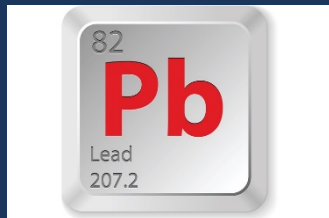




Department of
**Environment &
Conservation**

Division of Water Resources



Lead in Drinking Water

Lead in our environment



ZDLC02



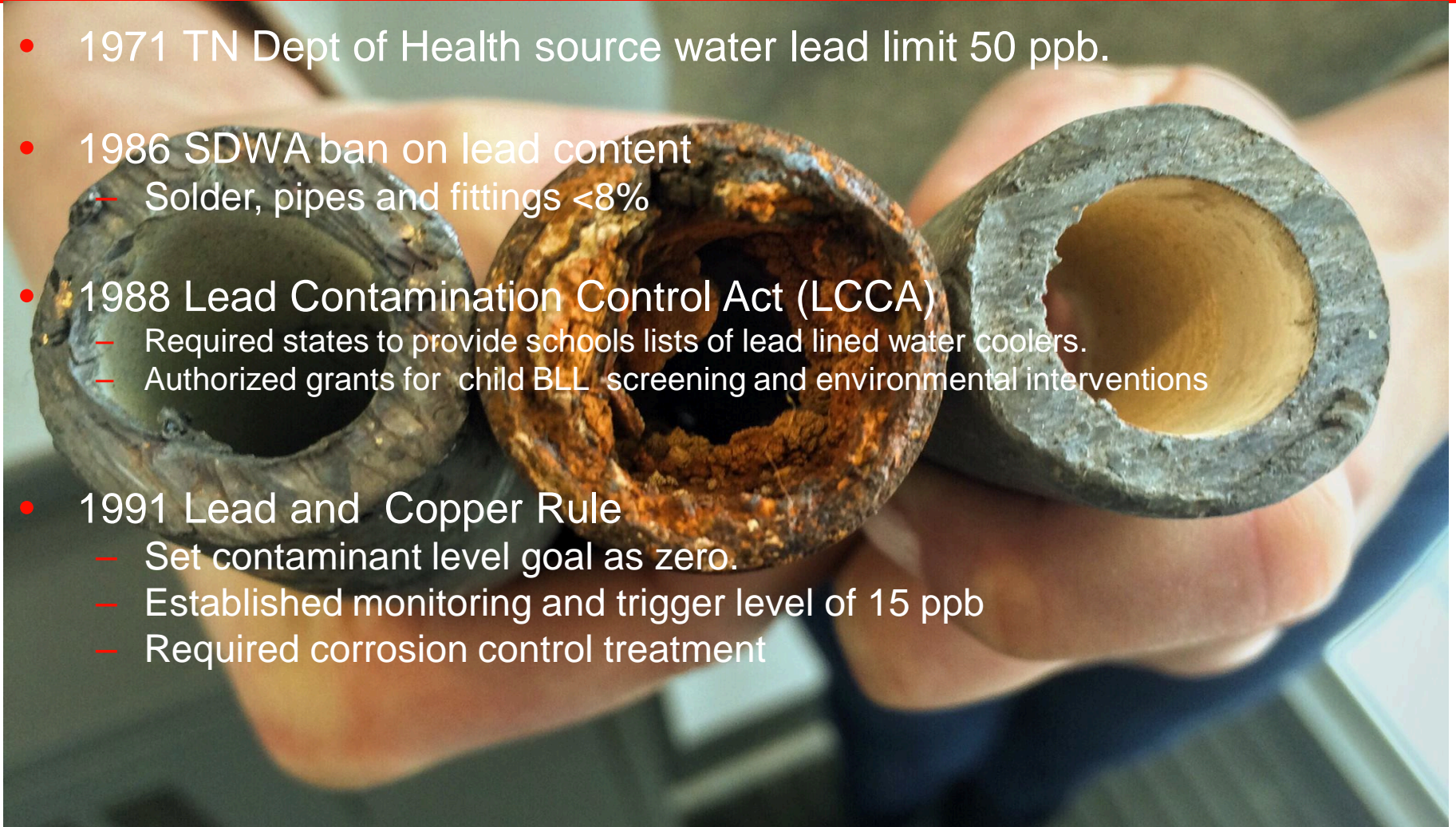
Lead use in water systems

- Romans used lead for water pipes.
- The Latin word for lead is plumbum which is the origin of the English word for plumbing
- Atomic Symbol for lead is Pb
- Lead service lines were installed in TN as late as the 1950's
- Inventories of materials may not be complete



Lead and Copper Rule History

- 1971 TN Dept of Health source water lead limit 50 ppb.
- 1986 SDWA ban on lead content
 - Solder, pipes and fittings <8%
- 1988 Lead Contamination Control Act (LCCA)
 - Required states to provide schools lists of lead lined water coolers.
 - Authorized grants for child BLL screening and environmental interventions
- 1991 Lead and Copper Rule
 - Set contaminant level goal as zero.
 - Established monitoring and trigger level of 15 ppb
 - Required corrosion control treatment



Lead and Copper Rule History

- 2000 Lead and Copper Rule minor revisions- clarification
- 2007 Lead and Copper Rule short-term revisions –PN
- 2011 SDWA - lead content of materials 0.2 - .25 %
- 2021 Lead and Copper Rule Revision (10/16/2024)
 - Requires all PWS to develop a complete lead inventory.
- 202?- Lead and Copper Rule Improvements
 - Will require all lead service lines to be removed.

Sources of Lead in Drinking Water in TN

Brass alloys in faucets and fixtures



Sources of Lead in Drinking Water in TN

Customers plumbing
soldered copper pipes, brass fixtures



Sources of Lead in Drinking Water in TN

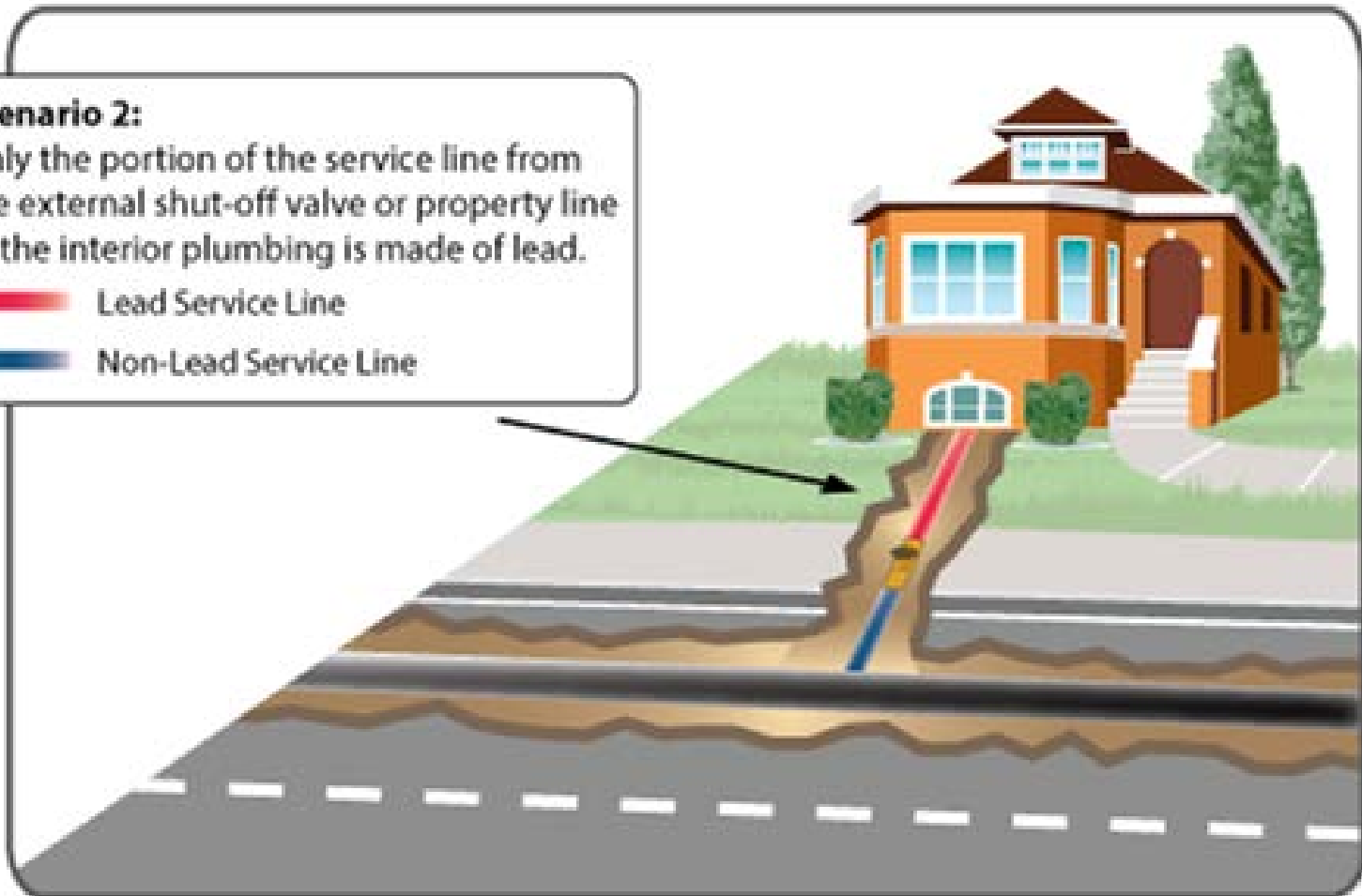
Lead Service lines

Scenario 2:

Only the portion of the service line from the external shut-off valve or property line to the interior plumbing is made of lead.

 Lead Service Line

 Non-Lead Service Line





TN Lead Service Line estimate

- TN has an estimated 2.8 million service line connections
- We estimate approximately 113,000 of them are lead

WIIN Grant for lead testing

Water Infrastructure Improvements for the Nations

- TDEC is administering WIIN grant funds for drinking water lead testing of Schools and Childcare facilities(~\$1.3 million)
- Targeting
 - 1825 schools
 - 1516 TDHS licensed childcare centers
 - 478 Head start facilities
- Schools- 30,027 samples collected- 16 (0.05%) were above the action level
- Daycares- 684 samples collected- 14 (2.04 %) were above the action level



Contact Information

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