

Annual Drinking Water Quality Report Avilla Water Department IN5257002

This Annual Water Quality Report is for the period of January 1 thru December 31, 2021. This report is intended to provide you with important information about your drinking water and the efforts made by the water system to provide safe drinking water.

For more information regarding this report contact Tena Woenker at 260-897-2781. It is also available on our website – www.avilla-in.org.

We encourage public interest and participation in our community's decisions affecting drinking water. Regular Town Council meetings are held on the third Wednesday of each month at 6:00 pm in Town Hall, 108 S. Main St. They are open to the public.

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. Avilla's water comes from 3 ground water wells at the south end of town about 130 feet deep.

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 EPA's Safe Drinking Water Hotline at (800) 426-4791.

Contaminants that may be present in source water include:

- Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- 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.
- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses.
- 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 storm water runoff, and septic systems.
- Radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the concentration of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water which 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 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 provider. EPA/CDC guidelines on appropriate means to limit the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Drinking Water Hotline (800-426-4791).

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Lead and 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 found in materials and components associated with service lines and home plumbing. Avilla Water Department is responsible for providing high quality drinking water but cannot control the variety of materials used in plumbing components. You share the responsibility for protecting yourself and your family from the lead in your home plumbing. You can take responsibility by identifying and removing lead material within your home plumbing and taking steps to reduce your family's risk. If you think lead may be present in your drinking water, before drinking, flush your pipes for several minutes by running your tap, taking shower, doing laundry or a load of dishes. You can also use a filter certified to remove lead from drinking water. If you are concerned about lead in your water, you may wish to have your water tested. Contact Avilla Water Department at 260-897-2781. 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 <http://www.epa.gov/safewater/lead>.

Exposure to lead can cause serious health effects in all age groups. Infants and children who drink water containing lead could have decreases in IQ and attention span and increased learning and behavior problems. Lead exposure among women who are pregnant increases prenatal risks. Lead exposure among women who later become pregnant has similar risks if lead stored in the mother's bones is released during pregnancy. Recent science suggests that adults who drink water containing lead have increased risks of heart disease, high blood pressure, kidney or nervous system problems.

Action Level Goal (ALG): The level of a contaminant in drinking water below which there is no known or expected risk to health. ALGs allow for a margin of safety.

Action Level: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements, which a water system must follow.

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	09/14/2021	1.3	1.3	0.096	0	0.030 ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.
Lead	09/14/21	0	15	1	0	0.002 ppb	N	Corrosion of household plumbing systems; Erosion of natural deposits.

Water Quality Test Results

Definitions: The following tables contain scientific terms and measures, some of which may require explanation.

Maximum Contaminant Level Goal or 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 Contaminant Level or 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 est available technology.

Maximum Residual Disinfectant Level goal or 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.

Maximum Residual Disinfectant Level or 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.

Avg:

Regulatory compliance with some MCLs is based on running annual average of monthly samples.

ppm:

Milligrams per liter or parts per million – or one ounce in 7,350 gallons of water.

ppb:

Micrograms per liter or parts per billion – or one ounce in 7,350,000 gallons of water

N/A

Not Applicable

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Regulated Contaminants

Disinfectants and Disinfection By-Products	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Chlorine	2021	0	0 - 1	MRDLG = 4	MRDL = 4	ppm	N	Water additive used to control microbes.
Total Trihalomethanes (TTHM)	2021	5	4.7-5	No goal for total	80	ppb	N	By-product of drinking water disinfection.
Total Haloacetic Acids (HAA5)	2021	<6	<6	NA	10	ppb	N	By-product of drinking water disinfection.
Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Arsenic	09/13/2017	1.3	1.3 - 1.3	0	10	ppb	N	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes.
Barium	09/11/2020	0.35	0.35 - 0.35	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Fluoride	09/11/2020	1.25	1.25 - 1.25	4	4.0	ppm	N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
Nitrate [measured as Nitrogen]	9/16/2021	0.46	0.46 - 0.46	.05	2	ppm	N	Runoff from fertilizer use; Leaching from septic tanks and sewage; Erosion of natural deposits.
Radioactive Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Gross alpha excluding radon and uranium	9/23/2021	.290	.240 - .290	0	15	pCi/L	N	Erosion of natural deposits.
Combined Radium 226/228	9/23/2021	1.34	.74 - 1.34	0	5	pCi/L	N	Erosion of Natural Deposits
Uranium	2015	0.31	0.31 - .031	0	30	pCi/L	N	Erosion of Natural Deposits
Organic Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Bromodichloromethane	2021	1.3	1.3 -1.3	NA	NA	ppb	N	Disinfection By-Product
Chloroform	2021	1.4	1.4 - 1.4	NA	NA	ppb	N	Disinfection By-Product

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Daily testing of Avilla's water in 2018 found iron in our finished water in the range of 0.01 to 1.1 parts per million. Iron comes from erosion of natural deposits in the earth. When our water comes out of the well it contains between 2 & 3 parts per million of iron. It is filtered to remove the iron to the levels mentioned above.

We add chlorine to our water to provide disinfection. When the water leaves the water treatment plant it contains chlorine of about 1 part per million. By the time it gets to the farthest points away from the plant the chlorine level is about 0.5 parts per million. **Hint: think of 1 part per million as 1 inch in 16 miles. 1 part per billion is equivalent to 1 inch in 16,000 miles.** We deliver between 150,000 and 300,000 gallons of water to our customers every day.

Avilla's water is not softened before it enters your residence or business. **The hardness of our water is 20 to 24 grains per gallon or 342 to 393 parts per million.**

Did you know that **we have about 14 miles of underground water mains** in our town that provide drinking water and fire protection to our customers? They range in size from 4" to 12". Some of them are PVC pipes. Others are cast iron or ductile iron.

Avilla has adopted a Wellhead Protection Plan for the area from which our water comes underground. The Plan identifies potential sources of contamination within the Protection Area and outlines procedures to protect our water if there should be a spill. The Plan was updated in 2021 (Phase 2). If you would like to review the plan, please call Brian Carroll at 260-897-2781 or stop in at Avilla Town Hall, 108 S. Main Street.

Please help us keep your water safe. Dispose of hazardous substances including pharmaceuticals in an appropriate manner. Chemicals, paint and other hazardous materials may be taken to the Northeast Indiana Solid Waste District in Ashley, Indiana for proper disposal. They accept these and other recyclables at their facility east of Ashley on County Road 800S. Their number is 260-925-4857.

Thank you.

Avilla Water Department
Office: 108 S. Main St.
260-897-2781