



**EAGLE RIVER
WATER & SANITATION
DISTRICT**

2019

**Consumer
Confidence
Report**

Clean Water. Quality Life.™

846 FOREST ROAD . VAIL, CO 81657 . 970.476.7480 . ERWSD.ORG

PUBLIC WATER SYSTEM ID # CO0119802

Esta es información importante. Si no la pueden leer, necesitan que alguien se la traduzca.

Clean Water. Quality Life.™

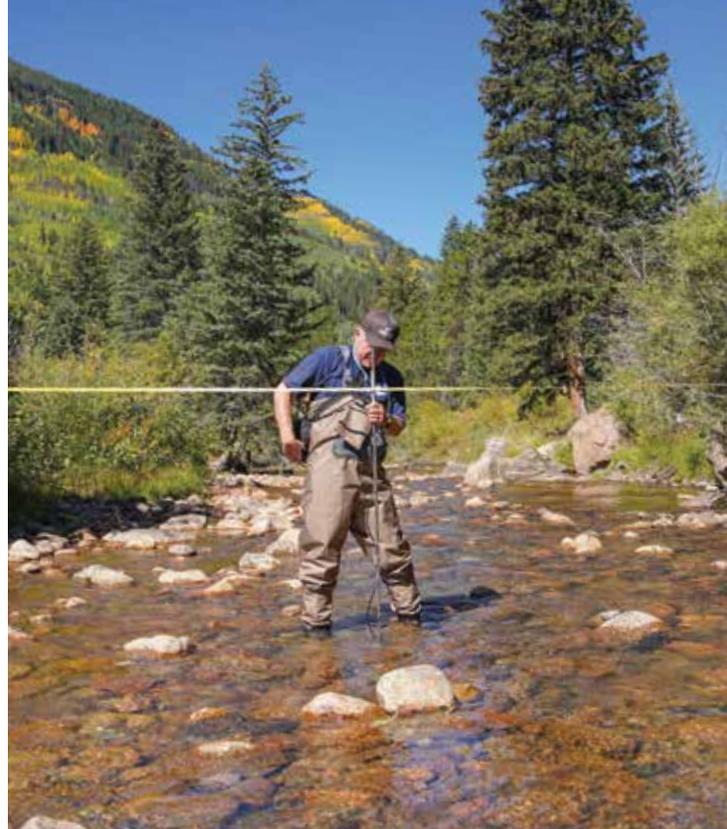
Eagle River Water & Sanitation District (ERWSD) is pleased to present this Consumer Confidence Report, which details the quality water and services we deliver to you every day. Our constant goal is to provide you with a safe and dependable supply of drinking water. The ERWSD system is interconnected with the Upper Eagle Regional Water Authority (UERWA) public water system. For more information about your drinking water, please see both entities' water quality data reports, available online at erwsd.org.



Groundwater wells in the Gore Creek Alluvial Aquifer supply our water. Five wells in the area around the Vail Golf Course, each approximately 100 feet deep, can produce 7.5 million gallons per day, and two wells in the Matterhorn area of West Vail, each approximately 60 feet deep, can produce 0.749 million gallons per day. Also, a microfiltration plant that is supplied by surface water from Gore Creek upstream of the confluence with Black Gore Creek, can produce 1 million gallons per day. A connection to UERWA's surface water system through Dowd Junction can provide an additional 1.2 million gallons per day of treated water.

It is important that our valued customers be informed about their water utility. Please contact the Customer Service department at **(970) 477-5451** with questions about this report or to schedule a tour of our facilities.

Federal regulations require that this report be distributed to all ERWSD and UERWA water customers. Our goal is to provide you with safe and high quality drinking water. **ERWSD's and UERWA's drinking water meets or surpasses all federal and state drinking water standards.**



What's in your water before we treat it?

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, such as viruses and bacteria that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

Inorganic contaminants, such as 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 that may come from a variety of sources, such as agriculture, urban stormwater runoff, and residential uses.

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.

Radioactive contaminants that can be naturally occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, the U.S. Environmental Protection Agency (EPA) and the Colorado Department of Public Health and Environment prescribe regulations limiting the amount of certain contaminants in water provided by public water systems. The U.S. Food and Drug Administration regulations establish limits for contaminants in bottled water that must provide the same protection for public health.

Our facilities are designed to treat for known contaminants in our watershed and to meet or surpass federal and state requirements. Please contact the Customer Service department at (970) 477-5451 to learn more about our water supply system or with questions about any of the information presented.

Source Water Assessment & Protection

A source water assessment has been completed by the State of Colorado. Consumers can obtain a copy of this assessment by going to the state's Source Water Assessment and Protection website at: <https://www.colorado.gov/pacific/cdphe/swap-assessment-phase> or by contacting the Customer Service department at (970) 477-5451.

ERWSD continuously monitors its water sources, and is committed to delivering finished drinking water of the highest quality.

Our source water area includes one surface water treatment facility and seven groundwater wells. Potential sources of contamination in our source water area include: above ground, underground, and leaking storage tank sites; existing/abandoned mine sites; EPA hazardous waste generators; high and low intensity residential; commercial/industrial/transportation; pasture/hay; septic systems; road miles; other facilities; and deciduous, evergreen, and mixed forests.

The Source Water Assessment Report provides a screening-level evaluation of potential contamination that **could** occur. It does not mean that the contamination **has or will** occur. We can use this information to evaluate the need to improve our current water treatment capabilities and prepare for future contamination threats. This can help us ensure that quality finished water is delivered to your homes. ERWSD is currently using the source water assessment results to develop a comprehensive Source Water Protection Plan to help us further protect our community's valuable drinking water sources.



At the 2018 GoPro Mountain Games. Photo by Rick Lohre courtesy of Vail Valley Foundation.

Important Health Information

Some people may be more vulnerable to contaminants in drinking water than the general population.

Immuno-compromised 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 from infections. These people should seek advice about drinking water from their health care providers. EPA and U.S. Centers for Disease Control guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Drinking Water Hotline (1-800-426-4791).

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 EPA's Safe Drinking Water Hotline (1-800-426-4791) or by visiting epa.gov/ground-water-and-drinking-water.

If present, elevated levels of lead can cause serious health problems (especially for pregnant women and young children). It is possible that 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 lead in your water, you may wish to have your water tested. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. Additional information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline (1-800-426-4791) or at epa.gov/safewater/lead.



2019

Water Quality Testing Results

ERWSD routinely monitors for contaminants in your drinking water according to federal and state laws. The table below shows all detections found in the period of **January 1 to December 31, 2019**, unless otherwise noted. All are below allowed levels. The table below only lists detected contaminants; those **that were tested for, but not detected**, include all synthetic organic, inorganic, and volatile organic contaminants regulated under the Safe Drinking Water Act.

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 these types of contamination. Therefore, some of our data, though representative, may be more than one year old. Also, if only one sample was required then the range and level detected will be listed with only a single value.

The 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. The EPA uses the results of UCMR monitoring to learn the occurrence of unregulated contaminants in drinking water and to decide whether or not these contaminants will be regulated in the future. ERWSD performed this monitoring and reported the analytical results of the monitoring to the EPA in accordance with its UCMR. Once the EPA reviews these submitted results, the results are made available in the EPA's Natural Contaminant Occurrence Database (NCOD). Consumers can view UCMR results by accessing the NCOD online. Contaminants that were detected during our UCMR sampling and the corresponding analytical results are provided in the data table below.

OPERATIONS & MANAGEMENT

Your Public Water System is owned, operated, and maintained by Eagle River Water & Sanitation District, a local government. ERWSD, a quasi-municipal corporation and political subdivision of the state of Colorado, is governed pursuant to provisions of the Colorado Special District Act.

A seven-member publicly elected board of directors is responsible for the overall management and administration of the affairs of ERWSD. Board meetings are open to the public and are generally scheduled for the fourth Thursday of each month. The board meeting schedule and other ERWSD information is available at erwsd.org or by calling (970) 477-5451.

TERMS & ABBREVIATIONS

The following definitions explain the many terms and abbreviations, which may be unfamiliar, that are used in this report.

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

Below Detection Level (BDL): See "Non-Detects."

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

Maximum Contaminant Level Goal (MCLG): The "goal" is 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): A measure of the clarity of water. Turbidity in excess of five NTU is just noticeable to the average person.

90th Percentile: 90% of results are below this number.

Non-Detects (ND) or Below Detection Level (BDL): Laboratory analysis indicates that the constituent is not present ("<") Symbol for less than, the same as ND or BDL).

Not Tested (NT): Not tested.

Parts per million (ppm) or Milligrams per liter (mg/l): One part per million corresponds to one minute in two years or one penny in \$10,000.

Parts per billion (ppb) or Micrograms per liter (µg/l): One part per billion corresponds to one minute in 2,000 years, or one penny in \$10,000,000.

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

Running Annual Average (RAA): An average of monitoring results for the previous 12 calendar months. **LRAA** is a locational RAA specific to a monitoring site.

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

Variations and Exemptions: State permission not to meet an MCL or a treatment technique under certain conditions.

Waiver: State permission not to test for a specific contaminant.

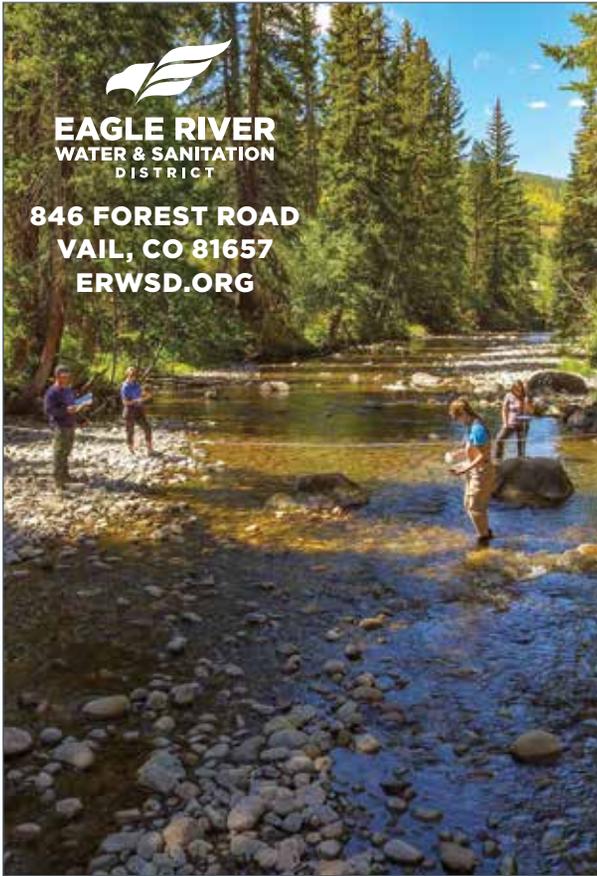
VIOLATIONS

ERWSD received two violations in 2019, both attributed to an inadequate backflow protection and cross connection control (BPCCC) program. The violations were for failures to 1) comply with the requirements for surveying our system for cross connections and 2) complete the testing requirements for backflow prevention devices. Uncontrolled cross connections can lead to inadvertent contamination of the drinking water.

Since receiving the violations, ERWSD has been working to improve our BPCCC program. ERWSD has achieved compliance with the 2019 cross-connection surveying requirements and is working to achieve compliance with the testing requirements by Dec. 31, 2020, which is the end of the next compliance period. ERWSD will continue to distribute quarterly notification letters to all customers with progress updates until full compliance is achieved.

MICROBIOLOGICAL CONTAMINANTS	VIOLATION	SAMPLE FREQUENCY	MCL OR TT	MCLG	CCR UNITS	LEVEL DETECTED	LIKELY SOURCE OF CONTAMINATION		
Total Coliform Bacteria	No	Monthly	System collects < 40 samples: 1 positive monthly sample.	0	Absent or Present	0	Naturally present in the environment		
Fecal Coliform & E. Coli	No	On Positive Total Coliform	A violation occurs when a routine sample and a repeat sample, in any given month, are total coliform positive, and one is also fecal coliform or E. Coli positive.	0	Absent or Present	0	Human and animal fecal waste		
Turbidity	No	Monthly	Maximum 0.5 NTU for any single measurement.	N/A	NTU	Highest single measurement 0.05 (June)	Soil runoff		
	No	Monthly	In any month, at least 95% of samples must be below 0.1 NTU.	N/A	%	100% TT requirement met	Soil runoff		
RADIONUCLIDE CONTAMINANTS	VIOLATION	SAMPLE DATE	MCL	MCLG	CCR UNITS	LEVEL DETECTED (AVERAGE)	RANGE	LIKELY SOURCE OF CONTAMINATION	
Gross Alpha Emitters	No	Nov. 2018	15	0	pCi/L	1.3	1.1 - 1.6	Erosion of natural deposits	
Combined Uranium	No	Nov. 2018	30	0	ppb	2.0	1.7 - 2.4	Erosion of natural deposits	
COPPER & LEAD CONTAMINANTS	EXCEEDS AL	SAMPLE DATE	90TH PERCENTILE ACTION LEVEL	MCLG	CCR UNITS	90TH PERCENTILE	SAMPLE SITES ABOVE AL	LIKELY SOURCE OF CONTAMINATION	
Copper	No	June - Aug. 2019	1.3	1.3	ppm	0.5	1	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives	
Lead	No	June - Aug. 2019	15	0	ppb	2.3	1	Corrosion of household plumbing systems; erosion of natural deposits	
TREATMENT DISINFECTION	TT-VIOLATION	SAMPLE FREQUENCY	TT REQUIREMENT	MRDL	SAMPLES BELOW TT LEVEL	CCR UNITS	SAMPLE SIZE	RANGE	LIKELY SOURCE OF CONTAMINATION
Chlorine in the distribution system	No	Monthly	No more than 1 sample below 0.2 ppm	4.0	0	ppm	250/year	0.60 - 1.82	Water additive used to control microbes
ORGANIC & INORGANIC CONTAMINANTS	VIOLATION	SAMPLE DATE	MCL	MCLG	CCR UNITS	LEVEL DETECTED (AVERAGE)	RANGE	LIKELY SOURCE OF CONTAMINATION	
Barium	No	Oct. 2019	2	2	ppm	0.07	0.07	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits	
Fluoride	No	Oct. 2019	4	4	ppm	0.19	0.19	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories	
Nitrate	No	Oct. 2019	10	10	ppm	0.39	0.12 - 0.78	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits	
Sodium	N/A	Oct. 2019	N/A - Sodium has secondary standards which are non-enforceable guidelines for contaminants that may cause cosmetic or aesthetic effects, but no health effects.		ppm	6.2	6.2	Erosion of natural deposits; road salt; water treatment chemicals; wastewater treatment effluents	
VOLATILE ORGANIC CONTAMINANTS	VIOLATION	SAMPLE FREQUENCY	MCL	MCLG	CCR UNITS	LEVEL DETECTED (AVERAGE)	RANGE	LIKELY SOURCE OF CONTAMINATION	
Xylenes	No	Quarterly	10,000	10,000	ppb	0.13	BDL - 0.50	Discharge from petroleum and chemical factories	
DISINFECTION BYPRODUCT CONTAMINANTS	VIOLATION	SAMPLE FREQUENCY	MCL	MCLG	CCR UNITS	LEVEL DETECTED (AVERAGE)	HIGHEST LRAA	RANGE	LIKELY SOURCE OF CONTAMINATION
Total Trihalomethanes	No	Quarterly	80	N/A	ppb	7.07	10.0	1.8 - 26	Byproduct of drinking water chlorination
Total Haloacetic Acids	No	Quarterly	60	N/A	ppb	0.94	3.75	BDL - 13	Byproduct of drinking water disinfection
UNREGULATED CONTAMINANT MONITORING RULE (UCMR4)	SAMPLE DATE	LEVEL DETECTED (AVERAGE)	RANGE	# OF SAMPLES	UNIT OF MEASURE	LIKELY SOURCE OF CONTAMINATION			
Total Manganese	April - Dec. 2019	0.39	BDL - 2.8	13	ppb	Erosion of natural deposits			
Bromide	Quarterly	7.0	BDL - 21.0	3	ppb	Disinfection by-product precursor contaminant; naturally present in the environment			
Total Organic Carbon	Quarterly	1.53	0.70 - 3.0	3	ppm	Disinfection by-product precursor contaminant; naturally present in the environment			
HAA5	Quarterly	1.26	0.57 - 2.3	12	ppb	Byproduct of drinking water chlorination			
HAA6Br	Quarterly	3.9	1.4 - 9.2	12	ppb	Byproduct of drinking water chlorination			
HAA9	Quarterly	4.3	1.4 - 9.7	12	ppb	Byproduct of drinking water chlorination			

Providing efficient, effective, and reliable water and wastewater utility services in a manner that respects the natural environment



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For more information, contact Customer Service at (970) 477-5451 or go to erwsd.org. @VailCOwater



When Can I Water?

- Adhere to the **odd/even** outdoor water use schedule based on the last digit in your street address.
- Watering day is from midnight to midnight.
- Properties with both odd and even numbered street addresses should contact Customer Service to determine the best watering schedule.
- Hoses must have water-saving shutoff nozzles to prevent free-running water.
- Swimming pools are limited to one filling per year, unless draining for repairs is necessary.
- Water shall be used for beneficial purposes only.

DAY	ADDRESSES THAT MAY WATER	TIMES
Monday – NO OUTDOOR WATER USE		
Tuesday	Odd	Before 10 a.m. or After 4 p.m. (MIDNIGHT TO 10 A.M. OR 4 P.M. TO MIDNIGHT)
Wednesday	Even	
Thursday	Odd	
Friday	Even	
Saturday	Odd	
Sunday	Even	



PREVENT WATER WASTE

Your landscaping choices are directly connected to local stream water quality.

Reduce outdoor water waste to leave more flow in the streams and prevent runoff from carrying pollutants into waterways.

ARE YOU WATERSMART?

This free service is part of our commitment to provide our customers with the best tools to manage and understand water use and bills.

Get started today by logging on to the WaterSmart portal at erwsd.watersmart.com.