



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: https://www.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).



GENERAL INFORMATION

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.



SOURCE WATER ASSESSMENT REPORT



The Colorado Department of Public Health and Environment 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: 151500, PUEBLO BOARD OF WW. For more information on the report, contact the CDPHE by calling 303-692-2000. 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 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 water is delivered to your homes. In addition, the assessment results were used to complete a source water protection plan (SWPP) in 2019.

PUEBLO RESERVOIR (Surface Water-Intake) ARKANSAS RIVER INTAKE 2 (Surface Water-Intake) ARKANSAS RIVER INTAKE 1 (Surface Water-Intake)

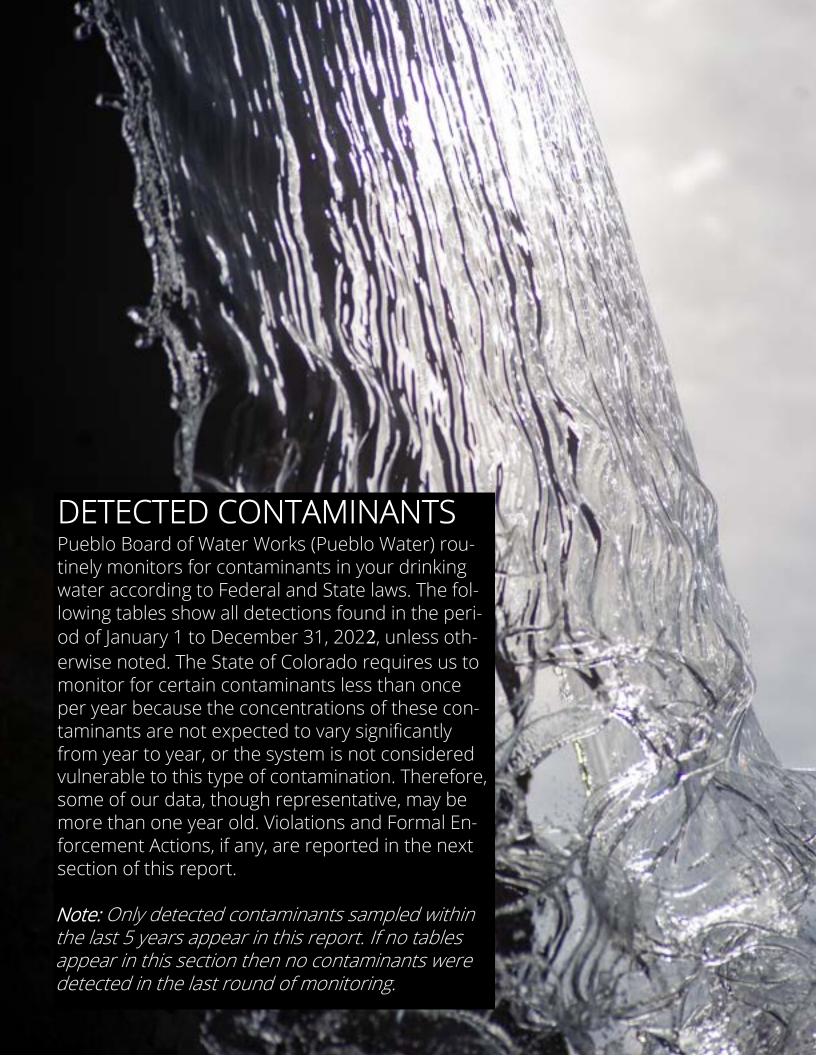
Potential Source(s) of Contamination

EPA Superfund Sites, EPA Abandoned Contaminated Sites, EPA Hazardous Waste Generators, EPA Chemical Inventory/Storage Sites, EPA Toxic Release Inventory Sites, Permitted Wastewater Discharge Sites, Aboveground, Underground and Leaking Storage Tank Sites, Solid Waste Sites, Existing/Abandoned Mine Sites, Concentrated Animal Feeding Operations, Other Facilities, Commercial/Industrial/Transportation, High Intensity Residential, 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 & 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.



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	Time Period	Results	Number of Samples	Sample	TT Vio-	MRDL
Name			Below Level	Size	lation	
Chloramine	November,	Lowest period percentage of samples	7	177	No	4.0
	2022	meeting TT requirement: 96.05%				ppm

	SECTION DESIGNATION	Lead a	nd Copper	Sampled in	the Distribu	ition Systen	1	SCION CONTESTABLISHES VINDO
Contaminant Name	Time Peri- od	90 th Per- centile	Sample Size	Unit of Measure	90 th Per- centile AL	Sample Sites Above AL	90 th Percentile AL Exceedance	Typical Sources
Copper	08/11/2021 to 09/17/2021	0.16	53	ppm	1.3	0	No	Corrosion of house- hold plumbing sys- tems; Erosion of natural deposits
Lead	08/11/2021 to 09/17/2021	2.3	53	ppb	15	0	No	Corrosion of house- hold plumbing sys- tems; Erosion of natural deposits

		- Control of the Cont	Disinfection 1	Byproduc	cts Sampled	l in the I	Distribution	1 System	
Name	Year	Average	Range Low – High	Sam- ple Size	Unit of Meas- ure	MCL	MCLG	MCL Vio- lation	Typical Sources
Total Haloace- tic Acids (HAA5)	2022	9.92	0 to 31	16	ppb	60	N/A	No	Byproduct of drinking water disinfection
Total Trihalo- methanes (TTHM)	2022	7.95	5.2 to 10.5	16	ppb	80	N/A	No	Byproduct of drinking water disinfection

Total	Organi	c Carbon (Disinfection By	products F	recursor) R	emoval Ratio of Ra	ıw and Finishe	d Water
Contaminant	Year	Aver-	Range	Sample	Unit of	TT Minimum	TT Viola-	Typical Sources
Name		age	Low – High	Size	Measure	Ratio	tion	
Total Organic	2022	1.15	1 to 1.28	12	Ratio	1.00	No	Naturally present
Carbon Ratio	1 1	,	1 '	1	1	1		in the environ-
ψIC : :			<u> </u>	<u> </u>		<u> </u>		ment

*If minimum ratio not met and no violation identified then the system achieved compliance using alternative criteria.

	Summ	ary of Turbidity Sampled at the	Entry Point to the Distribution Sys	stem	
Contaminant	Sample	Level Found	TT Requirement	TT Vio-	Typical
Name	Date			lation	Sources
Turbidity	Date/Month:	<u>Highest single</u> measurement:	Maximum 1 NTU for any single	No	Soil Runoff
	Sep	0.05 NTU	measurement		
Turbidity	Month:	Lowest monthly percentage of	In any month, at least 95% of sam-	No	Soil Runoff
è	Dec	samples meeting TT require-	ples must be less than 0.3 NTU		
		ment for our technology: 100 %			

		D - 4'		-44b - E-4	D.:4 4- 4l	. D: 4-:1	4' C4		COMES CONTRACTOR
		Kadioi	nuclides Sampled	at the Ent	ry Point to th	ie Distrib	oution Syst	em	
Contaminant	Year	Aver-	Range	Sample	Unit of	MCL	MCLG	MCL	Typical Sources
Name		age	Low - High	Size	Measure			Violation	
Gross Alpha	2020	2.95	2.7 to 3.2	2	pCi/L	15	0	No	Erosion of natu-
									ral deposits
Combined	2020	1.45	0.38 to 2.52	2	pCi/L	5	0	No	Erosion of natu-
Radium									ral deposits
Combined	2020	2.19	1.7 to 2.69	2	ppb	30	0	No	Erosion of natu-
Uranium									ral deposits

Name Low – High Size Measure Violation Barium 2022 0.05 0.05 to 0.05 1 ppm 2 2 No Discharge of ding wastes; deharge from merefineries; erose of natural deposits; erose of natural deposits; was additive which promotes strough teeth; discharted from fertilizer aluminum factories Nitrate 2022 0.15 0.15 to 0.15 1 ppm 10 No Runoff from fertilizer		I	Inorganic C	Contaminants San	npled at th	e Entry Poi	nt to the	Distributio	on System	
Barium 2022 0.05 0.05 to 0.05 1 ppm 2 2 No Discharge of ding wastes; d charge from m refineries; eros of natural deposits; wat additive which promotes strought teeth; discharge from from fertilizer aluminum faceries Nitrate 2022 0.15 0.15 to 0.15 1 ppm 10 10 No Runoff from fer discharge from the promotes from from from from fertilizer aluminum faceries		Year	Average				MCL	MCLG		Typical Sources
ing wastes; decharge from more fineries; erose of natural deposits; wat additive which promotes stroteeth; dischart from fertilizer aluminum factories Nitrate 2022 0.15 0.15 to 0.15 1 ppm 10 10 No Runoff from fertilizer and strong from					Size	Measure				
Fluoride 2022 0.72 0.72 to 0.72 1 ppm 4 4 No Erosion of natural deposits; wat additive which promotes stroteeth; dischart from fertilizer aluminum factories Nitrate 2022 0.15 0.15 to 0.15 1 ppm 10 10 No Runoff from fertilizer and strong from fertilizer and strong fertil	Barium	2022	0.05	0.05 to 0.05	1	ppm	2	2	No	Discharge of drill-
Fluoride 2022 0.72 0.72 to 0.72 1 ppm 4 4 No Erosion of natural deposits; wat additive which promotes stroteeth; dischart from fertilizer aluminum factories Nitrate 2022 0.15 0.15 to 0.15 1 ppm 10 10 No Runoff from fer										ing wastes; dis-
Fluoride 2022 0.72 0.72 to 0.72 1 ppm 4 4 No Erosion of natural deposits; wat additive which promotes stroteeth; dischart from fertilizer aluminum factories Nitrate 2022 0.15 0.15 to 0.15 1 ppm 10 10 No Runoff from feether the strong from the strong fro										charge from metal
Fluoride 2022 0.72 0.72 to 0.72 1 ppm 4 4 No Erosion of natideposits; wat additive which promotes stroteeth; dischart from fertilizer aluminum factories Nitrate 2022 0.15 0.15 to 0.15 1 ppm 10 10 No Runoff from feeting from from from from from from from from										refineries; erosion
deposits; wat additive which promotes stroteeth; dischar from fertilizer aluminum factives. Nitrate 2022 0.15 0.15 to 0.15 1 ppm 10 10 No Runoff from feether from from factives.										of natural deposits
additive which promotes strop teeth; dischart from fertilizer aluminum factories Nitrate 2022 0.15 0.15 to 0.15 1 ppm 10 10 No Runoff from fertilizer aluminum factories	Fluoride	2022	0.72	0.72 to 0.72	1	ppm	4	4	No	Erosion of natural
promotes stroteeth; dischar from fertilizer aluminum face ries Nitrate 2022 0.15 0.15 to 0.15 1 ppm 10 10 No Runoff from fe										deposits; water
Nitrate 2022 0.15 0.15 to 0.15 1 ppm 10 10 No Runoff from fer										additive which
										promotes strong
										teeth; discharge
Nitrate 2022 0.15 0.15 to 0.15 1 ppm 10 10 No Runoff from fo										from fertilizer and
Nitrate 2022 0.15 0.15 to 0.15 1 ppm 10 10 No Runoff from fe										aluminum facto-
										ries
lizer use; leach	Nitrate	2022	0.15	0.15 to 0.15	1	ppm	10	10	No	Runoff from ferti-
										lizer use; leaching
from septic tar										from septic tanks,
sewage; erosio										sewage; erosion of
										natural deposits
	Selenium	2022	3.78	3.78 to 3.78	1	ppb	50	50	No	Discharge from
										petroleum and
										metal refineries;
										erosion of natural
										deposits; dis-
charge from m										charge 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.

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Contaminant	Year	Average	Range	Sample	Unit of Meas-	Secondary Standard
Name			Low – High	Size	ure	
Sodium	2022	14	14 to 14	1	ppm	N/A

Unregulated Contaminants***

EPA has implemented the Unregulated Contaminant Monitoring Rule (UCMR) to collect data for contaminants that are suspected to be present in drinking water and do not have health-based standards set under the Safe Drinking Water Act. EPA uses the results of UCMR monitoring to learn about the occurrence of unregulated contaminants in drinking water and to decide whether or not these contaminants will be regulated in the future. We performed monitoring and reported the analytical results of the monitoring to EPA in accordance with its Unregulated Contaminant Monitoring Rule (UCMR). Once EPA reviews the submitted results, the results are made available in the EPA's National Contaminant Occurrence Database (NCOD) (epa.gov/dwucmr/national-contaminant-occurrence-database-ncod) Consumers can review UCMR results by accessing the NCOD. Contaminants that were detected during our UCMR sampling and the

Contaminant Name	Year	Average	Range Low – High	Sample Size	Unit of Measure

***More information about the contaminants that were included in UCMR monitoring can be found at: drinktap.org/Water-Info/Whats-in-My-Water/Unregulated-Contaminant-Monitoring-Rule-UCMR. Learn more about the EPA UCMR at: epa.gov/dwucmr/learn-about-unregulated-contaminant-monitoring-rule or contact the Safe Drinking Water Hotline at (800) 426-4791 or epa.gov/ground-water-

No Violations or Formal Enforcement Actions