

IMPORTANT INFORMATION ABOUT LEAD IN YOUR DRINKING WATER

THE CITY OF LAPEER HAS EXCEEDED THE ACTION LEVEL FOR LEAD. Lead can cause serious health and development problems, especially for pregnant women and young children. Please read this information closely to see what you can do to reduce lead in your drinking water.

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Health Effects of Lead

Lead can cause serious health and development problems. It can cause damage to the brain and kidneys, and can interfere with the production of red blood cells that carry oxygen to all parts of your body. The greatest risk of lead exposure is to infants, young children, and pregnant women. Scientists have linked the effects of lead on the brain with lowered IQ in children. Adults with kidney problems and high blood pressure can be affected by low levels of lead more than healthy adults. Lead is stored in the bones, and it can be released later in life. During pregnancy, the child receives lead from the mother's bones, which may affect brain development. Although other sources of lead exposure exist, such as lead paint, and lead contaminated dust, City of Lapeer is contacting you to reduce your risk of exposure to lead in drinking water. If you have questions about other sources of lead exposure, please contact Lapeer County Health Department at 810-667-0319.

Sources of Lead

Lead is a common metal found in the environment. Drinking water is one possible source of lead exposure due to the widespread use of lead in plumbing materials. EPA estimates that drinking water can make up 20 percent or more of a person's potential exposure to lead. Infants who consume mostly mixed formula can receive 40 percent to 60 percent of their exposure to lead from drinking water.

The action level is 15 parts per billion (ppb) for lead and 1.3 parts per million (ppm) for copper. The action level is a measure of corrosion control effectiveness. It is not a health-based standard. To meet the requirements of the Lead and Copper Rule, 90 percent of the samples collected must be below the action level. The following table summarizes the lead and copper data collected during the most recent monitoring period:

Most Recent Sampling Information

Action Levels	90 th Percentile Value	Range of results (minimum-maximum)	# of samples used for 90 th Percentile
Lead 15 parts per billion (ppb)	19 ppb	0 – 32 ppb	20
Copper 1.3 parts per million (ppm)	0.1 ppm	0 – 0.1 ppm	20

Lead can enter drinking water when pipes, solder, home/building interior plumbing, fittings and fixtures that contain lead corrode. Corrosion is the dissolving, or wearing away, of metal caused by a chemical reaction between water and your plumbing. Several factors affect the amount of lead that enters the water, including the water quality characteristics (acidity and alkalinity), the amount of lead in the pipes, plumbing and/or fixtures, and the frequency of water use in the home.

Some plumbing products such as service lines, pipes and fixtures may contain lead. The infographic below demonstrates where sources of lead in drinking water could be in your home. Older homes may have more lead unless the service line and/or plumbing has been replaced. Homes built...

- **Before the 1960s** are more likely to have lead service lines, lead pipes, fixtures, and/or solder that contain lead.

- **Before 1988** are likely to have fixtures and/or solder that contains lead.
- **Between 1996 and 2014** are likely to have fixtures that contain up to eight percent lead but were labelled “lead-free.”
- **In 2014 or later** still have potential lead exposure. “Lead free” was redefined to reduce lead content to a maximum of 0.25 percent lead in fixtures and fittings. Fixtures that are certified to meet NSF Standard 61 meet this more restrictive definition of “lead free.”

Leaded solder and leaded fittings and fixtures are still available in stores to use for non-drinking water applications. Be careful to select the appropriate products for repairing or replacing drinking water plumbing in your home.

Galvanized plumbing can be a potential source of lead. Galvanized plumbing can absorb lead from upstream sources like a lead service line. Even after the lead service line has been removed, galvanized plumbing can continue to release lead into drinking water over time. Homes that are served by a lead service line should consider replacing galvanized plumbing inside the home.

Drinking water is only one source of lead exposure. Other common sources of lead exposure are lead-based paint, and lead-contaminated dust or soil. Because lead can be carried on hands, clothing, and/or shoes, sources of exposure to lead can include the workplace and certain hobbies. Wash your children’s hands and toys often as they can come in contact with dirt and dust containing lead. In addition, lead can be found in certain types of pottery, pewter, food, and cosmetics. If you have questions about other sources of lead exposure, please Lapeer County Health Department at 810-667-0391

Particulate Lead

Lead results can vary between tests. A single test result is not a reliable indicator of drinking water safety. Two different types of lead can be present in drinking water, soluble lead and particulate lead. Soluble lead is lead that dissolves because of a chemical reaction between water and plumbing that contains lead. Particulate lead is dislodged scale and sediment released into the water from the sides of the plumbing and can vary greatly between samples. Disturbances, such as replacing a water meter, construction and excavation activities, or home plumbing repairs can cause particulates to shake free from inside pipes and plumbing. Particulate lead is a concern because the lead content can be very high. Lead particulate could be present in a single glass of water, but not present in water sampled just before or after. During construction, monthly aerator cleaning and using a filter certified to reduce lead are recommended to reduce particulate lead exposure.

Check whether your home has a lead service line.

Homes with lead service lines have an increased risk of having high lead levels in drinking water. Please contact City of Lapeer, Department of Public Works (DPW) at 810-664-4711 for an inspection of your home’s service line.

Steps You Can Take to Reduce Your Exposure to Lead in Your Water

1. **Run your water to flush out lead.** The more time water has been sitting in your home’s pipes, the more lead it may contain. Therefore, if your water has not been used for several hours, run the water before using it for drinking or cooking. This flushes lead-containing water from the pipes.

- If you **do not** have a lead service line, run the water for 30 seconds to two minutes, or until it becomes cold or reaches a steady temperature.
- If you **do** have a lead service line, run the water for at least five minutes to flush water from both the interior building plumbing and the lead service line.

Additional flushing may be required for homes that have been vacant or have a longer service line. Your water utility can help you determine if longer flushing times are needed.

2. **Use cold water for drinking and cooking.** Do not cook with or drink water from the hot water tap; lead dissolves more easily into hot water.

3. **Use cold water for preparing baby formula.** Do not use water from the hot water tap to make baby formula. If you have a lead service line, consider using bottled water or a filter certified to reduce lead to prepare baby formula.

4. **Do not boil water to remove lead.** Boiling water will not reduce lead levels.

5. **Consider using a filter to reduce lead in drinking water.** Public health recommends that any household with a child or pregnant woman use a certified lead filter to reduce lead from their drinking



System Tested and Certified by NSF International against NSF/ANSI Standard 53 for the reduction of Lead.

water. Look for filters that are tested and certified to NSF/ANSI Standard 53 for lead reduction. Some filter options include a pour-through pitcher or faucet-mount systems. If the label does not specifically mention lead reduction, check the Performance Data Sheet included with the

device. Be sure to maintain and replace the filter device in accordance with the manufacturer's instructions to protect water quality. If your household has a child or pregnant woman and are not able to afford the cost of a lead filter, please contact your County Health Department.

6. **Consider purchasing bottled water.** The Food and Drug Administration (FDA) regulates bottled water. The bottled water standard for lead is 5 ppb.

7. **Get your child tested.** Contact your local health department or healthcare provider to find out how you can get your child tested for lead if you are concerned about exposure at Lapeer County Health Department, telephone # 810-667-0391.

8. **Identify older plumbing fixtures that likely contain lead.** Older faucets, fittings, and valves sold before 2014 may contain higher levels of lead, even if marked "lead-free." Faucets, fittings, and valves sold after January 2014 are required to meet a more restrictive "lead-free" definition but may still contain up to 0.25 percent lead. When purchasing new plumbing materials, it is important to look for materials that are certified to meet NSF standard 61. The EPA prepared a brochure that explains the various markings that can indicate that materials meet the new "lead free" definition: <https://nepis.epa.gov/Exe/ZyPDF.cgi?Dockey=P100LVYK.txt>.

9. **Clean your aerator.** The aerator on the end of your faucet is a screen that will catch debris. This debris could include particulate lead. The aerator should be removed at least every six months to rinse out any debris.

10. **Test your water for lead.** If you are unsure if you have a lead or copper water line from the street to your home you can contact the City of Lapeer DPW at 810-664-4711 for a service line inspection. If you have a lead service the DPW will add you to a list for sampling starting January 1, 2020. If you are interested in testing your drinking water for lead, you can find a comprehensive list of laboratories that test for lead on the State of Michigan website at:

www.michigan.gov/documents/lead/leadcopperLabCerts6.1.186_334347.pdf.

What Happened? What is Being Done?

In 2018, the Michigan Safe Drinking Water Act's Lead and Copper Rule was changed to better protect your health. New water sampling rules have been added to better detect possible lead in your drinking water. These changes require communities with lead service lines to do more sampling. This new sampling method was expected to result in higher lead results, not because the water source or quality for residents has changed, but because the act has more stringent sampling procedures and analysis.

In September 2019, the City of Lapeer collected samples from 20 single family residential properties with known lead services lines. A "service line" is the pipe that connects the home/building to the public water main. Out of approximately 3,461 total water customers in the City and neighboring townships, we estimate there are approximately 2% (roughly 70 customers) with lead service lines. Currently, through home inspections we have identified 27 customers with lead service lines, less than 1%. Three (3) of the twenty (20) homes within our sample group tested exceeded the Action Level of 15 parts per billion (ppb).

The City of Lapeer does not have lead in its water mains or in its drinking water. However, lead can enter drinking water when it is in contact with pipes, solder, home/building interior plumbing, fittings and fixtures that contain lead. The City of Lapeer purchases our drinking water from Great Lakes Water Authority (GLWA). GLWA is in the top ten for producing quality water. GLWA employs corrosion control treatment to reduce lead and copper leaching.

If you are a City of Lapeer water customer and would like your service line inspected for lead, contact the City of Lapeer DPW at 810-664-4711

We will be collecting 40 samples every six months and reviewing the results to determine if corrective actions are necessary to reduce corrosion in household plumbing.

Additionally each year in June the City of Lapeer publishes in the Lapeer County Press a Consumers Confident Report that includes health information on lead and copper under the heading "People with special Health Concerns". This report also includes many other facts about City of Lapeer drinking water.

For More Information

Call us at 810-664-4711 or (if applicable) visit our website at www.ci.lapeer.mi.us or www.michigan.gov/degleadpublicadvisory. For more information on reducing lead exposure around your home/building and the health effects of lead, visit EPA's Web site at www.epa.gov/lead, call the National Lead Information Center at 800-424-LEAD, or contact your healthcare provider.

CONCERNED ABOUT LEAD IN YOUR DRINKING WATER?

Sources of **LEAD** in Drinking Water

