Centennial Water and Sanitation District 20Water Quality 24REPORT



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Serving the communities of Highlands Ranch and Solstice.

What is this report?

The Environmental Proection Agency (EPA) requires public water supplies that serve the same people year-round (community water systems) to provide consumer confidence reports to their customers. These reports are also known as annual water quality reports. This report summarizes information regarding water sources used, any detected contaminants, compliance and education.

Centennial Water & Sanitation District is committed to providing a reliable and secure supply of high-quality drinking water. Last year, as in years past, your tap water met all U.S. Environmental Protection Agency (EPA) and state drinking water health standards. Please contact Nick Marusin at 303-791-2185 with any questions or for public participation opportunities that may affect water quality. Please see the water quality data from our wholesale system(s) (included in this report) for additional information about your drinking water. A portion of Centennial Water's surface water supply is through purchases from other water providers, therefore their water quality reports are contained within this report.



Water treatment process



- **1. Reservoir storage:** Centennial Water stores untreated water at three surface water reservoirs: McLellan, South Platte and Chatfield Reservoir.
- Pre-sedimentation: Water first arrives at the Joseph B. Blake Water Treatment Plant at the forebay. This is where large suspended particles, like sand, silt and clay settle to the bottom of the basin before the water is introduced to the main treatment plant processes.
- 3. Coagulation and flocculation: The addition of compounds promote the clumping of fine solids so they can be more easily removed. Think of a snowball that grows larger and larger as more snow is added to it. The large snowball then makes it easy to remove fine solids from the water.
- **4. Filtration:** Water is filtered through layers of media that remove dissolved particles. As water travels through the filter, particles are stopped and clean water is the result.
- 5. Disinfection: The last step is to add chemical disinfectants to kill any remaining bacteria, viruses or microbes.
- 6. Clearwell and storage: Once water has traveled through the treatment process, it is ready for storage and eventually distribution to customers.

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 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 healthcare 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 stormwater 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 stormwater 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 stormwater runoff and septic systems.

In order to ensure 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 Nick Marusin at 303-791-2185. 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 has 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 118015, CENTENNIAL WSD, or by contacting Nick Marusin at 303-791-2185. The Source Water Assessment Report provides a screening-level evaluation of potential contamination that could occur. It does not mean 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 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 below.

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.

Potential Source(s) of Contamination

EPA Abandoned Contaminated Sites, EPA Hazardous Waste Generators, EPA Chemical Inventory/Storage Sites, Permitted Wastewater Discharge Sites, Aboveground, Underground and Leaking Storage Tank Sites, Solid Waste Sites, Existing/Abandoned Mine Sites, Other Facilities, Commercial/Industrial/Transportation, High Intensity Residential, Low Intensity Residential, Row Crops, Fallow, Pasture / Hay, Evergreen Forest, Septic Systems, Road Miles

Sources (water type - source type)

PURCHASED FROM CO0116001 (Surface Water-Consecutive Connection) WELL D9 (Groundwater-Well) WELL TD4 (Groundwater-Well) WELL TD5 (Groundwater-Well) WELL TD6 (Groundwater-Well) WELL TD12 (Groundwater-Well) WELL A6R (Groundwater-Well) WELL A12R (Groundwater-Well) WELL D1 (Groundwater-Well) WELL D12R (Groundwater-Well) WELL LFH2 (Groundwater-Well) WELL LFH7 (Groundwater-Well) WELL LFH8R (Groundwater-Well) WELL LFH9 (Groundwater-Well) WELL LFH10R (Groundwater-Well) WELL LFH11 (Groundwater-Well) WELL LFH13 (Groundwater-Well) WELL LFH14R (Groundwater-Well) WELL LFH15 (Groundwater-Well) WELL SP-9 (Groundwater UDI Surface Water-Well)

WELL SP-10 (Groundwater UDI Surface Water-Well) WELL SP-11 (Groundwater UDI Surface Water-Well) WELL SP-12 (Groundwater UDI Surface Water-Well) SOUTH PLATTE RESERVIOIR (Surface Water-Reservoir) ENGLEWOOD CITY DITCH (Surface Water-Intake) PURCHASED WATER WISE CO0103843 (Surface Water-Consecutive Connection) WELL D10A (Groundwater-Well) MCLELLAN RESERVOIR (Surface Water-Intake) WELL LFH4R (Groundwater-Well) WELL D7 (Groundwater-Well) WELL A5R (Groundwater-Well) WELL A7R (Groundwater-Well) WELL A11R (Groundwater-Well) PA-7S REDRILL (Groundwater-Well) WELL A8 (Groundwater-Well)

WELL D5 (Groundwater-Well) WELL D11 (Groundwater-Well) WELL D13 (Groundwater-Well) WELL D15 (Groundwater-Well) WELL D19 (Groundwater-Well) WELLA9R (Groundwater-Well) WELL A10R (Groundwater-Well) WELL A13R (Groundwater-Well) WELL D14 (Groundwater-Well) WELL D16 (Groundwater-Well) WELL D17 (Groundwater-Well) WELL D18 (Groundwater-Well) WELL D20 (Groundwater-Well) WELL TD7 (Groundwater-Well) WELL TD8 (Groundwater-Well) WELL TD9 (Groundwater-Well) WELL A1 (Groundwater-Well) WELL TD10 (Groundwater-Well) WELL LFH3 (Groundwater-Well) WELL A2 (Groundwater-Well) WELL A3 (Groundwater-Well) WELL A4 (Groundwater-Well)

Action Level (AL): The concentration of a contaminant which, if exceeded, triggers treatment or other requirements.

Average (x-bar): Typical value.

BRL: Below reporting limit.

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).

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.

Gross Alpha (No Abbreviation): Gross alpha particle activity compliance value. It includes radium-226, but excludes radon 222 and uranium.

Health-Based: A violation of either a MCL or TT.

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.

Maximum Contaminant Level (MCL): The highest level of a contaminant allowed in drinking water.

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 (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 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.

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.

Non-Health-Based: A violation that is <u>not</u> a MCL or TT.

Not Applicable (N/A): Does not apply or not available.

Parts per billion = Microorgams 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.

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 trillion = Nanograms per liter (ppt = ng/L) - One part per trillion corresponds to one minute in 2,000,000 years, or a single penny in \$10,000,000,000.

PFAS - Per- and Polyfluoroalkyl substances.

Picocuries per liter (pCi/L): Measure of radioactivity in water.

Range (R): Lowest value to the highest value.

Sample Size (n): Number or count of values (i.e. number of water samples collected).

Treatment Technique (TT): A required process intended to reduce the level of a contaminant in drinking water.

Variance and Exemptions (V/E): Department permission not to meet a MCL or treatment technique under certain conditions.

Violation (No Abbreviation): Failure to meet a Colorado Primary Drinking Water Regulation.

Detected Contaminants

Centennial Water 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 were detected in the last five 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 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			R	esı	ults			Number of SamplesSample SizeBelow Level		e v	TT /iolati	on	MRDL	
Chloramine	Decembe 2023	er	Lowest p	west period percentage of samples meeting TT requirement: 100%					0		106	6	No		4.0 ppm
			l	_ead and C	opp	per Sampl	ed in the Dis	stril	bution Sy	stem					
Contaminant Name	Time Period		90th Percenti	90th Sample Unit of 90th Percentile Size Measure Percentile AL		5	ample 90th Sites Percentile AL Above Exceedance AL		lL e	Typical Sources					
Copper	7/11/2023 t 12/12/2023	0 }	0.3	101		ppm	1.3		0		No	plu	Corros Imbing na	sion c syste tural	f household ems; Erosion of deposits
Lead	1/17/2023 t 6/14/2023	0	2	101		ppb	15		0		No	plu	Corros Imbing na	sion c syste tural	f household ems; Erosion of deposits
Copper	1/17/2023 t 6/14/2023	0	0.4	101		ppm	1.3		0		No	plu	Corrosion of household plumbing systems; Erosion o natural deposits		f household ems; Erosion of deposits
Lead	7/11/2023 t 12/12/2023	0 }	2	101		ppb	15		0		No	plu	Corros Imbing na	sion c syste tural	f household ems; Erosion of deposits
			Disi	nfection By	/prc	oducts Sa	mpled in the	Di	stributior	n Syst	em				
Name	Year	Av	/erage	Range Low-High		Sample Size	e Unit of Measur	f e	MCL	N	CLG	MC Viola	L tion	Ту	pical Sources
Total Haloacetic Acids (HAA5)	2023		8.27	0 to 24		32	ppb		60		N/A	N	D	E d	Byproduct of rinking water disinfection
Total Trihalomethanes (TTHM)	2023	2	26.21	3.4 to 57.9)	32	ppb		80		N/A	N	D	E d	Byproduct of rinking water disinfection
Total Organic Carbon (Disinfection Byproducts Precursor) Removal Ratio of Raw and Finished Water															
Contaminant Name	Year	Av	/erage	Range Low-High		Sample Size	e Unit of Measur	e	TT Mini Rat	imum io	Vio	TT lation		Туріс	al Sources
Total Organic Carbon Ratio	2023		1.77	1.34 to 2.04	4	9	Ratio		1.0	0		No Naturally present in environment		r present in the rironment	
*If minimum ratio	o not met and	no	violation ic	lentified the	n th	e system a	achieved com	ila	ance using	alterr	native c	riteria.			

	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	March	Highest single measurement: 0.18 NTU	Maximum 1 NTU for any single measurement	No	Soil runoff							
Turbidity	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	2023	3.63	1.8 to 5.1	3	pCi/L	15	0	No	Erosion of natural deposits		
Combined Radium	2023	1.2	0.6 to 1.7	3	pCi/L	5	0	No	Erosion of natural deposits		
Combined Uranium	2023	2.39	0 to 6.12	3	ppb	30	0	No	Erosion of natural deposits		
Gross Beta Particle Activity	2023	5.6	4.0 to 7.6	3	pCi/L*	50	0	No	Decay of natural and man-made deposits		

*The MCL for Gross Beta Particle Activity is 4 mrem/year. Since there is no simple conversion between mrem/year and pCi/L EPA considers 50 pCi/L to be the level of concern for Gross Beta Particle Activity.

	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			
Arsenic	2023	1.3	1 to 1.7	3	ppb	10	0	No	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes			
Barium	2023	0.07	0.06 to 0.08	3	ppm	2	2	No	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits			
Chromium	2023	0.67	0 to 2	3	ррb	100	100	No	Discharge from steel and pulp mills; erosion of natural deposits			
Fluoride	2023	0.94	0.72 to 1.1	3	ppm	4	4	No	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories			
Nitrate	2023	0.15	0 to 0.33	3	ppm	10	10	No	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits			
Selenium	2023	4.33	0.8 to 11	3	ppb	50	50	No	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines			

Secondary stan	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	83.87	66.4 to 109.8	3	ppm	N/A				
Total Dissolved Solids	2023	341	114 to 716	102	ppm	500				

		This ta	Unregul able is reporting 2023	ated Contaminan 3 data. In 2023, PFA	ts S was unregulated.					
Contaminant Name	Year	Average	Range Low-High	Sample Size	Unit of Measure	EPA Proposed MCL				
PFOA	2023	4.09	2.7 to 5.21	4	ppt	4				
PFOS	2023	3.02	1.7 to 3.95	4	ppt	4				
PFHXS	2023	1.72	BRL to 1.95	4	ppt	Hazard Index*				
PFNA	2023	BRL	BRL	4	ppt	Hazard Index*				
PFBS	2023	4.64	3.3 to 6.34	4	ppt	Hazard Index*				
HFPO-DA (GenX) 2023 BRL BRL 4 ppt Hazard Index*										
*Hazard Index = ([HFPO-DA] [10 ppt]) + ([PFBS] [2000 ppt]) + ([PFNA] [10 ppt]) + ([PFHxS] [9.0 ppt])										

PFAS Information

On April 10, 2024, the EPA finalized a National Primary Drinking Water Regulation establishing maximum contaminant levels (MCLs) for six PFAS in drinking water. PFOA, PFOS, PFHxS, PFNA, and HFPO-DA as contaminants with individual MCLs, and PFAS mixtures containing at least two or more of PFHxS, PFNA, HFPO-DA, and PFBS using a Hazard Index MCL to account for the combined and co-occurring levels of these PFAS in drinking water.

The final rule requires public water systems to monitor for PFAS and gives them until 2027 to complete initial monitoring. Public water systems have until 2029 to implement solutions to reduce PFAS levels to be in compliance with the new MCLs.

Centennial Water staff collected non-compliance samples in 2023 for EPA method 537.1. The results for the six proposed regulated compounds are included in the above table. Centennial Water staff has taken steps to ensure the maximum possible amount of PFAS compounds are removed using our existing water treatment process.

Violations, Significant Deficiencies and Formal Enforcement Actions No Violations or Formal Enforcement Actions

We are pleased to present to you this year's water quality report for East Cherry Creek Valley WSD (ECCV). Our constant goal is to provide you with a safe and dependable supply of drinking water. Please contact Sara Brewer at 303-693-3800 with any questions or for public participation opportunities that may affect water quality in the ECCV service area. Please see the water quality data from the 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 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.

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Sources (water type - source type)

WPA 6R WELL (Groundwater-Well) P2 WELL (Groundwater-Well) P3 WELL (Groundwater-Well) P4 WELL (Groundwater-Well) P5 WELL (Groundwater-Well) P15 WELL (Groundwater-Well) P18 WELL (Groundwater-Well) SA1R (Groundwater-Well) A4R (Groundwater-Well) WPA8R (Groundwater-Well) A10 WELL (Groundwater-Well) L9 WELL (Groundwater-Well) A13 WELL (Groundwater-Well) L12 WELL (Groundwater-Well) A16 WELL (Groundwater-Well) L15 WELL (Groundwater-Well) SA1 WELL (Groundwater-Well) SL1 WELL (Groundwater-Well) SA10 WELL (Groundwater-Well) SL10 WELL (Groundwater-Well) DA5 WELL (Groundwater-Well) SAU9 WELL (Groundwater-Well) SAL9 WELL (Groundwater-Well) SL9 WELL (Groundwater-Well) SSA5 WELL (Groundwater-Well) SSL5 WELL (Groundwater-Well) SSA6 WELL (Groundwater-Well) WA4 WELL (Groundwater-Well) WA5A WELL (Groundwater-Well) WA6A WELL (Groundwater-Well) WFH3 WELL (Groundwater-Well) WCA1R WELL (Groundwater-Well) P6 WELL (Groundwater-Well)

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Potential Source(s) of Contamination:

EPA Hazardous Waste Generators, EPA Chemical Inventory/Storage Sites, Aboveground, Underground and Leaking Storage Tank Sites, Other Facilities, Commercial/Industrial/Transportation, High Intensity Residential, Low Intensity Residential, Urban Recreational Grasses, Fallow, Small Grains, Pasture / Hay, Evergreen Forest, Septic Systems, Road Miles

Detected Contaminants

EAST CHERRY CREEK VALLEY 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, 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 five 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 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				of Samples w Level	Sample Size	TT Violation	MRDL		
Chlorine	December 2023	Lowest per	iod percer TT requir	ntage of sam ement: 1009	nples meeting %		0		No	4.0 ppm		
Lead and Copper Sampled in the Distribution System												
Contaminant Name	Time Period	90th Percentile	Sample Size	Unit of Measure	90th Percentile AL	Sample Sites Above AL	90th Percentile A Exceedanc	AL e	ypical Source	S		
Copper	1/12/2023 to 4/19/2023	0.09	60	ppm	1.3	0	No	Corr plumbir ı	Corrosion of househol plumbing systems; Erosic natural deposits			
Lead	7/10/2023 to 10/18/2023	1	60	ppb	15	1	No	Corr plumbir ı	osion of house ng systems; Er natural deposit	ehold osion of s		
Copper	7/10/2023 to 10/18/2023	0.07	60	ppm	1.3	0	No	No Corrosio plumbing sy natur		ehold osion of s		
Lead	1/12/2023 to 4/19/2023	3	60	ppb	15	1	No	No Corrosio plumbing sy		Corrosion of household		

	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	5.79	0 to 12.6	32	ppb	60	N/A	No	Byproduct of drinking water disinfection		
Total Trihalomethanes (TTHM)	2023	15.95	0 to 32.8	32	ppb	80	N/A	No	Byproduct of drinking water disinfection		

natural deposits

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	2023	3.4	3.4 to 3.4	1	pCi/L	15	0	No	Erosion of natural deposits		
Combined Radium	2023	1.85	1.7 to 2	2	pCi/L	5	0	No	Erosion of natural deposits		

East Cherry Creek Valley Water and Sanitation District

		Inorg	ganic Contamir	nants Sam	pled at the I	Entry Po	int to the	Distribution	System
Contaminant Name	Year	Average	Range Low-High	Sample Size	Unit of Measure	MCL	MCLG	MCL Violation	Typical Sources
Arsenic	2023	0.09	0 to 1	11	ppb	10	0	No	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes
Barium	2023	0.09	0.04 to 0.16	11	ppm	2	2	No	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Chromium	2023	0.91	0 to 2	11	ррb	100	100	No	Discharge from steel and pulp mills; erosion of natural deposits
Fluoride	2023	1.07	0.7 to 1.29	11	ppm	4	4	No	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Nitrate	2023	0.18	0 to 1	11	ppm	10	10	No	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Selenium	2023	1.64	0 to 8	11	ррb	50	50	No	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines

Iron and Manganese									
Contaminant Name	Year	Average	Secondary MCL						
Iron	2023	0.0064 mg/L	0.3 mg/L						
Manganese	2023	0.144 mg/L	0.05 mg/L						

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	55.45	35.7 to 101.2	11	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 corresponding analytical results are provided below.

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

***More information about the contaminants that included in UCMR were 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-and-drinking-water.

Violations, Significant Deficiencies and Formal Enforcement Actions No Violations or Formal Enforcement Actions

We are pleased to present to you this year's water quality report for the Denver Water service area. Our constant goal is to provide you with a safe and dependable supply of drinking water. Please contact Nicole Poncelet-Johnson at 303-628-5977; 303-628-6039 with any questions or for public participation opportunities that may affect Denver Water's water quality. Please see the water quality data from 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 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 healthcare 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 stormwater 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 stormwater 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 stormwater runoff and septic systems.

In order to ensure 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 Nicole Poncelet-Johnson at 303-628-597. 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 the Denver Water 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 116001, DENVER WATER BOARD, or by contacting Nicole Poncelet-Johnson at 303-628-5977; 303-628-6039. 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 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 to the right.

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.

Sources (Water Type - Source Type)

MARSTON FOREBAY (Surface Water-Intake) STRONTIA SPRINGS RES INTAKE (Surface Water-Intake)

Potential Source(s) of Contamination:

RALSTON RESERVOIR INTAKE (Surface Water-Intake) S PLATTE DIVERSION CONDUIT 20 (Surface Water-Intake)

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, Other Facilities, Commercial/Industrial/ Transportation, High Intensity Residential, Low Intensity Residential, Urban Recreational Grasses, Quarries / Strip Mines / Gravel Pits, Row Crops, Fallow, Pasture / Hay, Deciduous Forest, Evergreen Forest, Mixed Forest, Septic

Significant Deficiencies

Public water suppliers are required to notify customers of unresolved deficiencies in design, operation, maintenance or administration, or a failure or malfunction in a system component, including sources, treatment, storage or distribution system that have the potential to cause risks to the reliable delivery of safe drinking water. What happened?

During a state inspection in September 2022, inspectors found deficiencies related to cross-connection and storage conditions. Denver Water is working diligently with the state health department to make necessary repairs. There is no evidence the water you drink was affected by these deficiencies.

1. Cross-connection: Denver Water is working with the state health department to install more cross-

connection devices at Foothills Treatment Plant. Denver Water plans to complete installation by May 2025.

2. Storage conditions: State inspectors found the hatches on the 56th Avenue Tank were installed incorrectly. Denver Water is repairing the hatches according to the corrective action plan; repairs will be completed by December 2024.

How did this impact drinking water quality? There is no evidence the water you drink was affected by these deficiencies.

What has been done to correct this situation? In all instances, Denver Water worked with the state health department to develop a corrective action plan and make necessary repairs.

Detected Contaminants

DENVER WATER BOARD 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 five years appear in this report. If no tables appear in this section then no contaminants were detected in the last round of monitoring.

Regulated Water Contaminants: What we test for

Data collected throughout 2023.

Denver Water monitors for the list of regulated parameters below in our treated drinking water. Sample points include entry points to the distribution system from the three treatment plants: Foothills, Marston and Moffat, and sites throughout Denver Water's distribution system.

Inorganic	Chemicals	Volatile Organic Chemicals						
Antimony	Thalium	Benzene	1,2-Dichloropropane	Trichloroethylene				
Arsenic	Sodium	Carbon Tetrachloride	Ethylbenzene	Xylenes (total)				
Barium	Total Chlorine	1,2-Dichloroethane	Monochlorobenzene	Vinyl Chloride				
Beryllium	Fluoride	o-Dichlorobenzene	Styrene					
Cadmium	Nitrate	p-Dichlorobenzene	Tetrachloroethylene					
Chromium	Nitrite	1,1-Dichloroethylene	Toluene					
Mercury	Lead	cis-1,2-Dichloroethylene	1,2,4-Trichlorobenzene					
Nikel	Copper	trans-1,2-Dichloroethylene	11,1-Trichloroethane					
Selenium		Dichloromethane	1,1,2-Trichloroethane					

Synthetic Organ	nic Chemicals		Disinfection Byproducts			
1,2-Dibromo-3-chloropropane	Endothall		Haloacetic Acids (HAA5) are regulated as	Total Trihalomethanes (TTHM) are regulated		
2,4,5-TP	Endrin		the sum of the 5 contaminants listed below:	as the sum of the 4 contaminants listed below:		
2 4-D	Ethylene dibromide	1	Dibromoacetic Acid	Chloroform		
Aldioarb	Hoptophor		Dichloroacetic Acid	Bromodichloromethane		
Aldicarb	пергасню	[Monobromoacetic Acid	Dibromochloromethane		
Aldicarb sulfone	Heptachlor Epoxide	ļŀ	Manachlarageatic Acid	Bromoform		
Aldicarb sulfoxide	Hexachlorobenzene			Bioinoionn		
Atrazine	Hexachlorocyclopentadiene		I richloroacetic Acid			
Benzo(a)pyrene	Lasso (Alachlor)		Radiologica	Contaminants		
	Mothoxychlor		Gross Alpha Emitters excluding Uranium			
Dife-Gainina			Combin	ed Radium		
Carbofuran	Oxamyl	ļŀ		anium		
Chlordane	Pentachlorophenol		Manakialania			
Dalapon	Picloram	1		al Contaminants		
Di(2-ethylbexyl) adipate	Polychlorinated Biphenys	1	Total	Coliform		
	Cimerine		E	.coli		
Di(2-ethylnexyl) phinalate	Simazine	ļļ	Other Regulated Contaminants			
Dinoseb	Toxaphene		Total Org	anic Carbon		
Diquat						
L		4	lu	rdidity		

Lead and Copper Sampled in the Distribution System													
Contaminant Name	Period	90th Percentile	Sample Size	Unit of Measure	90th Percentile Action Level	Sample Sites Above Action Limit	Standard Met	Typical Sources					
Copper	1/1/2023- 6/30/2023	50	113	ppb	1,300	0	yes	Corrision of household plumbing; erosion of natural deposits.					
Lead	1/1/2023- 6/30/2023	3.5	370	ppb	15	3	yes	Corrision of household plumbing; erosion of natural deposits.					
Copper	7/1/2023- 12/31/2023	60	343	ppb	1,300	0	yes	Corrision of household plumbing; erosion of natural deposits.					
Lead	7/1/2023- 12/31/2023	3.9	438	ppb	15	7	yes	Corrision of household plumbing; erosion of natural deposits.					

Denver Water Board

		Inorganic C	ontaminan	ts Detectec	l at the Ent	ry Point to t	he Distribu	tion System	- Foothills
Chemical Parameters	Year	Sampling Frequency	Average	Range	Unit of Measure	MCL	MCLG	Standard Met	Typical Sources
Barium	2023	Quarterly	39.4	36-42.5	ppb	2,000	2,000	yes	Erosion of natural deposits, discharge of drilling wastes.
Fluoride	2023	Monthly	618	540-740	ppb	4,000 (2,000 is SMCL)*	4,000	yes	Erosion of natural deposits, water additive that promotes strong teeth, discharge from fertilizer and aluminum factories.
Nitrate as N	2023	Monthly	91	BRL-170	ppb	10,000	10,000	yes	Runoff from fertilizer use, leaching from septic tanks and sewage, erosion of natural deposits
Nickel	2023	Quarterly	0.94	BRL-1.5	ppb	NA	NA	yes	Discharge from industrial uses such as transportation, chemical industry, electrical equipment and construction.
Sodium	2023	Quarterly	24,000	21,500- 27,000	ppb	NA	NA	yes	Naturally occurring.

*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.

	Summary of Turbidity Sampled at the Entry Point to the Distribution System - Foothills											
Chemical Parameters	Year	Sampling Frequency	Level Found	Unit of Measure	Treatment Technique Requirement	Standard Met	Typical Sources					
Turbidity	2023	Daily	Highest single measurement: 0.148 NTU (November)	NTU	Maximum 1 NTU for any one single measurement	yes	Soil runoff					
Turbidity	2023	Daily	Lowest monthly percentage of samples meeting TT requirement for our technology: 100%	NTU	In any month, at least 95% of samples must be less than 0.3 NTU	yes	Soil runoff					

Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbial 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.

Tota	Total Organic Carbon (Disinfection Byproducts Precursor) Removal Ratio of Raw and Finished Water - Foothills										
Chemical Parameters	Year	Frequency	Treatment Technique Retuirement	Standard Met	Typical Sources						
Total Organic Carbon Ratio	2023	Once per month	Denver Water uses enhanced treatment to remove the required amount of natural organic material and/or demonstrates compliance with alternative criteria.	yes	Natural organic matter present in the environment.						

Total organic arbon (TOC) has no health effects. However, total organic carbon provides a medium for the formation of disinfection byproducts including trihalomethanes (TTHMs) and haloacetic acids (HAA5s). Drinking water containing these byproducts in excess of the MCL may lead to adverse health effects, liver or kidney problems, or nervous system effects, and may lead to an increased risk of getting cancer.

	Radiologicals Detected at the Entry Point to the Distribution System - Foothills													
Chemical Parameters	Year	Sampling Frequency	Average	Range	Unit of Measure	MCL	MCLG	Standard Met	Typical Sources					
Combined Radium (Ra-226 and Ra-228)	2021	6-9 years	0.75	BRL-1.5	pCi/L	5	0	yes	Erosion of natural deposits, mine drainage, industrial or manufacturing discharges.					
Gross Alpha (excluding Uranium)	2023	6-9 years	3.4	1.1-5.6	pCi/L	15	0	yes	Erosion of natural deposits, mine drainage, industrial or manufacturing discharges					
Uranium	2023	Quarterly	0.2	BRL-05	ppb	30	0	yes	Erosion of natural deposits,mine drainage.					

	Inorganic Contaminants Detected at the Entry Point to the Distribution System - Marston													
Chemical Parameters	Year	Sampling Frequency	Average	Range	Unit of Measure	MCL	MCLG	Standard Met	Typical Sources					
Barium	2023	Quarterly	41.3	38.5- 47.4	ppb	2,000	2,000	yes	Erosion of natural deposits, discharge of drilling wastes					
Fluoride	2023	Monthly	584	480-680	ppb	4,000 (2,000 is SMCL)*	4,000	yes	Erosion of natural deposits, water additive that promotes strong teeth, discharge from fertilizer and aluminum factories					
Nitrate as N	2023	Monthly	45	BRL-190	ppb	10,000	10,000	yes	Runoff from fertilizer use, leaching from septic tanks and sewage, erosion of natural deposits					
Nickel	2023	Quarterly	0.17	BRL-1.0	ppb	NA	NA	yes	Discharge from industrial uses such as transportation, chemical industry, electrical equipment and construction					
Sodium	2023	Quarterly	22,633	21,400- 24,100	ppb	NA	NA	yes	Naturally occurring					

*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.

	Summary of Turbidity Sampled at the Entry Point to the Distribution System - Marston											
Chemical Parameters	Year	Sampling Frequency	Level Found	Unit of Measure	Treatment Technique Requirement	Standard Met	Typical Sources					
Turbidity	2023	Daily	Highest single measurement: 0.090 NTU (June)	NTU	Maximum 1 NTU for any one single measurement	yes	Soil runoff					
Turbidity	2023	Daily	Lowest monthly percentage of samples meeting TT requirement for our technology: 100%	NTU	In any month, at least 95% of samples must be less than 0.3 NTU	yes	Soil runoff					

Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbial 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.

Tot	Total Organic Carbon (Disinfection Byproducts Precursor) Removal Ratio of Raw and Finished Water - Marston										
Chemical Parameters	Year	Frequency	Treatment Technique Retuirement	Standard Met	Typical Sources						
Total Organic Carbon Ratio	2023	Once per month	Denver Water uses enhanced treatment to remove the required amount of natural organic material and/or demonstrates compliance with alternative criteria.	yes	Natural organic matter present in the environment						

Total organic arbon (TOC) has no health effects. However, total organic carbon provides a medium for the formation of disinfection byproducts including trihalomethanes (TTHMs) and haloacetic acids (HAA5s). Drinking water containing these byproducts in excess of the MCL may lead to adverse health effects, liver or kidney problems, or nervous system effects, and may lead to an increased risk of getting cancer.

	Radiologicals Detected at the Entry Point to the Distribution System - Marston													
Chemical Parameters	Year	Sampling Frequency	Average	Range	Unit of Measure	MCL	MCLG	Standard Met	Typical Sources					
Combined Radium (Ra-226 and Ra-228)	2021	6-9 years	0.95	BRL-1.9	pCi/L	5	0	yes	Erosion of natural deposits, mine drainage, industrial or manufacturing discharges					
Gross Alpha (excluding Uranium)	2023	6-9 years	0.8	0.5-1.1	pCi/L	15	0	yes	Erosion of natural deposits, mine drainage, industrial or manufacturing discharges					
Uranium	2023	Quarterly	0.5	BRL-0.8	ppb	30	0	yes	Erosion of natural deposits,mine drainage					

	Inorganic Contaminants Detected at the Entry Point to the Distribution System - Moffat												
Chemical Parameters	Year	Sampling Frequency	Average	Range	Unit of Measure	MCL	MCLG	Standard Met	Typical Sources				
Barium	2023	Quarterly	20.6	19.3- 22.4	ppb	2,000	2,000	yes	Erosion of natural deposits, discharge of drilling wastes				
Fluoride	2023	Monthly	598	260-710	ppb	4,000 (2,000 is SMCL)*	4,000	yes	Erosion of natural deposits, water additive that promotes strong teeth, discharge from fertilizer and aluminum factories				
Nitrate as N	2023	Monthly	38	BRL-130	ppb	10,000	10,000	yes	Runoff from fertilizer use, leaching from septic tanks and sewage, erosion of natural deposits				
Sodium	2023	Quarterly	11,317	9,800- 13,500	ppb	NA	NA	yes	Naturally occurring				

*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.

	Summary of Turbidity Sampled at the Entry Point to the Distribution System - Moffat												
Chemical Parameters	Year	Sampling Frequency	Level Found	Unit of Measure	Treatment Technique Requirement	Standard Met	Typical Sources						
Turbidity	2023	Daily	Highest single measurement: 0.203 NTU (July)	NTU	Maximum 1 NTU for any one single measurement	yes	Soil runoff						
Turbidity	2023	Daily	Lowest monthly percentage of samples meeting TT requirement for our technology: 100%	NTU	In any month, at least 95% of samples must be less than 0.3 NTU	yes	Soil runoff						

Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbial 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.

То	Total Organic Carbon (Disinfection Byproducts Precursor) Removal Ratio of Raw and Finished Water - Moffat										
Chemical Parameters	Year	Frequency	Treatment Technique Retuirement	Standard Met	Typical Sources						
Total Organic Carbon Ratio	2023	Once per month	Denver Water uses enhanced treatment to remove the required amount of natural organic material and/or demonstrates compliance with alternative criteria.	yes	Natural organic matter present in the environment						

Total organic arbon (TOC) has no health effects. However, total organic carbon provides a medium for the formation of disinfection byproducts including trihalomethanes (TTHMs) and haloacetic acids (HAA5s). Drinking water containing these byproducts in excess of the MCL may lead to adverse health effects, liver or kidney problems, or nervous system effects, and may lead to an increased risk of getting cancer.

Radiologicals Detected at the Entry Point to the Distribution System - Moffat												
Chemical Parameters	Year	Sampling Frequency	Average	Range	Unit of Measure	MCL	MCLG	Standard Met	Typical Sources			
Combined Radium (Ra-226 and Ra-228)	2021	6-9 years	1.1	BRL-2.1	pCi/L	5	0	yes	Erosion of natural deposits, mine drainage, industrial or manufacturing discharges			
Gross Alpha (excluding Uranium)	2023	6-9 years	3	1.1-4.8	pCi/L	15	0	yes	Erosion of natural deposits, mine drainage, industrial or manufacturing discharges			
Uranium	2023	Quarterly	BRL	BRL	ppb	30	0	yes	Erosion of natural deposits,mine drainage			

The following	he following data tables provide regulated contaminants in Denver Water's distribution system.												
Name	Year	Sampling Frequency	MCL	MCLG	Unit of Measure	Highest Monthly Percentage	Number of Positives	Standard Met	Typical Sources				
Total Coliform (T. coli)	2023	Daily	No more than 5% positive per month	0	Present/ Absent	0.51% (present T. coli), Aug 2023	2 out of 4,534 total samples (0.04%); 0 E.coli positive samples	Yes	Naturally present in the environment				

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	Disinfectants Sampled in the Distribution System*												
Name	Year	Results	Number of Samples Below Level	Frequency	MRDL	Standard Met	Typical Sources						
Disinfectant as Total C12	2023	Lowest period percentage of samples above 0.2 ppm: 100%	0	Daily	4.0 PPM	yes	Drinking water disinfectant used to control microbial growth						

*Treatment technique requirement: at least 95% of samples per period (month or quarter) must be at least 0.2 ppm.

Disinfectant Byproducts Sampled in the Distribution System												
Name	Year	Sampling Frequency	Highest Locational RAA	Range	Unit of Measure	MCL	MCLG	Standard Met	Typical Sources			
Total Trihalometh- anes (TTHM)	2023	Quarterly	38.5	23.9-73.5	ppb	80	n/a	yes	Byproduct of drinking water disinfection			
Haloacetic Acids (HAA5s)	2023	Quarterly	21.9	14.3-40.5	ppb	60	n/a	yes	Byproduct of drinking water disinfection			

The data tables below provide information on unregulated parameters that were detected in the Denver Water distribution system.

Water	Quality	Parameters v	vith Secondar	y Maximum	i Contamina	ant Leve	els Sampl	ed in the Di	stribution System
Name	Year	Sampling Frequency	Average	Range	Unit of Measure	MCL	SMCL*	Standard Met	Typical Sources
Aluminum	2023	Quarterly	32.8	15-126	ppb	n/a	50-200	yes	Erosion of natural deposits
Chloride	2023	Quarterly	20,450	5,000- 28,800	ppb	n/a	250,000	yes	Naturally occurring; road salt
Copper	2023	Quarterly	3.2	BRL-18.9	ppb	n/a	1,000	yes	Corrosion of household plumbing; erosion of natural deposits
Iron	2023	Quarterly	3	BRL-300	ppb	n/a	300	yes	Naturally occurring
Manganese	2023	Quarterly	4	BRL-18.4	ppb	n/a	50	yes	Naturally occurring
Sulfate	2023	Quarterly	58,800	19,000- 94,000	ppb	n/a	250,000	yes	Naturally occurring
Zinc	2023	Quarterly	4.3	BRL-17	ppb	n/a	5,000	yes	Naturally occurring

*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.

	Additional Water Quality Parameters Sampled in the Distribution System												
Name	Name Year Sampling Frequency Average Range Unit of Measure Typical Sources												
Alkalinity	2023	Monthly	59,900	43,000-80,000	ppb	Erosion of natural deposits							
Total Hardness	2023	Quarterly	91,800	50,000-110,000	ppb	Erosion of natural deposits							
Conductivity	2023	Quarterly	306	150-440	us/cm	Naturally occurring							
Potassium	2023	Quarterly	2,100	810-2,700	ppb	Erosion of natural deposits							
Calcium	2023	Quarterly	27,100	15,900-31,600	ppb	Erosion of natural deposits							
Magnesium	2023	Quarterly	6,900	2,320-10,100	ppb	Erosion of natural deposits							
Boron	2023	Quarterly	15.2	BRL-30.6	ppb	Erosion of natural deposits							

These parameters do not have an EPA MCL or SMCL, but can be helpful in understanding the buffering capacity and mineral content of the water. Some applications of these parameters include understanding scale build-upon water fixtures, caring for a home aquarium or brewing beer.

Since 1996, the Environmental Protection Agency, through its Unregulated Contaminant Monitoring Rule, every five years requires water utilies across the country to test for a list of substances that are suspected of being in drinking water but are not currently regulated under the Safe Drinking Water Act. Utilities report their test results to the EPA, which uses the information to learn more about the presence of these substances and decide whether they should be regulated in the future to protect public health.

Derver Water's 2023 test results were reported to the EPA as required. The data tables below include substances that were detected during Derver Water's tests and the levels at which they were found. The American Water Works Association has more information about the rule and the process on its website: drinktap.org/Water-Info/Whats-in-My-Water/Urregulated-Contaminant-Moni-toring-Rule-UCMR. Information about the rule also can be found on the EPA's website at www.epa.gov/dwucmr/learn-about-unregulated-contaminant-monitoring-rule or you can contact the Safe Drinking Water Hotline at 800-426-4791 or water.epa.gov/drink/contact.cfm.

UCMR5: PFAS Contaminants Sampled at En	try Point to	o the Distril	oution Sys	tem - All Treatmen	t Plants
Chemical Parameters	Year	Average	Range	Unit of Measure	Minimum Reporting Level
11-chloroeicosafluoro-3-oxaundecane-1-sulfonicacid (11Cl- PF3OUdS)	2023	BRL	BRL	ppb	0.005
1H, 1H, 2H, 2H-perfluorohexane sulfonic acid (4:2FTS)	2023	BRL	BRL	ppb	0.003
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2FTS)	2023	BRL	BRL	ppb	0.005
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	2023	BRL	BRL	ppb	0.005
9-chlorohexadecalfluoro-3-oxanonane-1-sulfonic acid (9Cl- PF3ONS)	2023	BRL	BRL	ppb	0.002
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	2023	BRL	BRL	ppb	0.003
Hexafluoropropylene oxide dimer acid (HFPO DA)	2023	BRL	BRL	ppb	0.005
Nonafluro-3,6-dioxaheptanoic acid (NFDHA)	2023	BRL	BRL	ppb	0.02
Perfluorobutanoic acid (PFBA)	2023	BRL	BRL	ppb	0.005
Perfluorobutanesulfonic acid (PFBS)	2023	BRL	BRL	ppb	0.003
Perfluorodecanoic acid (PFDA)	2023	BRL	BRL	ppb	0.003
Perfluorododecanoic acid (PFDoA)	2023	BRL	BRL	ppb	0.003
Perfluoro (2-ethoxyethane)sulfonic acid (PFEESA)	2023	BRL	BRL	ppb	0.003
Perfluoroheptanesulfonic acid (PFHpS)	2023	BRL	BRL	ppb	0.003
Perfluoroheptanoic acid (PFHpA)	2023	BRL	BRL	ppb	0.003
Perfluorohexanoic acid (PFHxA)	2023	BRL	BRL	ppb	0.003
Perfluorohexanesulfonic acid (PFHxS)	2023	BRL	BRL	ppb	0.003
Perfluoro-4-methoxybutanoic acid (PFMBA)	2023	BRL	BRL	ppb	0.003
Perfluoro-3-methoxypropanoic acid (PFMPA)	2023	BRL	BRL	ppb	0.004
Perfluorononanoic Acid (PFNA)	2023	BRL	BRL	ppb	0.004
Perfluorooctanoic acid (PFOA)	2023	BRL	BRL	ppb	0.004
Perfluorooctanesulfonic acid (PFOS)	2023	BRL	BRL	ppb	0.004
Perfluoropentanoic acid (PFPeA)	2023	BRL	BRL	ppb	0.003
Perfluoropentanesulfonic acid (PFPeS)	2023	BRL	BRL	ppb	0.004
Perfluoroundecanoic acid (PFUnA)	2023	BRL	BRL	ppb	0.002
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2023	BRL	BRL	ppb	0.005
N-methyl perfluorooctanesulfoamidoacetic acid (NMeFOSAA)	2023	BRL	BRL	ppb	0.006
Perfluorotetradecanoic acid (PFTA)	2023	BRL	BRL	ppb	0.008
Perfluorotridecanoic acid (PFTrDA)	2023	BRL	BRL	ppb	0.007

Water at all three treatment plant entry points (Foothills, Marston and Moffat) tested below the minimum reporting levels for per- and polyfluoroalkyl substances (PFAS).

UCMR5 Lithium Contaminant Samples at Entry Point to the Distribution System												
Chemical Parameters	Plant	Year	Average	Range	Unit of measure	Minimum Reporting Level						
Lithium	Foothills	2023	5.3	BRL-10.8	ppb	9						
Lithium	Marston	2023	9.23	9-9.4	ppb	9						
Lithium	Moffat	2023	BRL	BRL	ppb	9						



We are pleased to present to you this year's water quality report for the City of Aurora service area. Our constant goal is to provide you with a safe and dependable supply of drinking water. Please contact Ortilano Bobby Oligo at 303-739-6740 with any questions or for public participation opportunities that may affect the City of Aurora's water quality. Please see the water quality data from 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 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 healthcare 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 stormwater 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 stormwater 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 stormwater runoff and septic systems.

In order to ensure 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 Ortilano Bobby Oligo at 303-739-6740. 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 the ECCV 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 103005, AURORA CITY OF, or by contacting Ortilano Bobby Oligo at 303-739-6740. 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 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 below.

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.

Sources (water type - source type)

NC VW10A (Groundwater UDI Surface Water-Well) NC VW10 (Groundwater UDI Surface Water-Well) NC VW11 (Groundwater UDI Surface Water-Well) NC VW12 (Groundwater UDI Surface Water-Well) NC VW13 (Groundwater UDI Surface Water-Well) NC VW14 (Groundwater UDI Surface Water-Well) NC VW15 (Groundwater UDI Surface Water-Well) NC VW 16 (Groundwater UDI Surface Water-Well) NC VW18 (Groundwater UDI Surface Water-Well) NC VW19 (Groundwater UDI Surface Water-Well) NC VW20 (Groundwater UDI Surface Water-Well) NC VW21 (Groundwater UDI Surface Water-Well) NC VW22 (Groundwater UDI Surface Water-Well) NC VW23 (Groundwater UDI Surface Water-Well) NC VW24 (Groundwater UDI Surface Water-Well) NC VW25 (Groundwater UDI Surface Water-Well) NC VW 26 (Groundwater UDI Surface Water-Well) CC 1R (Groundwater UDI Surface Water-Well) CC 2R (Groundwater UDI Surface Water-Well) CC 4R (Groundwater UDI Surface Water-Well) CC 5R (Groundwater UDI Surface Water-Well)

CC SA6R (Groundwater UDI Surface Water-Well) LFH1 (Groundwater-Well) NC VW 19A (Groundwater UDI Surface Water-Well) NC VW 10B (Groundwater UDI Surface Water-Well) NC VW 11A (Groundwater UDI Surface Water-Well) NC VW 28 (Groundwater UDI Surface Water-Well) NC VW 29 (Groundwater UDI Surface Water-Well) NC VW 30 (Groundwater UDI Surface Water-Well) NC VW 31 (Groundwater UDI Surface Water-Well) NC VW 32 (Groundwater UDI Surface Water-Well) NC VW 27 (Groundwater UDI Surface Water-Well) NC VW 12A (Groundwater UDI Surface Water-Well) CC 3R (Groundwater UDI Surface Water-Well) NC VW 18A (Groundwater UDI Surface Water-Well) RAMPART SOUTH PLATTE RESERVIOR (Surface Water-Intake) QUINCY RESERVIOR (Surface Water-Intake) AURORA RESERVIOR (Surface Water-Intake) DA1 WELL (Groundwater-Well) DA2 WELL (Groundwater-Well) DA3 WELL (Groundwater-Well) NC VW 16A (Groundwater UDI Surface Water-Well)

Potential Source(s) of Contamination:

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, 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

Detected Contaminants

AURORA 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 five 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 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	Sample Date	Units	TT Requirement	Average Level Detected	Range	TT Violation	MRDL	Typical Sources			
Chlorine Residual (Chloramines)	Chlorine Residual (Chloramines)DailyppmAtleast 95% of samples per month must be atleast 0.2 ppm1.71 - 100% of samples were >0.2 ppm0.44 to 2.20No4Water additive to control microbes										
Chlorine Dioxide	Daily	ppb	n/a	34	0 to 200	No	800	Water additive to control microbes			

Lead and Copper Sampled in the Distribution System									
Contaminant Name	Time Period	90th Percentile	Sample Size	Unit of Measure	90th Percentile AL	Sample Sites Above AL	90th Percentile AL Exceedance	Typical Sources	
Copper	June through Sept. 2021	0.06	217	ppm	1.3	0	No	Corrosion of household plumbing systems	
Lead	June through Sept. 2021	1.3	217	ppb	15	0	No	Corrosion of household plumbing systems	

Disinfection Byproducts Sampled in the Distribution System									
Name	Sample Date	Average	Range Low-High	Unit of Measure	MCL	MCLG	MCL Violation	Typical Sources	
Haloacetic Acids	Quarterly	17.43	3.95 to 65.1	ppb	60	N/A	No	Byproduct of drinking water disinfection	
Trihalomethanes (TTHM)	Quarterly	25.22	16.1 to 58.4	ppb	80	N/A	No	Byproduct of drinking water disinfection	
Chlorite	Quarterly	0.47	0.15 to 0.62	ppm	1.0	0.8	No	Byproduct of drinking water disinfection	

Total Organic Carbon (Disinfection Byproducts Precursor) Removal Ratio of Raw and Finished Water								
Contaminant Name	Year	Average	Range Low-High	Sample Date	Unit of Measure	TT Minimum Ratio	TT Violation	Typical Sources
Total Organic Carbon	2023	2.31	1.33 to 5.36	Monthly	Ratio	1.00	No	Naturally present in the environment

*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	May	Highest single measurement: 0.078 NTU	Maximum 1 NTU for any single measurement	No	Soil Runoff				
Turbidity		100% of samples were less than 0.3 NTU	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
Combined Radium (-226 & -228)	2022	0.19	0.19 to 0.19	1	pCi/L	5	0	No	Decay of natural and man-made deposits

Inorganic Contaminants Sampled at the Entry Point to the Distribution System									
Contaminant Name	Year	Average	Range Low-High	Unit of Measure	MCL	MCLG	MCL Violation	Typical Sources	
Arsenic	2023	0.11	<0.5 to 0.63	ppb	10	0	No	Erosion of natural deposits	
Barium	2023	37.9	30.8 to 47.3	ррb	2000	2000	No	Erosion of natural deposits	
Fluoride	2023	0.72	0.60 to 0.91	ppm	4	4	No	Erosion of natural deposits	
Nitrate	2023	0.34	<0.3 to 1.4	ppm	10	10	No	Runoff from fertilizer use and erosion of natural deposits	
Selenium	2023	0.56	<0.5 to 1.35	ppb	50	50	No	Erosion of natural deposits	

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 corresponding analytical results are provided below.

***More information about the contaminants that included in UCMR were 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-unregulatedcontaminant-monitoring-rule or contact the Safe Drinking Water Hotline at (800) 426-4791 or epa.gov/ground-water-and-drinking-water.

Contaminant Name	Units	Average Level Detected	Range Low-High	Sample Date	Typical Source of Contamination
Perfluorobutanoic Acid (PFBA)	ppt	0.78	<4.5 to 7.8	2023	PFAS are a group of synthetic chemicals used in a wide range of consumer products and indus-
Perfluorobutanesulfonic Acid (PFBS)	ppt	0.33	<2.7 to 3.3	2023	trial applications including: non-stick cookware, water-repellent clothing, stain-resistant fabrics and carpets cosmetics firefighting foams elec-
Perfluorohexanoic Acid (PFHxA)	ppt	0.56	<2.7 to 5.6	2023	troplating, and products that resist grease, water, and oil. PFAS are found in the blood of people
Perfluoropentanoic Acid (PFPeA)	ppt	0.72	<2.7 to 7.2	2023	and animals and in water, air, fish and soil at locations across the United States and the world.
Lithium	ppb	7.8	<9 to 21.4	2023	Naturally occurring metal that may concentrate in brine waters; lithium salts are used as pharmaceuticals, used in electrochemical cells, batteries, and in organic syntheses

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	Units	SMCL	Average Level Detected	Range	Sample Date	Typical Source of Contamination		
Alkalinity (as CaCO3)	ppm	n/a	73.9	49.6 to 120	Daily	Water quality parameter		
Aluminum	ppb	50 to 200 mg/L	46.6	2.84 to 79.4	Quarterly	Erosion of natural deposits and treatment chemicals		
Calcium	ppm	n/a	35.8	18.6 to 57.8	Weekly	Erosion of natural deposits		
Chloride	ppm	250	50	24 to 98	Monthly	Erosion of natural deposits		
Conductivity	umhos/ cm	n/a	509	233 to 787	Weekly	Water quality parameter		
Total Dissolved Solids (TDS)	ppm	500	215	124 to 392	Monthly	Water quality parameter		
Hardness (as CaCO3)	ppm	n/a	115	68 to 150	Daily	Erosion of natural deposits		
Hardness-CA (as CaCO3)	ppm	n/a	89.4	46.4 to 145	Weekly	Erosion of natural deposits		
Iron	ppb	300	<10	<10	Quarterly	Erosion of natural deposits		
Manganese	ppb	50	1.03	0.534 to 2.09	Quarterly	Erosion of natural deposits		
pН	SU	6.5 to 8.5	8.1	7.9 to 8.3	Daily	Water quality parameter		
Sodium	ppm	10,000	40.6	17.8 to 86.1	Yearly	Erosion of natural deposits		
Sulfate	ppm	250	69	36 to 109	Monthly	Erosion of natural deposits		
Zinc	ppb	5000	1.97	<0.5 to 6.57	Quarterly	Erosion of natural deposits		

Violations, Significant Deficiencies and Formal Enforcement Actions No Violations or Formal Enforcement Actions



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