PAONIA TOWN OF 2024 Drinking Water Quality Report Covering Data For Calendar Year 2023

Public Water System ID: CO0115601

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 JORDAN REDDEN at 970-433-6564 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

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 JEREMIAH GARCIA at 970-822-3083. 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 system name or ID, or by contacting JEREMIAH GARCIA at 970-822-3083. 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
SPRING NO 10 OLD ORIG (Groundwater UDI Surface Water-Well) SPRING NO 11 OLD ORIG (Groundwater UDI Surface Water-Well) SPRING NO 12 OLD ORIG (Groundwater UDI Surface Water-Well) SPRING NO 13 REYNOLDS (Groundwater UDI Surface Water-Well) SPRING NO 14 REYNOLDS (Groundwater UDI Surface Water-Well) SPRING NO 15 REYNOLDS (Groundwater UDI Surface Water-Well) SPRING NO 16 MERRT METER (Groundwater UDI Surface Water-Well) SPRING NO 17 MERRT METER (Groundwater UDI Surface Water-Well) SPRING NO 18 MERRT METER (Groundwater UDI Surface Water-Well) SPRING NO 19 MERRT METER (Groundwater UDI Surface Water-Well) SPRING NO 20 MERRT METER (Groundwater UDI Surface Water-Well) SPRING NO 21 MERRT METER (Groundwater UDI Surface Water-Well) SPRING NO 22 MERRT METER (Groundwater UDI Surface Water-Well) SPRING NO 23 KAUER (Groundwater UDI Surface Water-Well) SPRING NO 24 CORRAL 1 (Groundwater UDI Surface Water-Well)	Aboveground, Underground and Leaking Storage Tank Sites, Row Crops, Pasture / Hay, Deciduous Forest, Evergreen Forest, Mixed Forest, Road Miles

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SPRING NO 25 CORRAL 2 (Groundwater UDI Surface Water-Well) SPRING NO 26 CLARK 1 (Groundwater UDI Surface Water-Well) SPRING NO 27 CLARK 2 (Groundwater UDI Surface Water-Well) SPRING NO 28 MAYS (Groundwater UDI Surface Water-Well) SPRING NO 29 MAYS (Groundwater UDI Surface Water-Well) GERMAN CREEK NO 3 (Groundwater UDI Surface Water-Well) SPRING NO 30 TODD (Groundwater UDI Surface Water-Well) SPRING NO 31 TODD (Groundwater UDI Surface Water-Well) SPRING NO 32 TODD (Groundwater UDI Surface Water-Well) SPRING NO 33 GILWICK 1 (Groundwater UDI Surface Water-Well) SPRING NO 34 GILWICK 2 (Groundwater UDI Surface Water-Well) SPRING NO 35 TODD RES (Groundwater UDI Surface Water-Well) SPRING NO 36 POLE PATCH (Groundwater UDI Surface Water-Well) SPRING NO 37 (Groundwater UDI Surface Water-Well) SPRING NO 38 (Groundwater UDI Surface Water-Well) SPRING NO 39 (Groundwater UDI Surface Water-Well) SPRING NO 4 OLD ORIG (Groundwater UDI Surface Water-Well) LAKE FORK SPRING (Groundwater UDI Surface Water-Well) GERMAN CREEK NO 1 LOW (Groundwater UDI Surface Water-Well) GERMAN CREEK NO 3 UP (Groundwater UDI Surface Water-Well) SPRING NO 5 OLD ORIG (Groundwater UDI Surface Water-Well) SPRING NO 6 OLD ORIG (Groundwater UDI Surface Water-Well) SPRING NO 7 OLD ORIG (Groundwater UDI Surface Water-Well) SPRING NO 8 OLD ORIG (Groundwater UDI Surface Water-Well) SPRING NO 9 OLD ORIG (Groundwater UDI Surface Water-Well)

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 <u>not</u> 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.

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- 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

PAONIA TOWN 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 $\underline{\textit{OR}}$

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	2	No	4.0 ppm

		Lead	and Copper S	Sampled in the Di	istribution Syst	em		
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	05/10/2023 to 05/12/2023	0.18	20	ppm	1.3	0	No	Corrosion of household plumbing systems; Erosion of natural deposits
Lead	09/13/2023 to 09/21/2023	2.1	20	ppb	15	0	No	Corrosion of household plumbing systems; Erosion of natural deposits
Copper	09/13/2023 to 09/21/2023	0.42	20	ppm	1.3	0	No	Corrosion of household plumbing systems; Erosion of natural deposits
Lead	05/10/2023 to 05/12/2023	2	20	ppb	15	0	No	Corrosion of household plumbing systems; Erosion of natural deposits

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Disinfection Byproducts Sampled in the Distribution System												
Name	Year	Average	Range	Sample	Unit of	MCL	MCLG	MCL Violation	Typical Sources			
			Low – High	Size	Measure							
Total Haloacetic Acids	2023	6.72	0 to 19.3	4	ppb	60	N/A	No	Byproduct of drinking water			
(HAA5)									disinfection			
Total Trihalomethanes	2023	12.28	4.45 to 29.4	4	ppb	80	N/A	No	Byproduct of drinking water			
(TTHM)	2023	12.20	4.43 to 27.4	4	ppo	80	IV/A	140	disinfection			
(1111111)									distillection			

	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: 1 NTU	Maximum 0.5 NTU for any single measurement	Yes	Soil Runoff						
Turbidity	Month: May	Lowest monthly percentage of samples meeting TT requirement for our technology: 99 %	In any month, at least 95% of samples must be less than 0.1 NTU	Yes	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	2019	0.4	0 to 0.8	2	pCi/L	15	0	No	Erosion of natural deposits			
Combined Radium	2019	0.65	0 to 1.3	2	pCi/L	5	0	No	Erosion of natural deposits			

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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		
Combined Uranium	2019	0.12	0 to 0.23	2	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	0 to 0	1	ppm	2	2	No	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits				
Fluoride	2023	0.1	0.1 to 0.1	1	ppm	4	4	No	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories				
Nitrate	2023	0.36	0.36 to 0.36	1	ppm	10	10	No	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits				

Secondary Contaminants**

**Secondary standards are non-enforceable 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	5.8	5.8 to 5.8	1	ppm	N/A

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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	TT Level or
				Value	MCL
	ENGERDED WINDSTELL	07/01/0000	T 1111 1 1 1 1 60 1 11	27/4	27/1
TURBIDITY	EXCEEDED TURBIDITY	05/01/2023 - 05/31/2023	Turbidity has no health effects. However,	N/A	N/A
	(CLOUDINESS) LEVELS FOR		turbidity can interfere with disinfection		
	SURFACE WATER		and provide a medium for microbial		
	FILTRATION		growth. Turbidity may indicate the		
			presence of disease-causing organisms.		
			These organisms include bacteria, viruses,		
			and parasites that can cause symptoms		
			such as nausea, cramps, diarrhea and		
			associated headaches.		
CDOGG CONNECTION DITLE	EAH LIDE TO MEET CDOGG	05/19/2022 00/15/2022	W 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	NT/A	NT/A
CROSS CONNECTION RULE	FAILURE TO MEET CROSS	05/18/2023 - 09/15/2023	We have an inadequate backflow	N/A	N/A
	CONNECTION CONTROL		prevention and cross-connection control		
	AND/OR BACKFLOW		program. Uncontrolled cross connections		
	PREVENTION		can lead to inadvertent contamination of		
	REQUIREMENTS - M614		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		

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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
				v alue	WICL
			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.		
CROSS CONNECTION RULE	FAILURE TO MEET CROSS	05/18/2023 - 09/15/2023	We have an inadequate backflow	N/A	N/A
	CONNECTION CONTROL		prevention and cross-connection control		
	AND/OR BACKFLOW		program. Uncontrolled cross connections		
	PREVENTION		can lead to inadvertent contamination of		
	REQUIREMENTS - M611		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.		

Additional Violation Information

Inadequately treated water may contain disease-causing organisms. These organisms include bacteria, viruses, and parasites, which can cause symptoms such as nausea, cramps, diarrhea, and associated headaches.

Health-Based Violations

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Name	Description	Time Period	Health Effects	Compliance	TT Level or
				Value	MCL

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.

The Town of Paonia's turbidity analyzer displayed a reading exceeding the MCL due to air being in the lines. This has been corrected by installing a device called a bubble trap before the turbidity analyzer.

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
REVISED TOTAL COLIFORM RULE (RTCR)	FAILURE TO HAVE ADEQUATE COLIFORM BACTERIA SAMPLE SITES - R518	05/18/2023 - 09/20/2023
CROSS CONNECTION RULE	FAILURE TO MEET CROSS CONNECTION CONTROL AND/OR BACKFLOW PREVENTION REQUIREMENTS - M613	05/18/2023 - 09/20/2023
CHLORINE/CHLORAMINE	FAILURE TO MONITOR AND/OR REPORT	05/01/2023 - 05/31/2023

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.

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Name	Description	Time Period

The Town of Paonia now takes the total coliform samples from every pressure zone in the system ensuring that it fully represents the entire system throughout the years routine testing. The Town's water treatment facility experienced a power loss causing the data from the chlorine analyzer to be lost for day during the time period, so the continuous monitoring data was unable to be submitted. The computer is now connected to a battery backup and the Town if working towards getting a full facility generator to prevent data loss during future power outages.

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.

Annual BPCC tracking sheets and testing results were not submitted for previous years. BPCC tracking sheets and results are currently up to date and will be updated as required.