Sources of Lead in the Environment



Lead-based paint



In the air



In the soil



Lead Industry

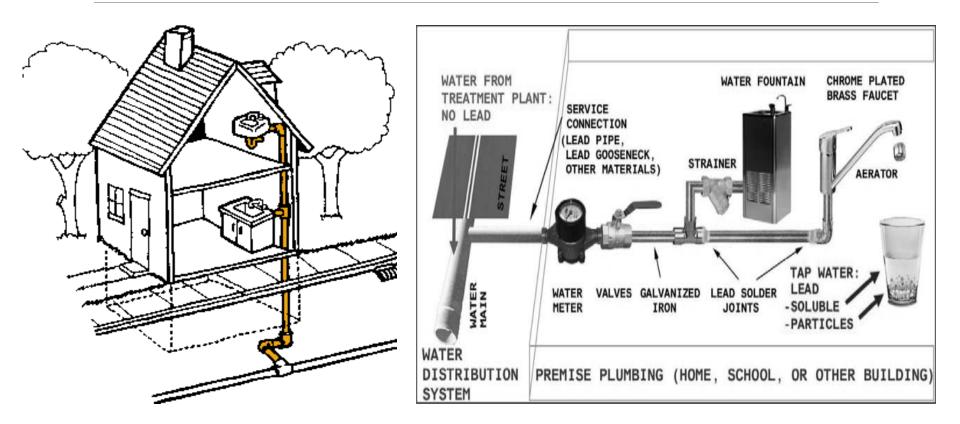


In consumer products and food



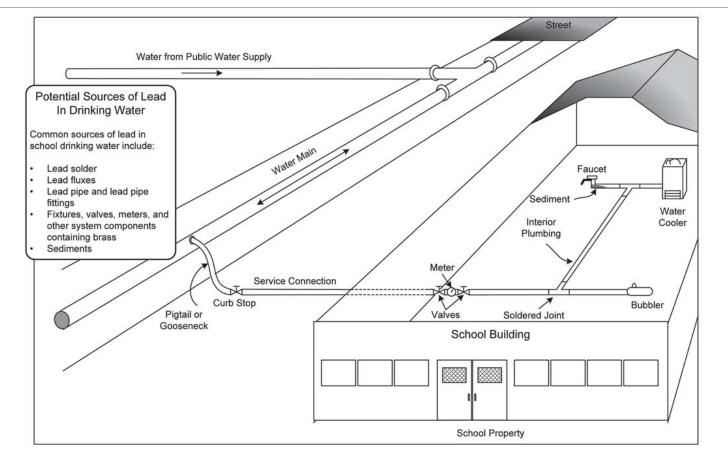
In water

Sources of Lead in Drinking Water



Typical Home

Sources of Lead in Drinking Water in Schools



Typical School Building

Sources of Lead in Drinking Water in Schools

Children in schools and child care centers may be exposed through the water they drink or food that has been prepared with contaminated water.

Formula fed infants can receive up to 60% of their exposure to lead from lead in drinking water.

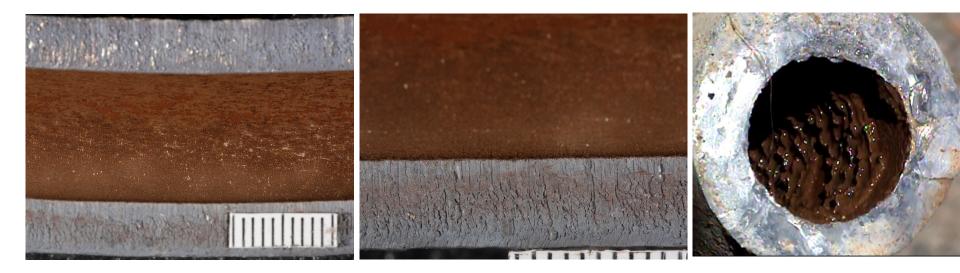
Boiling water will not get rid of lead.





Why lead?

Installed After the Civil War 150 Years Old in Cincinnati: Any Signs of Failure?



Compliments of Mike Schock, EPA Office of Research & Development (ORD)

EPA Regulations

Safe Drinking Water Act was amended in 1988 to reduce lead in schools and daycare centers:

- Eliminate water coolers containing lead
- Required EPA to provide guidance to test for and remedy lead contamination in drinking water
- Requirements for the testing, recall, repair and/or replacement of water coolers with lead lined storage tanks or with parts containing lead and attaches civil and criminal penalties for the manufacture and sale or water coolers containing lead.

The Lead and Copper Rule (1991)

- Applies to Community (CWS) & Non-transient Non-community (NTNC) Public Water Systems (PWS)
- Schools are often along the distribution line of a CWS
- Schools that have their own source water (i.e. well) are typically considered a NTNC PWS and would be required to collect lead and copper samples

LCR Tap Sample Site Plans

Water systems must identify the highest priority (Tier) sites. Community PWS must sample at all Tier 1 sites if they have enough Tier 1 sites to choose from.

Tier #1 sites: Single family structures that contains copper pipes with lead solder installed between 1983 and 1988, or contain lead pipes and/or served by a lead service line (LSL).

If the System does not have enough Tier 1 sites, then Tier 2...

Tier #2 sites: Buildings (i.e. apartment buildings, schools) that contain the above materials

If the System does not have enough Tier 2 sites, then Tier 3...

Tier #3 sites: Single family structures that contain copper pipes with lead solder installed before 1983



SHARE

Environmental Topics

Laws & Regulations

About EPA

Ground Water and Drinking Water

Ground Water and Drinking Water Home

Basic Information

Private Wells

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All Drinking Water Topics

Safe Drinking Water Information System

For Students and Teachers

3Ts for Reducing Lead in Drinking Water Toolkit

CONTACT US

EPA's 3Ts - **Training, Testing, and Taking Action** - provides tools for schools, child care facilities, states, and water systems to implement voluntary lead in drinking water testing programs.



Additional Resources

- Lead Testing Programs
- EPA schools and child care WIIN grant
- <u>3Ts Highlights (printable</u> version)

https://www.epa.gov/dwreginfo/drinking-water-schools-and-childcare-facilities

2017 EPA Webinar Series

Denver Water and Denver Public Schools

- Massachusetts Department of Environmental Quality
- New York Department of Health

Reducing Lead in Drinking Water in Schools and Child Care Facilities

Case Studies Webinar Series

EPA is hosting a quarterly webinar series to highlight examples of efforts to reduce lead in drinking water in schools and child care facilities.

These webinars will include a brief overview of lead in drinking water, information regarding where to find resources and perspectives from a state, water system and/or school. Presentations will include: A best practices, lessons learned, challenges, funding, procedures, and available resources.



How do I register?

Find registration links to upcoming webinars in this series here: https://www.epa.gov/dwreginfo/drinking-water-training

Who should attend?

Schools, states, primacy agencies, water systems, technical assistance providers and those seeking information about implementing a lead testing program for school drinking water.

https://www.epa.gov/dwreginfo/webinar-series-case-studies-about-reducing-lead-drinking-water-schools-and-child-care

EPA Resources to Support Schools and Child Care Facilities

Drinking Water in Schools Page: <u>www.epa.gov/dwreginfo/lead-drinking-water-schools-and-childcare-facilities</u>

Frequently Asked Questions – Lead Exposure: The Risks and Remedies: <u>www.epa.gov/sites/production/files/2015-</u> 09/documents/toolkit_leadschools_3ts_training_faqs.pdf

Drinking Water Requirements for States & Public Water Systems Training: <u>www.epa.gov/dwreginfo/training</u>

Children's Environmental Health: <u>www.epa.gov/children</u>

Healthy Schools: <u>www.epa.gov/schools</u>

Healthy Child Care: <u>www.epa.gov/childcare</u>