

Wright State University

Consumer Notice of Tap Water Result – May 29-30, 2024

Wright State University is a public water system (PWS) responsible for providing drinking water that meets state and federal standards.

Wright State's University water system collected 40 tap samples for lead and copper analysis on May 29-30, 2024. 39 of the 40 tap water samples had lead levels less than the federal action level 15.5 parts per billion (ppb). The levels of lead reported at these locations ranged from <2.0 to 8.9 ppb. One of the 40 samples contained 120 ppb, which was over the 15.5 ppb action level. This sample was collected from a vacant office sink located at Health Sciences 117 AB. This fixture has been taken out of service. Lead can cause serious health 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.

The table lists the lead content results for the forty (40) routine compliance samples collected on May 29-30, 2024.

What Does This Mean?

Under the authority of the Safe Drinking Water Act, the U.S. Environmental Protection Agency (EPA) established the action level for lead in drinking water at 15.5 µg/L. This means PWSs must ensure that water from taps used for human consumption do not exceed this level in at least 90 percent of the sites sampled (90th percentile value). The action level is the concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a PWS must follow.

In 2018, Ohio EPA established the threshold level for lead in drinking water at 15.5 µg/L. The lead threshold level is the concentration of lead in an individual tap water sample which, if exceeded, triggers additional notification requirements for those served by the tap sampled.

Because lead may pose serious health risks, US EPA established a Maximum Contaminant Level Goal (MCLG) of zero for lead. The MCLG is 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.

What are the Health Effects of Lead?

Lead can cause serious health problems if too much enters your body from drinking water or other sources. 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.

Where Can I Get Health Screenings and Testing of Blood Lead Levels?

Health Screenings and testing of blood lead levels are available through your personal health care provider. The Physician can determine if an exposure warrants testing and can be available to interpreting the results.

Assistance is available at:

Student Health Services
Wright State Physicians Health Center
725 University Boulevard
Fairborn, OH 45324
937-245-7200

Greene County Public Health, the Ohio Department of Health (<https://odh.ohio.gov/wps/portal/gov/odh/know-our-programs/Childhood-Lead-Poisoning/about-lead/>) and the Ohio EPA (<https://epa.ohio.gov/divisions-and-offices/drinking-and-ground-waters/public-water-systems/lead-and-copper-in-public-water-systems>) provide additional information about lead levels.

What Can I Do to Reduce Exposure to Lead if Found in My Drinking Water

- **Run your water to flush out lead.** If water has not been used for several hours, run water for thirty seconds to three minutes before using it for drinking or cooking. This helps flush any lead in the water that may have been leached from the plumbing.
- **Use cold water for cooking and preparing baby formula.** Do not cook with, drink water, or make baby formula from the hot water tap. Lead dissolves more easily in hot water.
- **Do not boil water to remove lead.** Boiling water will not reduce lead.
- **You may wish to test your water for lead at additional locations in your home.**
- **Identify if your plumbing fixtures contain lead and consider replacing them when appropriate.**

What are the Sources of Lead?

Lead is a common, natural, toxic, and often useful metal that was used for years in products found around the home. It can be found throughout the environment in lead-based paint, air, soil, household dust, and certain types of pottery, porcelain, and pewter. Although most lead exposure, especially in children, occurs when paint chips are ingested, dust inhaled, or absorbed from contaminated soil, the U.S. EPA estimates that 10 to 20 percent of human exposure of lead may come from lead in drinking water.

Lead is unusual among drinking water contaminants in that it seldom occurs naturally in water supplies like rivers and lakes. Lead enters drinking water primarily as a result of corrosion, or wearing away, of materials containing lead in the plumbing. Buildings built prior to 1986 are more likely to have lead pipes, fixtures, and solder. New buildings can also be at risk, since even legally 'lead-free' plumbing may contain up to 8 percent lead. The most common problem is with brass or chrome-plated brass fixtures which can leach significant amounts of lead into water, especially hot water.

For More Information

- Contact Marjorie Markopoulos, PhD, Director of Environmental Health and Safety at 927-775-2797 or ehs@wright.edu;
- Visit US EPA's Web site at www.epa.gov/lead;
- Call the National Lead Information Center at 800-424-LEAD; or
- Contact your health care provider.

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Lead and copper enter drinking water from the corrosion of service line and household plumbing fixtures; therefore, reducing corrosivity is the primary method for reducing the health risk of lead and copper in drinking water. To measure the corrosivity of drinking water in contact with service lines and household plumbing, federal and state rules require samples be taken at residential taps or taps typically used for water consumption within the distribution system.

The EPA requires that the first-draw lead and copper samples are collected from Tier 1 sample sites, which are single family structures that contain copper pipes and lead solder installed between January 1, 1983 and December 1988 or contain lead pipes with lead service lines. Because Wright State does not have Tier 1 locations, Tier 2 sampling sites are used. Tier 2 sampling sites are buildings that contain copper pipes with lead solder installed between January 1, 1983 and December 31, 1988. These buildings include Library Annex (LX), Math & Micro (MM), Health Sciences (HS), and a portion of Child Development Center (CDC or MiniU).

Table 1. Lead and Copper (LC) Sample Monitoring Plan (SMP) Results

#	SMP ID*	Tap Location*	Date	Cu, µg/L	Pb, µg/L	Was tap water lead content less than 15.5 ppb or 15.5 µg/L?
1	LC264	CDC 172 Purple DF	05/30/24 06:48	30	<2	Yes
2	LC261	CDC 134 Pink DF	05/30/24 06:38	31	<2	Yes
3	LC265	CDC 173 Rainbow DF	05/30/24 06:50	31	<2	Yes
4	LC260	CDC 173 Rainbow Sink	05/30/24 06:52	32	<2	Yes
5	LC282	LX 004 RR Mens Middle	05/30/24 08:35	35	<2	Yes
6	LC259	CDC 172 Purple Sink	05/30/24 06:49	38	<2	Yes
7	LC294	MM 147 RR Womens Left	05/29/24 17:22	40	<2	Yes
8	LC256	CDC 134 Pink Sink	05/30/24 06:39	41	<2	Yes
9	LC263	CDC 156 Red DF	05/30/24 06:44	41	<2	Yes
10	LC218	MM 251 RR Left	05/29/24 17:34	43	<2	Yes
11	LC266	CDC 120 RR Mens	05/30/24 06:35	44	<2	Yes
12	LC299	MM 247 RR Left	05/29/24 17:30	44	<2	Yes
13	LC258	CDC 156 Red Sink	05/30/24 06:47	45	<2	Yes
14	LC262	CDC 157 Blue DF	05/30/24 06:42	45	<2	Yes
15	LC292	MM 151 RR Mens Middle	05/29/24 18:13	45	<2	Yes
16	LC300	MM 247 RR Middle	05/29/24 17:29	45	<2	Yes
17	LC257	CDC 157 Blue Sink	05/30/24 06:43	48	<2	Yes
18	LC307	LX 053 Womens Right	05/30/24 08:31	48	<2	Yes
19	LC242	MM 151 RR Mens Left	05/29/24 18:14	52	<2	Yes
20	LC302	LX 002 RR Womens Right	05/30/24 08:35	53	<2	Yes
21	LC298	MM 241 RR Right	05/29/24 17:33	55	<2	Yes
22	LC276	MM 023 RR Womens Left	05/29/24 17:02	60	<2	Yes
23	LC267	CDC 124 RR Womens	05/30/24 06:32	61	<2	Yes
24	LC248	LX 004 RR Mens Left	05/30/24 08:34	66	<2	Yes
25	LC273	HS 226 RR Left	05/30/24 13:22	71	<2	Yes
26	LC272	HS 224 RR Left	05/30/24 13:20	72	<2	Yes
27	LC278	MM 222 Sink	05/29/24 17:40	75	<2	Yes
28	LC310	HS 059 RR Womens	05/30/24 13:05	76	<2	Yes
29	LC308	CDC 131 Sink Wash	05/30/24 06:36	84	<2	Yes
30	LC306	LX 049 RR Mens Right	05/30/24 08:30	84	<2	Yes
31	LC270	HS 120 RR Mens Right	05/30/24 13:12	85	<2	Yes
32	LC296	MM 147 RR Womens Right	05/29/24 17:20	85	<2	Yes
33	LC228	CDC 131 Sink hand	05/30/24 06:35	93	<2	Yes
34	LC314	HS 122 Womens Right	05/30/24 13:15	110	<2	Yes
35	LC286	MM 003A Sink	05/29/24 16:58	110	<2	Yes
36	LC290	MM 025 RR Mens Left	05/29/24 17:12	44	2.1	Yes
37	LC291	MM 025 RR Mens Middle	05/29/24 17:10	56	2.1	Yes
38	LC288	MM 023 RR Womens Right	05/29/24 17:04	60	4.1	Yes
39	LC269	HS 005 Sink	05/30/24 12:57	180	8.9	Yes
40	LC271	HS 117AB Sink	05/30/24 13:09	630	120	No

Notes: * indicates the lead content for the individual sample was greater than the 15.5 µg/L threshold action level; "<" means less than; µg/L means micrograms per Liter; CDC means Child Development Center; HS means Health Sciences; LX means Library Annex; MM means Math & Micro; RR means rest room; DF means drinking fountain.