



- History of lead pipes and their use in homes and businesses.
- How lead gets into drinking water.
- Health effects of lead exposure.
- Florida's Voluntary Lead Testing Program for Schools and Childcare Facilities and how to participate.





## **Lead Pipes History** *Lead in Drinking Water*

- Lead pipes commonly used in plumbing prior to 1930s.
- 1930 1986, lead solder typically used to weld copper plumbing.
- Safe Drinking Water Act (SDWA) revised in 1986 to reduce lead in solder and flux to 0.2% and pipes to 8%.

Source: https://www.epa.gov/sdwa/use-lead-free-pipes-fittings-fixtures-solder-and-flux-drinking-water





Current "lead free" rule for fixtures and plumbing materials for drinking water (in effect 2014):

- Maximum of 0.2 % lead in solder and flux.
- Maximum weighted average of 0.25 % lead of wetted surfaces of pipes, pipe fittings, plumbing fittings, and fixtures.

Source: https://www.epa.gov/sdwa/use-lead-free-pipes-fittings-fixtures-solder-and-flux-drinking-water





How does lead get into drinking water?

- Surface and ground water that supplies the drinking water is not usually the source.
- Corrosion of lead-based pipes, solder and fixtures.
- Lack of corrosion treatment control.
- Water sitting in pipes during weekends and long school closures.





How do you know if lead is in the water?

- Dissolved lead in water is not visible, nor has a taste or odor.
- Get to know your building and plumbing history.
- The only way to know is to test for lead.





- Exposure is harmful to humans, especially children.
- Even low levels of lead can cause behavioral and learning issues in children.
- Pregnant and nursing individuals also at risk to harmful effects.
- There is no safe blood lead level.

Source: www.floridahealth.gov/environmental-health/lead-poisoning/parent-info.html





Florida's Voluntary Lead Testing Program for Schools and Childcare Facilities

- EPA has awarded approximately \$1.75 million to Florida for the state to implement the program.
- All participants receive benefits at no cost.





## **EPA 3 Ts Guidelines**

- Training.
- Testing.
- Taking Action.



Source: USEPA WIIN Grant webinar May 8, 2019





- Guidance for effectively communicating with parents and the community.
- Methods for proper sample collection.
- Information on the health effects of lead in drinking water.
- Assistance with development of EPA's 3Ts program.





- On-site drinking water sampling and analysis by certified laboratory.
- Sample kits with drop-off and pick-up service to accommodate health safety protocols.
- All testing and communication is organized by project coordinator, and results will be posted on DEP's Voluntary Lead Testing Program for Schools and Childcare Facilities web page.





- Participants notified immediately for exceedance of 15 parts per billion (ppb).
- Guidance on ways to reduce lead exposure.
- Final copy of report with detailed explanation of results.





## **Program Eligibility**

#### **Lead Testing Program**

- All licensed childcare facilities, public, charter, and tribal schools are eligible.
- Funding may be prioritized to:
  - Schools that serve children six years of age and younger.
  - Buildings constructed before 1986.
  - Low-income areas.





## Florida's Objectives

#### **Lead Testing Program**

- Reduce lead exposure for children and facility staff.
- Focus on testing and targeting facilities serving vulnerable populations.
- Establish and leverage sustainable partnerships at the state and local level.
- Enhance community, parent, and teacher cooperation and awareness.





## **How to Participate**

**Lead Testing Program** 

To participate in this voluntary and cost-free program, please contact DEP's Source and Drinking Water Program at:

850-245-8486

or

PWS@FloridaDEP.gov.



# Useful Links Lead in Drinking Water

- <a href="https://www.epa.gov/sdwa/use-lead-free-pipes-fittings-fixtures-solder-and-flux-drinking-water">https://www.epa.gov/sdwa/use-lead-free-pipes-fittings-fixtures-solder-and-flux-drinking-water</a>
- <a href="http://www.floridahealth.gov/environmental-health/lead-poisoning/parent-info.html">http://www.floridahealth.gov/environmental-health/lead-poisoning/parent-info.html</a>
- https://www.epa.gov/safewater/3Ts
- <a href="https://floridadep.gov/water/source-drinking-water/content/voluntary-lead-testing-schools-child-care-facilities">https://floridadep.gov/water/source-drinking-water/content/voluntary-lead-testing-schools-child-care-facilities</a>





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