Ayersville Water and Sewer District, Defiance Ohio 2017 Annual Drinking Water Quality Report

The Ayersville Water and Sewer District is pleased to present to you this year's Annual Quality Water Report. This report is designed to inform you about the quality and services we deliver to you every day. Our constant goal is to provide you with a safe and dependable supply of drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water. Our water source is surface water taken from the Maumee River and pumped into an up-ground reservoir operated by the City of Defiance.

This report shows our water quality and what it means. If you have any questions about this report or concerning your water utility, please contact the office at (419) 395-1733. We want our valued customers to be informed about their water utility. If you want to learn more, please attend any of our regular scheduled Board meetings. They are held every month on the third Thursday at 7:00 pm in the Ayersville Water and Sewer District building at 13961 Fruit Ridge Road, Defiance, Ohio.

The District pumped 33,580,700 million gallons of waters to our customers during 2017, which was up from 2016's distribution of 32,050,285 million gallons. The District is a satellite district of Defiance. Therefore, the District is influenced by Defiance's test results. In accordance with the Federal and State laws, we routinely monitor for chlorine, daily; bacteria, monthly; total trihalomethanes, quarterly; and lead and copper, triannually. The table on page four shows the results of the Defiance Water Treatment Plant's monitoring for the period of January 1st to December 31st, 2017; as well as results from analysis of the District's sampling.

The District was in violation for exceeding the maximum contaminant level (MCL) standard of 0.080 mg/L as established in the Ohio Administrative Code (OAC) section 3745-81-12 for TTHM. Compliance with the MCL is based on a allocation running annual average (LRAA). The LRAA for TTHM during the Second Quarter of 2017-time period was 0.087 mg/L at location DS201 and 0.0893 mg/L at location DS202. Third Quarter of 2017-time period was 0.0801 mg/L at location DS201 and 0.0822 mg/L at location DS202. During Fourth Quarter of 2017-time period the LRAA was 0.0795 mg/L at location DS201 and 0.089 mg/L at location DS202. Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous systems and may have an increased risk of getting cancer. TTHMs are a by-product of disinfection and as water sits over time in the Districts distribution system, these byproducts can accumulate in your water. Increased flushing can help alleviate this buildup by decreasing the time water sits. Be assured that the District is currently pursuing efforts to address and remedy our TTHM exceedances. The District has fluctuated tower levels in order to get more volume of water flowing in and out of the water tower. The flushing routine of our hydrants has been updated to potentially cause a more thorough flushing of the District's distribution system, at the same time we are coordinating with the City of Defiance's flushing schedule to provide fresher water to be flushed through the system. A contract has been signed with a local engineering firm an ongoing study is being done to determine the best feasible soloution to this issue. We are encouraged that these efforts will show positive change in the near future as it concerns our current TTHM issues.

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 can pick up substances resulting from the presence of animals or from human activity. Surface waters are by their nature, susceptible to contamination, and there are numerous potential contaminant sources, including agricultural runoff, oil/gas wells, inadequate septic systems, leaking underground storage tanks, and road and rail crossings. As a result, the surface water supplied to these plants is considered to have a high susceptibility to contamination.

Contaminants that may be present in source water include: (A) Microbial contaminants such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife; (B) Inorganic contaminants such as salts and metals, which can be naturally-occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming; (C) Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and septic systems; (D) Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban Strom water runoff, and septic systems; (E) Radioactive contaminants, which can be naturally-occurring or be the result of oil gas production and mining activities.

In order to ensure that tap water is safe to drink, USEPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water which must provide the same protection for public health. 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 can be obtained by calling the Federal Environmental Protection Agency's Safe Drinking Water Hotline (1-800-426-4791).

Microbiological Contaminants:

Turbidity. Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease- causing organisms. The organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, diarrhea, and associated headaches.

Inorganic Contaminants:

Nitrate. Infants below the age of six months who drink water-containing nitrate in excess of the MCL could become seriously ill and, if untreated, may die. Symptoms include shortness of breath and blue-baby syndrome.

Lead Educational Information:

A public water system is required to collect samples at homes that are a high risk to have elevated lead and copper levels in their water. A public water system is in compliance if the 90th percentile is no greater than 15ppb for lead and 1.3 ppm for copper.

"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. Ayersville Water and Sewer District is responsible for providing high quality water drinking water, but cannot control the variety of materials used in plumbing components. When your water has been still/not flowing 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 at (1-800-426-4791) or at http://www.epa.gov/safewater/lead."

Some people who drink water containing fluoride well in excess of the MCL over years could get bone disease, including pain and tenderness of the bones. Children may get mottled or discolored teeth.

In the table on page 4, you will find many terms and abbreviations you might not be familiar with. To help you better understand these terms we have provided the following definitions:

Abbreviated Definitions:

AL—Action Level. The concentration of a contaminant, which if exceeded, triggers treatment or other requirements.

NA-Not Available.

ND-No Detection.

TT—Treatment Technique. Required process intended to reduce the level of a contaminate in drinking water.

ppm or mg/L—Parts Per Million. Milligrams per liter or parts per million - or one ounce in 7,350 gallons of water. One part per million corresponds to one minute in two years.

ppb or ug/L—Parts Per Billion. Micrograms per liter or parts per billion - or one ounce in 7,350,000 gallons of water. One part per billion corresponds to one minute in 2,000 years.

NTU—Nephelometric Turbidity Unity. A measure of the clarity of water.

Turbidity in excess of 5 NTU is just noticeable to the average person.

pCi/L—Picocuries Per Liter. Measure of radioactivity in water.

MCL—Maximum Contaminant Level. Maximum allowable amount of a contaminant that is allowed in drinking water.

MCLG--Maximum Contaminant Level Goal. 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.

MRDL--Maximum Residual Disinfectant Level. The highest residual disinfectant level allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

MRDLG--Maximum Residual Disinfectant Level Goal. The level of residual disinfectant below which there is no known or expected risk to health.

RAA—Running Annual Average.

TTHM—Total Trihalomethanes. A by-product of disinfection.

pCi/L--Picocuries per liter. A common measure of radioactivity.

Microcystins: Liver toxins produced by a number of cyanobateria. Total microcystins are the sum of all the variants/congener (forms) of the cyanotoxians microcystin.

Cyanobacteria: Photosynthesizing bacteria, also called blue-green algae, which naturally occur in marine and fresh water ecosystems, and may produce cyanotoxians, which at sufficiently high concentrations can pose a risk to public health.

Cyanotoxians: Toxin produced by cyanobacteria. These toxins include liver toxins, nerve toxins, and skin toxins. Also sometimes referred to as "algal toxin".

Inadequately treated water may contain disease-causing organisms. These organisms include bacteria, viruses, and parasites, which can cause symptoms such as nausea, cramps, diarrhea, and associated headaches.

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 two (2) liters of water every day at the MCL level for a lifetime to have a one-in-million chance of having the described health effect.

In our continuing efforts to maintain a safe and dependable water supply it may be necessary to make improvements in your water system. The costs of these improvements may be reflected in the rate structure. Rate adjustments may be necessary in order to address these improvements.

Thank you for allowing us to continue providing your family with clean, quality water this year. In order to maintain a safe and dependable water supply we sometimes need to make improvements that will benefit all of our customers. These improvements are sometimes reflected as rate structure adjustments. Thank you for understanding.

Some people may be more vulnerable to contaminants in the drinking than the general population. Immunocompromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplant, 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 are an appropriate means to lessen the risk of infection by cryptosporidium and other microbiological contaminants are available from the Safe Drinking Water Hotline (1-800-426-4791).

The Ayersville Water and Sewer District operates under a current, conditioned license from the Ohio EPA. Our Public Water System Identification (PWSID) is OH2000903 and is valid until January 30, 2019.

Please call our office if you have any questions. We work around the clock at the District to provide top quality water to every tap. We ask that all our customers help us in protecting our water sources. Water nourishes the seed of our community's health and well-being.

Eric Wenzinger/District Manager Ayersville Water and Sewer District 13961 Fruit Ridge Rd. Defiance, Ohio 43512 (419) 395-1733

			Cit	y of Defiance Test R	esults 2017		
Contaminants (Units)	MCLG	WCL	Level Found	Range of Detection	Violation Yes/No	Year Sampled	Typical Sources of Contaminants
Bacteriological							
Turbidity (NTU)	N/A	π	0.22	0.01-0.22	No	2017	
Turbidity (% Samples meeting standard)	N/A	TT=95%	100%	100%	No	2017	Soil Water Runoff

Microcystins (ppb) * N/A 0 0 0 No 2017 also known as blue-green algae, which under certic conditions (i.e., high nutrient concentration and ligitimens) intensity) may produce microcystins. *0.3 AL for children under 6 and sensitive populations 1.6 for children 6 and older and adults Total Organic Carbon TT N/A 2.25 1.9-2.6 No 2017 Naturally present in the environment The value reported under "Level Found" for TOC is the lowest ratio between the percentage of TOC actually removed to the percentage of TOC required to be removed. A value of greater than one (1) indicates that the water system is in compliance with TOC removal requirements. A value of less than one (1) indicates a violation of the TOC removal requirements. RadioActive Contaminants Combined Radium 226/228 (pci/L) 0 5 0.75 0.75 No 2017 By-product of drinking water chlorination Water additive used to control microbes. Inorganic Contaminants Fluoride (ppm) 4 4 1.09 0.80-1.21 No 2017 Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories. Nitrate (ppm) 10 10 3.9 0.58-3.90 No 2017 Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits. Partition (ppm) 2 2 2 2 0.0000 0.0000 No 2017 Discharge of drilling wastes; Discharge from septic tanks, sewage; Erosion of natural deposits.			,					
Motopostins (pipe)		0	1	0	0%	No	2017	Naturally present in the environment
Total Organic Carbon Tr		*	N/A	0	0	No	2017	Produced by some naturally occurring cyanobacter also known as blue-green algae, which under certal conditions (i.e., high nutrient concentration and ligi intensity) may produce microcystins.
Track Provided From Color Provided Fro		*(0.3 AL for childr	en under 6 an	d sensitive populatio	ns 1.6 for childre	n 6 and older and	adults
Residencial Contamination Property of the State		π	N/A	2.25	1.9-2.6	No	2017	Naturally present in the environment
Combined Redum Comb	indicates	that the water syster						
229/228 (pC/L)					1	1	1	
Fluoride (ppm)		0	5	0.75	0.75	No	2017	
Filturide (gpm)	Inorganic Contaminants	· r · · · · · · · · · · · · · · · · · ·	1	ı		1	1	
Nilitate (ppm) 10 10 3.9 0.58-3.90 No 2017 September Lanks, sewage, frozon of natural deposits.	Fluoride (ppm)	4	4	1.09	0,80-1.21	No	2017	
Sarbuni (pgm) Sarbuni (pgm) All and including Pestidides & Herbicides Atrains (ppb) 3 3 0.1 0.07-0.16 No 2017 Runoff from herbicide used on row crops. Simazine (ppb) 4 4 4 0.005 <0.05 No 2017 Runoff from herbicide used on row crops. Total Trihalonethanes Total Trihalonethanes Total Trihalonethanes Total Chlorine (ppm) N/A 80 90.5 31.8-104.3 No 2017 By-product of drinking water chlorination laborated and product of drinking water chlorination laborated and Copper Total Chlorine (ppm) MRDLG-4.0 1.48 0.5-2.3 No 2017 Water additive used to control microbes. Lead and Copper Contaminants (Units) Action Level (ALI) 15 ppb 1 < 2 No 2016 1 out of 31 samples ware found to have lead levels in excess of the lead action level of 15 ppb. Go out of 31 samples ware found to have copper levels in excess of the Action Level of 1.3 ppm. Ayersiville Water and Sever District Test Results 2017 Contaminants (units) MCLG MCL Found Range of Pound MRDL-4 MRDL-4 MRDL-4 I 0 0.7-1.3 No 2017 Naturally present in the environment Residual Disinfectants Total Chlorine (ppm) MRDLG MCL Found Range of Pound MRDLG-10 I 0 0 No 2017 Naturally present in the environment Residual Disinfectants Total Chlorine (ppm) MRDLG-10 I 0 0 No 2017 Naturally present in the environment Residual Disinfectants Total Chlorine (ppm) MRDLG-10 I 0 0 No 2017 Naturally present in the environment Residual Disinfectants Total Chlorine (ppm) MRDL-4 MRDL-4 MRDL-4 I 0 0.7-1.3 No 2017 Pypical Sources of Contaminants Total Chlorine (ppm) MRDL-4 MRDL-4 MRDL-4 I 0 0.7-1.3 No 2017 Pypical Sources of Contaminants Total Chlorine (ppm) MRDL-4 MRDL-4 MRDL-4 I 0 0.7-1.3 No 2017 Pypical Sources of Contaminants Total Chlorine (ppm) MRDL-4 MRDL-4 MRDL-4 I 0 0.7-1.3 No 2017 Pypical Sources of Contaminants Total Chlorine (ppm) MRDL-4 MRDL-4 MRDL-4 I 0 0.7-1.3 No 2017 Pypical Sources of Contaminants Total Chlorine (ppm) MRDL-4 MRDL-4 MRDL-4 I 0 0.7-1.3 No 2017 Pypical Sources of Contaminants Total Chlorine (ppm) Action Level Individual Results over	Nitrate (ppm)	10	10	3.9	0.58-3.90	No	2017	septic tanks, sewage; Erosion of natural
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Volatile Organic Contaminants Total Trihalomethanes (TTHM) (ppb) N/A 0.08 mg/L 89.3 54.5 - 113 Yes 2017 By-product of drinking water chlorination Haloacetic Acid (HAA5) (ppb) Lead and Copper Contaminants (Units) Action Level (AL) Individual Results over the AL the AL Power less than 15 ppb O 0.002 No 2017 Corrosion of household plumbing systems; Erosion of natural deposits. Copper 1.3 ppm O 0.034 No 2017 Corrosion of household plumbing systems; Frosion of household plumbing systems;	Residual Disinfectants			-			1	
Total Trihalomethanes (TTHM) (ppb) N/A 0.08 mg/L 89.3 54.5 - 113 Yes 2017 By-product of drinking water chlorination (THM) (ppb) Haloacetic Acid (HAA5) N/A 60 28. 14.1 - 35.1 No 2017 By-product of drinking water chlorination (ppb) Lead and Copper Contaminants (Units) Action Level (AL) Individual Results over the AL levels were less than 15 ppb 0 0.002 No 2017 Corrosion of household plumbing systems; crosion of natural deposits. Copper 1.3 ppm 0 0.034 No 2017 Corrosion of household plumbing systems; frosion of household plumbing systems;	Total Chlorine (ppm)	MRDL=4	MRDL=4	1.0	0.7-1.3	No	2017	Water additive used to control microbes.
Total Trihalomethanes (TTHM) (ppb) N/A 0.08 mg/L 89.3 54.5 - 113 Yes 2017 By-product of drinking water chlorination (THM) (ppb) Haloacetic Acid (HAA5) N/A 60 28. 14.1 - 35.1 No 2017 By-product of drinking water chlorination (ppb) Lead and Copper Contaminants (Units) Action Level (AL) Individual Results over the AL levels were less than 15 ppb 0 0.002 No 2017 Corrosion of household plumbing systems; crosion of natural deposits. Copper 1.3 ppm 0 0.034 No 2017 Corrosion of household plumbing systems; frosion of household plumbing systems;							····	
(TTHM) (ppb) N/A 0.08 mg/L 89.3 54.5 - 113 Yes 2017 By-product of crinking water chlorination Haloacetic Acid (HAA5) (ppb) N/A 60 28. 14.1 - 35.1 No 2017 By-product of drinking water chlorination (lead and Copper Contaminants (Units) Action Level (AL) Individual Results over the AL Power levels were less than Yiolation Year Sampled Typical Sources of Contaminants 15 ppb 0 0.002 No 2017 Corrosion of household plumbing systems; Frosion of natural deposits. Copper 1.3 ppm 0 0.034 No 2017 Corrosion of household plumbing systems; Frosion of household plumbing systems;								
Popper N/A 60 28. 14.1-35.1 No 2017 Sy-product of orinking water chlorination		nts						
Contaminants (Units) Action Level (AL) Individual Results over the AL. 90% of test levels were less than 15 ppb 0 0.002 No 2017 Corrosion of household plumbing systems; Frosion of natural deposits. Copper 1.3 ppm 0 0.034 No 2017 Corrosion of household plumbing systems; Frosion of household plumbing systems; Frosion of household plumbing systems;	Total Trihalomethanes [TTHM) (ppb)		0.08 mg/L	89.3	54.5 - 113	Yes	2017	
O out of 31 samples were found to have lead levels in excess of the lead action level of 15ppb Copper 1.3 ppm 0 0.034 No 2017 Corrosion of household plumbing systems;	Fotal Trihalomethanes (TTHM) (ppb) Haloacetic Acid (HAA5)	N/A						
Copper 1.3 ppm 0 0.034 No 2017 Corrosion of household plumbing systems; To out of 31 samples were found to have lead levels in excess of the lead action level of 15ppb Copper 1.3 ppm 0 0.034 No 2017 Corrosion of household plumbing systems;	Fotal Trihalomethanes (TTHM) (ppb) Haloacetic Acid (HAA5) (ppb) Lead and Copper	N/A N/A Action Level	60 Individual R	28. esults over	14.1 - 35.1 90% of test levels were less	No	2017 Year	8y-product of drinking water chlorination
Copper 1.3 ppm 0 0.034 No 2017 Corrosion of household plumbing systems;	Total Trihalomethanes (TTHM) (ppb) Haloacetic Acid (HAA5) (ppb) Lead and Copper	N/A N/A Action Level (AL)	60 Individual R	28. esults over	90% of test levels were less than	No Violation	2017 Year Sampled	8y-product of drinking water chlorination
Control of natural describe	Total Trihalomethanes (TTHM) (ppb) Haloacetic Acid (HAA5) (ppb) Lead and Copper Contaminants (Units)	N/A N/A Action Level (AL)	60 Individual R the	28. esults over AL	14.1 - 35.1 90% of test levels were less than 0.002	No Violation No	2017 Year Sampled 2017	By-product of drinking water chlorination Typical Sources of Contaminants Corrosion of household plumbing systems;
0 out of 31 samples were found to have copper levels in excess of the Action Level of 1.3 ppm.	Total Trihalomethanes (TTHM) (ppb) Haloacetic Acid (HAA5) (ppb) Lead and Copper Contaminants (Units)	N/A N/A Action Level (AL) 15 ppb 0 out of 31 sa	60 Individual R the	28. esults over AL und to have le	14.1 - 35.1 90% of test levels were less than 0.002 ad levels in excess o	No Violation No f the lead action le	2017 Year Sampled 2017 evel of 15ppb	By-product of drinking water chlorination Typical Sources of Contaminants Corrosion of household plumbing systems;
	Total Trihalomethanes (TTHM) (ppb) Haloacetic Acid (HAA5) (ppb) Lead and Copper Contaminants (Units)	N/A N/A Action Level (AL) 15 ppb 0 out of 31 ss 1.3 ppm	60 Individual R the 0 amples were fo	28. esults over AL	14.1 - 35.1 90% of test levels were less than 0.002 and levels in excess o	No Violation No f the lead action in	Year Sampled 2017 evel of 15ppb	By-product of drinking water chlorination Typical Sources of Contaminants Corrosion of household plumbing systems; Erosion of natural deposits. Corrosion of household plumbing systems;