

2017 WATER QUALITY REPORT FOR CLEAR LAKE WATER DEPARTMENT

This report contains important information regarding the water quality in our water system. The source of our water is groundwater. Our groundwater is drawn from the limestone and dolomite of the Devonian aquifer (includes the Cedar Valley Limestone). Our water quality testing shows the following results:

CONTAMINANT	MCL – (MCLG)	COMPLIANCE		DATE	VIOLATION	SOURCE
		Type	Value & (Range)			
Lead (ppb)	AL=15 (0)	90 th	3.81 (ND – 17) One Sample exceeded AL	8/8/16- 8/15/16	No	Corrosion of household plumbing systems; erosion of natural deposits
Copper (ppm)	AL=1.3 (1.3)	90 th	0.241 (0.0217 – 0.261)	8/8/16- 8/15/16	No	Corrosion of household plumbing systems; Erosion of natural deposits
TTHM (ppb) [Total trihalomethanes]	80 (N/A)	LRAA	30	9/30/16	No	By-products of drinking water Disinfection
950 – DISTRIBUTION SYSTEM						
Chlorine (ppm)	MRDL =4.0 (MRDLG)=4.0	RAA	0.8 (0.19 – 1.35)	12/31/16	No	Water additive used to control microbes
01 - Source Entry Points – Well #1-81, Well #2,-87 Well #3-97 Treated						
Combined Radium (pCi/L)	5 (0)	SGL	1.5	10/06/14	No	Erosion of natural deposits
Barium (ppm)	2 (2)	SGL	0.12	4/17/12	No	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Fluoride (ppm)	4 (4)	SGL	1	4/17/12	No	Water additive which promotes strong teeth; Erosion of natural deposits; Discharge from fertilizer and aluminum factories
Sodium (ppm)	N/A (N/A)	SGL	12	4/13/15	No	Erosion of natural deposits; Added to water during treatment process

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
- LRAA – Locational Running Annual Average
- RAA – Running Annual Average
- 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
- TCR – Total Coliform Rule

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 primarily from materials and components associated with service lines and home plumbing. Clear Lake Water Department 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 the Safe Drinking Water Hotline or at <http://www.epa.gov/safewater/lead>.

SOURCE WATER ASSESSMENT INFORMATION

This water supply obtains its water from the limestone and dolomite of the Devonian aquifer (includes the Cedar Valley Limestone). The Devonian aquifer was determined to be slightly susceptible to contamination because the characteristics of the aquifer and overlying materials limit the rate at which contaminants can move through the aquifer. The Devonian wells will have low susceptibility to activities such as surface contaminates such as leaking underground storage tanks, contaminate spills, and excess fertilizer application. A detailed evaluation of your source water was completed by the IDNR, and is available from the Water Department at 641-357-3911.

OTHER INFORMATION

Radon is a radioactive gas that you can't see, taste, or smell. It is found throughout the U.S. Radon can move up through the ground and into a home through cracks and holes in the foundation. Radon can build up to high levels in all types of homes. Radon can also get into indoor air when released from tap water from showering, washing dishes, and other household activities. Compared to radon entering the home through soil, radon entering the home through tap water will, in most cases, be a small source of radon in indoor air. Radon is a known human carcinogen. Breathing air containing radon can lead to lung cancer. Drinking water containing radon may also cause increased risk of stomach cancer. If you are concerned about radon in your home, test the air in your home. Testing is inexpensive and easy. Fix your home if the level of radon in your air is 4 picocuries per liter of air (pCi/L) or higher. There are simple ways to fix a radon problem that aren't too costly. For additional information, call your state radon program (800-838-5992) or call EPA's Radon Hotline (800-767-7236).

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 water towers, treatment plant, wells, or fire hydrants, please contact us at 357-3911 or the Clear Lake Police Department at 357-2186. We appreciate your assistance in protecting the water system.

CONTACT INFORMATION

For questions regarding this information, please contact Paul J. Fredriksen at the Clear Lake Water Treatment Plant during the following hours: Monday through Friday, 7:30 a.m. to 12:00 p.m., 1:00 p.m. to 4:30 p.m. at 641-357-3911.

Decisions regarding the water system are made at the City Council meetings held on first and third Mondays of the month at 6:30 p.m. at City Hall and are open to the public.

Please Note: This report will not be mailed to individual customers.

For the latest lake level information of Clear Lake, go to www.waterdata.usgs.gov/ia/nwis/uv?site_no=05460000. Take the Gage Height reading, subtract 4.7 and then multiply by 12 to get the lake level in inches above or below the weir.

This Consumer Confidence Report may be viewed and downloaded at <https://clearlake.municipalcms.com/files/documents/2017WaterQualityReport134101234061617AM.pdf>.