

North Central Texas Council of Governments

LCRR (Lead and Copper Rule Revisions) 101 and Ideas on How Water Systems Can Start Preparing

NCTCOG Webinar May 25, 2022

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Prepared in cooperation with the Texas Commission on Environmental Quality and U.S. Environmental Protection Agency







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The webinar is being recorded and will be posted to NCTCOG's website under the green banner called "Webinars" here:

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- If you submitted an RSVP for this webinar, you will receive an email with the presentation slides, and eventually, a link to the recording. If you did <u>not</u> RSVP and would like these webinar materials, please email <u>eberg@nctcog.org</u>.
- ▶ Please keep your microphone on mute until the Questionand-Answer period at the end of each presentation.
- ► Thank you!

Webinar Agenda

- LCRR 101
 - ► Laura Higgins, TCEQ
- ▶ Plans and Preparations for LCRR Compliance Large utility perspective
 - ► Stacy Walters, City of Fort Worth
- Open Discussion: What is your water utility doing to prepare? Input from small utilities
- Preparations for LCRR Public Outreach and Risk Communication
 - ► Mary Gugliuzza, City of Fort Worth
- ► Wrap-Up

Speaker Introduction

Laura Higgins

- ► Team Leader, Lead and Copper Monitoring Team
- ► Texas Commission on Environmental Quality (TCEQ)

Lead and Copper Rule Revision (LCRR) General Overview



Laura Higgins

TEXAS COMMISION ON ENVIRONMENTAL QUALITY
WATER SUPPLY DIVISION

Outline



- Background
- EPA's Intent to Strengthen LCR
- Overview of the LCRR
- Next Steps

Background



- LCR originally published in 1991.
- A treatment technique regulation requiring action to reduce exposure.
- To keep lead from entering the water, systems must treat water using certain chemicals to reduce corrosion.

EPA's Intent to Strengthen LCR



- Goal to proactively remove lead service lines and more equitably protect public health.
- EPA 2021 review of LCRR (2020)
 - Implement two-prong approach:
 - LCRR effective now
 - LCRI (Lead and Copper Rule Improvements) under development

Lead and Copper Rule Revision Overview



- LCRR strengthens the LCR to better protect children and communities
- The rule aims to:
 - Goal 1. Get the lead out
 - Goal 2. Empower communities
 - Goal 3. Better protect children

Get the Lead Out (Goal 1)



- Target sampling lead service lines
- New tap sampling procedures (i.e., 5th liter)
- Systems with higher levels will sample more frequently
- Triggering Actions to Reduce Lead Exposure Earlier
 - Find and fix approach
 - Flexibility for small systems

LCRR Goal 1



- Triggering Actions to Reduce Lead Exposure Earlier
 - Find and fix approach
 - Flexibility for small systems

Lead Service Lines (Goal 1)



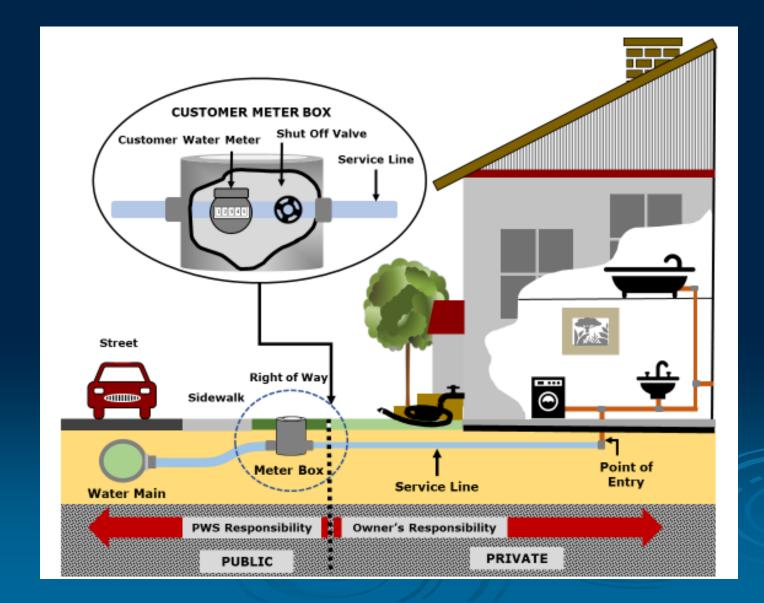
Replacing More Lead Service Lines (LSLs)

The LCRR defines a lead service line as:

"a portion of pipe that is made of lead, which connects the water main to the building inlet. A lead service line may be owned by the water system, owned by the property owner or both. For the purposes of this subpart, a galvanized service line is considered a lead service line if it ever was or is currently downstream of any lead service line or service line of unknown material. If the only lead piping serving the home is lead gooseneck, pigtail, or connector, and it is not a galvanized service line that is considered a lead service line, the service line is not considered a lead service line. For purposes of §141.86(a) only, a galvanized service line is not considered a lead service line."

PWS Service Line Graphic





LSLs Replacement (Goal 1)



Replacing More Lead Service Lines

- Develop service line inventory
- New trigger level
 - Systems >10 ppb required to set an annual goal for replacing lead service lines
 - Systems >15 ppb required to fully replace a minimum of 3% of known potential lead service lines annually

Service Line Inventories



- 40 CFR §141.84 All water systems must develop an inventory
- 40CFR §141.84(a)(2)- the inventory must include all service lines regardless of ownership status (e.g., where service line ownership is shared, the inventory would include both the portion of the service line owned by the water system and the customer-owned portion of the service line).

Service Line Inventories: WHO and WHEN



- WHO: Required for all community and non transient, non community water systems
- WHEN: Submitted to TCEQ by October 16, 2024
 - Required once for non-lead systems
 - Required annually or triennially for all others
 - With system's CCR (First due July 1, 2025)

DON'T WAIT!







Service Line Inventory Sources of Information



- Construction and plumbing codes, permits, and existing records
- Distribution maps, drawings, capital improvement or master plans
- Historical records on each service connection and meter installation
- Inspections and records of distribution system

Service Line Inventory: WHAT



- Non-lead Only Systems
 - Record review checklist
 - Service line material category table
 - Certification of completion

- Lead, GRR, an/or Unknown Systems
 - Street address
 - Second identifier (account, meter #)
 - Service line material
 - Service line installation date
 - Source of verification

Empowering Communities (Goal 2)



Homeowners will learn about elevated levels of lead in their home or system sooner

- 40 CFR § 141.31(d)(2)
 - For a lead action level exceedance, public water systems must provide public notice as soon as practicable, but not later than 24 hours after the public water system learns of the violation or exceedance.

Public Notification (Goal 2)



Water systems will also notify homeowners and building owners about opportunities to replace lead service lines, including information about financial assistance programs

Utility Side vs Customer Side

Better Protect Children (Goal 3)



Better protect children at schools and childcare facilities

- The LCRR includes the following definitions related to schools and childcare facilities:
 - "Child Care Facility means a location that houses a licensed provider of child care, day care, or early learning services to children, as determined by the State, local, or tribal licensing agency."
 - "School means any building(s) associated with public, private, or charter institutions that primarily provides teaching and learning for elementary or secondary students."
 - "Elementary School means a schools classified as elementary by state and local practice and composed of any span of grades (including preschool) not above grade 8."

Testing in Schools and Childcare Facilities (Goal 3)



- Community systems will now be required to test at school and childcare facilities.
- These facilities must conduct testing once over a five-year period (20% of facilities each year).

Testing in Schools (Goal 3)



- After five years, these schools and childcare facilities.
 - will continue receiving annual outreach; and
 - will have the opportunity to be tested for lead by the system on request.
- Secondary schools can request testing at anytime.

Next Steps



- Water systems must comply with previous LCR (as codified in the July 1, 2020 CFR) until the LCRR Compliance Date: October 16, 2024
 - LSL Inventories are due by this date
- TCEQ will issue guidance for the LCRR following guidance from EPA
- EPA will begin to develop the LCRI
 - Intends to promulgate prior to October 16, 2024

Timeline



- ❖ January 15, 2021 Final LCRR Published
- ❖ January 20, 2021 Presidential Executive Order 13990 to review rules (including LCRR)
- Spring Fall 2021 EPA executive order review of LCRR and extensive public engagement
- June 16, 2021 Final LCRR republished without changes with effective date of December 16, 2021
- ❖ December 16, 2021 EPA announces no changes to LCRR and new LCRI
- Early 2022 EPA is expected to provide more information on LCRI
- Summer 2024 Publication of LCRI
- October 16, 2024 Compliance date of LCRR

What else to work on NOW

STATE ON THE PROPERTY OF THE P

- Complying with the current LCR
- Read the LCRR
- Inventory
- Proactive Replacement
 - End goal, get ahead of the game
 - Funding options
- Corrosion Control

Additional Resources



For more information, please see the links below:

- EPA website:
 - <u>www.epa.gov/ground-water-and-drinking-water/review-national-primary-drinking-water-regulation-lead-and-copper</u>
- Next Steps for the Lead and Copper Rule:
 - www.epa.gov/system/files/documents/2021-12/lcrr-review-fact-sheet_0.pdf
- EPA Press Release:
 - <u>www.epa.gov/newsreleases/epa-announces-intent-strengthen-lead-and-copper-regulations-support-proactive-lead</u>

Contact Us



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Lead and Copper Rule Program

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Questions?



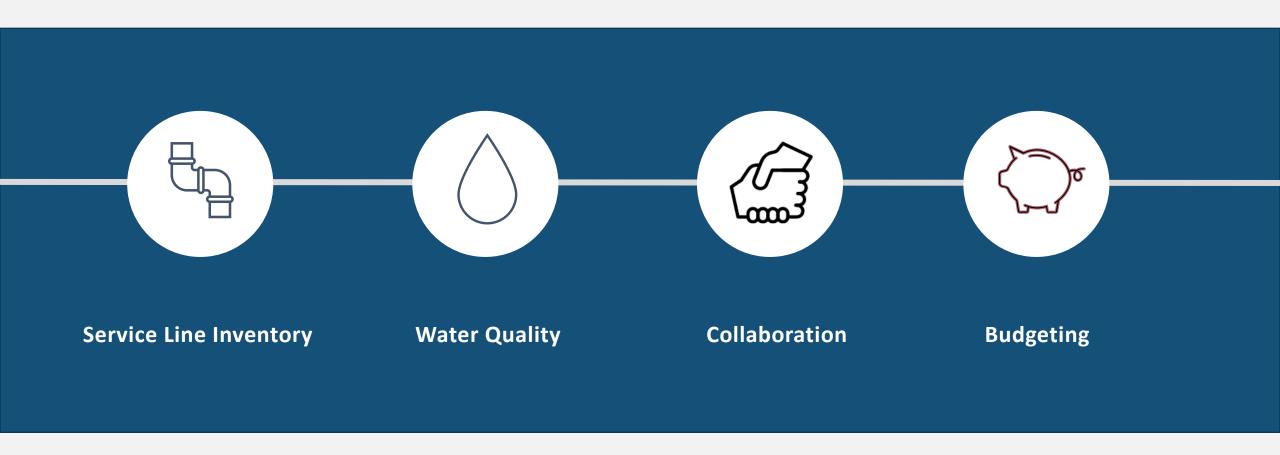
Speaker Introduction

Stacy Walters

- Regulatory Administrator
- ► City of Fort Worth

Fort Worth's preparations for the LCRR

We focused on four areas for preparing for the LCRR



What's the timeline for compliance with the LCRR?

December 16, 2021

Effective Date

EPA Develops LCRI

Oct. 16, 2024

Compliance Date

- Develop list of schools and licensed childcare facilities for sampling
- Submit to the State:
 - Service Line Inventory
 - LSL Replacement Plan

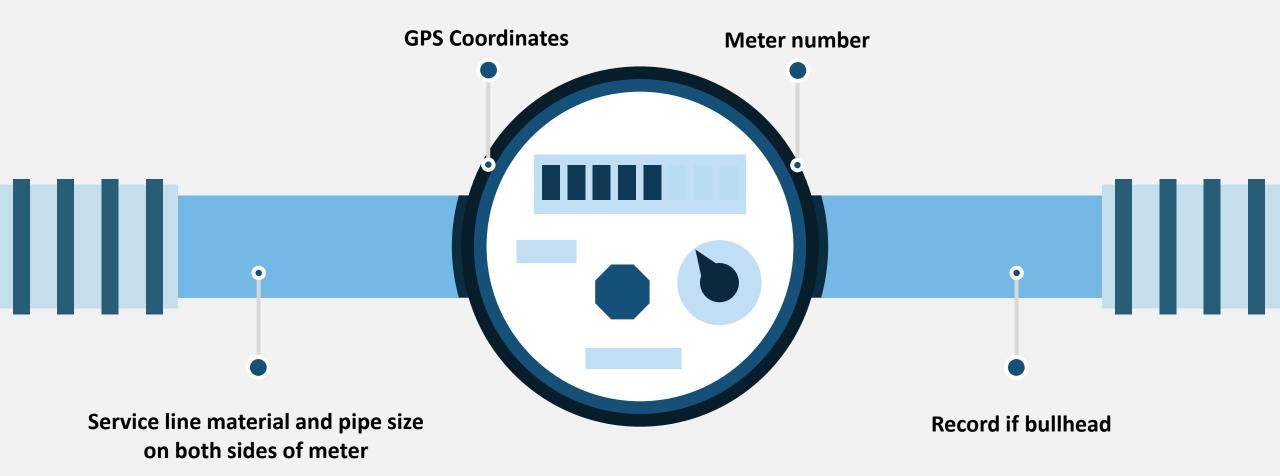
2025

Start of 1st tap sample monitoring period.

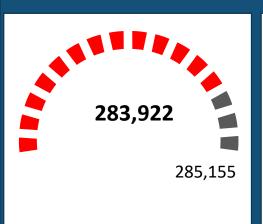
Submit to the State:

- List of tap sample sites
- List of WQP sites (if required)
- Copy of tap sampling protocol to be provided to individuals who are sampling

Data collection: approximately 94% complete



Fort Worth started our inventory in 2016



LSL - City **1,833**

LSL – Customer 10 LSL – Replaced 1,807

Galvanized requiring replacement **1,153**

We have developed system-wide water quality standards



We conduct proactive monitoring to prepare for more stringent requirements

New 10 ppb trigger level (90th percentile calculation)

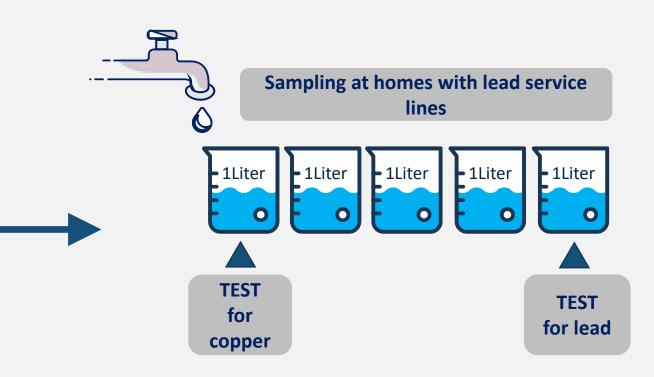


Determine Tier Levels (Tiers 1, 2, 3, 4, & 5)

5th Liter Sampling



Find and Fix (>15 ppb)





The LCRI may modify some of these requirements

We have developed partnerships for reaching different groups

COLLABORATE Other City Within Utility **State Agencies** Other Local **Departments Meter Services Plumbers Code Compliance County Health TCEQ** Consumer Health Departments **Field Operations** Realtors **Customer Service** Schools **Social Service Neighborhood Services** TEA **Public Engagement** (ISDs, Parochial, private, Organizations charter) **Capital Delivery** Builders and Developers Water IT Planning and **TDSHS** Licensed child care Development **Equity Issues** Laboratory

Cost impacts of the program





Hired one full-time staff member



Operational costs

- Bottles
- Pitcher/Filters
- Printing/mailing for public outreach
- Gift cards for compliance monitoring participants
- Staff resources for program compliance

The path forward for Fort Worth



• Goal: end of 2022

Collaborate

 With internal stakeholders and outside entities, regulators

Develop Plans

 Sampling pool, LSL replacements, schools/daycares, SOPs, communications

Develop Monitoring Tools

 Dashboards, reminders, auto generated work orders

Evaluate and Update

 Ongoing monitoring and implement process improvements



To do list (by Oct. 16, 2024)

- 1. Develop a SL inventory
- 2. Eliminate "unknown" SL
- 3. Prepare website for displaying
- 4. Develop a LSL Replacement Plan (including Find & Fix protocols)
- 5. Develop an SOP for disturbances of lead, unknown and galvanized downstream of lead
- 6. Prepare sampling plan for schools and registered daycares
- 7. Update sampling pool in accordance with new tiers
- 8. Revise sampling protocols to meet new requirements
- 9. Contract with a lab, if no in-house capability
- 10. Develop public education materials /notifications



Thank you

Stacy Walters
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Fort Worth Water
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Discussion

What is your water system doing to prepare?



Speaker Introduction

Mary Gugliuzza

- Media Relations and Communications Coordinator
- ► City of Fort Worth

Public Outreach

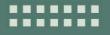
Lead & Copper Rule Revisions

Public Outreach



- Inventory
- LSL Replacements
- Disturbances
- Corrosion Control

- Compliance Sampling
- School & Daycare Sampling
- Public Notification



Inventory

Data Availability

- Must include location identifier
- Info in CCR on how to access
- Large systems (>50,000 served) must post on website

Notify

- Customers with LSL, galvanized requiring replacement or unknown
 - Within 30 days of completing inventory
 - Annually until no longer in any of these categories
 - New customers at time service initiated
 - Notification language varies



Compliance Sampling



Individual Test Results

- 30 days if <15 mg/L
- 3 days if ≥15 mg/L
- Communicating with occupants of building where tap was sampled



Overall results

- Annual outreach to state and local health departments
- Publicly available within 60 days



Exceedances require outreach

- > trigger level
- > action level
- AL exceedance = public notification (24 hours)





Notification to property owners and people at location at least 45 days before planned work will result in LSL replacement;



Must offer to replace private portion, but not required to pay for it

Planned

LSL Replacements - Partial





Notification to customers **before** SL placed back in service:



May experience a temporary increase of lead levels in their drinking water due to the replacement



Required language on health effects of lead



Actions to minimize exposure to lead in drinking water



Procedure for flushing



Pitcher filter or POU device with six months of filters



Offer of follow-up tap sample 3 to 6 months after SL replacement

Planned & Unplanned

LSL Replacements Partial or Full





When notified customer portion is being replaced and simultaneous replacement cannot be conducted or when find out it was replaced within previous six months:



Notification to customers **before** SL placed back in service:



May experience a temporary increase of lead levels in their drinking water due to the replacement



Required language on health effects of lead



Actions to minimize exposure to lead in drinking water



Procedure for flushing



Pitcher filter or POU device with six months of filters

Customer Initiated

LSL Replacements

Disturbances

Shut off or bypass

(operating a valve on a service line or meter setter, and without conducting a partial or full lead service line replacement)



Replacing an inline water meter, a water meter setter, or gooseneck, pigtail, or connector

Corrosion Control



America's Water Infrastructure Act of 2018



Annual Water Quality Report



Information on corrosion control efforts



Schools and daycares



Elementary Schools and daycares



Health risks



Requirement to sample; proposed schedule



Instructions and 3Ts document



Results and remediation options



Secondary Schools



Health risks



info on how to request sampling



Results and remediation options

Existing outreach materials





Thank You

Contact Information:

Mary Gugliuzza
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Questions?



Wrap-Up

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