



Lead Testing in Drinking Water

Site:

Prairie Central Primary West
700 S. Division Street
Chenoa, IL 61726

Local Education Agency:

Prairie Central C.U.S.D. 8

Completion Date:

December 21, 2017

IDEAL Number:

21410C



Lead Testing in Drinking Water

Public Act 099-0922

Public Act 099-0922, was passed into law in January 2017. The Act requires the Local Education Agency (LEA) to test for lead in all water sources used for cooking and drinking in schools built on or before January 1, 2000, where more than 10 pre-kindergarten through 5th grade children are present. The timeframe for compliance is December 31, 2017, for buildings constructed prior to January 1, 1987; and December 31, 2018, for those built between January 2, 1987 and January 1, 2000. Water samples are required to be analyzed by a method approved by the Illinois Environmental Protection Agency (IEPA) that provides a minimum reporting limit of 2 parts per billion (ppb). Notifications are required. Mitigation may be required based on test results. A Water Quality Management Plan (WQMP) is required.

Scope of Service

On December 21, 2017, Ideal Environmental Engineering (IDEAL) performed water sampling at Prairie Central Primary West in Chenoa, IL at the request of the LEA. IDEAL's scope of service was to provide testing and analysis for lead in drinking water in accordance with Illinois Public Act 099-0922 and to prepare and submit reports for the water testing to the LEA and IDPH.

This report is presented based on the Act. IDEAL's service excluded determining whether a tested building is subject to the Act. IDEAL recommends following the Act's requirements for all buildings tested, even if a building does not meet the Act's definition of a school building.

Sampling Methodology

Prior to sampling, in order to verify that the required 8-18 hour water stagnation period had been met, school personnel provided IDEAL's water collector with the date and time the plumbing system had last been used. The date and time provided are recorded on the chain of custody (COC).

The water source locations were provided to IDEAL by the LEA. For each source, a first-draw 250 milliliter (mL) sample of cold water was collected in a bottle provided by an IEPA-approved laboratory. A first-draw sample is the first amount of water collected from a source. After the first draw was collected, the source was flushed for 30 seconds, followed by the collection of a second-draw 250 mL sample of water. This second sample is called a flush sample. If multiple faucets use the same drain, only one second-draw (flush) sample may have been collected.

Each bottle was placed in a position that allowed for the collection of all of the water. Care was taken to prevent overflow. Each bottle was labeled with a unique identifier (sample ID). The sample ID was recorded on the COC, which lists the location of the sample, source of the sample, and the date and time the sample was collected.

The water bottles were delivered—with the COC to show the relinquishment and receipt of the samples—to an IEPA-accredited laboratory for analysis. The laboratory's accreditation was reviewed by IDEAL to ensure that it was current for an IEPA-approved method of analysis for lead in drinking water.



Lead Testing in Drinking Water

Summary of Sampling

26 water samples were collected from 13 sources. All results are shown in Table 1.1.

Table 1.1: All Sample Results

Table 1.1 Sample ID	Sample Location Description	Fixture Type	Sample Type	Concentration
C1S	Hall by Room 114 - Right	DF - Drinking Fountain	First Draw	ND
C1F	Hall by Room 114 - Right	DF - Drinking Fountain	Flush	ND
C2S	Hall by Room 114 - Left	DF - Drinking Fountain	First Draw	ND
C2F	Hall by Room 114 - Left	DF - Drinking Fountain	Flush	ND
C3S	Room 114	S - Sink	First Draw	ND
C3F	Room 114	S - Sink	Flush	ND
C4S	Room 115	S - Sink	First Draw	ND
C4F	Room 115	S - Sink	Flush	ND
C5S	Room 116	S - Sink	First Draw	ND
C5F	Room 116	S - Sink	Flush	ND
C6S	Room 112 – Lounge*	S - Sink	First Draw	ND
C6F	Room 112 – Lounge*	S - Sink	Flush	ND
C7S	MPR/Cafeteria	DF - Drinking Fountain	First Draw	ND
C7F	MPR/Cafeteria	DF - Drinking Fountain	Flush	ND
C8S	Kitchen - Right	KS - Kitchen Sink	First Draw	ND
C8F	Kitchen - Right	KS - Kitchen Sink	Flush	ND
C9S	Kitchen - Left	KS - Kitchen Sink	First Draw	ND
C9F	Kitchen - Left	KS - Kitchen Sink	Flush	ND
C10S	Room 101C - Nurse Office	S - Sink	First Draw	ND
C10F	Room 101C - Nurse Office	S - Sink	Flush	ND
C11S	Hall by Room 105	DF - Drinking Fountain	First Draw	ND
C11F	Hall by Room 105	DF - Drinking Fountain	Flush	ND
C12S	East Entry	DF - Drinking Fountain	First Draw	ND
C12F	East Entry	DF - Drinking Fountain	Flush	ND
C13S	Room 110	S - Sink	First Draw	9.94 ppb
C13F	Room 110	S - Sink	Flush	ND
ND = None Detected				

*The hot side was tested, as the cold side was inoperable.



Lead Testing in Drinking Water

Notifications

Notification Requirements:

The Illinois Department of Public Health (IDPH) must be informed of the results. The LEA is also required to provide notification of all water testing results to parents and legal guardians of all enrolled students. Notification can be done, at a minimum, on the school's website. In addition, when any test result exceeds 5 ppb, individual written or electronic notification is required to be sent to parents and legal guardians of all enrolled students and must include the location and source exceeding 5 ppb, and the USEPA website for information about lead in drinking water: www.epa.gov/ground-water-and-drinking-water/basic-information-about-lead-drinking-water

Based on sample results:

- Submit to IDPH at dph.leadh2O@illinois.gov all sample results as shown in Table 1.1. This step has been done by IDEAL. Please refer to Appendix A for electronic transmittal(s).
- Provide to parents and legal guardians all sample results as shown in Table 1.1. This can be done, at a minimum, on the school's website.
- Provide individual written or electronic notification to parents and legal guardians of all enrolled students the sample results in Table 2.1, as these results exceed 5 ppb. Include in the notification the location and source exceeding 5 ppb, and the USEPA website for information about lead in drinking water: www.epa.gov/ground-water-and-drinking-water/basic-information-about-lead-drinking-water.

Refer to Appendix B for a sample notification letter for results exceeding 5 ppb.

Table 2.1: Results over 5 ppb

Table 2.1 Sample ID	Sample Location Description	Fixture Type	Sample Type	Concentration
C13S	Room 110	S - Sink	First Draw	9.94 ppb

