# FLORENCE CITY OF 2024 Drinking Water Quality Report Covering Data For Calendar Year 2023

Public Water System ID: CO0122500

### 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 BRANDON HARRIS at 719-784-0618 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**

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 BRANDON HARRIS at 719-784-0618. 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 BRANDON HARRIS at 719-784-0618. 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**

Sources (Water Type - Source Type)	Potential Source(s) of Contamination
ARKANSAS RVR MINNEQUA CANAL (Surface Water-Intake)  NEWLIN CREEK (Surface Water-Intake)  ADOBE CREEK (Surface Water-Intake)  MINERAL CREEK (Surface Water-Intake)  ROCKVALE INFS AND WELLS RAW WATER (Surface Water-Intake)  Re  Gri	PA Superfund Sites, EPA Abandoned Contaminated Sites, EPA Hazardous Waste Generators, EPA Chemical ventory/Storage Sites, EPA Toxic Release Inventory Sites, Permitted Wastewater Discharge Sites, Aboveground, Inderground and Leaking Storage Tank Sites, Solid Waste Ites, Existing/Abandoned Mine Sites, Concentrated Animal Feeding Operations, Other Facilities, Commercial/Industrial/Transportation, High Intensity esidential, Low Intensity Residential, Urban Recreational Grasses, Quarries / Strip Mines / Gravel Pits, Row Crops, Fallow, Small Grains, Pasture / Hay, Deciduous Forest, Evergreen Forest, Mixed Forest, Septic Systems, Oil / Gas Wells, 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 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**

FLORENCE CITY OF 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, 2023 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		
Chlorine	December, 2023	Lowest period percentage of samples meeting TT requirement: 100%	0	8	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	08/15/2023 to 08/16/2023	0.11	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)	2023	17.1	13.1 to 25.3	8	ppb	60	N/A	No	Byproduct of drinking water disinfection		
Total Trihalome thanes (TTHM)	2023	44.25	23.9 to 88.8	8	ppb	80	N/A	No	Byproduct of drinking water disinfection		

Total	Total Organic Carbon (Disinfection Byproducts Precursor) Removal Ratio of Raw and Finished Water									
Contaminant	Year	Average	Range	Sample	Unit of	TT Minimum	TT	Typical Sources		
Name			Low – High	Size	Measure	Ratio	Violation			
Total Organic	2023	1.4	1.38 to 1.45	4	Ratio	1.00	No	Naturally present		
Carbon Ratio								in the		
								environment		

<sup>\*</sup>If minimum ratio not met and no violation identified then the system achieved compliance using alternative criteria.

	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: May	<u>Highest single</u> 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 Name	Year	Average	Range Low – High	Sample Size	Unit of Measure	MCL	MCLG	MCL Violation	Typical Sources	
Gross Alpha	2020	3.1	3.1 to 3.1	1	pCi/L	15	0	No	Erosion of natural deposits	
Combined Radium	2020	1.7	1.7 to 1.7	1	pCi/L	5	0	No	Erosion of natural deposits	
Combined Uranium	2020	0.44	0.44 to 0.44	1	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	2023	0.04	0.04 to 0.04	1	ppm	2	2	No	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits		
Fluoride	2023	0.33	0.33 to 0.33	1	ppm	4	4	No	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories		

	Synthetic Organic 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		
Dibromochloro	2023	0.01	0 to 0.01	2	ppt	200	0	No	Runoff/leaching	
propane									from soil fumigant	
									used on soybeans,	
									cotton, pineapples,	
									and orchards	

### 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	2023	10.9	10.9 to 10.9	1	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	Description	Time Period
CHLORINE/CHLORAMINE	FAILURE TO MONITOR AND/OR REPORT	06/01/2023 - 06/30/2023
TOTAL COLIFORM	FAILURE TO MONITOR AND/OR REPORT	06/01/2023 - 06/30/2023
TOTAL HALOACETIC ACIDS (HAA5)	FAILURE TO MONITOR AND/OR REPORT	07/01/2023 - 09/30/2023

# **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:

CHLORINE/TOTAL COLIFORM VIOLATIONS: The first two violations listed above have to do with the same set of water samples. In June of 2023 Florence was requires to collect 8 Total Coliform/Chlorine Residual samples and report the results to the CDPHE by July 10<sup>th</sup> 2023. Only 4 of the required 8 samples were taken within the sampling window, which resulted in the Failure to Monitor Violation. The City of Florence corrected this violation the following month, July of 2023, and is now back in compliance with CDPHE.

TOTAL HALOACETIC ACIDS VIOLATION: In August of 2023 the City of Florence was required to collect quarterly samples for HAA5 (Haloacetic Acids). The water department collected all of the required samples, within the sampling window, and sent them off to be tested at a certified laboratory. The certified laboratory failed to test the HAA5 samples do to a broken piece of equipment. This made it impossible for the City of Florence to report the results to CDPHE by September 10<sup>th</sup> 2023, which resulted in a Failure to

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Name	Description	Time Period

Monitor and Report violation. To correct this violation, the Florence water department completed all of the required HAA5 samples in November of 2023 and is now back in compliance with CDPHE.

The following information applies to all violations listed above.

All water customers of the Florence Regional Water System should know that these violations do not mean that there was a problem with the water quality. If there had been, we would have notified you immediately. All violations have been rectified and the City of Florence is once again in compliance with CDPHE.

We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not your drinking water meets health standards. During June and August of 2023, we "did not monitor or test" or "did not complete all monitoring or testing" for Total Coliforms, Chlorine Residual or Haloacetic Acids, and therefore cannot be sure of the quality of your drinking water during that time.

### What does this mean? What should I do?

There is nothing you need to do at this time. If a situation arises where the water is no longer safe to drink, you will be notified within 24 hours.

For more information, please contact **Brandon Harris** at **brandon.harris@florencecolorado.org** or **719-784-0618**, or **600 West 3rd Street** in Florence.

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