Reid Village Water District Water Quality Report 2019

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Meeting Location and Time: Second Tuesday of Jan, Apr, Jul, Oct at 5:00pm at the water office (950 Winchester Road, Mt. Sterling)

Source Information:

We are pleased to present this year's Annual Water Quality Report (Consumer Confidence Report) as required by the Safe Drinking Water Act. This report is designed to provide details about where your water comes from, what it contains, and how it compares to standards set by regulatory agencies. We purchase water from Mt. Sterling Water and Sewer. Their primary raw water source is surface water from Slate Creek, with Greenbrier Reservoir being a secondary supply of surface water. An analysis of the susceptibility of Mt. Sterling's raw water supply to contamination indicates that the susceptibility potential is considered high, referring to the potential for an occurrence of a contamination event. The potential contaminants of greatest concern include several major roadways and bridges that extend along streams that drain in the water source, numerous car repair facilities, salvage yards in the area, and three identified by the EPA as super fund sites. A super fund site is defined as any land in the United States that has been contaminated by hazardous waste and identified by EPA as a candidate for cleanup because it poses a risk to human health and/or the environment. The complete source water assessment can be reviewed at the Gateway Area Development Office in Morehead, KY.

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, (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.

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.

Regulated Contaminant Testing Results from Mt. Sterling Water Works

Regulated Contaminant Test Results Mt. Sterling Water									
Contaminant			Report	Range		Date of	Violation	Likely Source of	
[code] (units)	MCL	MCLG	Level	of Detection		Sample		Contamination	
Inorganic Contaminants									
Barium [1010] (ppm)	2	2	0.018	0.018 to	0.018	Feb-19	No	Drilling wastes; metal refineries; erosion of natural deposits	
Fluoride								Water additive which	
[1025] (ppm)	4	4	0.7	0.7 to	0.7	Feb-19	No	promotes strong teeth	
Nickel (ppb)									
(US EPA remanded MCL in February 1995.)	N/A	N/A	2.8	2.8 to	2.8	Feb-19	No	N/A	
Nitrate								Fertilizer runoff; leaching	
[1040] (ppm)	10	10	0.621	0.621 to	0.621	Nov-19	No	from septic tanks, sewage; erosion of natural deposits	
Disinfectants/Disinfection	n Byproc	lucts and Pre	cursors						
Total Organic Carbon (ppm)			1.32					Naturally present in environment.	
(measured as ppm, but	TT*	N/A	(lowest	0.25 to	1.96	2019	No		
reported as a ratio)			average)	(month	ly ratios)			CHVII OHIHCHI.	
*Monthly ratio is the % TOC removal achieved to the % TOC removal required. Annual average must be 1.00 or greater for compliance.									
Other Constituents									
Turbidity (NTU) TT	Al	lowable	Highest Single		Lowest Violatio				
* Representative samples	I	Levels	Measurement		Monthly %		Likely	Likely Source of Turbidity	
	No more	than 1 NTU*							
clarity of the water and not	Less than	0.3 NTU in	0.	312	100	No Soil runoff		Soil runoff	
a contaminant.	95% of m	onthly samples							

Regulated Contaminant Testing Results for Reid Village Water District

Regulated Contaminant Test Results Reid Village Water District										
Contaminant			Report	Range		Range		Violation	Likely Source of	
[code] (units)	MCL	MCLG	Level	of Detection		Sample		Contamination		
Chlorine	MRDL	MRDLG	0.99						Water additive used to control microbes.	
(ppm)	= 4	= 4	(highest	0.27	to	1.61	2019	No		
			average)							
HAA (ppb) (Stage 2)			60						Byproduct of drinking water	
[Haloacetic acids]	60	N/A	(high site	16	to	97	2019	No	disinfection	
			average)	(range o	f indiv	vidual sites)			distillection	
TTHM (ppb) (Stage 2)			72						Byproduct of drinking water disinfection.	
[total trihalomethanes]	80	N/A	(high site	25.8	to	114.9	2019	No		
			average)	(range o	f indiv	vidual sites)			disinfection.	
Household Plumbing Co	Household Plumbing Contaminants									
Copper [1022] (ppm)	AL =		0.107						Corrosion of household plumbing systems	
sites exceeding action level	1.3	1.3	(90th	0.0046	to	0.122	Aug-17	No		
0			percentile)						pruntoning systems	
Lead [1030] (ppb)	AL =		5						Corrosion of household	
sites exceeding action level	15	0	(90th	0	to	39	Aug-17	No	plumbing systems	
1			percentile)						prumonig systems	

Unregulated Contaminant Testing Results from Mt. Sterling Water Works

Unregulated Contaminants (UCMR 4)	average	range	(ppb)	date
Manganese	0.148	0 to	0.59	Sep-19
HAA5	45.875	16 to	81	Dec-19
HAA6Br	6.013	3.4 to	9.6	Dec-19
HAA9	51.75	20 to	89	Dec-19

Unregulated Contaminant Testing Results for Reid Village Water District

Unregulated Contaminants (UCMR 4)	average	range (ppb)	date
HAA5	57.200	33 to 88.	.8 Nov-19
HAA6Br	9.406	5.8 to 12.:	58 Nov-19
HAA9	66.531	38.8 to 99.	.6 Nov-19

Your drinking water from Mt. Sterling Water Works and Reid Village 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.

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