# Pineville Water System Water Quality Report 2019

Water System ID: KY0070353Manager: Robert RoanCCR Contact: Robert RoanPhone: (606) 337-6611Mailing Address: P.O. Box 277 Pineville, KY 40977Meeting Location and Time: Pineville Utility Commission office at 151 Pine Street - Third Tuesday each month at 5:30 PM

## **Source Information:**

Pineville treats surface water from the Cannon Creek Lake located in Bell County. A Source Water Assessment and Protection Plan for Pineville Water System indicates that our source is moderately susceptible to contamination. The largest potential contaminant to Pineville's source water is the forested land coverings in the watershed which could be subject to logging. Logging could result in soil erosion if required Best Management Practices are not carefully applied. Erosion could contribute silts and clays and natural organics to the source waters. The completed Source Water Assessment and Protection Plan is available for viewing during normal business hours at the Pineville Water System office.

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 water poses a health risk. More information about contaminants and potential health effects may be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline (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 may 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, (sewage plants, septic systems, livestock operations, or wildlife). Inorganic contaminants, such as salts and metals, (naturally occurring or from stormwater runoff, wastewater discharges, oil and gas production, mining, or farming). Pesticides and herbicides, (stormwater runoff, agriculture or residential uses). Organic chemical contaminants, including synthetic and volatile organic chemicals, (by-products of industrial processes and petroleum production, or from gas stations, stormwater runoff, or septic systems). Radioactive contaminants, (naturally occurring or from oil and gas production or mining activities). In order to ensure that tap water is safe to drink, EPA prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water to provide the same protection for public health.

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/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

## **Information About Lead:**

If present, elevated levels of 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. Your local public water system is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. 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. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at http://www.epa.gov/safewater/lead.

#### Some or all of these definitions may be found in this report:

Maximum Contaminant Level (MCL) - 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 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.

**Below Detection Levels (BDL)** - laboratory analysis indicates that the contaminant is not present.

Not Applicable (N/A) - does not apply.

**Parts per million (ppm)** - or milligrams per liter, (mg/l). One part per million corresponds to one minute in two years or a single 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 a single penny in \$10,000,000.

Parts per trillion (ppt) - one part per trillion corresponds to one minute in 2,000,000 years, or a single penny in \$10,000,000,000.

Parts per quadrillion (ppq) - one part per quadrillion corresponds to one minute in 2,000,000,000 years or one penny in \$10,000,000,000.

Picocuries per liter (pCi/L) - a measure of the radioactivity in water.

Millirems per year (mrem/yr) - measure of radiation absorbed by the body.

Million Fibers per Liter (MFL) - a measure of the presence of asbestos fibers that are longer than 10 micrometers.

Nephelometric Turbidity Unit (NTU) - a measure of the clarity of water. Turbidity has no health effects. However, turbidity can provide a medium for microbial growth. Turbidity is monitored because it is a good indicator of the effectiveness of the filtration system.

Variances & Exemptions (V&E) - State or EPA permission not to meet an MCL or a treatment technique under certain conditions.

Action Level (AL) - the concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system shall follow.

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

Spanish (Español) Este informe contiene información muy importante sobre la calidad de su agua beber. Tradúzcalo o hable con alguien que lo entienda bien.

To request a paper copy call (606) 337-6611.

The data presented in this report are from the most recent testing done in accordance with administrative regulations in 401 KAR Chapter 8. As authorized and approved by EPA, the State has reduced monitoring requirements for certain contaminants to less often than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Some of the data in this table, though representative, may be more than one year old. Copies of this report are available upon request by contacting our office during business hours.

To understand the possible health effects described for many regulated contaminants, a person would have to drink 2 liters of water every day at the MCL level for a lifetime to have a one-in-a-million chance of having the described health effect.

	Allowable		Highest Single		Lowest	Violation				
	1	Levels	Measurement			Monthly %		Likely S	ource of Turbidity	
Turbidity (NTU) TT	No more th	an 1 NTU*								
* Representative samples	Less than 0.3 NTU in		0.222	0.222		100	No		Soil runoff	
of filtered water	95% of mor	nthly samples								
<b>Regulated Contamina</b>	nt Test R	esults	Pineville V	Vater S	yste	m	-			
Contaminant			Report		Rar	ige	Date of	Violation	Likely Source of	
[code] (units)	MCL	MCLG	Level	a	f Det	ection	Sample		Contamination	
Barium										
[1010] (ppm)	2	2	0.009	0.009	to	0.009	Apr-19	No	Drilling wastes; metal refineries; erosion of natural deposits	
Copper [1022] (ppm)	AL=		0.249							
sites exceeding action level	1.3	1.3	(90 <sup>th</sup>	0.0085	to	0.272	Jun-17	No	Corrosion of household plumbing systems	
0			percentile)							
Fluoride										
[1025] (ppm)	4	4	0.60	0.6	to	0.6	Apr-19	No	Water additive which promotes strong teeth	
Lead [1030] (ppb)	AL=		0						Corrosion of household plumbin	
sites exceeding action level	15	0	(90 <sup>th</sup>	0	to	9	Jun-17	No	systems	
0			percentile)							
Disinfectants/Disinfec	ction Byp	roducts and	Precursors				-			
Total Organic Carbon (ppm)			1							
(measured as ppm, but	TT*	N/A	(lowest	1.00	to	1.00	2019	No	Naturally present in environmen	
reported as a ratio)			average)	(m	onthly	ratios)				
*Monthly ratio is the % TOC	removal achie	eved to the % T	OC removal requi	ired. Annu	alav	erage must be	1.00 or greater	for complia	nce.	
Chlorine	MRDL	MRDLG	1.71						W7	
(ppm)	= 4	=4	(highest	0.65	to	2.2	2019	No	Water additive used to control microbes.	
			average)						interest state	
HAA (ppb) (Stage 2)			50							
[Haloacetic acids]	60	N/A	(high site	19	to	46	2019	No	Byproduct of drinking water disinfection	
			average)	(range o	ofindi	vidual sites)			disinfection	
TTHM (ppb) (Stage 2)			67						D 1 ( C1 1 1	
[total trihalomethanes]	80	N/A	(high site	12	to	84	2019	No	Byproduct of drinking water disinfection.	
-			average)	(range o	findi	vidual sites)			GISHIOUUII.	
<b>Unregulated Contami</b>	nants (l	UCMR 4)	average			(ppb)	date		•	
HAA5		,	28.663	14.5	to	54.9	Mar-19	1		
HAA6Br			2.665	0.5	to	5.1	Mar-19	1		
НАА9			31.331	15.7	to	60	Mar-19	1		

Your drinking water has been sampled for a series of unregulated contaminants. Unregulated contaminants are those that EPA has not established drinking water standards. There are no MCLs and therefore no violations if found. The purpose of monitoring for these contaminants is to help EPA determine where the contaminants occur and whether they should have a standard. As our customers, you have a right to know that these data are available. If you are interested in examining the results, please contact our office during normal business hours.

	Average	Range of Detection			
Fluoride (added for dental health)	0.8	0.51	to	1.2	
Sodium (EPA guidance level = 20 mg/L)	3.5	3.45	to	3.45	

Secondary contaminants do not have a direct impact on the health of consumers. They are being included to provide additional information about the quality of the water.

Secondary Contaminant		Report		Date of		
Secondary Contaminant	Maximum Allowable Level	Level	0	Sample		
Chloride	250 mg/l	3.9	3.9	to	3.9	Apr-19
Copper	1.0 mg/l	0.0459	0.0459	to	0.0459	Apr-19
Corrosivity	Noncorrosive	-3.19	-3.19	to	-3.19	Apr-19
Fluoride	2.0 mg/l	0.6	0.6	to	0.6	Apr-19
Odor	3 threshold odor number	4	4	to	4	Apr-19
pН	6.5 to 8.5	6.9	6.9	to	6.9	Apr-19
Sulfate	250 mg/l	6.5	6.5	to	6.5	Apr-19
Total Dissolved Solids	500 mg/l	44	44	to	44	Apr-19

## Fonde Water Quality Report 2019

Water System ID: KY0073691Manager: Robert RoanCCR Contact: Robert RoanPhone: (606) 337-6611Mailing Address: P.O. Box 277 Pineville, KY 40977Meeting Location and Time: Pineville Utility Commission office at 151 Pine Street - Third Tuesday each month at 5:30 PM

Fonde Water System, operated by Pineville Utility Commission, purchases water from Clearfork Utility District, Clairfield, Tennessee. Clearfork treats groundwater from wells in the Pennsylvanian Sandstone Aquifer. The Tennessee Department of Environment has prepared a Source Water Assessment Program Report. Water sources have been rated as reasonably susceptible, moderately susceptible, or slightly susceptible based on geologic factors and human activities in the vicinity of the water source. Clearfork's source water is rated as reasonably susceptible to contamination. An explanation of the Source Water Assessment summaries, susceptibility scorings and the overall report can be viewed at www.state.tn.us/environment/dws/dwassess.shtml. Copies of individual assessments may also be obtained by calling Clearfork Utility District. Questions about source water and water treatment may also be addressed to Clearfork Utility District by contacting Roy Price, Manager, at (423) 784-4322. You are also invited to attend Clearfork's board meetings held the second Thursday of each month at 6:00 p.m. at the Clearfork water treatment plant.

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<b>Regulated</b> Contamina	nt Test R	esults	Fonde Wat	er Syste	em				
Contaminant			Report	Range of Detection		Date of	Violation	Likely Source of	
[code] (units)	MCL	MCLG	Level			Sample		Contamination	
Copper [1022] (ppm)	AL=		0.194						
sites exceeding action level	1.3	1.3	(90 <sup>th</sup>	0.0838	to	0.23	Jun-19	No	Corrosion of household plumbing systems
0			percentile)						<i>systeme</i>
Lead [1030] (ppb)	AL=		1.5						Corrosion of household plumbing systems
sites exceeding action level	15	0	(90 <sup>th</sup>	0	to	3	Jun-19	No	
0			percentile)						
Disinfectants/Disinfec	tion Byp	roducts and	Precursors						
Chlorine	MRDL	MRDLG	2.16						Water additive used to control microbes.
(ppm)	= 4	= 4	(highest	1.3	to	2.4	2019	No	
			average)						
HAA (ppb) (Stage 2)			12						Byproduct of drinking water disinfection
[Haloacetic acids]	60	N/A	(high site	5	to	14	2019	No	
			average)	(range o	findiv	idual sites)			
TTHM (ppb) (Stage 2)			33						
[total trihalomethanes]	80	N/A	(high site	17	to	47	2019	No	Byproduct of drinking water disinfection.
			average)	(range o	findiv	idual sites)			

		lowable Levels	Highest Single Measurement		Lowest Violation Monthly %		Likely Source of Turbidity			
Turbidity (NTU) TT * Representative samples of filtered water	No more than 1 NTU* Less than 0.3 NTU in 95% of monthly samples		0.13		100	No	Soil runoff			
Regulated Contaminant Test Results Clearfork Utility District										
Contaminant			Report	Range		Date of	Violation	Likely Source of		
[code] (units)	MCL	MCLG	Level	of Detection		Sample		Contamination		
Barium [1010] (ppm)	2	2	0.5	0.5 to	0.5	2019	No	Drilling wastes; metal refineries; erosion of natural deposits		
Fluoride [1025] (ppm)	4	4	2.7	2.7 to	2.7	2019	No	Water additive which promotes strong teeth		

