

**2012 Water Quality Report  
(CCR) Consumer Confidence Report  
For  
City of LeMars Water department**

This report contains information regarding the water quality in our water system. The source of our water is ground water which comes from the Dakota aquifer(s). Our water testing shows the following results.

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

<b>TEST RESULTS</b>						
<i>Contaminant</i>	<i>Violation Y / N</i>	<i>Level Detected</i>	<i>Unit Measurement</i>	<i>MCLG</i>	<i>MCL</i>	<i>Likely Source of Contamination</i>
<b>DS 950 Distribution System</b>						
<i>Total Coliform Bacteria</i>	<i>N</i>	<i>0</i>		<i>0</i>	<i>Presence of Coliform bacteria in &gt;5% of monthly sampleS</i>	<i>Naturally present in the environment</i>
<i>Copper 2012</i>	<i>N</i>	<i>.94 (0.05- 1.02)</i>	<i>PPM</i>	<i>1.3</i>	<i>AL=1.3</i>	<i>Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives</i>
<i>Lead 2012</i>	<i>N</i>	<i>2.00 (2 - 5)</i>	<i>PPB</i>	<i>0</i>	<i>AL=15</i>	<i>Corrosion of household plumbing systems; erosion of natural deposits</i>
Chlorine (ppm) MRDL level 1/01/2012 - 12/30/2012	<i>N</i>	<i>1.6 (0.9 - 1.92)</i>	<i>PPM</i>	<i>MRDLG = 4</i>	<i>MRDL = 4</i>	<i>Water additive used to control microbes</i>
Nitrate 1/01/2012 - 12/30/2012	<i>N</i>	<i>.9</i>	<i>PPM</i>	<i>10</i>	<i>10</i>	<i>Run off from fertilizer use; Leaching from septic tanks, sewage; erosion of natural deposits</i>
<i>Fluoride 4/19/2004</i>	<i>N</i>	<i>.89</i>	<i>PPM</i>	<i>N/A</i>	<i>4</i>	<i>Water additive which promotes strong teeth; erosion of natural deposits; discharge from fertilizer</i>
<i>Sodium 4/5/2010</i>	<i>N</i>	<i>48</i>	<i>PPM</i>	<i>N/A</i>	<i>N/A</i>	<i>Erosion of natural deposits</i>
<i>Sulfate 4/20/2004</i>	<i>N</i>	<i>360</i>	<i>PPM</i>	<i>N/A</i>	<i>N/A</i>	<i>Erosion of natural deposits</i>
<i>Haloacetic Acids (ppb)(HAA5) 08/03/2010</i>	<i>N</i>	<i>7.00</i>	<i>PPB</i>	<i>N/A</i>	<i>60</i>	<i>By-products of drinking water disinfection</i>
<i>Total Trihalomethanes (TTHM) 8/03/2010</i>	<i>N</i>	<i>48</i>	<i>PPB</i>	<i>N/A</i>	<i>80</i>	<i>By-products of drinking water chlorination</i>

### Secondary Drinking Water Regulations

Contaminant	Level Detected LeMars	Unit Measurement	Limit	Effect
1. Chloride	7.5	MG/L	250	Taste and Corrosion of pipe
2.Total Dissolved solids (TDS)	1000	MG/L	500	Taste and possible relation between low hardness and cardiovascular disease, also an indicator of corrosivity(related to lead levels in water), can damage plumbing and limit effectiveness of soaps and detergents
4. Iron	.7	MG/L	0.3	Taste and red staining of clothes and plumbing fixtures
5. Manganese	.2	MG/L	0.05	Taste and black staining in clothes and fixtures

After the Water Treatment Plant the Iron is averaging .03 mg/l or less and Manganese is averaging .01 mg/l or less before going out to the distribution system.

## 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
- 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.

## 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. [City of Le Mars Water Dept.] 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>.

## CONTAMINANT VIOLATIONS

none

## OTHER VIOLATIONS

none

## SOURCE WATER ASSESSMENT INFORMATION

The City of LeMars Water Department water supply obtains its water from the Dakota aquifer. The Dakota aquifer was determined to be free to contamination because the characteristics of the aquifer and overlying materials and formation. The wells will deliver to activities such as a treatment plant. A detailed evaluation of your source water was completed by the IDNR, and is available from 7:00 AM to 3:30 PM at the water department at 1298 18<sup>th</sup> St. SW. Or phone 712-546-5555.

## Capital Projects

- **Changed and added 10 Fire Hydrants and valves**
- **Installed over 6500 ft of 10" water main to the North By-Pass**
- **Looped 8" main across 7th Ave SE 500ft. East in booster area**
- **New Industrial addition with 8" main 900ft.**

## CONTACT INFORMATION

Decisions regarding the water system are made at the Council meetings held on the 1<sup>st</sup> and 3<sup>rd</sup> Tuesdays of each month at 12:00 p.m. at City Hall 40 Central Ave SE and are open to the public.

The LeMars Water Department is happy to provide information and assistance on any question concerning the operation and quality of our water and services. We strive to provide quality water to every tap and every customer. Water is an important natural resource that we use in so many wonderful ways: Drinking, bathing, cooking, food processing, and gardens. That's why at the water department we take seriously our responsibility to ensure that we provide you the best water and services possible.

Since we have no violations the DNR does not require us to mail each customer a copy of the CCR (consumer confidence report). **We are putting the report in the LeMars Daily Sentinel paper and on the radio KLEM 1410 AM which also will have it on its web site. It will be on the agenda of the City council meeting and on the City of LeMars web site lemarscomm.net under water utilities to help inform all our customers. Flyers will also be available at City Hall, Water department and the Library; we will also deliver copies to retirement homes, hospital and large employers to mention a few to help reach citizens, visitors and workers from out of town.**

**This report is on the agenda for City Council 4/02/2013**

Thank you  
Water Superintendent  
Gayle Sitzmann

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