Wheelwright Utilities Commission Water Quality Report 2018

Water System ID: KY0360463 Manager: Westley Little 606-452-4267 CCR Contact: Westley Little 606-452-4267 www.aterplant@hotmail.com Mailing Address: P.O. Box 355 Wheelwright, KY 41669 Meeting location and time: Municipal Building 2nd Wednesday monthly at 6PM

The source of raw water for the Wheelwright Utility Commission is groundwater from the abandoned underground mine works of the Elkhorn #3 coal seam in Floyd County. Water is pumped from the mine and processed at the treatment plant. An analysis of the overall susceptibility to contamination of the water supply indicates that the susceptibility is moderate. There are a total of 39 potential sources of contamination within the wellhead protection area. The area around the mine is mostly residential but also contains some agricultural, recreational, and light industry activities. Sources of potential impact include septic systems overlying the aquifer. Activities and land within the watershed can pose potential risks to your drinking water. Under certain circumstances contaminants could be released that would pose challenges to water treatment or even get into your drinking water. These activities, and how they are conducted, are of interest to the entire community because they potentially affect your health and the cost of treating your water. The complete Susceptibility Analysis Report is available at the Big Sandy Area Development District.

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, (µgL). 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.

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.

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. Copies of this report are available upon request by contacting our office during business hours.

	Allowable		Highest Single			Lowest	Violation		
		Levels	Measurem	ent	N	Aonthly %		Likely	Source of Turbidity
Turbidity (NTU) TT	No more	than I NI U*	0.12			100	No		a 11 - CC
* Representative samples	Less than	0.3 NTU in				100		Soil runoff	
of filtered water	95% of m	onthly samples	**/						
Regulated Contaminant	Test Resi	ults	Wheelwrig	ht Utilitio	es			I	
Contaminant			Report		Rang	ge	Date of	Violation	Likely Source of
[code] (units)	MCL	MCLG	Level	of	Dete	ction	Sample		Contamination
Inorganic Contaminants				1			1		1
Barium [1010] (ppm)	2	2	0.038	0.038	to	0.038	Aug-18	No	Drilling wastes; metal refineries; erosion of natural deposits
Copper [1022] (ppm)	AL =		0.0525						~
sites exceeding action level	1.3	1.3	(90 th	0.0105	to	0.146	Aug-18	No	Corrosion of household
0			percentile)				e		plumbing systems
Fluoride			1						
[1025] (ppm)	4	4	0.80	0.8	to	0.8	Aug-18	No	Water additive which promotes strong teeth
Lead [1030] (ppb)	AL =		2						
sites exceeding action level	15	0	(90 th	0	to	7	Aug-18	No	Corrosion of household
0			percentile)						plumbing systems
Nickel (ppb)									
(US EPA remanded MCL in	N/A	N/A	2.5	2.5	to	2.5	Aug-18	No	N/A
February 1995)									
Nitrate									Fertilizer runoff; leaching
[1040] (ppm)	10	10	0.16	0.16	to	0.16	Feb-18	No	from septic tanks, sewage;
									erosion of natural deposits
Selenium									Discharge from petroleum and
[1045] (ppb)	50	50	2.5	2.5	to	2.5	Aug-18	No	metal refineries or mines;
							e		erosion of natural deposits
Disinfectants/Disinfecti	on Bypro	ducts and Pred	cursors						
Total Organic Carbon (ppm))		1						
(measured as ppm, but	TT*	N/A	(lowest	1.00	to	1.00	2018	No	Naturally present in
reported as a ratio)			average)	(moi	nthly	ratios)		environment.	
Chlorine	MRDL	MRDLG	1.55	, , , , , , , , , , , , , , , , , , ,	,	,			
(ppm)	= 4	= 4	(highest	1.12	to	1.8	2018	No	Water additive used to control
(11)			average)						microbes.
HAA (npb) (Stage 2)			2						
[Haloacetic acids]	60	N/A	(high site)	1	to	2	2018	No	Byproduct of drinking water
(Annual Sample)		1.1/21	(ingli site)	(range of	f indix	- vidual sites)	2010	disinfection	
TTHM (nnh) (Stage 2)			6		. mur	51(05)			
[total tribalomethanes]	80	N/A	(high site)	0	to	6	2018	No	Byproduct of drinking water
(Annual Sample)		11/17	(ingi site)	(range of	findia	vidual sites)	2010	110	disinfection.
(1 minuter bampie)	<u> </u>			L'unde of	mun	(idual Sites)		1	

*Total Organic Carbon: Monthly ratio is the percent TOC removal achieved to the percent TOC removal required. Annual average must be 1.00 or greater for compliance. We just began monitoring for TOC in December 2018 so we did not have sufficient data to calculate the quarterly or annual values; however, the monthly samples from December 2018 showed an adequate removal ratio.

	Average	Range of Detection		
Fluoride (added for dental health)	0.8	0.37 to 1.42		
Sodium (EPA guidance level = 20 mg/L)	29.5	29.5 to 29.5		

Secondary contaminants do not have a direct impact on the health of consumers and are not required in the Consumer Confidence Report. They are being included to provide additional information about the quality of water.

Saaandam: Cantaminant	Maximum Allowabla	Report	Range	Date of
Secondary Contaminant	Level	Level	of Detection	Sample
Aluminum	0.05 to 0.2 mg/l	0.06	0.06 to 0.06	Feb-18
Chloride	250 mg/l	12.4	12.4 to 12.4	Feb-18
Color	15 color units	18	18 to 18	Feb-18
Copper	1.0 mg/l	0.0057	0.0057 to 0.0057	Feb-18
Corrosivity	Noncorrosive	-1.14	-1.14 to -1.14	Feb-18
Fluoride	2.0 mg/l	0.9	0.9 to 0.9	Feb-18
Iron	0.3 mg/l	0.106	0.106 to 0.106	Feb-18
Odor	3 threshold odor number	2	2 to 2	Feb-18
pН	6.5 to 8.5	7.48	7.48 to 7.48	Feb-18
Sulfate	250 mg/l	78.1	78.1 to 78.1	Feb-18
Total Dissolved Solids	500 mg/l	133	133 to 133	Feb-18
Zinc	5 mg/l	0.01	0.01 to 0.01	Feb-18

Violations 2019-8915721, 2019-8915722, and 2019-8915723

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 October, November and December 2018, we did not complete all monitoring or testing for Total Carbon, and therefore cannot be sure of the quality of your drinking water during that time.

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.

The Division of Water recently determined that we need to begin monitoring for Total Carbon. We were unaware that monitoring was to begin in October 2018 so we did not begin pulling those samples. By the time we realized we were out of compliance we had also missed the November monthly sampling event. We did pull samples for analysis in December, but our contract laboratory failed to report those results to the Division of Water. As soon as we learned that the report had not been received, we submitted it. We have since returned to compliance and are completing our monthly testing for Total Carbon, as required.

For more information, please contact Westley Little at 606-452-4273 or PO Box 355, Wheelwright, KY 41669.

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. Contact our office if you would like a copy mailed to you.