

A photograph of a woman with dark hair tied back, wearing a white cardigan over a teal top, smiling as she looks at a young child with curly hair. The child is wearing a yellow and white shirt and is leaning over a kitchen sink, holding a clear glass under a modern chrome faucet. The background shows a window with a view of green trees and a blue sky.

Overview of LCRR Requirements and Lead Service Line Replacement Program

April 23rd, 2024 @ 6:00pm

Presented to the Ledyard Water Pollution Control Authority

Introduction



Jennifer Kelly Lachmayr, PE, BCEE

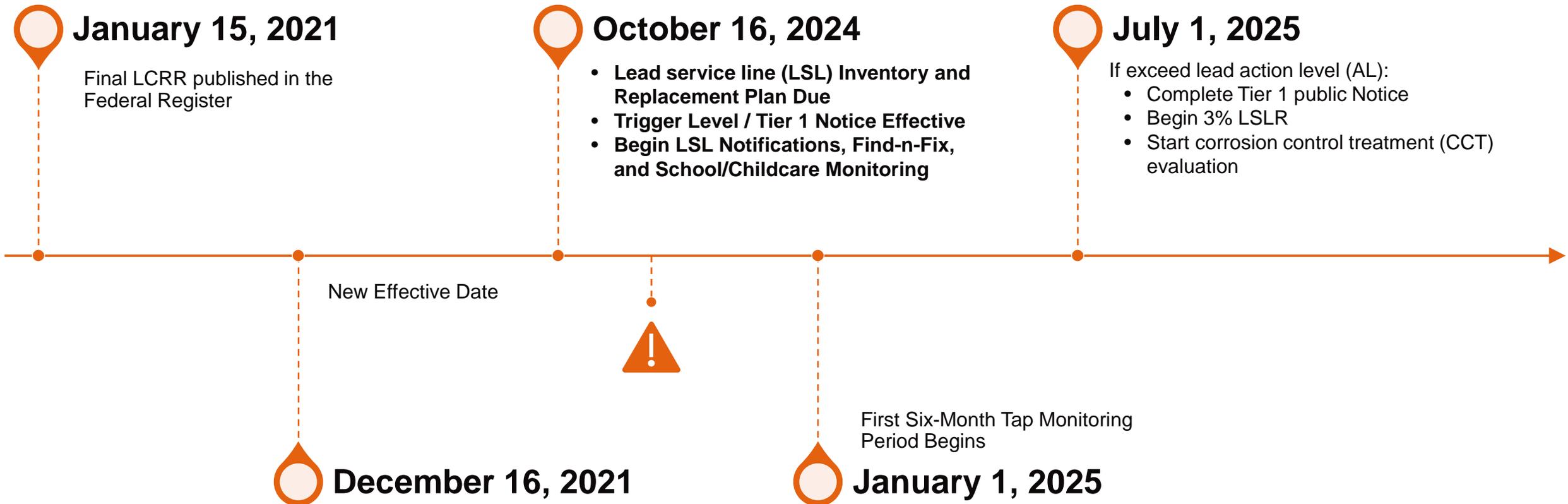
Program Director

Arcadis

Agenda

- 1 EPA LCRR/LCRI Overview
- 2 Program Overview
- 3 Public Outreach
- 4 Construction Phasing/Process
- 5 Funding Needs
- 6 Discussion

Anticipated LCRR Compliance Timeline



USEPA intends to propose and promulgate further revisions (Lead and Copper Rule Improvements) prior to Oct. 16, 2024

Anticipated LCRI Regulatory Timeline

Anticipated LCRI Compliance Date:

- Baseline SLI and LSLR Plan Due
- Begin 10-yr LSLR
- New Action Level of 10 µg/L
- Begin Distribution System & Site Assessment, School & Childcare Monitoring
- Outreach and Filters for Disturbances

Final LCRR



2021

2024



Oct. 16, 2024:

- **Final LCRI**
- Initial SLI Due
- Tier 1 Notice Effective
- Begin SL Notifications
- Maintain Action Level of 15 µg/L



2027

2028



Begin LCRI Standard Six-Month Tap Monitoring



2032

First 5-yr School & Childcare Monitoring Cycle Complete

2034



Complete SLI Validation

Complete SLI and LSLRs



2037

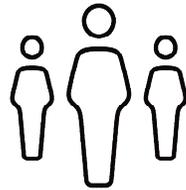
Ledyard System Overview and Service Line Ownership



- 1 Gales Ferry System
- 2 Ledyard Center System

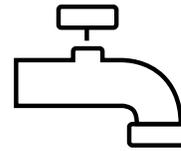
Additional Water Service Areas

- 3 Southeastern Connecticut Water Authority (SCWA)
- 4 Mashantucket Pequot



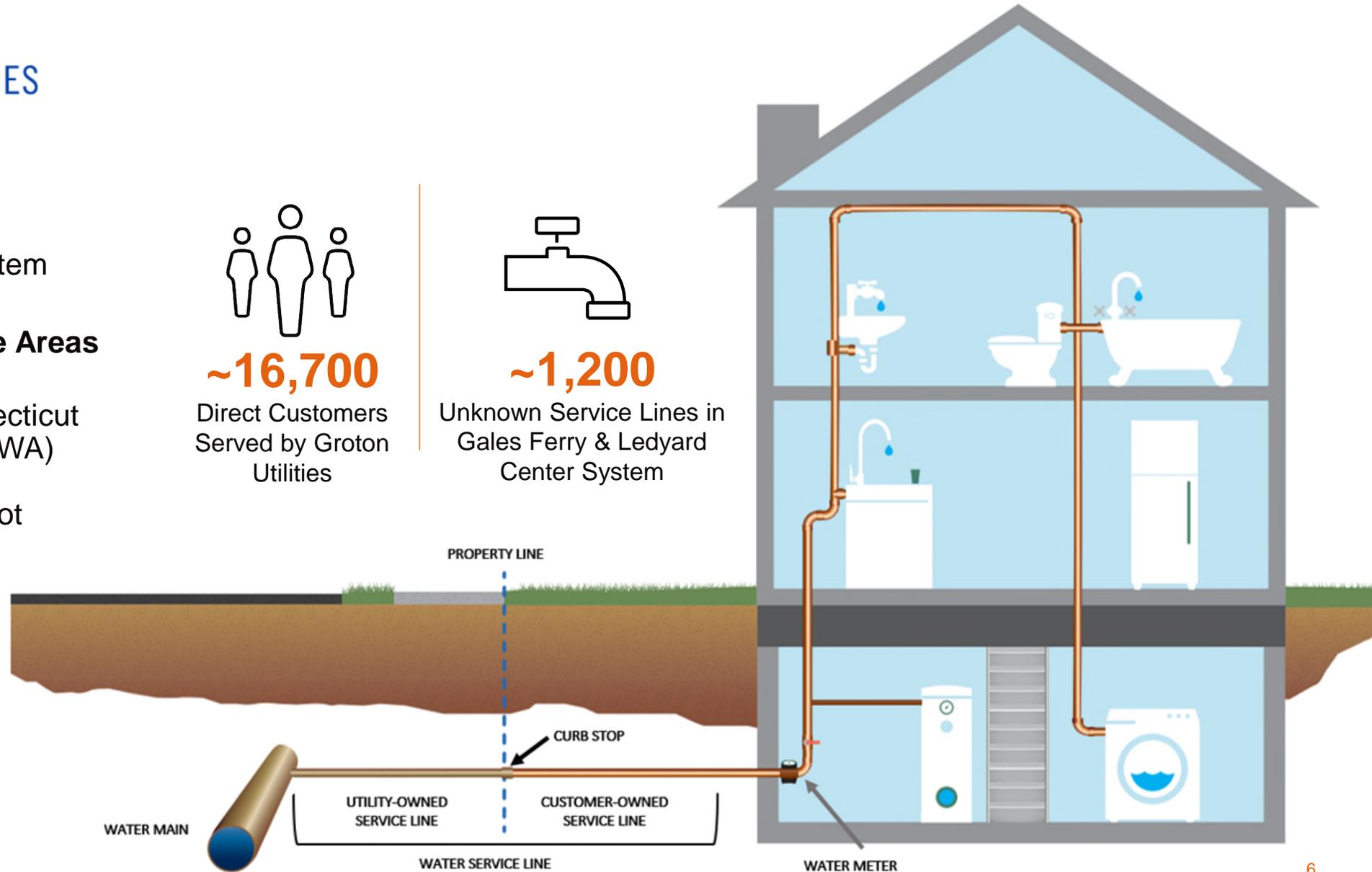
~16,700

Direct Customers Served by Groton Utilities



~1,200

Unknown Service Lines in Gales Ferry & Ledyard Center System



Breakdown of Lead Status Unknown SLs

Ledyard Center System

System-Side	Customer-Side
322	576

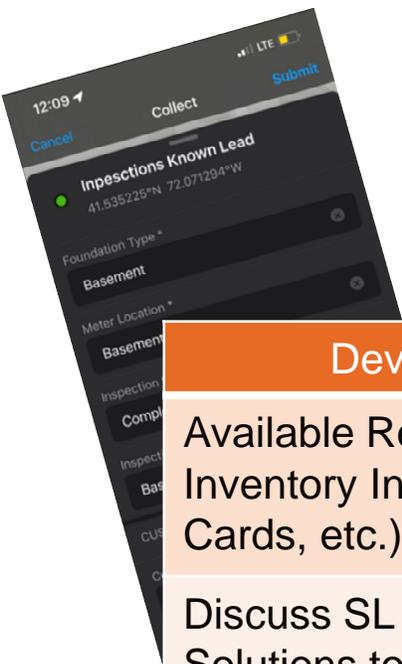
Gales Ferry System

System-Side	Customer-Side
38	544

What are we doing? Why is this important?

- New London is implementing a comprehensive **Lead Service Line Replacement (LSLR) Program.**
- The Program includes:
 - **Updating the City's current inventory of lead service lines**
 - **Replacement of lead drinking water service lines with new copper lines.**
 - **Public Education & Outreach**
- Maintained compliance with established lead and copper action levels in its water system providing high quality drinking water to its customers
- City is proactively advancing a program around lead service line education, inventory, and replacement. **We have started replacing known lead service lines.**
- The City of New London is committed to providing a safe source of drinking water to its residents and works hard to keep that commitment.

Service Line Material Inventory



CT DPH Template Inventory Required Fields

- Address Information
- Initial Connector or Gooseneck Material Code & Material
- Connector or Gooseneck Verified Material Code & Material
- Connector or Gooseneck Verification Source & Date
- Lead Gooseneck, Pigtail, or Connector Replacement Date
- New Connector or Gooseneck Diameter
- Initial System Service Line Material Code & Material
- System Service Line Verified Material Code & Material
- System Service Line Verification Source & Verified Material Date
- Is System Service Line Replacement Required?
- Customer Initiated System LSLR Date & Extension Deadline
- System Service Line Replacement Date, Material Code, & Material
- New System Line Diameter
- Initial Customer Service Line Material Code & Material
- Customer Service Line Verified Material Code & Verified Material
- Customer Service Line Verification Source & Verified Material Date
- Is Customer Service Line Replacement Required?
- Customer Refusals/Non-Responses for LSLR
- Customer Service Line Replacement Date, Material Code, & Material
- New Customer Service Line Material Diameter
- Entire Service Line Material Classification

Developing Service Line Inventory

Available Records for Developing a Current SL Inventory Information (i.e. Historical Record, Tap Cards, etc.)

Discuss SL Identification Strategies for Feasible Solutions to “Unknown” SL Materials

Discuss Methods for Tracking & Updating Materials (i.e. ArcGIS Field Maps)

Present Findings for Best Practices Moving Forward

Develop a Public Facing Inventory and Training with MWD

CT DPH LCRR Material Inventory Template

SITE ID	LOCATION IDENTIFIER	STREET ADDRESS	TOWN	SYSTEM SERVICE LINE VERIFIED MATERIAL CODE	SYSTEM SERVICE LINE VERIFIED MATERIAL	SYSTEM SERVICE LINE VERIFICATION SOURCE	SYSTEM SERVICE LINE VERIFIED MATERIAL DATE	IS SYSTEM SERVICE LINE REPLACEMENT REQUIRED?
ABC	XYZ	100 Main Street	Anytown	CL	CONFIRMED LEAD	RV	3/25/2023	Y
DEF	UVW	101 Main Street	Anytown					
GHI	TSR	102 Main Street	Anytown	PL	PLASTIC	RV	3/25/2023	N
JKL	QPO	103 Main Street	Anytown	CL	CONFIRMED LEAD			
MNO	MNL	104 Main Street	Anytown					
PQR	KJI	105 Main Street	Anytown	OT	OTHER NON-LEAD	FI	3/25/2023	N
STU	HGF	106 Main Street	Anytown					
VWX	EDC	107 Main Street	Anytown	IL	LINED CAST IRON			
YZ	BA	108 Main Street	Anytown	CC	CONFIRMED COPPER	FI	3/25/2023	N
A1B1	C1D1	109 Main Street	Anytown					

Service Line Subclassification Recommendations

Recommend additional information to help determining the probable SL

- 1) **Lead Status Unknown:** The degree of likelihood that the SL is lead, i.e. low, medium, high
- 2) **Galvanized Requiring Replacement (GRR) known or unknown to have been downstream of an LSL:** Track the subclassification, i.e.
 - a) The galvanized pipe is known to be currently downstream of LSL,
 - b) The galvanized pipe was previously downstream of an LSL, or
 - c) Unknown if the galvanized pipe was ever downstream of an LSL.

Classification	Subclassification Example
Unknown	Install date 1970, record drawing doesn't call out material
GRR	Not enough information if galvanized line was ever downstream of LSL, installed 1943
Non-lead	1" Copper pipe replaced June 2017
Lead	Split ownership, Utility-side service line is lead, customer-side unknown
Lead	Galvanized Lead Line
Lead	Downstream of 2" LSL installed during 1950 to 1960
Lead	Downstream of Lead Pigtail

Public Outreach Activities

LSLR Notifications

- **Postcard** - inform customer of selection for LSL Replacement & invite them to participate in program

Doorhanger Packet

- **Agreement Forms**
- **Homeowner's Guide to Managing Lead**
- **Program Booklet**
- **Public Meeting Flyer**
- **Frequently Asked Questions sheet (FAQs)**

Public Open Houses/Community Meetings

- Targeted Open House outreach - **Flyers & Announcements** to customers / areas within this phase of replacement

Onsite Pre-work Inspection

- **Final on-site verification** of SL material (recorded)
- **Pre-construction video** of existing conditions.
- **Pitcher filter with 6 months of cartridges** provided to residents with instructions. Track distribution.

Program Website

- Our robust, **custom program** website is the hub of customer outreach.
- Provides a variety of materials and opportunities to learn more and opt-in.



Public Facing Inventory



City of New London Water Service Information

The City of New London makes no warranty, representation or guarantee as to the content or completeness of any of the database information provided herein. The information provided in the map are provided "as is" and without express or implied warranties of any kind as to the accuracy of the information or fitness for any particular purpose. In no event will the City of New London be made liable for any damages, including loss of data, lost profits, business interruption, loss of business information or other pecuniary loss that may arise from the use of this mapping service or the information it contains.

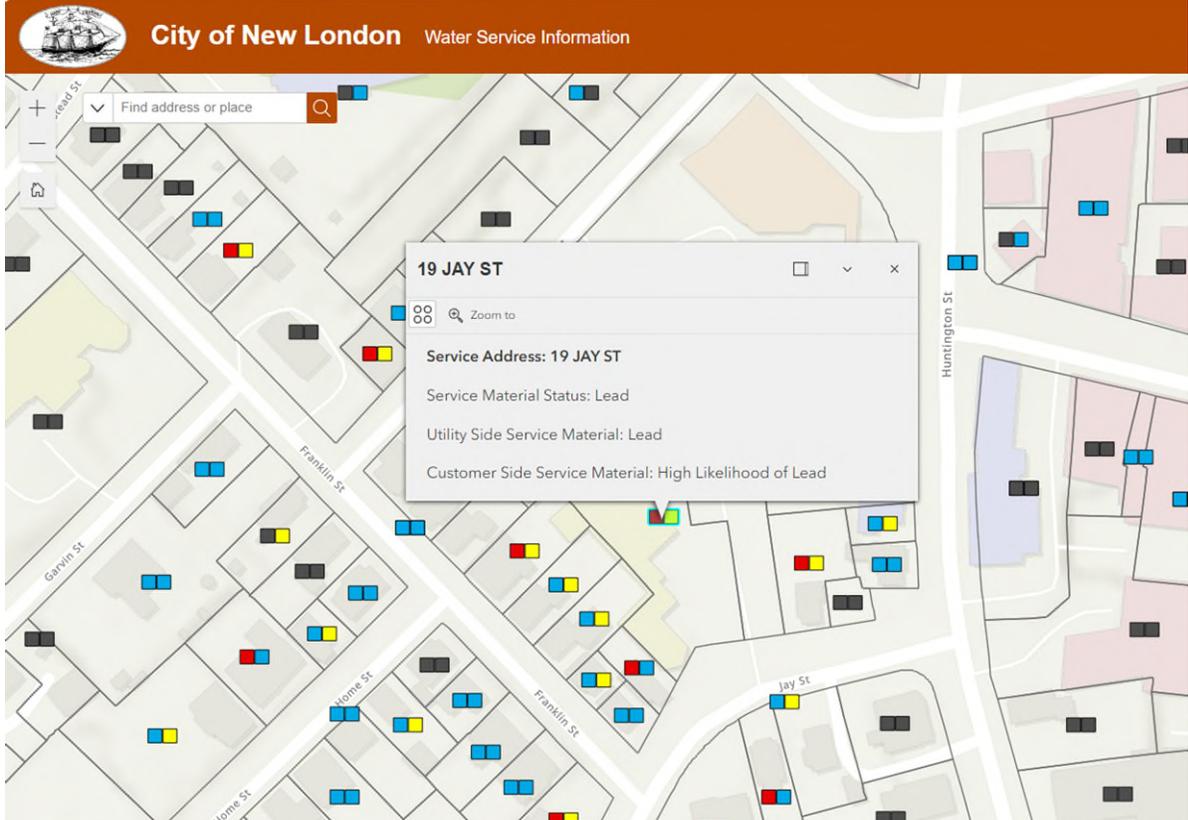
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Service Material Key

Utility Side Material		Customer Side Material
		Confirmed Non - Lead
		Confirmed Lead
		High to Medium Likelihood of Lead
		Unknown Material

The water service line materials are comprised of two material designations. For each service line location the colored box on the left represents the utility material designation. The colored box on the right represents the customer material designation.

I agree to the above terms and conditions OK



City of New London Water Service Information

Find address or place

19 JAY ST

Service Address: 19 JAY ST

Service Material Status: Lead

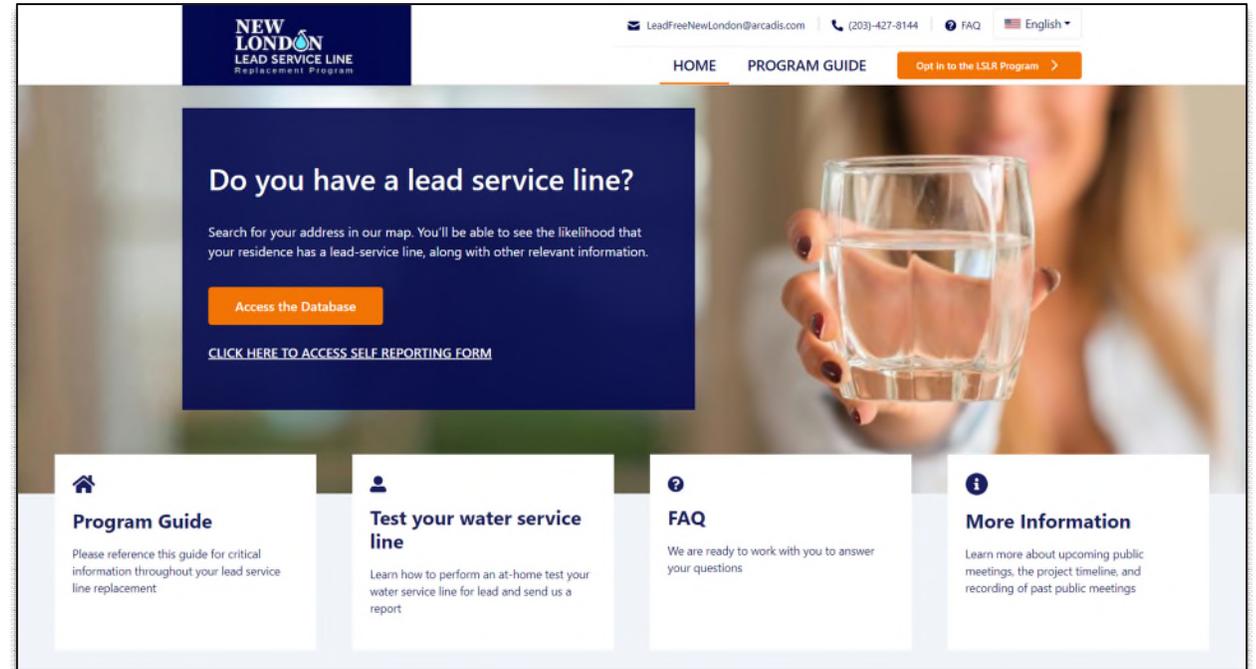
Utility Side Service Material: Lead

Customer Side Service Material: High Likelihood of Lead

Hotline & Website

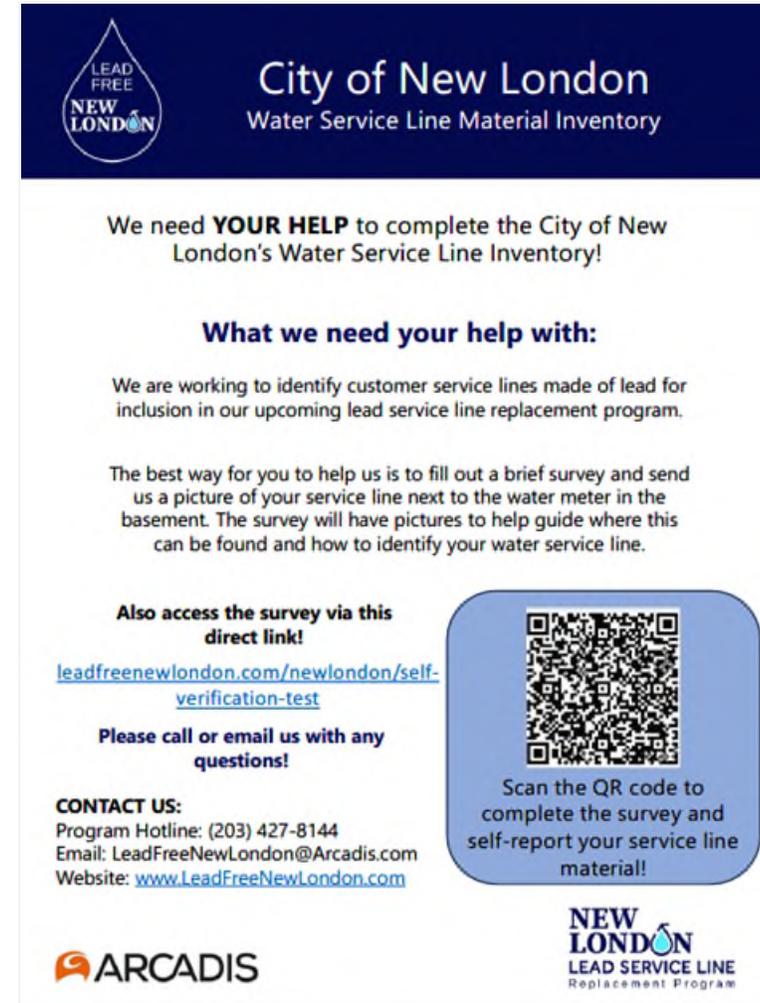
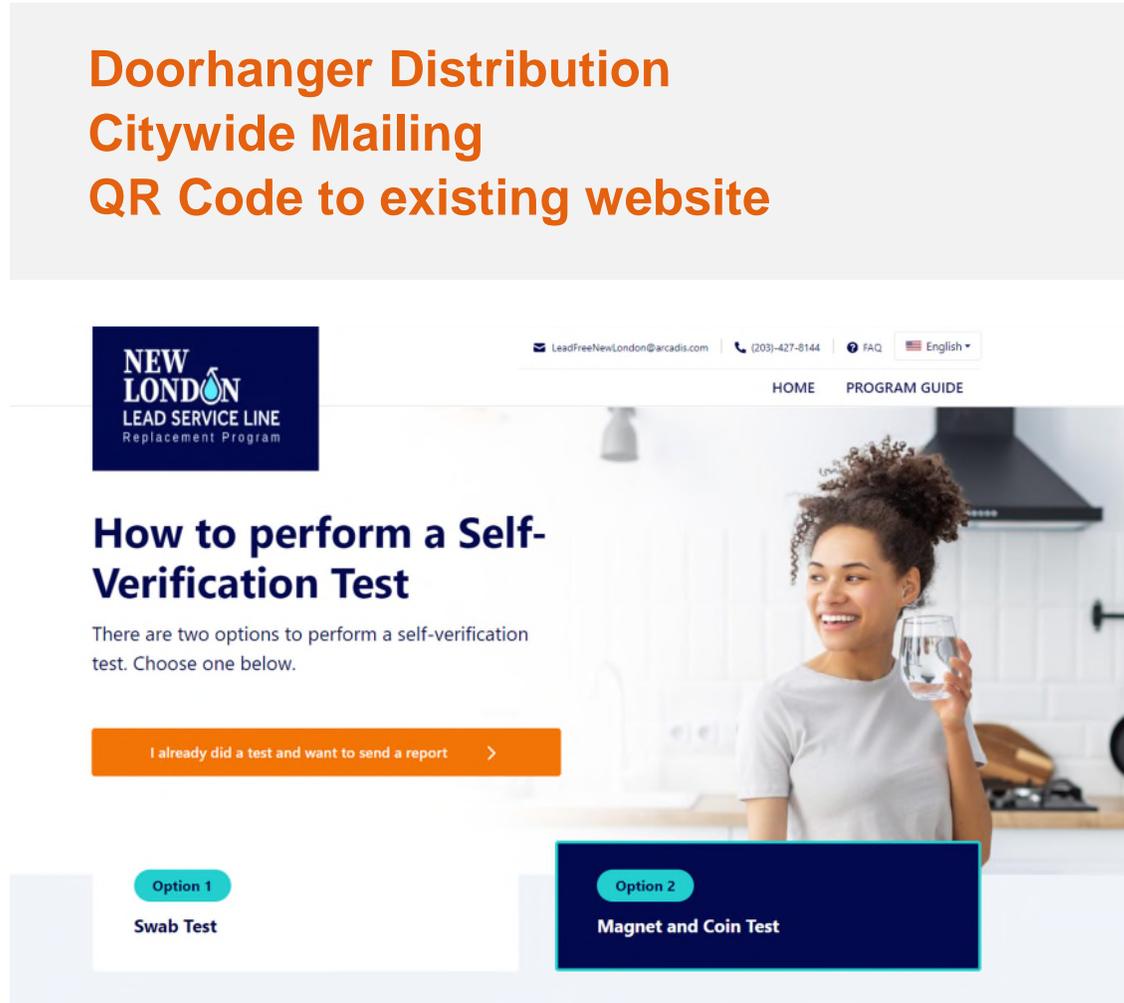
Our hotline at (203) 427-8144 is an easy way for residents to contact an Arcadian for information on the program

- Our program website **www.LeadFreeNewLondon.com** has our program guide, FAQs, a step-by-step guide on testing a water service line, and our project timeline



Self Reporting Program

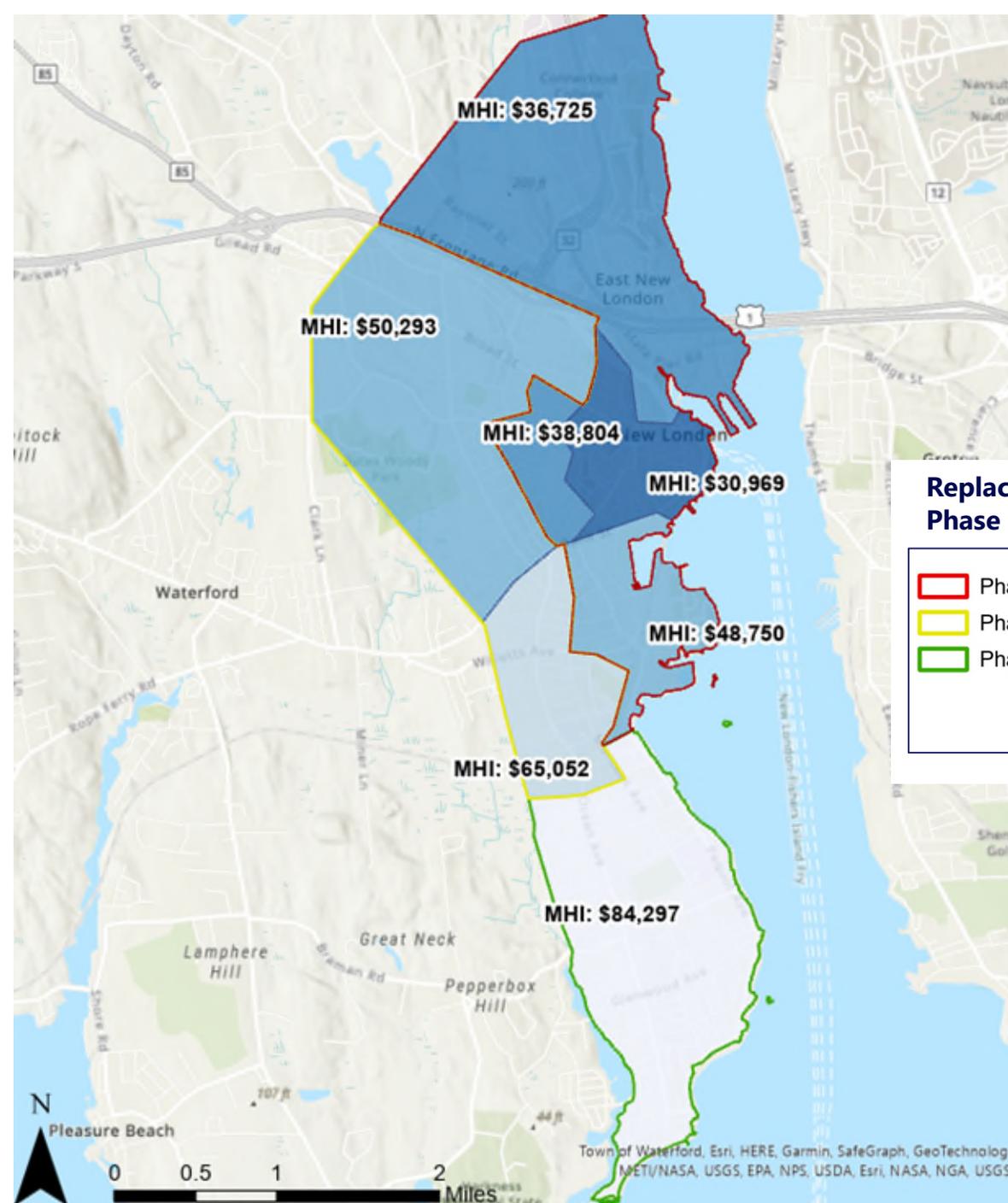
Doorhanger Distribution
Citywide Mailing
QR Code to existing website



Program Schedule

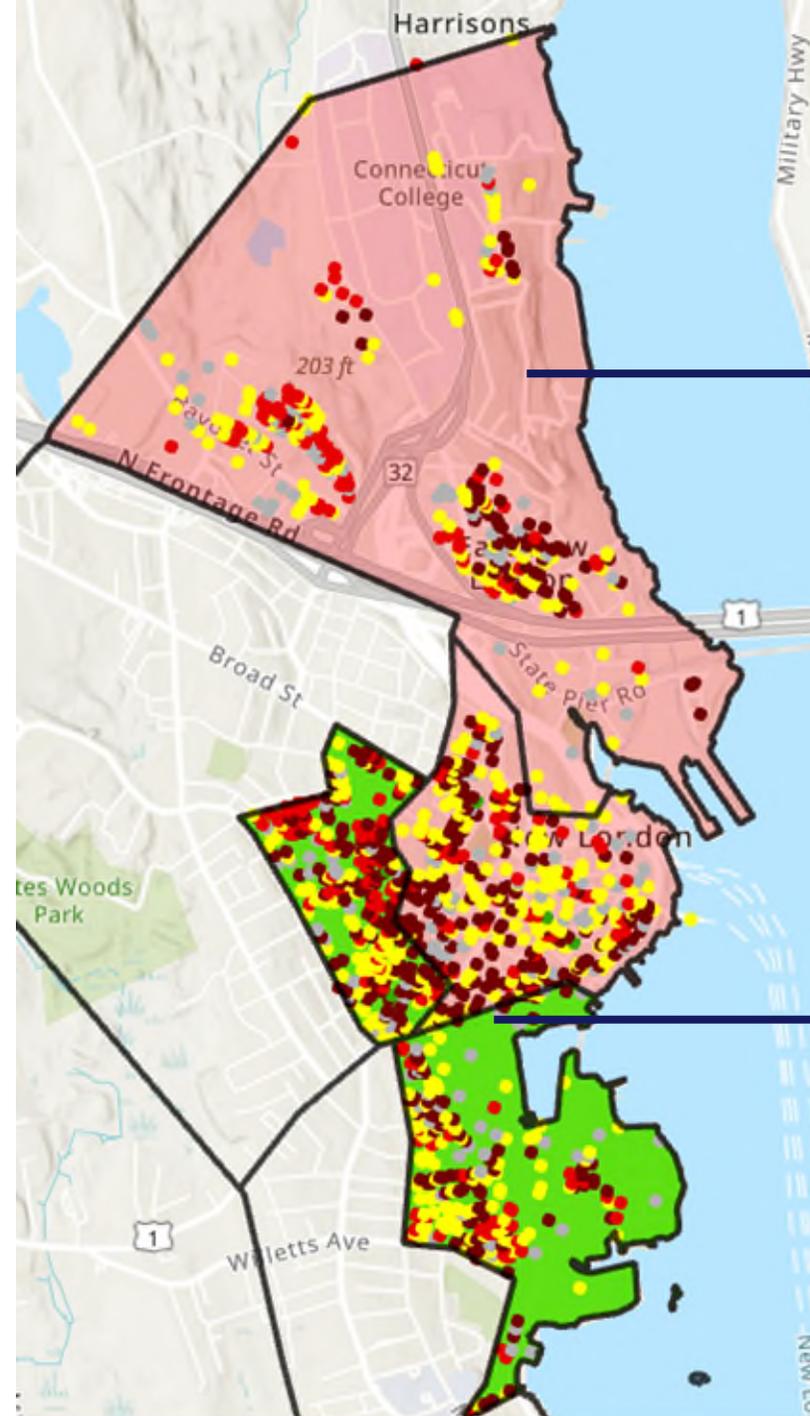
Map of phasing with Median Household Income by Census Tract

Income data is from the 2021 American Community Survey (5-Year Estimate)



Phase 1 Details

*Lead Service Line
replacement
locations by material
type*



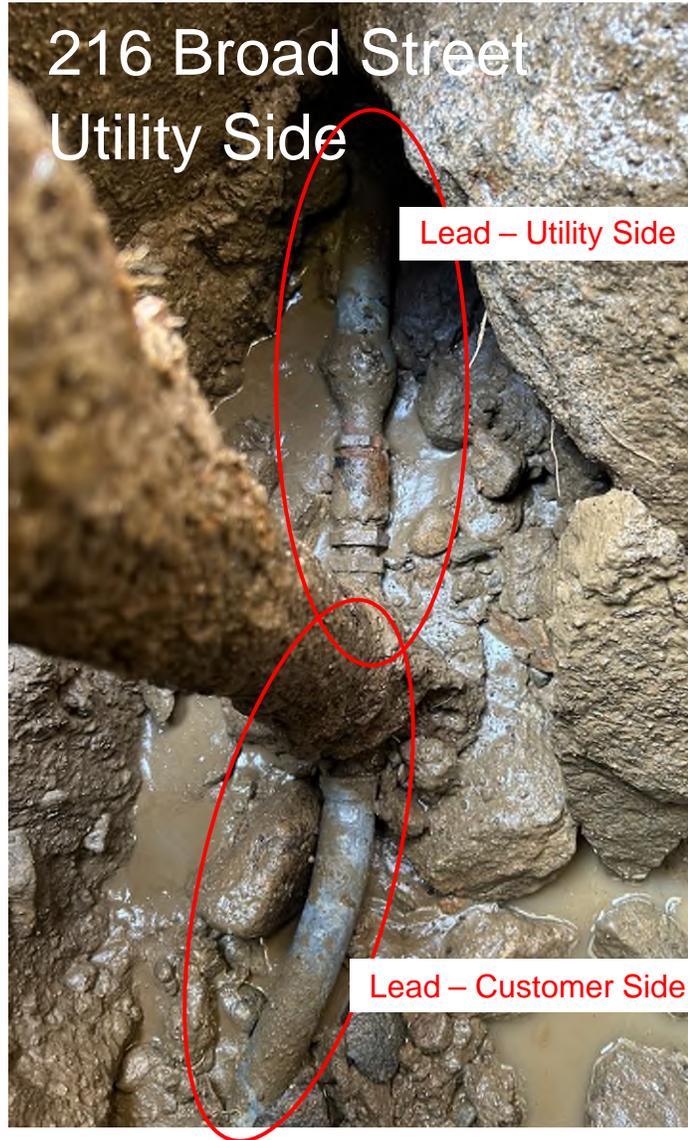
Phase 1B

Service Line Replacements

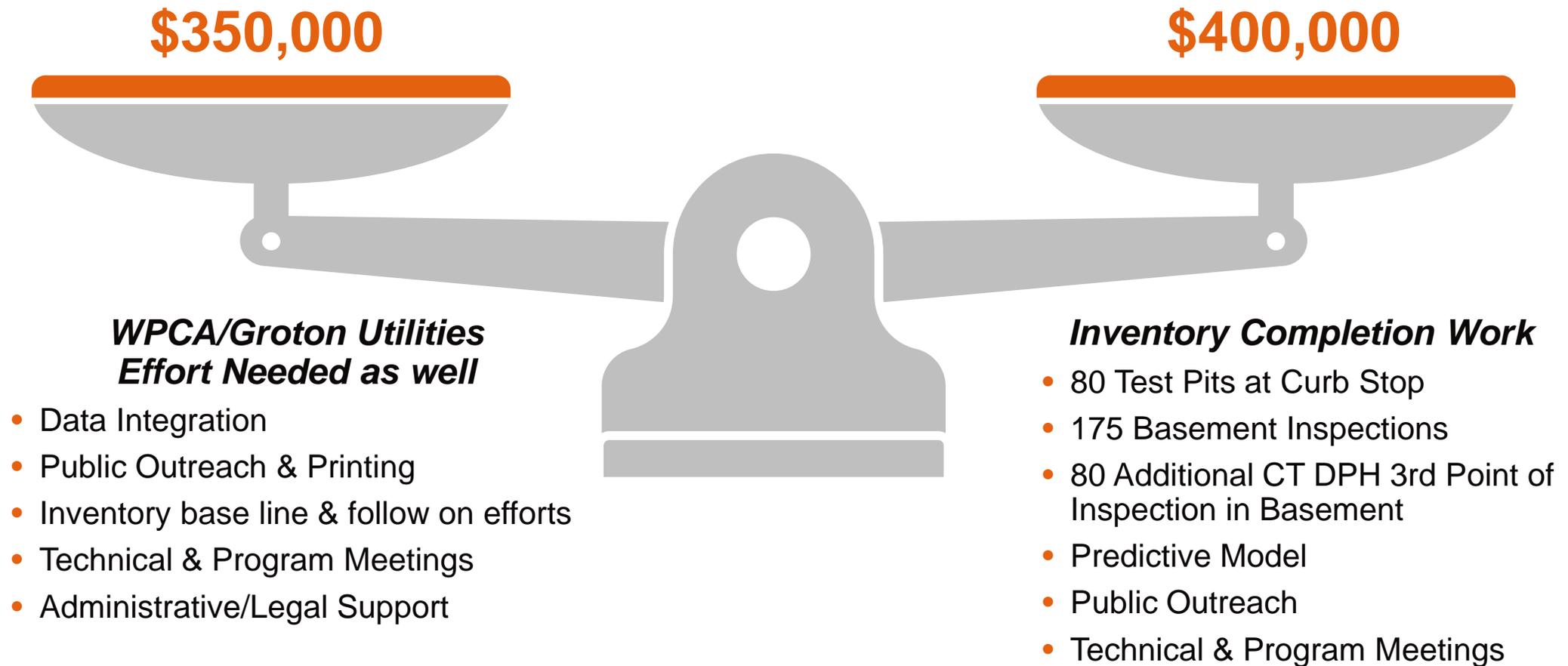
- Lead
- High Likelihood
- Medium Likelihood
- Galvanized
- Lead Status Unknown

Phase 1A

Test Pits & Service Line Replacements



Estimated Cost Range for LSLI



Thank you! Any Questions?



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Arcadis