doing laundry or a load of dishes. You can also use a filter certified by an American National Standards Institute accredited certifier to reduce lead in drinking water. If you are concerned about lead in your water and wish to have your water tested, contact NIC CARLSON at 303-265-7900. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available 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 our system name or ID, or by contacting NIC CARLSON at 303-265-7900. 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.

2023 CCR Page 1 of 4

### **Our Water Sources**

Sources (Water Type - Source Type)	Potential Source(s) of Contamination
NORTH- LONETREE FILING 13B MASTER METER	
(Surface Water-Consecutive Connection)	
SOUTH- LONETREE FILING 13B MASTER METER	
(Surface Water-Consecutive Connection)	
SISKEN AVE, COLORADO BLVD MASTER METER	
(Surface Water-Consecutive Connection)	
WHITE PELICAN WAY, GREENFINCH DR MASTER METER	
(Surface Water-Consecutive Connection)	
KNOLL DR, CHEETAH CHASE MASTER METER	
(Surface Water-Consecutive Connection)	
LONE LYNX CUL-DE-SAC MASTER METER	
(Surface Water-Consecutive Connection)	
MCCARTHER RANCH RD MASTER METER	
(Surface Water-Consecutive Connection)	
ROCK CANYON HIGH SCHOOL MASTER METER	
(Surface Water-Consecutive Connection)	Other Facilities, Commercial/Industrial/Transportation, High
ROCKY HEIGHTS MIDDLE SCHOOL MASTER METER	Intensity Residential, Low Intensity Residential, Row Crops,
(Surface Water-Consecutive Connection)	Fallow, Pasture / Hay, Evergreen Forest, Septic Systems, Road
NORTH- S COLORADO BLVD MASTER METER	Miles
(Surface Water-Consecutive Connection)	
SOUTH- S COLORADO BLVD MASTER METER	
(Surface Water-Consecutive Connection)	
NORTH- BOATWORKS DR, HOLLY ST MASTER METER	
(Surface Water-Consecutive Connection)	
SOUTH- BOATWORKS DR, HOLLY ST MASTER METER	
(Surface Water-Consecutive Connection)	
NORTH HIGHLANDS CIRCLE MASTER METER	
(Surface Water-Consecutive Connection)	
CARDER CT, SANTA FE DR MASTER METER	
(Surface Water-Consecutive Connection)	
WEST-COMMERCE CENTER CR,CARDER CT MASTER METER	
(Surface Water-Consecutive Connection)	
EAST-COMMERCE CENTER CR,CARDER CT MASTER METER	
(Surface Water-Consecutive Connection)	
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## **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 90<sup>th</sup> 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**

NORTHERN DOUGLAS COUNTY WSD 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, 2022 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   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
Chloramine	December, 2022	Lowest period percentage of samples meeting TT requirement: 100%	0	7	No	4.0 ppm

Lead and Copper Sampled in the Distribution System								
Contaminant Name	Time Period	90 <sup>th</sup> Percentile	Sample Size	Unit of Measure	90 <sup>th</sup> Percentile AL	Sample Sites Above AL	90 <sup>th</sup> Percentile AL Exceedance	Typical Sources
Copper	07/28/2021 to 09/28/2021	0.57	22	ppm	1.3	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)	2022	11.85	11.6 to 12.1	2	ррb	60	N/A	No	Byproduct of drinking water disinfection
Total Trihalome thanes (TTHM)	2022	25.15	24.9 to 25.4	2	ррb	80	N/A	No	Byproduct of drinking water disinfection

# 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 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.						
Name	Description Time Period							
CHLORINE	EQUIPMENT VERIFICATION OR	03/24/2022 - 04/14/2022						
	CALIBRATION - R531							
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.								
Completed on April 14, 2022. The Standard Operating Procedure (SOP) for high range chlorine has been added to the SOP's manual.								
All operators have received training and understanding of the procedure.								