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, $(\mu g/L)$. 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 \$10,000,000,000,000.

 $Picocuries \ per \ liter \ (pCi/L)$ - 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.

Cannonsburg Water District Water Quality Report 2016



Water System ID: KY0100064 Manager: Tim Webb 606-928-9808 CCR Contact: Tim Webb 606-928-9808

Mailing address: 1606 Cannonsburg Rd Ashland, KY 41102

Meeting location and time: Water Office - 1606 Cannonsburg Rd Third Wednesday each month at 11:00 AM This report is designed to inform the public about the quality of water and services provided on a daily basis. Our commitment is to provide a safe, clean, and reliable supply of drinking water. We want to assure that we will continue to monitor, improve, and protect the water system and deliver a high quality product.

Cannonsburg Water District provides purchased water from two suppliers, each of which treats surface water. The suppliers and their sources include: Ashland Water Works withdraws from the Ohio River; Kenova Water Works (by way of Big Sandy Water District) withdraws from Big Sandy River. Each of these suppliers has conducted an analysis of susceptibility to contamination and the overall susceptibility is considered moderate to moderately high. Areas of high concern include transportation corridors, underground and above ground storage tanks, agricultural land use, industrial sites, and waste generators. The respective Source Water Assessment Plans are available for review at each of the water producers. Contact information for our suppliers can be obtained by calling our office at 606-928-9808.

For specific service areas contact the Big Sandy Water District. General service areas for each supplier:

Water produced by Ashland Water works serves all customers with the exception of the Dog Fork area.

Water produced by Kenova Water Works serves only the Dog Fork area.

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. 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 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 vou 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.

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.

one year old.	1		1			1-		-		
C=Cannonsburg	Al	lowable	8	Highest	Single	Lowest	Violation			
K=Kenova			Source							
A=Ashland]	Levels	š	Measurement		Monthly %		Likely Source of Turbidity		
Turbidity (NTU) TT	No more	than 1 NTU*	K=	0.56		99	No			
* Representative samples	Less than	0.3 NTU in	A=	0	.22	100	No	Soil runoff		
of filtered water	95% mon	thly samples								
Regulated Contaminant	Test Res	ults								
Contaminant			Source	Report	Range		Date of	Violation Likely Source of		
[code] (units)	MCL	MCLG	Sot	Level	of De	tection	Sample		Contamination	
Barium			K=	0.0871	0.0871 to	0.0871	2016	No	Drilling wastes; metal	
[1010] (ppm)	2	2	A=	0.034	0.034 to	0.034	Mar-16	No	refineries; erosion of natural deposits	
Copper [1022] (ppm)	AL =			0.022						
sites exceeding action level	1.3	1.3	C=	(90 th	0.0003 to	0.042	Aug-15	No	Corrosion of household	
0				percentile)					plumbing systems	
Fluoride			K=	0.7	0.7 to	0.7	2016	No		
[1025] (ppm)	4	4	A=	0.5	0.5 to	0.5	Mar-16	No	Water additive which promotes strong teeth	
Lead [1030] (ppb)	AL =			1.4					a : a	
sites exceeding action level	15	0	C=	(90 th	0.3 to	9 4.4	Aug-15	No	Corrosion of household	
0				percentile)			-		plumbing systems	
Nitrate			K=	0.04	0.04 to	0.04	2016	No	Fertilizer runoff; leaching	
[1040] (ppm)	10	10	A=	0.7	0.7 to	0.7	Feb-16	No	from septic tanks, sewage;	
									erosion of natural deposits	
Total Organic Carbon (ppm)			K=	1.61	N/	A	2016	No	XX	
(report level=lowest avg.	TT*	N/A	A=	1.12	0.85 to	o 1.7	2016	No	Naturally present in environment.	
range of monthly ratios)									environment.	
*Monthly ratio is the % TO	C removal	achieved to the	% T (OC removal	required. An	nual average m	ust be 1.00 o	r greater fo	or compliance.	
Chlorine	MRDL	MRDLG		0.88					WY . 19.1	
(ppm)	= 4	= 4	C=	(highest	0.20 to	2.03	2016	No	Water additive used to control microbes.	
				average)					microbes.	
HAA (ppb) (Stage 2)									D 1	
[Haloacetic acids]	60	N/A	C=	43	4 to	62	2016	No	Byproduct of drinking water disinfection	
				(average)	(range of in	ndividual sites)			disinfection	
TTHM (ppb) (Stage 2)			1	~ ~ /	ž	· · · · ·			D 1 . 61.11	
[total trihalomethanes]	80	N/A	C=	93	35 to	0 104	2016	YES	Byproduct of drinking water disinfection.	
				(average)	(range of in	ndividual sites)			disinfection.	
		-				· · · · ·		-		
Other Contaminants										
Cryptosporidium	0	TT								
[oocysts/L]			A=	0		12	2016	No	Human and animal fecal waste	
		(99% removal)) (positive samples) (no. of sam			o, of samples)				

TTHM(ppb) Individual Site	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Violation
002	73.25	75.00	66.25	67.75	No
004	60.25	57.50	50.50	61.50	No
005	87.75	92.75	85.25	76.50	Yes
007	80.50	82.75	70.00	72.75	Yes

Violations 2016-9624016, 2016-9624017, 2016-9624020 (TTHM):

During the first, second and third quarters of 2016 we exceeded the MCL for trihalomethanes (TTHM). We are working to minimize the formation of TTHM while ensuring we maintain an adequate level of disinfectant. We have increased flushing of water lines and also monitoring water storage tank levels and water flow patterns. Public notifications for these violations were distributed. Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous systems, and may have an increased risk of getting cancer.

Violations 2016-9624018 (MOR) and 2016-9624019 (OEL):

Our water system recently violated a drinking water standard. Although this incident was not an emergency, as our customers, you have a right to know what happened and what we did (are doing) to correct this situation.

We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not our drinking water meets health standards. During May 2016, we did not complete all monitoring by failing to report or correctly report testing for Monthly Operation Report. Therefore, we could not verify the quality of your drinking water to the primacy agency during that time.

Each month we are required to complete a Monthly Operation Report (MOR) and submit it to the Kentucky Division of Water by the tenth of the following month. This report includes daily testing results, chemicals added, and total volumes treated.

We failed to submit an MOR for the period May 2016 by the tenth of June. There is nothing you need to do. We submitted the document to the Division of Water June 13, 2016.

We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not our drinking water meets health standards. During 4/1/2016-6/30/2016, we did not complete all monitoring by failing to report or correctly report testing for Haloacetic Acids and Trihalomethanes (OEL). Therefore, we could not verify the quality of your drinking water to the primacy agency during that time.

We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not our drinking water meets health standards. For the Stage 2 DBPR requirements we monitor for trihalomethanes (THM) and haloacetic acids (HAA). The standard for THM is 0.080 mg/L and the standard for HAA is 0.060 mg/L.

A calculation of analytical results is part of an Operational Evaluation Level Report (OEL) to determine the potential of exceeding these standards. The operational evaluation requirements are intended as an indicator of operational performance and to allow systems to identify proactive steps to remain in compliance. Failure to submit an evaluation report to the State in the required time frame is a violation and requires a public notification.

We failed to submit an OEL for the period 4/1/2016-6/30/2016. There is nothing you need to do. We have submitted the OEL to the Division of Water.

For more information, please contact Tim Webb at 606-928-9808 or 1606 Cannonsburg Rd, Ashland, KY 41102.

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.