

2019 WATER QUALITY REPORT

for the CITY OF LAUREL

The City of Laurel strives to provide you with a safe, dependable supply of drinking water that is in compliance with the guidelines established by the Environmental Protection Agency (EPA). This report contains important information regarding the water quality in Laurel's water system. The City of Laurel purchases its water through a bulk connection with Iowa Regional Utilities Association (IRUA). Newton Waterworks supplies the water, which is pumped from 21 wells located in the Alluvial and Cambrian-Ordovician aquifers of the Skunk River. Results of water quality testing from our distribution system and from the Newton Waterworks supply to IRUA are provided below.

Contaminant	MCL (MCLG)	Compliance		Year Tested	Violation	Source
		Type	Result (Range)			
City of Laurel Distribution System						
Total Trihalomethanes (ppb) [TTHM]	80 (N/A)	LRAA	37.00 (37-37)	2019	No	By-products of drinking water disinfection.
Haloacetic Acids (ppb) [HAA5]	60 (N/A)	LRAA	12.00 (12-12)	2019	No	By-products of drinking water disinfection.
Lead (ppb)	AL=15 (0)	90 th	1.80 (ND - 2)	2018	No	Corrosion of household plumbing systems; Erosion of natural deposits.
Copper (ppm)	AL=1.3 (1.3)	90 th	0.0313 (0.0083-0.0327)	2018	No	Corrosion of plumbing systems; Erosion of natural deposits; Leaching from wood preservatives.
Distribution System						
Chlorine (ppm)	MRDL=4.0 (MRDLG=4.0)	RAA	0.9 (0.59 - 1.33)	2019	No	Water additive used to control microbes.
Water Supplied by Newton Waterworks						
Sodium (ppm)	N/A (N/A)	SGL	23.7	2018	No	Erosion of natural deposits; Added to water during the treatment process.
Fluoride (ppm)	4 (4)	SGL	0.76 (0.68 - 0.86)	2017	No	Water additive which promotes strong teeth; Erosion of natural deposits; Discharge from fertilizer and aluminum factories.
Nitrate [as N] (ppm)	10 (10)	SGL	3.7	2019	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.

The EPA requires monitoring of over 80 drinking water contaminants. Those listed above are the only contaminants detected in your drinking water. 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
- LRAA – Locational Running Annual Average
- 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.
- 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.
- 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.
- SGL – Single Sample Result
- RTCR – Revised Total Coliform Rule
- NTU – Nephelometric Turbidity Units

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 EPA'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 primarily from materials and components associated with service lines and home plumbing. The City of Laurel 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 drinking 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 (800-426-4791) or at <http://www.epa.gov/safewater/lead>.

SOURCE WATER ASSESSMENT INFORMATION

The Newton Waterworks, who provides water to IRUA, obtains its water supply from the Alluvial and Cambrian-Ordovician aquifers. The Alluvial aquifer was determined to be highly susceptible to contamination because the characteristics of the aquifers and overlying materials allow contaminants to move through the aquifers fairly quickly. The Cambrian-Ordovician aquifer was determined to be not susceptible to contamination because the characteristics of the aquifer and overlying materials prevent easy access of contaminants to the aquifer. The wells will be susceptible to activities such as leaking underground storage tanks, underground storage tanks, and hazardous waste generators. A detailed evaluation of your source water was completed by the IDNR, and is available from Iowa Regional Utilities Association at (641) 792-7011.

OTHER INFORMATION

The City of Laurel 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 any part of the water system, please contact us at (641) 476-3226 or the local police/sheriff department. We appreciate your assistance in protecting the water system.

For questions regarding this information, please contact David Atcher, Water Director, at (641) 485-6363. Decisions regarding the water system are made at the Laurel City Council meetings, which are held on the second Monday of each month at 7:00 p.m. at the Laurel City Hall; 102 N Main Street, Laurel, Iowa and are open to the public.