

2018 Water Quality Report

Mount Washington Water Company

KY0150300

Manager: Ronnie Fick
Address: Post Office Box 285
Public Meetings: Fick Hall 155 Sullivan Hill Road

Contact: Ronnie Fick
Mt. Washington, KY 40047
The 2nd & 4th Monday of each Month

Phone: 502-538-4216

Your drinking water is currently purchased from Louisville Water Co. (LWC). The intake for the LWC is located on the Ohio River near the Zorn pumping station on Zorn Avenue. The Ohio River is classified as surface water. Our water comes primarily from the Crescent Hill Filter Plant. The source water assessment plan looks at LWC's susceptibility to potential sources of contamination. The plan identified spills of hazardous materials on the Ohio River and permitted discharges of sanitary sewers as the highest contamination risks. In Jefferson Co., land use in the protection area is primarily zoned for residential and commercial use, with only a few industrial sites. In Oldham and Trimble Counties land use is primarily zoned for residential and agricultural use. Therefore, source water contaminant risks are relatively low. LWC maintains preparedness and disaster services plan to address potential contaminant risks. To view the entire source water assessment and protection plan, contact Jim Smith at 502-569-3600. This report is also available upon request at City Hall, 311 Snapp Street, Mt. Washington, KY 40047, phone (502) 538-4216.

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).

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, ($\mu\text{g/L}$). 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.

A= Crescent Hill WTP B= B.E. Payne WTP C= Combined LWC Dist.Sys D= Mt. Washington W.C.	Allowable Levels	Source	Highest Single Measurement	Lowest Monthly %	Violation	Likely Source of Turbidity
Turbidity (NTU) TT * Representative samples of filtered water	No more than 1 NTU* Less than 0.3 NTU in 95% monthly samples	A= B=	0.07 0.09	100 100	No No	Soil runoff

Regulated Contaminant Test Results

Contaminant [code] (units)	MCL	MCLG	Source	Report Level	Range of Detection	Date of Sample	Violation	Likely Source of Contamination
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Inorganic Contaminants

Copper [1022] (ppm) sites exceeding action level 0	AL = 1.3	1.3	D=	0.176 (90 th percentile)	0.003 to 0.24	Aug-2016	No	Corrosion of household plumbing systems
Fluoride [1025] (ppm)	4	4	A= B=	0.7 0.7	0.7 to 0.7 0.7 to 0.7	2018 2018	No No	Water additive which promotes strong teeth
Lead [1030] (ppb) sites exceeding action level 0	AL = 15	0	D=	1 (90 th percentile)	0 to 7	Aug-2016	No	Corrosion of household plumbing systems
Nitrate [1040] (ppm)	10	10	A= B=	1.1 0.3	1.0 to 1.2 0.3 to 0.3	2018 2018	No No	Fertilizer runoff; leaching from septic tanks, sewage; erosion of natural deposits

Synthetic Organic Contaminants including Pesticides and Herbicides

2,4-D [2105] (ppb)	70	70	A=	BDL	BDL to 0.3	2018	No	Runoff from herbicide used on row crops
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Disinfectants/Disinfection Byproducts and Precursors

Total Organic Carbon (ppm) (report level=lowest avg. range of monthly ratios)	TT*	N/A	A=	1.46	1.00 to 1.97	2018	No	Naturally present in environment.
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*Monthly ratio is the % TOC removal achieved to the % TOC removal required. Annual average must be 1.00 or greater for compliance.

Chloramines (ppm)	MRDL = 4	MRDLG = 4	D=	2.38 (highest average)	1.00 to 3.40	2018	No	Water additive used to control microbes.
HAA (ppb) (Stage 2) [Haloacetic acids]	60	N/A	D=	0.019 (average)	0.001 to 0.028 (range of individual sites)	2018	No	Byproduct of drinking water disinfection
TTHM (ppb) (Stage 2) [total trihalomethanes]	80	N/A	D=	42 (average)	14 to 43 (range of individual sites)	2018	No	Byproduct of drinking water disinfection.

Unregulated Contaminants (UCMR 4)

	average	range (ppb)	date
Manganese	A= 1.6	0.6 to 2.4	2018
Manganese	B= 3.7	2.3 to 5.0	2018
HAA6Br	C= 5.33	0.94 to 12.39	2018
HAA9	C= 27.54	3.48 to 60.03	2018
Quinoline	A= BDL	BDL to 0.05	2018

EPA has not established drinking water standards for unregulated contaminants. There are no MCL's and therefore no violations if found.

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.

This report will not be sent to individual customers. It will be available at City Hall upon request.

Maximum Contaminant Level (MCL's) are set at very stringent levels. 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.

Violation 2018-9457218 / MOR Monthly Operational Report

We received a Notice of Violation (NOV) from our primary agency, Kentucky Division of Water. **Description of Non Compliance:** Our system failed to submit the Monthly Operating Report for the compliance period 05/01/2018 - 05/31/2018. **Comments:** MOR Late: The May 2018 MOR was mailed to the Division of Water on 06/11/2018 and was received by 06/20/2018. MORs must be placed in the mail before the 10th to be received by Division of Water. **Remedial Measures:** Submit the MOR, if available. We submit the MOR at first opportunity after receiving the information from LWC. There were no health effects due to this administrative concern.

Violation 2018-9457219 / CCR Consumer Confidence Rule

We received a Notice of Violation (NOV) from our primary agency, Kentucky Division of Water. **Description of Non Compliance:** Our system failed to submit the Consumer Confidence Report (CCR) for the compliance period 01/01/2018 - 07/01/2018. **Comments:** Failure to produce and deliver a copy of the CCR to the public by July 1, 2018. Produce, distribute, and submit a copy of the calendar year 2017 CCR and detail this violation in the next CCR violation statement list. **Remedial Measures:** This NOV must be discussed, detailing the nature of the NOV in next year's CCR. We will follow a checklist during our submittal process to insure all information is complete and on time. There were no health effects due to this administrative concern.

Violation 2018-9457220 / MOR Monthly Operating Report

We received a Notice of Violation (NOV) from our primary agency, Kentucky Division of Water. **Description of Non Compliance:** Our system failed to submit the Monthly Operating Report for the compliance period 08/01/2018 - 08/31/2018. **Comments:** MOR Late: The August 2018 MOR was mailed to the Division of Water on 09/10/2018 therefore was not possible to arrive by the 10th. MORs must be placed in the mail before the 10th to be received by Division of Water. **Remedial Measures:** Submit the MOR, if available. We submit the MOR at first opportunity after receive the information from LWC. There were no health effects due to this administrative concern.