## Beaver Dam Municipal Water 2023 Water Quality Report

Manager: Larry Carter Jr. CCR Contact: Larry Carter Jr. PWSID: KY0920025

Address: 309 West 2nd Street Beaver Dam, Kentucky 42320 Phone: (270) 274-7106

Meetings: Beaver Dam City Hall / 2nd Monday of each month



We purchase and produce the drinking water for our customers. The source of this water is a combination of surface water from the Green River and ground water from a regional aquifer supplied by the Ohio Co. Water District and Beaver Dam Municipal Water Department, respectively. As part of a multi barrier approach to safeguard public health, land uses within the watershed and wellhead protection areas were assessed to better understand their potential impact to water quality and to assign a susceptibility rating. The susceptibility rating for our source is moderate is derived by evaluating the toxicity, proximity to the intake/well and likelihood of potential contaminant sources to be released. An analysis of both supplies indicates that the susceptibility is moderate. However, there are areas of high susceptibility. Potential contaminant sources affecting the Green River chemical releases along transportation corridors and runoff from row crops at great distance from the intake. Potential contaminant sources affecting the aquifer include chemical release from spills and fuel storage nearby the wellheads. Activities and land use within the watershed /wellhead areas can pose potential risks to your drinking water. Under certain circumstances contaminants could be released that would pose challenges to water treatment or even get into your drinking water. These activities, and how they are conducted, are of interest to our customers because they potentially affect your health and the cost of treating your water. The complete source water assessment for both sources is available for review at the Green River Area Development Office, located at 300 GRADD Way, Owensboro. Kentucky 42301. (270) 926-4433.

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).

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 water system is responsible for providing high quality drinking water and removing lead pipes, but cannot control the variety of materials used in plumbing components in your home. You share the responsibility for protecting yourself and your family from the lead in your home plumbing. You can take responsibility by identifying and removing lead materials within your home plumbing and taking steps to reduce your family's risk. Before drinking tap water, flush your pipes for several minutes by running your tap, taking a shower, doing laundry or a load of dishes. You can also use a filter certified by an American National Standards Institute accredited certifier to reduce lead in drinking water. If you are concerned about lead in your water and wish to have your water tested, contact your local water system. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available 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 \$10,000,000,000,000,000

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 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.

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.

Regulated Contaminant T		contacting our o	ince during	ousiness nour	•	Ohio	County V	Vater District (KY0920332	
Contaminant			Report	Ra	nge	Date of		Likely Source of	
[code] (units)	MCL	MCLG	Level		tection	Sample	Violation	Contamination	
Radioactive Contamina	nts	l	Level	0.20		Sumple		00	
Combined radium	1103	l							
	5	0	0.3	0.3 to	0.3	May-20	No	Erosion of natural deposits	
(pCi/L)	<u> </u>								
Inorganic Contaminant	S	Ī				I		Г	
Barium								Drilling wastes; metal refineries;	
[1010] (ppm)	2	2	0.032	0.032 to	0.032	Aug-23	No	erosion of natural deposits	
								_	
Fluoride								Water additive which promotes	
[1025] (ppm)	4	4	0.8	0.8 to	0.8	Aug-23	No	strong teeth	
								strong teem	
Nitrate								Fertilizer runoff; leaching from	
[1040] (ppm)	10	10	1.74	1.74 to	1.74	Feb-23	No	septic tanks, sewage; erosion of	
1 11 /								natural deposits	
Synthetic Organic Cont	aminants	including Pe	sticides an	d Herbicid	PS	l	1		
Methoxychlor		l		d Herbreid	23	I		D 664 1: 6 : 4::1	
•	40	40	1 22	DDI 4-	4	A	No	Runoff/leaching from insecticide used on fruits, vegetables, alfalfa,	
[2015] (ppb)	40	40	1.33	BDL to	4	Aug-23	INO	livestock	
Dit e di D								iivestock	
<b>Disinfection Byproduct</b>	Precursor	r	•						
Total Organic Carbon (ppm)			1.97						
(measured as ppm, but	TT*	N/A	(lowest	1 to	2.9	2023	No	Naturally present in environment.	
reported as a ratio)			average)	(month	ly ratios)				
*Monthly ratio is the % TOC re	moval achie	eved to the % TO	C removal rec	uired. Annual	average must b	e 1.00 or greate	er for compli	ance.	
Other Constituents									
Turbidity (NTU) TT	Al	llowable	High	est Single	Lowest				
* Representative samples	Levels		0 0		Monthly %	Violation		Likely Source of Turbidity	
Turbidity is a measure of the	No more th				monthly 70				
		an INIII*							
				) NO	100	No		Soil mynoff	
clarity of the water and not a contaminant.	Less than 0	.3 NTU in	(	0.08	100	No		Soil runoff	
clarity of the water and not a contaminant.	Less than 0 95% of mor	.3 NTU in nthly samples	(	0.08			MUNICIP		
clarity of the water and not a contaminant.  Regulated Contaminant T	Less than 0 95% of mor	.3 NTU in nthly samples			BEAV	ER DAM	MUNICIP	AL WATER (KY0920025	
clarity of the water and not a contaminant.  Regulated Contaminant T Contaminant	Less than 0 95% of mor	.3 NTU in nthly samples	Report	Ra	BEAV	ER DAM I	MUNICIP Violation	AL WATER (KY0920025 Likely Source of	
clarity of the water and not a contaminant.  Regulated Contaminant T Contaminant [code] (units)	Less than 0 95% of morest Results MCL	.3 NTU in nthly samples		Ra	BEAV	ER DAM		AL WATER (KY0920025	
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clarity of the water and not a contaminant.  Regulated Contaminant T Contaminant [code] (units)	Less than 0 95% of more est Results MCL	.3 NTU in nthly samples  MCLG	Report Level	Ra of De	BEAV	ER DAM I Date of Sample	Violation	AL WATER (KY0920025  Likely Source of  Contamination	
clarity of the water and not a contaminant.  Regulated Contaminant T Contaminant [code] (units)  Radioactive Contamina Combined radium (pCi/L)	Less than 0 95% of morest Results MCL	.3 NTU in nthly samples	Report	Ra	BEAV	ER DAM I		AL WATER (KY0920025 Likely Source of	
clarity of the water and not a contaminant.  Regulated Contaminant T Contaminant [code] (units)  Radioactive Contamina  Combined radium	Less than 0 95% of morest Results MCL	.3 NTU in nthly samples  MCLG	Report Level	Ra of De	BEAV	ER DAM I Date of Sample	Violation	AL WATER (KY0920025  Likely Source of  Contamination	
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clarity of the water and not a contaminant.  Regulated Contaminant T Contaminant [code] (units)  Radioactive Contamina Combined radium (pCi/L)  Inorganic Contaminant: Barium	Less than 0 95% of morest Results MCL	.3 NTU in nthly samples  MCLG	Report Level	0.485 to	BEAV nge tection 0.485	VER DAM I Date of Sample	Violation No	AL WATER (KY0920025  Likely Source of Contamination  Erosion of natural deposits  Drilling wastes; metal refineries;	
clarity of the water and not a contaminant.  Regulated Contaminant T Contaminant [code] (units)  Radioactive Contamina Combined radium (pCi/L)  Inorganic Contaminant	Less than 0 95% of morest Results MCL nts 5	.3 NTU in nthly samples  MCLG	Report Level	0.485 to	BEAV nge tection 0.485	ER DAM I Date of Sample	Violation No	AL WATER (KY0920025  Likely Source of  Contamination  Erosion of natural deposits	
clarity of the water and not a contaminant.  Regulated Contaminant T Contaminant [code] (units)  Radioactive Contamina  Combined radium  (pCi/L)  Inorganic Contaminant  Barium  [1010] (ppm)	Less than 0 95% of morest Results MCL  nts  5	3 NTU in nthly samples  MCLG  0	Report Level	0.485 to	BEAV nge tection 0.485	VER DAM I Date of Sample	Violation No	AL WATER (KY0920025  Likely Source of Contamination  Erosion of natural deposits  Drilling wastes; metal refineries;	
clarity of the water and not a contaminant.  Regulated Contaminant T Contaminant [code] (units)  Radioactive Contamina Combined radium (pCi/L)  Inorganic Contaminant  Barium  [1010] (ppm)  Disinfectants/Disinfection	Less than 0 95% of morest Results MCL  nts  5  2  on Byproc	3 NTU in nthly samples  MCLG  0  2	Report Level 0.485	0.485 to	BEAV nge tection 0.485	VER DAM I Date of Sample	Violation No	AL WATER (KY0920025  Likely Source of Contamination  Erosion of natural deposits  Drilling wastes; metal refineries;	
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clarity of the water and not a contaminant.  Regulated Contaminant T Contaminant [code] (units)  Radioactive Contamina Combined radium (pCi/L)  Inorganic Contaminant: Barium [1010] (ppm)  Disinfectants/Disinfection Chlorine (ppm)  HAA (ppb) (Stage 2) [Haloacetic acids]	Less than 0 95% of more est Results MCL  nts  5  S  MRDL  = 4	3 NTU in nthly samples  MCLG  0  2  lucts  MRDLG  = 4	Report Level  0.485  0  1.84 (highest average) 51 (high site average)	0.485 to  0 to  0.71 to	### DEAV nge tection   0.485   0   3.1	Jan-19 Aug-23	No No	AL WATER (KY0920025  Likely Source of Contamination  Erosion of natural deposits  Drilling wastes; metal refineries; erosion of natural deposits  Water additive used to control microbes.  Byproduct of drinking water	
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clarity of the water and not a contaminant.  Regulated Contaminant T Contaminant [code] (units) Radioactive Contaminant Combined radium (pCi/L) Inorganic Contaminant Barium [1010] (ppm)  Disinfectants/Disinfection Chlorine (ppm)  HAA (ppb) (Stage 2) [Haloacetic acids]  TTHM (ppb) (Stage 2) [total trihalomethanes]  Household Plumbing Contaminant Combined (ppm)	Less than 0   95% of more	3 NTU in nthly samples  MCLG  0  2  Hucts  MRDLG  = 4  N/A  N/A	Report Level  0.485  0  1.84 (highest average) 51 (high site average) 56 (high site average)	0.485 to  0 to  0.71 to  17 to  (range of inc.)	BEAV nge tection  0.485  0  3.1  48 dividual sites)  78 dividual sites)	Jan-19 Aug-23 2023 2023	No No No	AL WATER (KY0920025  Likely Source of Contamination  Erosion of natural deposits  Drilling wastes; metal refineries; erosion of natural deposits  Water additive used to control microbes.  Byproduct of drinking water disinfection  Byproduct of drinking water disinfection.	
clarity of the water and not a contaminant.  Regulated Contaminant T Contaminant [code] (units)  Radioactive Contamina Combined radium (pCi/L)  Inorganic Contaminant Barium [1010] (ppm)  Disinfectants/Disinfection Chlorine (ppm)  HAA (ppb) (Stage 2) [Haloacetic acids]  TTHM (ppb) (Stage 2) [total trihalomethanes]  Household Plumbing Cocopper [1022] (ppm) sites exceeding action level	Less than 0   95% of more	3 NTU in nthly samples  MCLG  0  2  Hucts  MRDLG  = 4  N/A	Report Level  0.485  0  1.84 (highest average) 51 (high site average) 56 (high site average)  0.239 (90th)	0.485 to  0.71 to  17 to  (range of inc.)	BEAV nge tection  0.485  0  3.1  48 dividual sites)  78 dividual sites)	Jan-19 Aug-23 2023	No No No No	Likely Source of Contamination  Erosion of natural deposits  Drilling wastes; metal refineries; erosion of natural deposits  Water additive used to control microbes.  Byproduct of drinking water disinfection  Byproduct of drinking water disinfection.	
clarity of the water and not a contaminant.  Regulated Contaminant T Contaminant [code] (units) Radioactive Contamina Combined radium (pCi/L) Inorganic Contaminant Barium [1010] (ppm)  Disinfectants/Disinfection Chlorine (ppm)  HAA (ppb) (Stage 2) [Haloacetic acids]  TTHM (ppb) (Stage 2) [total trihalomethanes]  Household Plumbing Contaminant Copper [1022] (ppm) sites exceeding action level	Less than 0   95% of more	3 NTU in nthly samples  MCLG  0  2  Hucts  MRDLG  = 4  N/A  N/A	Report Level  0.485  0  1.84 (highest average) 51 (high site average) 56 (high site average) 0.239 (90th percentile)	0.485 to  0 to  0.71 to  17 to  (range of inc.)	BEAV nge tection  0.485  0  3.1  48 dividual sites)  78 dividual sites)	Jan-19 Aug-23 2023 2023	No No No No	AL WATER (KY0920025  Likely Source of Contamination  Erosion of natural deposits  Drilling wastes; metal refineries; erosion of natural deposits  Water additive used to control microbes.  Byproduct of drinking water disinfection  Byproduct of drinking water disinfection.	
clarity of the water and not a contaminant.  Regulated Contaminant T Contaminant [code] (units)  Radioactive Contaminant Combined radium (pCi/L)  Inorganic Contaminant: Barium [1010] (ppm)  Disinfectants/Disinfection (ppm)  HAA (ppb) (Stage 2) [Haloacetic acids]  TTHM (ppb) (Stage 2) [total trihalomethanes]  Household Plumbing Contaminant (ppm) (	Less than 0   95% of more	3 NTU in nthly samples  MCLG  0  2  lucts  MRDLG = 4  N/A  N/A  1.3	Report Level  0.485  0  1.84 (highest average) 51 (high site average) 56 (high site average)  0.239 (90th percentile) 0	0.485 to  0 to  0.71 to  17 to  (range of inc.)  20 to  (range of inc.)	BEAV nge tection  0.485  0  3.1  48 lividual sites)  78 lividual sites)  0.74	Date of   Sample     Jan-19     Aug-23     2023     2023     Aug-22	No No No No No No	Likely Source of Contamination  Erosion of natural deposits  Drilling wastes; metal refineries; erosion of natural deposits  Water additive used to control microbes.  Byproduct of drinking water disinfection  Byproduct of drinking water disinfection.  Corrosion of household plumbing systems	
clarity of the water and not a contaminant.  Regulated Contaminant T Contaminant [code] (units) Radioactive Contamina Combined radium (pCi/L) Inorganic Contaminant Barium [1010] (ppm)  Disinfectants/Disinfection Chlorine (ppm)  HAA (ppb) (Stage 2) [Haloacetic acids]  TTHM (ppb) (Stage 2) [total trihalomethanes]  Household Plumbing Contaminant Copper [1022] (ppm) sites exceeding action level	Less than 0   95% of more	3 NTU in nthly samples  MCLG  0  2  Hucts  MRDLG  = 4  N/A  N/A	Report Level  0.485  0  1.84 (highest average) 51 (high site average) 56 (high site average) 0.239 (90th percentile)	0.485 to  0 to  0.71 to  17 to  (range of inc.)	BEAV nge tection  0.485  0  3.1  48 lividual sites)  78 lividual sites)	Jan-19 Aug-23 2023 2023	No No No No	AL WATER (KY0920025  Likely Source of Contamination  Erosion of natural deposits  Drilling wastes; metal refineries; erosion of natural deposits  Water additive used to control microbes.  Byproduct of drinking water disinfection  Byproduct of drinking water disinfection.	