Levee Road Water Association Water Quality Report 2018

Water System ID: KY0870246 Manager: Chad Linkous CCR Contact: Chad Linkous Phone: 859-498-6980

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Meeting Location and Time: 4969 Levee Road, Mt. Sterling on second Thursday each month at 7:00 PM.

Source Information:

Mt. Sterling produces the water for Levee Road Water Association. Mt. Sterling's treated water is derived from two interconnected sources of raw water. The primary source is Slate Creek, with Greenbrier Reservoir being the secondary supply. Both sources are surface water. Normally water is withdrawn primarily from Slate Creek and Greenbrier Reservoir used as a reserve during periods of low flow conditions. The Gateway Area Development District has completed a Source Water Protection Plan which identifies possible sources of contamination that could negatively impact Mt. Sterling's raw water supplies. Based on this study the susceptibility rating is considered high. The areas of greatest concern include major roadways and bridges which extend over and along streams within the Slate Creek/Greenbrier water sheds. Additionly, there are numerous car repair facilities, salvage yards and three specifically identified super fund sites. A copy of this report is available for review at the Mt Sterling 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, (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 for Levee Road Water Association

Regulated Contaminant	Test Res	ults	Levee Road	Water Asso	ciation						
Contaminant			Report	Range		Date of	Violation	Likely Source of			
[code] (units)	MCL	MCLG	Level	of Detection		Sample		Contamination			
Inorganic Contaminants	S						•	•			
Copper [1022] (ppm)	AL =		0.0525					Corrosion of household			
sites exceeding action level	1.3	1.3	(90 th	0.0037 to	0.0616	Sep-17	No	plumbing systems			
0			percentile)					prumonig systems			
Disinfectants/Disinfection Byproducts and Precursors											
Chlorine	MRDL	MRDLG	1.07					Water additive used to control			
(ppm)	= 4	= 4	(highest	0.44 to	1.71	2018	No	microbes.			
			average)					inici occs.			
HAA (ppb) (Stage 2)			51					Drama duat of deintrin a rent on			
[Haloacetic acids]	60	N/A	(high site	12 to	61	2018	No	Byproduct of drinking water disinfection			
			average)	(range of indi	vidual sites)			districction			
TTHM (ppb) (Stage 2)			45					Byproduct of drinking water			
[total trihalomethanes]	80	N/A	(high site	22.1 to	71.2	2018	No	disinfection.			
			average)	(range of indi	vidual sites)			dishifteetion.			

Regulated Contaminant Testing Results for Mt. Sterling Water Works

	Allowable Levels		Highest Single Measurement		Lowest	Violation						
					Monthly %		Likely Source of Turbidity					
Turbidity (NTU) TT	No more t	than 1 NTU*										
* Representative samples	Less than 0.3 NTU in		0.18		100	No		Soil runoff				
of filtered water	95% of monthly samples											
Regulated Contaminant Test Results												
Contaminant			Report	Ra	nge	Date of	Violation	Likely Source of				
[code] (units)	MCL	MCLG	Level of De		ection	Sample		Contamination				
Inorganic Contaminants												
Barium [1010] (ppm)	2	2	0.017	0.017 to	0.017	Feb-18	No	Drilling wastes; metal refineries; erosion of natural deposits				
Fluoride [1025] (ppm)	4	4	0.70	0.7 to	0.7	Feb-18	No	Water additive which promotes strong teeth				
Nitrate [1040] (ppm)	10	10	0.572	0.572 to	0.572	Nov-18	No	Fertilizer runoff; leaching from septic tanks, sewage; erosion of natural deposits				
Thallium [1085] (ppb)	2	0.5	0.5	0.5 to	0.5	Feb-18	No	Leaching from ore-processing sites; discharge from glass, electronics, and drug factories				
Disinfectants/Disinfection	on Byprod	ducts and Pred	cursors									
Total Organic Carbon (ppm) (measured as ppm, but reported as a ratio)	TT*	N/A	1.78 (lowest average)	1.00 to (month)	2.86 ly ratios)	2018	No	Naturally present in environment.				
*Monthly ratio is the % TOC removal achieved to the % TOC removal required. Annual average must be 1.00 or greater for compliance.												