

# Workshop Lead Service Line Inventory

Jayson E. Barfknecht, Ph.D., P.E.  
City of Bryan  
Public Works Director

November 12, 2024

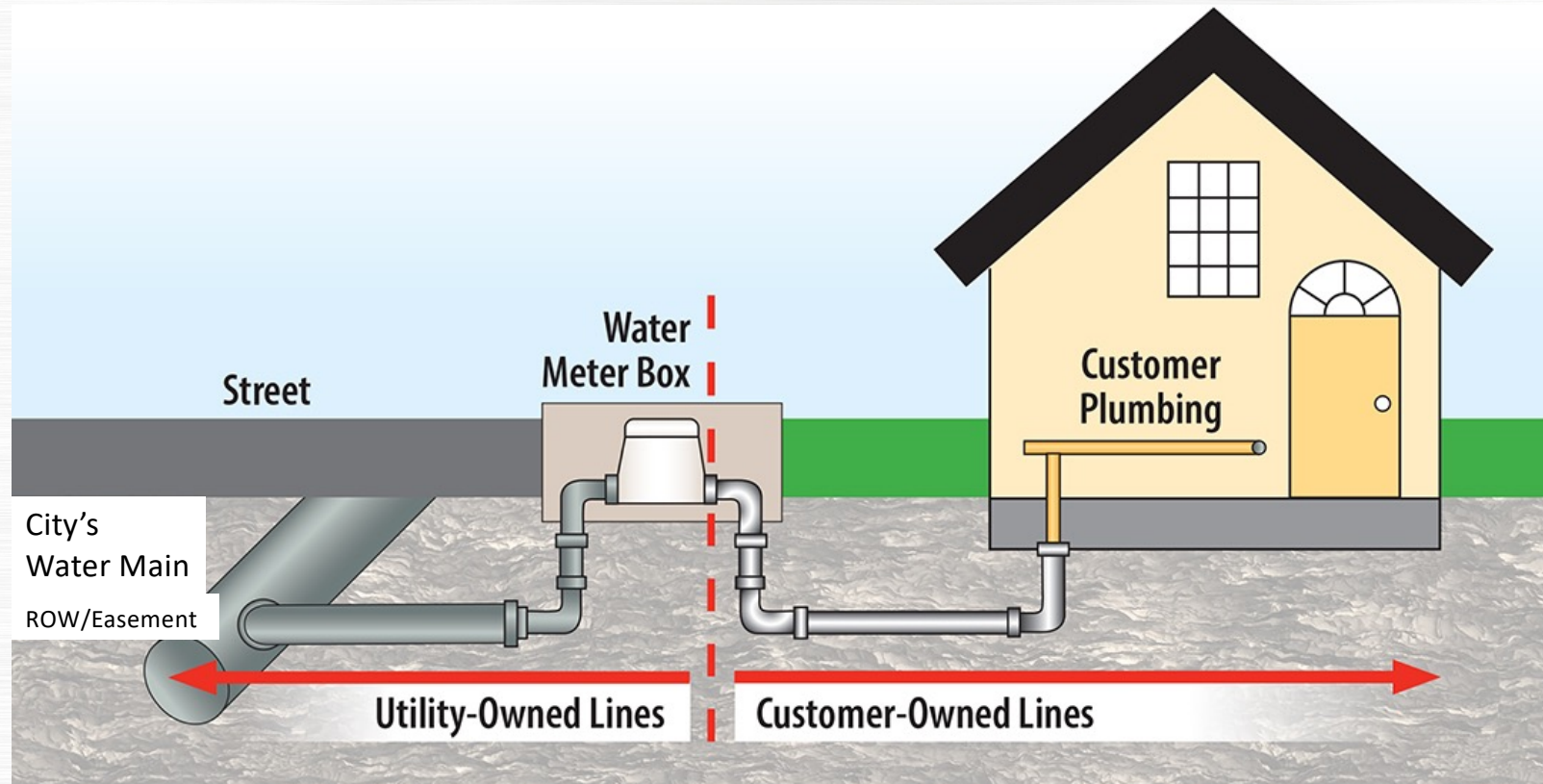


# Outline

- Background Information
- Definitions
- Lead Testing
- Current Efforts
- Recommendations
- Questions



# Background Information - Service Line



## Background Information

- Lead pipes were used in the 1800s to 1980s
- June 19, 1986 - Safe Drinking Water Act (banned use of lead)
- July 1, 1988 - Lead piping was banned in Texas
- June 7, 1991 - EPA adopts first Lead and Copper Rule (LCR)
- December 16, 2021 – EPA finalized Lead and Copper Rule Revision
- August 4, 2022 - EPA issued guidance on initial service line inventory
- October 8, 2024 - LCRI revision was adopted. 10 year window to remove any lead service lines.
- October 16, 2024 - Initial Service Line Inventory deadline
- November 16, 2024 - Notifications to customers must be mailed

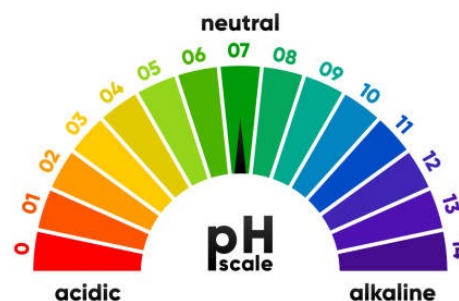


## Background Information

- According to 40 CFR 141.85(e)(2): Water systems must provide notification within 30 days of completion of the lead service line inventory.
- Water systems shall also provide notices to new customers at the time-of-service initiation.

## Background Information

- How does lead get into the water?
  - Lead is more soluble in acidic water (pH 6.5 and lower)
  - Lead from lead piping, plumbing fixtures, solder, and fittings leaches into the water
- City of Bryan's water: pH 8.3 – 8.5



# Background Information

- On October 8, 2024, the U.S. Environmental Protection Agency (EPA) released the final Lead and Copper Rule Improvements (LCRI), which includes new requirements for lead in drinking water.
- **Lead service line replacement:** Requires public water systems to identify and replace all lead pipes within 10 years
- **Lead sampling:** Changes the process for sampling lead in drinking water
- **Lead limits:** Lowers the allowable lead limits in drinking water
- **Community communication:** Requires more consistent communication with citizens about lead pipe replacement schedules and locations
- **Lead trigger level:** Adds a new lead trigger level of 10 ppb

# Definitions

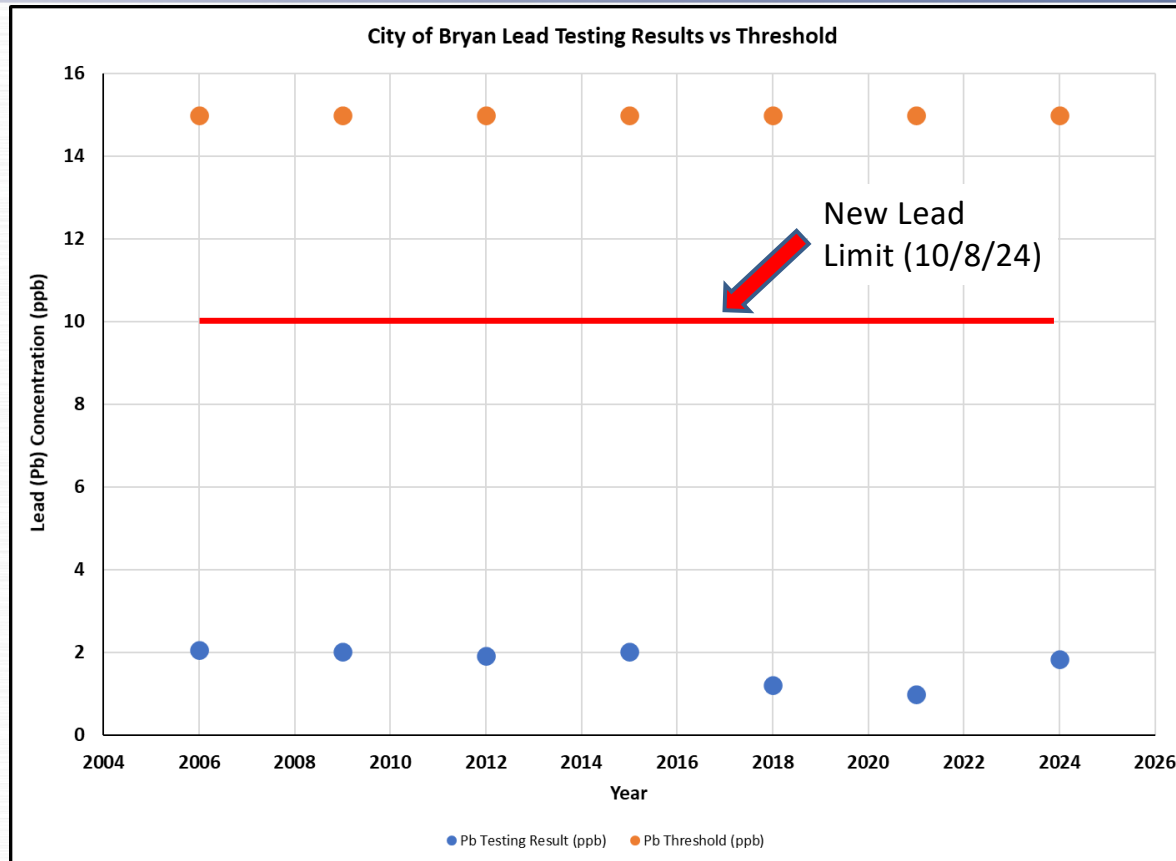
- **Lead Service Line** - the service line is made of lead
- **Galvanized Requires Replacement (GRR)** - a galvanized service line is or was at **any time** downstream of a lead service line or is currently downstream of a “Lead Status Unknown” service line. If the water system is unable to demonstrate that the galvanized service line was **never downstream** of a lead service line, it must presume there was an upstream lead service line.
- **Non-Lead** - the service line is determined through an evidence-based record, method, or technique not to be lead or galvanized requiring replacement.
- **Unknown** - the service line material is not known to be lead, galvanized requiring replacement, or a non-lead service line, such as where there is no documented evidence supporting material classification



# Historical Lead Testing

- City of Bryan has tested for lead in the water going back to early to mid 1990s
- City of Bryan qualifies for reduced sampling and monitoring due to historical test results
- City of Bryan tests for lead every three years
- 30 Samples are taken throughout the City

# Lead Testing Results (90<sup>th</sup> percentile of 30 sites)



## Current Efforts

- Lead Service Line Inventory submitted October 16, 2024
- 36,446 address points identified
- 17,759 Unknown
- 15,910 Non-Lead
- 2,775 Vacant
- 2 Galvanized Requires Replacement
- 0 Lead Service Lines

## Current Efforts

- Records review for infrastructure and house build dates
- Field Identification of materials (City side/Customer side)
- Field form developed for Water Staff to update the inventory
- Website created for Service Line Inventory
  - Allows for customer to share information to the City about their material type
- Service Line Inventory verification will be an ongoing effort for Water Services until all lines are identified



## What if Lead or GRR is found?

- Lead Found
  - Notify the State
  - Notify the customer
  - Replace service line immediately
- GRR Found
  - Notify the customer
  - Take a water sample and test for lead (compliant with EPA LCR)

## Replacement of Service Lines

- Water Services will replace any public lead service lines found immediately and notify the State
- Private Lines
  - Notify the customer
  - If GRR, offer to test the water for lead levels
  - Utilize loan program for private replacement

## Things to do to reduce lead exposure

- Before drinking or cooking, flush your home's pipes by running the tap, taking a shower, doing laundry or running the dishwasher
  - The amount of time recommended to run the water depends on whether your home has a lead service line and the length of the lead service line
- Use only cold water for drinking, cooking and making baby formula  
Remember: boiling water **does not** remove lead
- Use a water filter that is certified to remove lead. **Do not** run hot water through the filter
- Clean your faucet's screen (also known as an aerator) regularly

## Conclusions

- Lead levels are historically below actionable level
- Service line inventory will continue and customers notified when required
- Any public lead service lines found will be replaced immediately
- Any GRR lines found for the private line will be communicated with the customer/ property owner



# Questions/Direction

