## 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.

## Caldwell County Water District Water Quality Report 2020



Water System ID: KY0170528 CEO: Jimmy Littlefield 270-365-9381 CCR Contact: Jimmy Littlefield 270-365-9381

Mailing address: 118 West Market Street Princeton, KY 42445

Meeting location and time: Caldwell Co. Courthouse Fiscal Court Room #26 2<sup>nd</sup> Tuesday each month at 4:30 PM 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.

We purchase water from two sources. Most of the water is purchased from the Princeton water system which treats surface water from Lake Barkley. An analysis of Princeton's supply indicates that potential contaminant sources include underground storage tank facilities, hazardous materials transfer and storage, marinas and boat docks, landfills, agricultural operations, failing septic systems, and KPDES permitted dischargers. Their complete source water assessment plan is available at the Princeton Water and Wastewater office, located at 101 E. Market St. in Princeton.

We also purchase water from South Hopkins Water District, supplied by Dawson Springs, for customers near the Dawson Springs area. Their source is surface water from Lake Beshear . An analysis of Dawson Springs supply indicates potential contaminant sources include the Pennyrile Forest State Park golf course, three cemeteries, roads and highways, illegal dumping, and farms within the watershed using pesticides and fertilizer. The complete Source Water Assessment is available at Dawson Springs City Hall.

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 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.



The data presented in this rep									Contaminant	
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									[code] (units)	MCL
contaminants are not expected this report are available upon					this table, thou	gh representa	tive, may be	more than one year old. Copies of	Barium	
Regulated Contamina	[1010] (ppm)	2								
Contaminant			Report	R	ange	Date of	Violation	Likely Source of		
[code] (units)	MCL	MCLG	Level	of De	tection	Sample		Contamination	Fluoride	
Combined radium (pCi/L)	5	0	0.545	0.545 to	0.545	Feb-19	No	Erosion of natural deposits	[1025] (ppm)	4
Fluoride								W7 . 10.2 111 .	Total Organic Carbon (ppm)	
[1025] (ppm)	4	4	0.54	0.54 to	0.54	Dec-20	No	Water additive which promotes strong teeth	(measured as ppm, but	TT*
								stiong tootil	reported as a ratio)	
Nitrate								Fertilizer runoff; leaching from	*Monthly ratio is the % TOC removal a	
[1040] (ppm)	10	10	0.38	0.38 to	0.38	Dec-20	No	septic tanks, sewage; erosion of natural deposits	Chlorite	1
Total Organic Carbon (ppm)			1.1						(ppm)	-
(measured as ppm, but	TT*	N/A	(lowest	1.00 to	1.40	2020	No	Naturally present in environment.	Chlorine dioxide (ppb)	MRDL
reported as a ratio)			average)		ly ratios)					= 800
*Monthly ratio is the % TOC 1	emoval achi	eved to the % T	0 /			1.00 or greate	r for complia	nce.	Other Constituents	
Other Constituents									Turbidity (NTU) TT	1
Turbidity (NTU) TT	Allowable Levels		Highest Single Measurement		Lowest Violation				* Representative samples	
* Representative samples					Monthly %	Monthly %	Likely Source of Turbidity		Turbidity is a measure of the clarity of the water and not a	No more
Turbidity is a measure of the	No more than 1 NTU* Less than 0.3 NTU in		0.08		100				clarity of the water and not a contaminant.	Less than
clarity of the water and not a contaminant.						No	Soil runoff		Contrainmitation	95% of m
contanimant.	95% of mor	nthly samples								
			Average	Range o	Detection	1			Fluoride (added for den	tal healt
Fluoride (added for den	0.8	0.71 to	0.95	1			Sodium (EPA guidance level	= 20 mg/I		

MCLG 2 4 N/A	Report      Level        0.019      0.75        1.84      (lowest	0.019	Rang f Detec to to	2	Date of Sample Feb-20 Feb-20	Violation No No	Likely Source of Contamination Drilling wastes; metal refineries; erosion of natural deposits Water additive which promotes	
2	0.019 0.75 1.84	0.019	to	0.019	Feb-20		Drilling wastes; metal refineries; erosion of natural deposits Water additive which promotes	
4	0.75	0.75					erosion of natural deposits Water additive which promotes	
	1.84		to	0.75	Feb-20	No	-	
N/A							strong teeth	
	average)	1.62 to 2.10 (monthly ratios)		2020	No	Naturally present in environment		
ved to the % T	OC removal requi	red. Annua	al avei	rage must be	1.00 or greater	for complia	nce.	
0.8	0.72 (average)	0.18 to 0.78		2020	No	Byproduct of drinking water disinfection.		
MRDLG = 800	800	0 to 800		2020	No	Water additive used to control microbes.		
							-	
Allowable		Highest Single		Lowest	Violation			
Levels		Measurement		Monthly %		Likely Source of Turbidity		
No more than 1 NTU* Less than 0.3 NTU in 95% of monthly samples		0.27		100	No		Soil runoff	
	n 1 NTU* 3 NTU in	evels Measuremen n 1 NTU* 3 NTU in 0.27	evels Measurement n 1 NTU* 3 NTU in 0.27	evels Measurement Meas Measurement Measurement Measure	Measurement      Monthly%        n 1 NTU*      8        SNTU in      0.27	wels  Measurement  Monthly %    n 1 NTU*	Weis  Measurement  Monthly %  Likely S    n 1 NTU*	

- 1		Average	Rang	e of De	tection
J	Fluoride (added for dental health)	0.8	0.75	to	1.07
	Sodium (EPA guidance level = 20 mg/L)	8.3	8.33	to	8.33

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	uality
	<b>n</b> On Tap!
Our Commitme	

5 to 5

5.0

Sodium (EPA guidance level = 20 mg/L)

Regulated Contaminant Test Results Caldwell County Water District										
Contaminant			Report	Range		Date of	Violation	Likely Source of		
[code] (units)	MCL	MCLG	Level	of Detection		of Detection		Sample		Contamination
Chlorine	MRDL	MRDLG	0.95							
(ppm)	= 4	=4	(highest	0.4 to	1.64	2020	No	Water additive used to control microbes.		
			average)					merooes.		
HAA (ppb) (Stage 2)			51					Denne la chef la la companya		
[Haloacetic acids]	60	N/A	(high site	30 to	57	2020	No	Byproduct of drinking water disinfection		
			average)	(range of ind	ividual sites)					
TTHM (ppb) (Stage 2)			69					D 1 4 61 1		
[total trihalomethanes]	80	N/A	(high site	32 to	112	2020	No	Byproduct of drinking water disinfection.		
			average)	(range of ind	ividual sites)					
Household Plumbing Contaminants										
Copper [1022] (ppm)	AL=		0.108							
sites exceeding action level	1.3	1.3	(90th	0.0189 to	0.116	Sep-20	No	Corrosion of household plumbing systems		
0			percentile)					, ·		