



Lead Service Line Inventory

Continuous Improvement Strategy

Wyoming Association of Municipalities

June 12, 2025

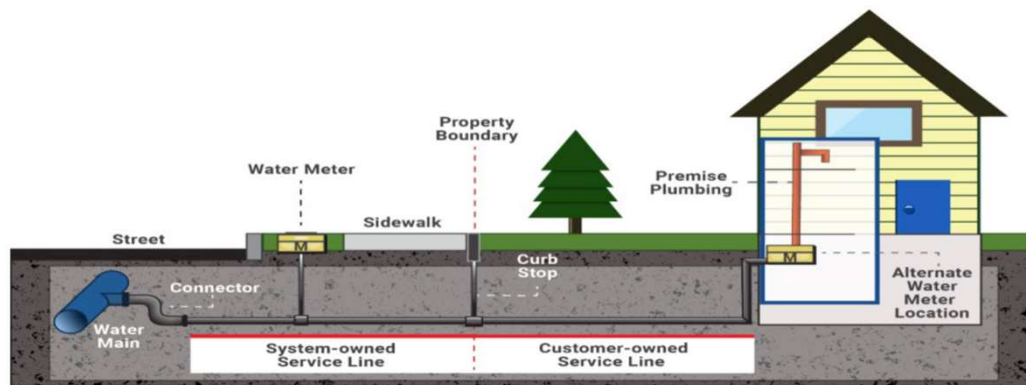
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Initial Lead Service Line Inventory



Locate Existing Lead Pipes

Types of Water Pipes (Service Lines)

Lead – A dull, silver-gray color that is easily scratched with a coin. Use a magnet - strong magnets will not cling to lead pipes.



Galvanized – A dull, silver-gray color. Use a magnet - strong magnets will typically cling to galvanized pipes.



Plastic – White, rigid pipe.



Brass – Dark reddish brown to a light silvery color. Older pipes may be corroded and may contain lead.



Copper – The color of a penny.

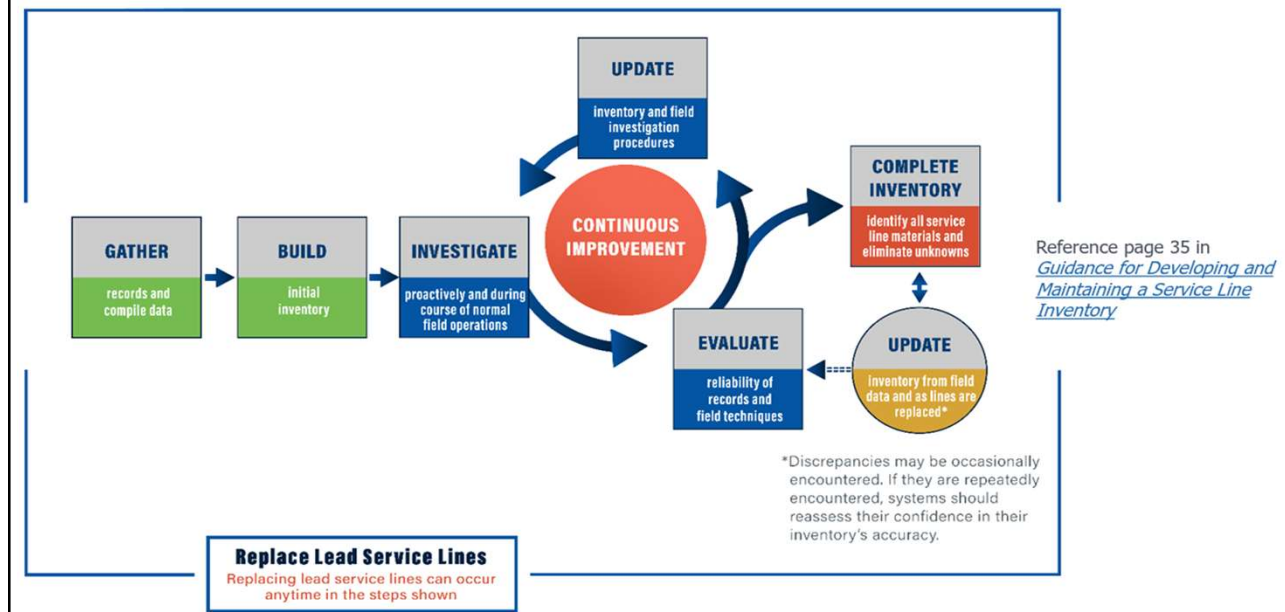


What was required for the initial inventory?

- Inventory all service lines in distribution regardless of ownership.
- Review and use the required sources of information to identify service line materials for the initial inventory.
- Classify each service line as Lead, Galvanized requiring replacement (GRR), Lead status unknown (or unknown), or Non-lead.
- Make Inventory Publicly Accessible, Location identifier required for GRR and Lead.



Inventory Continuous Improvement



Continuous Improvement

Gather Records and Build

- Required: Historical Records Review...



Records
Review

Previous Materials Evaluation

- Under the 1991 Lead and Copper Rule (LCR), systems were required to conduct a materials evaluation.
- Initial number of LSLs under LCR.
- Any documents related to special monitoring for corrosivity characteristics.

Records
Review

Construction and Plumbing Codes

• Places to look for documents:

- Municipal building permit/code enforcement department
- Agency overseeing state plumbing code
- Local governing body (*e.g.*, city or town council)
- City archives, which are often in city public libraries
- Online databases with historical city codes



○ Things to look for:

- When LSLs were allowed/specified or banned from use
- Service areas most likely to have LSLs by home/building construction date and service line size
- Service line and plumbing materials in construction and plumbing permits

Records Review

Water System Records

- Distribution system maps and drawings
- Historical records on each service connection
 - e.g., Tap cards or drill records
- Meter installation records
- Historical capital improvement plans or maps
- Standard operating procedures

Tap Cards

Records Review

Distribution System Inspections

- All inspections and records of the distribution system that indicate material composition of the service connections
- Types of inspection records could include:
 - Responses to customer complaints
 - Inspections to locate leaks
 - Inspections to investigate meter issues
 - Cross connection inspections



Preliminary Records Review

What records can be used to identify non-lead service lines???

Evidence Based Records Example: Service line installed after lead ban...

Lead Banning Plumbing Codes

- ✓ Identify local plumbing and building code history.
 - Find at local government offices (municipal code enforcement) or water system SOPs
 - When was lead banned in your system?
 - If lead ban date can't be found, you may use post 1988 as default lead ban date.



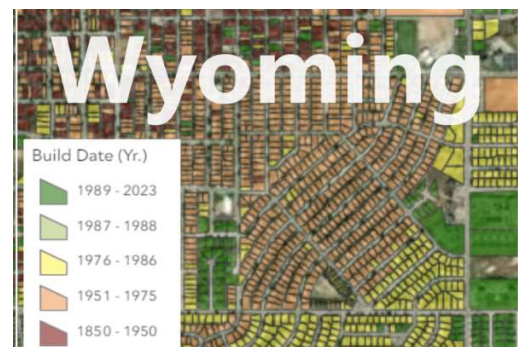
SL Installation Dates

- ✓ Look for records that indicate when service line was installed.
 - Use the 2023 WY Structure Build Date Study Map (Next Slide), or for additional info or updated data, find property records at county assessors office for customer side (many records are online and mapped).
 - Tap cards, capitol improvement projects, maps, drawings, etc. for water system side.

EPA Region 8's Wyoming Structures Built Date Map

2023 Lead Service Line Prioritization Study

- Online GIS map shows dates structures were constructed and the likelihood of lead based on that time range.
- Assumptions/Constraints: EPA makes no claim regarding the accuracy or precision of the data shown herein.
- This is not a predictive model; actual service line materials have not been verified.



<https://experience.arcgis.com/experience/82ee4c6fbe574633b293723dd6d1afce>



Continuous Improvement

Gathering and Tracking Service Line Information During Normal Operations

- Create inspection records of service line materials during normal operations
- Identifying service line material should be built into normal operations such as:
 - Water meter reading, repair, or replacement;
 - Service line repair or replacement;
 - Water main repair or replacement; and
 - Backflow prevention inspections.
- Consider adding standard operating procedures (SOPs) to document how the information will be collected and used.



Example of Meter Pit and Service Lines
Source LSLR Collaborative 2018

Public Information and Education Requirements

The public information requirements of the LCRR are intended to help customers understand the sources of lead in their drinking water, so they can take steps to reduce their exposure.

Water systems must:

1. Make the inventory publicly accessible (Oct 16, 2024)
2. Consumer Confidence Report (CCR) requirements, - By July 1, 2025, all community water systems that have completed the initial LSL inventory must include instructions to access the service line inventory in their Consumer Confidence Report.
3. Annual delivery of consumer notifications to all persons served by a lead, GRR, and unknown service line. (Initial delivery due Nov 15, 2024, and annually thereafter until no more lead, GRR or unknowns)

Certification of Annual Service Line Material Notification

Due Annually by July 1 (2025- 2027)

- The water system must certify to the Primacy Agency that it delivered the Service Line Material Consumer Notification for the previous calendar year.
- The water system must also provide an example copy of the notification to the Primacy Agency.
- Instructions and Certification Template available on EPA Region 8 Water Ops Website – LSLI Reporting Forms.

<https://www.epa.gov/region8-waterops/reporting-forms-drinking-water-systems-wyoming-and-tribal-lands-epa-region-8#lsli>

CERTIFICATION OF DELIVERY FOR THE CONSUMER NOTIFICATION OF LSL AND OF LSL INFORMATION MATERIALS

PWS NAME: _____ PWS ID No.: _____

It is the intent of this water system to certify that it has delivered the annual consumer notification and delivered lead service line information materials to affected consumers with a lead, galvanized requiring replacement, or lead status unknown service line in accordance with § 141.85(a) for the previous calendar year of: _____.

CERTIFIED BY:

Name: _____ Title: _____

Address or Phone No.: _____

By signing below the respondent (identified above) hereby certifies that the water system has complied with the consumer notification of lead service line materials as specified in § 141.85(a).

Signature: _____ Date: _____

EPAWATERTA

EPA's free Water Technical Assistance

Including the Get the Lead Out Initiative (GLO), helps communities:

- **LSL Inventories**
- **Community Engagement Plans**
- **Lead Service Line Replacement Plans**
- **State Revolving Fund (SRF) Applications**

Request assistance by completing the WaterTA request form:

<https://www.epa.gov/water-infrastructure/water-technicalassistance-waterta>





Thank you for attending today's presentation on the:

Lead Service Line Inventory

Do you have any questions?

**Please visit our EPA Region 8 Lead
Service Line Inventory Webpage!**



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