PINEWOOD SPRINGS WD 2018 Drinking Water Quality Report For Calendar Year 2017

Public Water System ID: CO0135610

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

We are pleased to present to you this year's water quality report. Our constant goal is to provide you with a safe and dependable supply of drinking water. Please contact GABRIELE BENSON at 303-823-5345 with any questions or for public participation opportunities that may affect water quality.

General Information

All drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants.

The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and Admin potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline (1-800-426-4791) health. or by visiting http://water.epa.gov/drink/contaminants.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV-AIDS or other immune system disorders, some elderly, and infants can be particularly at risk of infections. These people should seek advice about drinking water from their health care providers. For more information about contaminants and potential health effects, or to receive a copy of the U.S. Environmental Protection Agency (EPA) and the U.S. Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and microbiological contaminants call the EPA Safe Drinking Water Hotline at (1-800-426-4791).

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity. Contaminants that may be present in source water include:

- Microbial contaminants: viruses and bacteria that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- Inorganic contaminants: salts and metals, which can be naturally-occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- •Pesticides and herbicides: may come from a variety of sources, such as agriculture, urban storm water runoff, and residential uses.
- •Radioactive contaminants: can be naturally occurring or be the result of oil and gas production and mining activities.
- Organic chemical contaminants: including synthetic and volatile organic chemicals, which are byproducts of industrial processes and petroleum production, and also may come from gas stations, urban storm water runoff, and septic systems.

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

Lead in Drinking Water

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 http://www.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 www.colorado.gov/cdphe/ccr. The report is located under "Guidance: Source Water Assessment Reports". Search the table using 135610, PINEWOOD SPRINGS WD, or by contacting GABRIELE BENSON at 303-823-5345. The Source Water Assessment Report provides a screening-level evaluation of potential contamination that *could* occur. It *does not* mean that the contamination has or will occur. We can use this information to evaluate the need to improve our current water treatment capabilities and prepare for future contamination threats. This can help us ensure that quality finished water is delivered to your homes. In addition, the source water assessment results provide a starting point for developing a source water protection plan. Potential sources of contamination in our source water area are listed on the next page.

Please contact us to learn more about what you can do to help protect your drinking water sources, any questions about the Drinking Water Quality Report, to learn more about our system, or to attend scheduled public meetings. We want you, our valued customers, to be informed about the services we provide and the quality water we deliver to you every day.

Our Water Sources

Source	Source Type	Water Type	Potential Source(s) of Contamination
HAULED WATER FROM CO0107485 LONGMONT	Non-Piped, Purchased	Surface Water	NA, did not haul in 2017
RAW WATER DIVERSION FR LITTLE THOMP 2006	Intake	Surface Water	Low intensity residential, septic systems, deciduous and evergreen forests, crops, road miles, transportation, commercial and industrial
RAW WATER RESERVOIR	Reservoir	Surface Water	See description raw water diversion above.

Terms and Abbreviations

- Maximum Contaminant Level (MCL) The highest level of a contaminant allowed in drinking water.
- Treatment Technique (TT) A required process intended to reduce the level of a contaminant in drinking water.
- Health-Based A violation of either a MCL or TT.
- Non-Health-Based A violation that is not a MCL or TT.
- Action Level (AL) The concentration of a contaminant which, if exceeded, triggers treatment and other regulatory requirements.
- Maximum Residual Disinfectant Level (MRDL) The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.
- Maximum Contaminant Level Goal (MCLG) The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.
- Maximum Residual Disinfectant Level Goal (MRDLG) The level of a drinking water disinfectant, below which there
 is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial
 contaminants.
- Violation (No Abbreviation) Failure to meet a Colorado Primary Drinking Water Regulation.
- Formal Enforcement Action (No Abbreviation) Escalated action taken by the State (due to the risk to public health, or number or severity of violations) to bring a non-compliant water system back into compliance.
- Variance and Exemptions (V/E) Department permission not to meet a MCL or treatment technique under certain conditions.
- Gross Alpha (No Abbreviation) Gross alpha particle activity compliance value. It includes radium-226, but excludes radon 222, and uranium.
- Picocuries per liter (pCi/L) Measure of the radioactivity in water.
- Nephelometric Turbidity Unit (NTU) Measure of the clarity or cloudiness of water. Turbidity in excess of 5 NTU is
 just noticeable to the typical person.
- Compliance Value (No Abbreviation) Single or calculated value used to determine if regulatory contaminant level
 (e.g. MCL) is met. Examples of calculated values are the 90th Percentile, Running Annual Average (RAA) and Locational
 Running Annual Average (LRAA).
- Average (x-bar) Typical value.
- Range (R) Lowest value to the highest value.
- Sample Size (n) Number or count of values (i.e. number of water samples collected).
- Parts per million = Milligrams per liter (ppm = mg/L) One part per million corresponds to one minute in two years or a single penny in \$10,000.
- Parts per billion = Micrograms per liter (ppb = ug/L) One part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.
- Not Applicable (N/A) Does not apply or not available.
- Level 1 Assessment A study of the water system to identify potential problems and determine (if possible) why total
 coliform bacteria have been found in our water system.

Commented [SP1]: This column must be completed for each source. CCRs are not considered complete if this is left blank.

Level 2 Assessment – A very detailed study of the water system to identify potential problems and determine (if possible) why an E. coli MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.

Detected Contaminants

PINEWOOD SPRINGS WD 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, 2017 unless otherwise noted. The State of Colorado requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year, or the system is not considered vulnerable to this type of contamination. Therefore, some of our data, though representative, may be more than one year old. Violations and Formal Enforcement Actions, if any, are reported in the next section of this report.

Note: Only detected contaminants sampled within the last 5 years appear in this report. If no tables appear in this section then no contaminants were detected in the last round of monitoring.

	Disinfectants Sampled in the Distribution System TT Requirement: At least 95% of samples per period (month or quarter) must be at least 0.2 ppm 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	Time Period Results Number of Samples Sample TT MRDL Below Level Size Violation							
Chlorine	Chlorine December, 2017 Lowest period percentage of samples 0 3 No 4.0 ppm meeting TT requirement: 100%								

					the Distribu			
Contaminant Name	Time Period	90 th Percentile	Sample Size	Unit of Measure	90 th Percentile AL	Sample Sites Above AL	90 th Percentile AL Exceedance	Typical Sources
Copper	08/16/2017 to 08/16/2017	0.44	10	ppm	1.3	0	No	Corrosion of household plumbin systems; Erosion o natural deposits
Lead	08/16/2017 to 08/16/2017	3	10	ppb	15	0	No	Corrosion of household plumbing systems; Erosion of natural deposits

	Disinfection Byproducts Sampled in the Distribution System									
Name	Year	Average	Range Low – High	Sample Size	Unit of Measure	MCL	MCLG	Highest Compliance Value	MCL Violation	Typical Sources
Total Haloacetic Acids (HAA5)	2017	34	13.1 to 57.9	4	ppb	60	N/A		No	Byproduct of drinking water disinfection

	Disinfection Byproducts Sampled in the Distribution System									
Name	ame Year Average Range Sample Unit of MCL MCLG Highest MCL Typical									
			Low - High	Size	Measure			Compliance	Violation	Sources
								Value		
Total	2017	63.4	5 to 121	4	ppb	80	N/A		No	Byproduct
Trihalome										of drinking
thanes										water
(TTHM)										disinfection

	Disinfectants Sampled at the Entry Point to the Distribution System									
Contaminant Name	Year	Number of	Sample	TT/MRDL	TT/MRDL	Typical Sources				
		Samples Above or	Size	Requirement	Violation					
		Below Level		-						
Chlorine/Chloramine	2017	0	784	TT = No more than 4 hours with a sample	No	Water additive used to control microbes				
				below 1 MG/L						

	Summary of Turbidity Sampled at the Entry Point to the Distribution System									
Contaminant	Sample	Level Found	TT Requirement	TT	Typical					
Name	Date			Violation	Sources					
Turbidity	Date/Month: Aug	Highest single measurement: 0.11 NTU	Maximum 0.5 NTU for any single measurement	No	Soil Runoff					
Turbidity	Month: 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 0.1 NTU	No	Soil Runoff					

	Radionuclides Sampled at the Entry Point to the Distribution System								
Contaminant	Year	Average	Range	Sample	Unit of	MCL	MCLG	MCL	Typical Sources
Name			Low – High	Size	Measure			Violation	
Gross Alpha	2016	1.63	1.63 to 1.63	1	pCi/L	15	0	No	Erosion of natural deposits
Combined Radium	2016	0.5	0.5 to 0.5	1	pCi/L	5	0	No	Erosion of natural deposits
Combined Uranium	2016	1.3	1.3 to 1.3	1	ppb	30	0	No	Erosion of natural deposits

	Inorganic Contaminants Sampled at the Entry Point to the Distribution System								
Contaminant	Contaminant Year Average Range Sample Unit of MCL MCLG MCL Typical Sources								
Name			Low – High	Size	Measure			Violation	

	I	norganic C	Contaminants Sar	npled at th	e Entry Poi	nt to the	Distributio	on System	
Contaminant Name	Year	Average	Range Low – High	Sample Size	Unit of Measure	MCL	MCLG	MCL Violation	Typical Sources
Barium	2017	0.02	0.02 to 0.02	1	ppm	2	2	No	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Fluoride	2017	0.24	0.24 to 0.24	1	ppm	4	4	No	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Nitrate	2017	0.32	0.32 to 0.32	1	ppm	10	10	No	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Selenium	2017	0.51	0.51 to 0.51	1	ppb	50	50	No	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines

Synthetic Organic 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
Dalapon	2017	1.3	0 to 5.2	4	ppb	200	200	No	Runoff from herbicide used on rights of way
Hexachlorocycl opentadiene	2017	0.05	0 to 0.12	5	ppb	50	50	No	Discharge from chemical factories

		Cryptosporidium and Ra	w Source Water E. coli
Contaminant Name	Year	Number of Positives	Sample Size
E. Coli	2017	1	7

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	2017	11	11 to 11	1	ppm	N/A
Total Dissolved Solids	2016	120	120 to 120	1	ppm	500

Violations, Significant Deficiencies, Backflow/Cross-Connection, and Formal Enforcement Actions

Violations									
Name	Category	Time Period	Health Effects	Compliance Value	TT Level or MCL				
TURBIDITY 1	EQUIPMENT VERIFICATION OR CALIBRATION - NON- HEALTH-BASED	02/02/2017 - 03/16/2017	N/A	N/A	N/A				
2	FAILURE TO MAINTAIN RECORDS - NON- HEALTH-BASED	02/02/2017 - 03/04/2017	N/A	N/A	N/A				

Additional Violation Information

Explanation of the violation(s), the steps taken to resolve them, and the anticipated resolved date:

- Upon the sanitary survey in January of 2017, we learned we need to calibrate the turbidimeter quarterly. Since we have been informed of this we have been calibrating the instrument quarterly, per manufacturer's specifications. Resolved in Jan. 2017.
- Upon the sanitary survey in January of 2017, we learned that in addition to keeping chlorine and turbidity data in hard copy, we also need to trend this historical data via the computer. The district requested that our contractor's make the retrieval of this data available and resolved this issue, Mar. 2017.

^{*}Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.*