Butler Water Works Water Quality Report 2023

Water System ID: KY0960051 Mayor: Mason Taylor

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Mailing Address: P.O. Box 229 Butler, KY 41006 Meeting location and time: Butler City Hall 1st Monday monthly at 7:00 PM

Water for our community is purchased from Pendleton County Water District which purchases water from Northern Kentucky Water District. Their source is surface water from the Ohio River. An analysis of the susceptibility of the Northern Kentucky Water District's public water supply at the Ohio River intake indicates that the susceptibility to contamination is generally high. Because of the highly urbanized nature of the land use, the extensive development of transportation infrastructure, the potential for spills, high degree of impervious cover and polluted runoff, there are several potential areas of concern. Areas of row crops and urban and recreational grasses introduce the potential for herbicide, pesticide, and fertilizer use – possible non-point source contaminants. Bridges, railroads, ports, waste handlers or generators, and Tier II hazardous chemical users in the area introduce the potential for spills or leaks of hazardous materials. Landfills and permitted discharges are relatively high in number for a supply area. Other areas of concern include several segments of streams already assessed as having impairments. The complete Source Water Assessment Plan is available for review at the Northern Kentucky Area Development District 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, (μ 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.

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.

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.

Testing Results for Northern Kentucky Water District

Regulated Contaminan	<u>it Test Re</u>	sults - N	orthern k	<u>Kentuck</u>	y Wa	ter Distri	ct - Ft. Tho	mas Trea	tment Plant
Contaminant			Report	Range			Date of		Likely Source of Contamination
[code] (units)	MCL	MCLG	Level	evel of Detection		Sample	Violation		
Inorganic Contaminan	ts								,
Barium									D.:
[1010] (ppm)	2	2	0.03	0.03	to	0.03	2023	No	Drilling wastes; metal refineries; erosion of natural deposits
Fluoride									
[1025] (ppm)	4	4	0.82	0.82	to	0.82	2023	No	Water additive which promotes strong teeth
Nitrate									Fertilizer runoff; leaching from
[1040] (ppm)	10	10	0.53	0.53	to	0.53	2023	No	septic tanks, sewage; erosion of natural deposits
Disinfectants/Disinfect	ion Bypro	ducts and P	recursors	,				!	!
Total Organic Carbon (ppm)			2.68						
(measured as ppm, but	TT*	N/A	(lowest	2.29	to	3.12	2023	No	Naturally present in environment
reported as a ratio)			average)	(m	onthly	ratios)			
*Monthly ratio is the % TOC rea	moval achievo	ed to the % TOC r	emoval requi	red. Annua	l averag	ge must be 1.0	0 or greater for	compliance.	
Other Constituents									
Turbidity (NTU) TT	Allowable		Highest Single		le Lowest		Violation		
* Representative samples	Levels		Measurement		N	Ionthly %		Likely Source of Turbidity	
Turbidity is a measure of the clarity of the water and not a contaminant.	No more than 1 NTU*		0.09			100	No		
	Less than 0.3 NTU in							Soil runoff	
	95% of monthly samples								
Unregulated Contaminants (UCMR 5)			average ran		range	(ppb)	date		
perfluoropentanoic acid (PFPeA)		0.001	0	to	0.0031	2023			
YY 1 1 1 1			1 10		0 1 .	1			

Your drinking water from Northern Kentucky Water District has been sampled for a series of unregulated contaminants. Unregulated contaminants are those for which 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.

Testing Results for Butler Water Works

Testing Results for Buti	er water	works							
Regulated Contaminant	t Test Re	sults	Butler Wate	er Worl	KS				
Contaminant			Report	Range		e	Date of		Likely Source of
[code] (units)	MCL	MCLG	Level	of Detection			Sample	Violation	Contamination
Chlorine	MRDL	MRDLG	0.78						W. 112
(ppm)	= 4	= 4	(highest	0.36	to	1.57	2023	No	Water additive used to control microbes.
			average)						
HAA (ppb) (Stage 2)			12						D 1 c Clili
[Haloacetic acids]	60	N/A	(high site	6	to	19	2023	No	Byproduct of drinking water disinfection
			average)	(range o	f indiv	idual sites)			
TTHM (ppb) (Stage 2)			39						Drawa da et af daimhin a sastan
[total trihalomethanes]	80	N/A	(high site	20	to	51.1	2023	No	Byproduct of drinking water disinfection.
1			average)	(range of individual sites)		İ			
Household Plumbing C	ontamina	nts	•						
Copper [1022] (ppm) Round 1	AL =		0.055						C
sites exceeding action level	1.3	1.3	(90 th	0	to	0.084	Jun-21	No	Corrosion of household plumbing systems
0			percentile)						*

Violation 2023-9950630

We received a violation for failure to distribute our 2022 Consumer Confidence Report to our customers by July 1, 2023. We advertised the incorrect web address to direct our customers to the report and did not get the address corrected until after the distribution deadline had passed. We have corrected that error and have returned to compliance.

Violation 2023-9950629

We received a violation for failure to maintain a minimum chlorine residual of 0.2mg/L free chlorine in our distribution system on July 25 and July 29, 2023. We took measures to ensure proper chlorination and have since returned to compliance.

Violation 2024-930

Our water system recently failed to comply with a required testing procedure. Even though this was not an emergency, as our customers, you have a right to know what happened and what we did to correct the 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 7/1/2023-9/30/2023, we did not complete all monitoring or testing for total trihalomethanes and haloacetic acids, and therefore cannot be sure of the quality of your drinking water during that time.

Operator oversight led to the samples not being collected during the specific week in the third quarter in which we are required to sample.

There is nothing you need to do at this time. You may continue to drink the water. If a situation arises where the water is no longer safe to drink, you will be notified within 24 hours.

We resumed routine sampling during the proper week during the fourth quarter of 2023 and have since returned to compliance.

For more information, please contact Susan Butts at 859-472-5015 or P.O. Box 229 Butler, KY 41006.

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.

Violation 2023-9950628

Our water system recently failed to comply with a required testing procedure. Even though this was not an emergency, as our customers, you have a right to know what happened and what we did to correct the 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 6/1/2023-6/31/2023, we did not complete all monitoring or testing for total coliforms, and therefore cannot be sure of the quality of your drinking water during that time.

We are required to test for total coliform bacteria twice monthly in our distribution system. We submitted one of the samples, but our contract laboratory failed to pick up the second sample. We did not catch the error in time to collect another sample and submit it for the month of June 2023.

There is nothing you need to do at this time. You may continue to drink the water. If a situation arises where the water is no longer safe to drink, you will be notified within 24 hours.

We resumed routine sampling during July 2023 and have since returned to compliance.

For more information, please contact Susan Butts at 859-472-5015 or P.O. Box 229 Butler, KY 41006.

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.

This report will not be mailed unless requested. If you would like a copy mailed to you, please contact our office.