

# LEAD SERVICE LINE REPLACEMENT

TOWN OF LEXINGTON, MA

March 2023



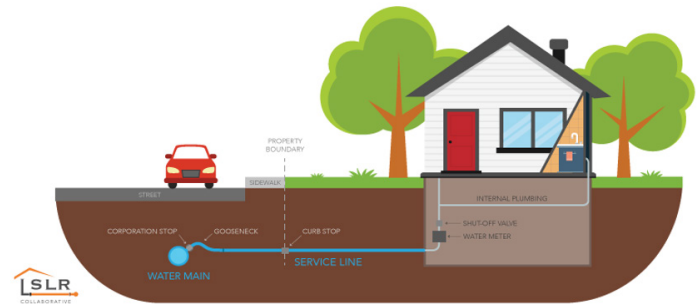
ENVIRONMENTAL PARTNERS  
— An Apex Company —

## WHAT DO WE NEED TO KNOW?

On December 16, 2021, the U.S. Environmental Protection Agency (EPA) announced final revisions to the National Primary Drinking Water Regulations for lead and copper under the authority of the Safe Drinking Water Act - called the Lead and Copper Rule Revisions (LCRR).

Under Section 141.84 of the LCRR, EPA requires all public water suppliers to develop and submit a complete Lead Service Line (LSL) Inventory by **October 16, 2024**.

Furthermore, the Massachusetts Department of Environmental Protection (MassDEP) requires Public Water Systems to submit a plan for the replacement of lead service lines along with the inventory submission by October 16, 2024. MassDEP expects all Public Water Systems to remove all lead service lines in 5 years.



The Town of Lexington plans to retain the professional services of Environmental Partners Group, LLC (EP) to assist with compliance with the LCRR and Lead Service Replacement by completing a Town-wide inventory of all water service lines. Lexington plans to take advantage of zero-interest funding from the Massachusetts Water Resource Authority's (MWRA) Local Water System Assistance Lead Loan Program.

## WHERE DOES LEAD COME FROM?

Lead was a common construction material for water services in the 1800s and early 1900s until the 1986 lead ban. There are three main types of lead service lines:



SOLID LEAD PIPE



LEAD-LINED IRON PIPE



LEAD GOOSENECK

## WHAT IS THE PLAN?

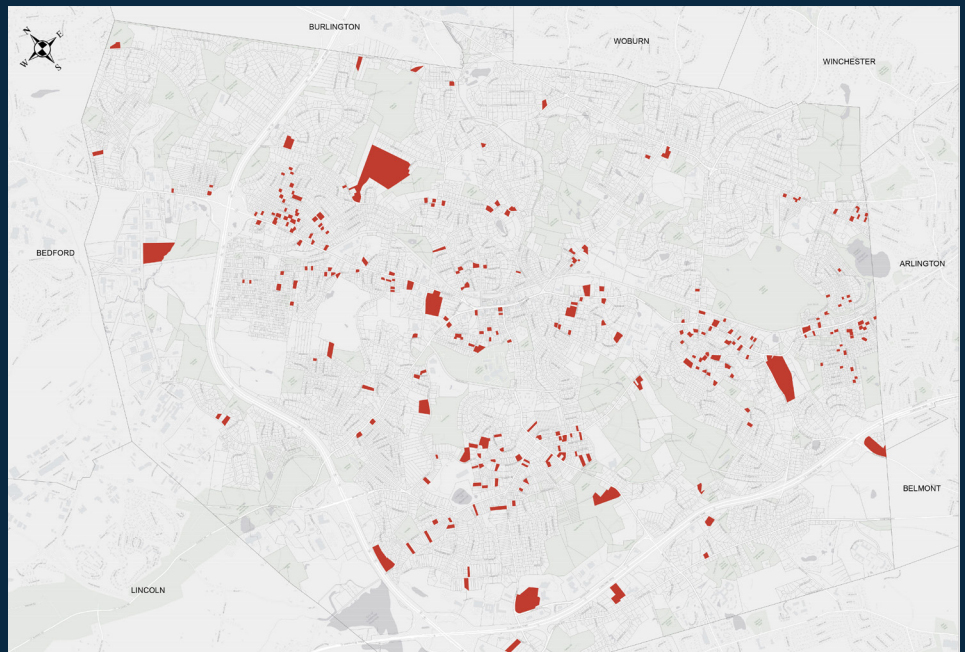
Lexington plans to take a proactive approach to the new regulations by completing both the inventory and replacement work consecutively. This will enable The Town to stay “ahead-of-the-pack” and hopefully achieve favorable construction pricing. The LSLR Program is broken down into the following phases:

SCHEDULE	2023											2024									
	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov
MWRA Loan Application	•	•																			
LSL Inventory		•	•	•	•	•	•	•	•												
Public Outreach		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Contract Documents									•	•											
Permitting						•	•	•	•	•											
Bidding										•	•										
Construction												•	•	•	•	•	•	•	•	•	•

## HOW WILL THE WORK BE DONE?

The Town has conducted initial inspections of water service materials as part of the water meter replacement program, coupled with an initial internal records review. There are currently approximately 300 known lead or lead-lined services throughout Town. EP estimates a total program cost of approximately \$4,209,580. The entirety of which is eligible for a zero-interest loan through the Massachusetts Water Resource Authority.

- Replacement of 300 known lead, or lead-lined, services throughout Town.
- Complete inventory of all water services throughout Town.
- Cost includes Engineering, Construction, and 15% construction contingency.
- Ensures continued compliance with the US EPA Lead & Copper Rule.



RIGHT IMAGE  
KNOWN LEAD OR IRON SERVICES BY PARCEL  
TOWN OF LEXINGTON, MA | SEPTEMBER 2022