

ARGENTA Public Water Supply 2022 Drinking Water Quality Report



Argenta
IL 1150050

Annual Water Quality Report
for the period of January 1 to
December 31, 2022

This report is intended to provide you with important information about your drinking water and the efforts made by the Argenta water system to provide safe drinking water. The source of drinking water used by Argenta is Ground Water. For more information regarding this report contact:

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Este informe contiene información muy importante sobre el agua que usted bebe. Tradúzcalo o hable con alguien que lo entienda bien.

Source of Drinking Water -----

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and groundwater 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.

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.

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

In order to ensure that tap water is safe to drink, EPA 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.

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).

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. We 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>.

Source Water Information

Source Water Name Type of Water Report Status Location

WELL 2 (45001) GW Emergency used

WELL 3 (01111) E EDGE OF ARGENTA S OF GW

Source Water Assessment

We want our valued customers to be informed about their water quality. If you would like to learn more, please feel welcome to attend any of our regularly scheduled meetings. The source water assessment for our supply has been completed by the Illinois EPA. If you would like a copy of this information, please stop by City Hall or call our water operator at 217-454-5259. To view a summary version of the completed Source Water Assessments, including: Importance of Source Water; Susceptibility to Contamination Determination; and documentation/recommendation of Source Water Protection Efforts, you may access the Illinois EPA

website at <http://www.epa.state.il.us/cgi-bin/wp/swap-fact-sheets.pl>.

Source of Water: ARGENTA To determine Argenta's susceptibility to groundwater contamination, a Well Site Survey Report, published in 1989 by the Illinois EPA, the 2012 well-centric survey, and a Source Water Protection Plan were reviewed. During the surveys of Argenta's source water protection area, Illinois EPA staff recorded potential sources, routes, or possible problem sites within the 200 foot minimum setback zones and 1,000 foot wellhead protection areas.

Based on the information contained in these documents, six potential sources of groundwater contamination are present in the wellhead protection area around Well #2. The Illinois EPA has determined that the Argenta wells are not susceptible to IOC, VOC, or SOC contamination. This determination is based on a number of criteria including: the land-use activities in the recharge area of the wells, the available hydrogeologic data, monitoring conducted at the wells, and monitoring conducted at the entry point to the distribution system.

Source Water Information

Source Water Name WELL 3 (01111)	Report Status Active	Type of Water GW	Location Behind Village Hall
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2022 Regulated Contaminants Detected

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	No. of sites overAL	Units	Violation	Likely Source of Contaminant
Copper	2022	1.3	1.3	0.751	0	ppm	No	Erosion of natural deposits; Leaching from wood preservatives; corrosion of household plumbing systems
Lead	6/26/19	0	15	3.66	0	ppm	No	; corrosion of household plumbing systems; Erosion of natural deposits

Regulated Contaminants

Disinfectants & Disinfection By-Products	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contaminant
Chlorine	12/31/2022	0.5	0.2 - 0.2	MRDLG=4	MRDL=4	ppm	No	Water additive used to control microbes
Haloacetic Acids HAAS	2022	22	8.8 - 26	No goal for the total	60	ppb	No	By-product of drinking water disinfection
Total Trihalomethanes (TTHM)	2022	74	15 - 105.5	No goal for the total	80	ppb	No	By-product of drinking water disinfection

Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source Of Contaminant
Arsenic – While your water meets EPA standards for arsenic, it does contain low levels of arsenic. EPAs standard balances the current understanding of arsenics possible health effects against the cost of removing arsenic from drinking water. EPA continue to research the health effects of low levels of arsenic, which is a mineral known to cause cancer in humans at high concentrations and is linked to other health effects such as skin damage	2021	3.51	3.51 - 3.51	0	10	ppb	No	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production waste.

Barium	10/11/21	0.146	0.146 - 0.146	2	2	ppm	No	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Fluoride	10/11/21	0.64	0.64 - 0.64	4	4.0	ppm	No	Erosion of natural deposits; Water additive which promotes strong teeth; Fertilizer discharge
Sodium	10/11/21	186	186 - 186			ppm	No	Erosion from naturally occurring deposits: In water softener regeneration.
Iron	10/11/21	0.0666	0.0666 - 0.0666		1.0	ppb	No	This contaminant is not currently regulated by the USEPA. However, the state regulates. Erosion of natural deposits.
Nitrite (measured as Nitrogen)	2022	1	0.69 - 0.69	10	10	ppm	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.

Volatle Organic Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source Of Contaminant
Dichloromethane	07/10/2017	0.66	0.66 - 0.66	0	5	pCi/L	No	Discharge from pharmaceutical And chemical factories

Note: The state requires monitoring of certain contaminants less than once per year because the concentrations of these contaminants do not change frequently. Therefore, some of this data may be more than one year old.

The Disinfection by-products results may have been used for calculating the highest level detected because some results may be part of an evaluation to determine where compliance sampling should occur in the future.

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

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

Maximum Contaminant Level (MCL): The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the Maximum Contaminant Level Goal as feasible using the best available treatment technology.

Maximum Residual Disinfectant Level Goal (MRDLG) The level of disinfectant in drinking water 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 (MRDL) The highest level of disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary from control of microbial contaminants.

ppb: micrograms per litre or parts per billion - or one

ounce in 7,350,000 gallons of water

na: not applicable.

Avg: Regulatory compliance with some MCLs are based on running annual average of monthly samples.

ppm: milligrams per litre or parts per million - or one ounce in 7,350 gallons of water.

Violation Table

CONSUMER CONFIDENCE REPORT			
The Consumer Confidence Rule requires community water systems to prepare and provide to their customers annual consumer confidence reports on the quality of the water delivered by the system.			
Violation Type	Violation Begins	Violation Ends	Violation Explanation
NONE			