

2019 Highlands Ranch Water Quality Report

The Water Quality Data Table to the right contains many terms and abbreviations that may be unfamiliar. The following definitions should help you better understand these terms:

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

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 Contaminant Level (MCL): The highest level of a contaminant allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

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.

Maximum Residual Disinfectant Level (MRDL): The highest level of a disinfectant allowed in drinking water. The addition of a disinfectant is necessary for control of microbial contaminants.

Nephelometric Turbidity Unit (NTU): Nephelometric turbidity unit is a measure of the clarity of water. Turbidity in excess of five NTU is visually noticeable to the average person.

Non-detect (ND): Laboratory analysis indicates the constituent was not detected above laboratory detection limits.

Parts per million (ppm): One part per million corresponds to one minute in two years, or a single penny in \$10,000.

Parts per billion (ppb): One part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.

PicoCuries per Liter (pCi/L): A measure of radioactivity in water.

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

Running Annual Average (RAA): An average of monitoring results for the previous 12 calendar months calculated each quarter.

Secondary Maximum Contaminant Level (SMCL): Non-enforceable, recommended limits for substances that affect the taste, odor, color or other aesthetic qualities of drinking water, but do not pose a health risk.

Not Available (NA)

Results of Lead Monitoring

Pregnant women and young children are typically more vulnerable to lead in drinking water than the general population. It is possible lead levels at your home may be higher than other homes in the community as a result of materials used in your home's plumbing. If you are concerned about elevated lead levels in your home's water, you may wish to have your water tested and flush your tap for 30 seconds to two minutes before using tap water. Additional information is available from the Safe Drinking Water Hotline at 1-800-426-4791 or online at epa.gov/safewater/lead.

Centennial Water and Sanitation District's Water Quality Data Table

PWSID # CO 0118015

The table below lists all of the drinking water contaminants detected during the calendar year of this report. The presence of contaminants in water does not necessarily indicate the water poses a health risk. Unless otherwise noted, the data presented in this table is from testing done from January 1 to December 31, 2018. According to either EPA or state requirements, certain contaminants may be monitored less than once per year because the concentrations of these contaminants do not change frequently. The state has issued waivers for monitoring asbestos, cyanide, dioxin and glyphosate.

Regulated Copper and Lead (2017)	Results at the 90th Percentile	AL	MCLG	Meets EPA Standards	Likely Source
Copper (ppm) (0 of 37 samples exceeded the AL)	0.38	1.3	1.3	Yes	Corrosion of household plumbing systems
Lead (ppb) (0 of 37 samples exceeded the AL)	3.3	15	0	Yes	Corrosion of older household plumbing systems

Regulated Disinfectants and Disinfection Byproducts	Range (all data)	Highest Locational RAA Level	MCL	MCLG	Meets EPA Standards	Likely Source
Chloramines (ppm)	0.75-3.6	NA	4 (MRDL)	4 (MRDLG)	Yes	Water additive used to control microbes
Haloacetic Acids (ppb)	8.10-18.00	14.7	60	NA	Yes	Byproduct of drinking water disinfection
Total Trihalomethanes (ppb)	18.1-41.9	36.3	80	NA	Yes	Byproduct of drinking water disinfection

Regulated Radioactive Substances	Range	Average Level	MCL	MCLG	Meets EPA Standards	Likely Source
Gross Beta (pCi/L) Particle Activity	0.0-8.2	4.5	50	0	Yes	Decay of natural and man-made deposits
Radium (combined 226/228) (pCi/L)	0.9-3.5	2.1	5	0	Yes	Erosion of natural deposits
Combined Uranium (ppb)	0.0-5.2	2.1	30	0	Yes	Erosion of natural deposits
Gross Alpha (pCi/L)	0.7-3.9	2.7	15	0	Yes	Erosion of natural deposits

Regulated Microbiological	Range	Highest Level	MCL	MCLG	Meets EPA Standards	Likely Source
Total Coliform (% positive samples/month)	0-1	1	5	0	Yes	Naturally present in the environment

Disinfection Byproducts	Range	Average Level	TT Minimum Ratio	Meets TT Requirements?	Likely Source
Total Organic Carbon Ratio	1.09-3.33	2.26	1.0	Yes	Natural organic material that is present in the environment.

Regulated Inorganic Substances	Range	Average Level	MCL	MCLG	Meets EPA Standards	Likely Source
Barium (ppb)	56-68	62	2,000	2,000	Yes	Erosion of natural deposits
Fluoride (ppm)	0.87-0.89	0.88	4	4	Yes	Erosion of natural deposits
Nitrate (ppm)	<0.1-0.1	<0.1	10	10	Yes	Erosion of natural deposits
Arsenic (ppb)	<1.0-1.0	<1.0	10	0	Yes	Erosion of natural deposits

Other Monitoring	Range	Average Level	MCL	MCLG	Likely Source
Nickel (ppb)	<1.0-2.0	<1.0	NA	NA	Naturally present in the environment
Sodium (ppm)	30.7-47.8	41.2	NA	NA	Naturally present in the environment
Total Dissolved Solids (ppm)	176-570	387	500 (SMCL)	NA	Erosion of natural deposits

*Regulated Turbidity	Sample Date	Level Found	TT Requirement	Likely Source
Turbidity (NTU)	June 2018	Highest single measurement: 0.09	Maximum 1 NTU for any single measurement.	Soil runoff
Turbidity (%)	Every 4 hours	Lowest monthly percentage of samples less than 0.3	In any month, at least 95% of samples must be less than 0.3 NTU.	Soil runoff

*Centennial Water samples the treated water every four hours for turbidity. In 2018, the highest turbidity reading was 0.09 NTU and 100 percent of all samples taken in 2018 were below the standard of 0.3 NTU.

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If you have questions about this report or your water services, please contact Centennial Water at 303-791-2185, ext. 3523. We want you, our valued customer, to be informed about your water utility.