Todd County Water District Water Quality Report 2015

Water System ID: KY1100944 Manager: John Halev

(270)265-2229

CCR Contact: John Haley

(270)265-2229 tcwd@gmail.com.com

Mailing address: P.O. Box 520 Elkton, KY 42220

Meeting location and time: 2201 New HWY 68 West Last Monday each month at 6:30 PM

This report is designed to inform the public about the quality of water and services provided on a daily basis. Our commitment is to provide a safe, clean, and reliable supply of drinking water. We want to assure that we will continue to monitor, improve, and protect the water system and deliver a high quality product.

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. Immunocompromised 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.

Type and Location of Source Water

The Todd County Water District purchases all of its water from the Logan Todd Regional Water Commission (LTRWC). LTRWC produces treated water at the George W. Arnold Treatment Plant. The raw water intake is surface water located in the main channel of the Cumberland River, in Clarksville, Montgomery County, Tennessee. The protection area taken into consideration is from the LTRWC intake point to the Clarksville Water System intake upstream. Urban nonpoint source runoff may contribute contamination to the water supply by delivering sediment, oil and grease, road salt, fertilizer, pesticides, nutrients, and other contaminants to the Cumberland River. Transportation corridors pose a significant threat to water quality. Transportation accidents can release substances into the water supplies, threatening water quality. Tractor-trailers, Barges, rail cars and pipelines all have the potential for adverse impact to our water supply. A state primary road-TN 13crosses the Cumberland River, as do the Cunningham Bridge and the L&N Railroad Bridge. Water sources have bee rated as reasonably susceptible (high), moderately susceptible (moderate) or slightly susceptible (low) based on geologic factors and human activities in the vicinity of the water source. The water source for LTRWC is rated as reasonably susceptible to potential contamination. For more information regarding the LTRWC source water protection area and plan, contact LTRWC located at 248 Tower Street in Guthrie, Kentucky.

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, $(\mu g/L)$. 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.

Todd County Water District 2015 Water Quality Data KY1100944

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. Unless otherwise noted, the report level is the highest level detected.

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	Allowable		Highest Single		Lowest Monthly %	Violation		*** * *	
		Levels		Measurement			Likely Source		
Turbidity (NTU) TT		han 1 NTU*							
* Representative samples	Less than 0.3 NTU in		0.113		100	No		Soil runoff	
of filtered water		onthly samples							
Regulated Contaminant	t Test Res	ults							
Contaminant			Report	eport Range		Date of	Violation	Likely Source of	
[code] (units)	MCL	MCLG	Level	of Det	tection	Sample		Contamination	
Microbiological Contan	ninants						_		
Total Coliform Bacteria	1	0	3	N/A		Jul-15	Yes	Naturally present in the	
# or % positive samples								environment	
Inorganic Contaminant	S								
Barium								Drilling wastes; metal	
[1010] (ppm)	2	2	0.024	0.024 to	0.024	Jun-15	No	refineries; erosion of natural deposits	
Copper [1022] (ppm)	AL =		0.058						
sites exceeding action level	1.3	1.3	(90 th	0 to	0.095	Sep-13	No	Corrosion of household plumbing systems	
0			percentile)					plumonig systems	
Fluoride									
[1025] (ppm)	4	4	0.95	0.95 to	0.95	Jun-15	No	Water additive which promotes strong teeth	
Nitrate								Fertilizer runoff; leaching	
[1040] (ppm)	10	10	0.17	0.17 to	0.17	Feb-15	No	from septic tanks, sewage; erosion of natural deposits	
Disinfectants/Disinfection	on Byprod	ducts and Pre	cursors					•	
Total Organic Carbon (ppm)			1.38						
(measured as ppm, but	TT*	N/A	(lowest	1.07 to	1.76	2015	No	Naturally present in environment.	
reported as a ratio)			average)	(month)	ly ratios)			environment.	
*Monthly ratio is the % TOC re	emoval achie	ved to the % TOO	C removal req	uired. Annual a	verage must be	1.00 or greater	for complian	ce.	
Chlorine	MRDL	MRDLG	1.72						
(ppm)	= 4	= 4	(highest	0.42 to	2.18	2015	No	Water additive used to control microbes.	
			average)					inicioucs.	
HAA (ppb) (Stage 2)			43						
[Haloacetic acids]	60	N/A	(high site)	29 to	43	2015	No	Byproduct of drinking water disinfection	
(Annual Sample)				(range of inc	lividual sites)			distillection	
TTHM (ppb) (Stage 2)			81	-	· ·				
[total trihalomethanes]	80	N/A	(high site)	31 to	81	2015	No	Byproduct of drinking water disinfection.	
(Annual Sample)					ndividual sites)			distrilection.	
((Image of file					

The Todd County Water District exceeded the MCL for total coliform bacteria for the compliance period of 7/1/2015-7/31/2015. Violation # 2015-9951411. The distibution system has been flushed and additional samples do not show the presents of total coliform bacteria. The public notice was sent out on 10/26/2015.

The Todd County Water District received a Public Notice Violation because our system failed to certify to the state that a public notice was used[secondary distribution (post around town or put in news paper)]. Violation # 2016-9951412. There is nothing to do at this time. We have revised our procedures so that future submittals contain all required information.