2019 WATER QUALITY REPORT
FOR
AINSWORTH WATER WORKS

This report contains important information regarding the water quality in our water system. The source of our water is groundwater. Our water quality testing shows the following results:

CONTAMINANT	MCL – (MCLG)	COMPLIANCE		DATE	VIOLATION	SOURCE
		Type	Value & (Range)		Yes/No	
Lead (ppb)	AL=15 (0)	90th	0.0 (ND – 2) 1 sample(s) exceeded AL	2019	NO	Corrosion of household plumbing systems; erosion of natural deposits
Copper (ppm)	AL=1.3 (1.3)	90th	0.07 (0.01-0.08)	2019	NO	Corrosion of household plumbing systems; Erosion of natural deposits; Leading from wood preservatives
Sodium (ppm)	N/A (N/A)	SGL	380	04/03/2019	NO	Erosion of natural deposits; Added to water during treatment process
Chlorine (ppm)	MRDL=4.0 (MRDLG = 4.0)	RAA	1.78 (1.08-2.24)	12/31/2019	NO	Water additives used to control microbes
TTHM (ppb) Total Trihalomethanes	80 (N/A)	LRAA	21.00 (21-21)	09/30/2019	NO	By-products of drinking water disinfection
HAA5 (ppb) Total Haloacetic Acids	60 (N/A)	LRAA	< 6	09/30/2019	NO	By-products of drinking water disinfection
Nitrate [as N] (ppm)	10 (10)	SGL	1.2	2019	NO	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Gross Alpha, inc (pCi/L)	15 (0)	SGL	14.9	05/10/2018	NO	Erosion of natural deposits
Combined Radium	5 (0)	SGL	5.0	05/10/2018	NO	Erosion of natural deposits
Ethylbenzene (ppb)	700 (700)	SGL	2.6	9/27/2018	NO	Discharge from petroleum refineries
Xylenes (ppm)	10 (10)	SGL	0.012	9/27/2018	NO	Discharges from petroleum factories; Discharge from chemical factories

Note: Contaminants with dates indicate results from the most recent testing done in accordance with regulations.

DEFINITIONS

- 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.
- ppb -- parts per billion.
- ppm -- parts per million.
- pCi/L – picocuries per liter
- N/A – Not applicable
- ND -- Not detected
- RAA – Running Annual Average
- SGL – Single Sample Result
- RTCR – Revised Total Coliform Rule
- NTU – Nephelometric Turbidity Units
- Treatment Technique (TT) – A required process intended to reduce the level of a contaminant in drinking water.
- Action Level (AL) – The concentration of a contaminant, which, if exceeded, triggers treatment or other requirements, which a water system must follow.

GENERAL INFORMATION

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 posed a health risk. More information about contaminants or potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline (800-426-4791).

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 primary from materials and components associated with service lines and home plumbing. Ainsworth Water Works 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 Safe Drinking Water Hotline or at http://www.epa.gov/safewater/lead.

ADDITIONAL HEALTH INFORMATION

Infants and young children are typically more vulnerable to lead in drinking water than the general population. It is possible that lead levels at your home may be higher than at other homes in the community as a result of material used in your home's plumbing. If you are concerned about the elevated lead levels in your home's water, you may wish to have your water tested and flush your tap for 30 seconds to 2 minutes before using tap water. Additional information is available from the Safe Drinking Water Hotline (1-800-426-4791)

SOURCE WATER ASSESSMENT INFORMATION

This water supply obtains its water from the sandstone and dolomite of the Cambrian-Ordovician aquifer. The Cambrian-Ordovician aquifer was determined to have low susceptibility to contamination because the characteristics of the aquifer and overlying materials provide natural protection from contaminants at the land surface. The Cambrian-Ordovician well will have low susceptibility to the surface contaminants such as leaking underground storage tanks, contaminant spills, and excess fertilizer use. A detailed evaluation of you source water was completed by the Iowa Department of Natural Resources, and is available from the water operator, Chad McCleary at 563-299-2214

OTHER INFORMATION

Ainsworth Water Works uses sand filtration for iron removal of the finished water along with zeolite water softening to reduce hardness.

Our water utility is making every effort to protect the water system from potential security threats. You, as customers, can also help. If you see any suspicious activity near the treatment plant, well, water tower, or fire hydrants, please contact the local police/sheriff department or the City at (319) 657-3761. We appreciate your assistance in protecting the water system.

CONTACT INFORMATION

For questions regarding this information and how you can get involved in decisions regarding the water system, please contact Ainsworth Water Works at (319) 657-3761. The Ainsworth City Council meets are on the second Tuesday of every month at 6:00 pm at City Hall, 835 Park Street, and are open to the public. This report will not be mailed to each individual user.