

# Louisville Water

Maintaining High Quality Water and Reliable  
Water Service

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February 27, 2018



# Flooding Challenges

- Current flooding at Zorn and River Road has restricted access to our pump stations
- Crews are transported by boat with assistance from the Harrods Creek Fire Department
- Although this has presented some access challenges, the flood has not impacted our ability to pump and treat water



# Clay and Oak Street 48-inch Main Break

- On Tuesday December 12 Louisville Water experienced a break on a 48-inch main that was installed in 1893
- Thirty homes temporarily lost water service and we are working to finalize all claims
- Water service was restored in a little over 24 hours and the main was back in service in less than two weeks



# Winter Weather Challenges

- In January Louisville Water experienced a near record number of main breaks
- On average we repair 2-3 main breaks a day
- In January we had 238 breaks and one day we repaired 25 breaks
- Remaining restoration





# 2018 Capital Work

- Louisville Water will invest \$33 million to repair, replace and inspect our water mains.
- Louisville Water will invest over \$59 million on our treatment plants, pumping and storage and transmission mains



# 2018 MAIN REPLACEMENT and REHABILITATION PROJECTS



**LEGEND**

- Virginia Avenue Area
- Seibach Avenue Area
- Rustic Way Area
- Mitchell Hill Road Area
- Glaser Lane Area
- Forest Park Drive Area
- Southwestern Parkway Area
- Shelburn Drive Area
- Rivercrest Drive
- Farmington Avenue
- Blankenbaker Road

**2018 Main Replacement and Rehabilitation Project Areas**

0 0.4 0.8 1.6 Miles

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# 2018 Condition Assessment

- Louisville Water has over 4,200 miles of water
- 426 miles of Transmission Main
- Transmission Inspection
  - Large water mains
  - Robotic technology
  - Identify and repair potential issues



# Eastern Parkway Main Replacement

- Louisville Water is working on Phase II of our project to restore the 48-inch main installed in the 1920's
- Louisville Water is using an innovative process called slip lining
- Phase II involves restoring 1.7 miles of main from I-65 near Crittenden Drive to Beargrass Creek near Poplar Level Road





# Water Quality & Public Health

- Louisville's drinking water is regarded as one of the highest quality in the United States, exceeding national standards.
- Louisville's drinking water does not contain lead when it leaves the treatment plant
- Lead can become a potential risk for drinking water in the distribution system with lead pipes and plumbing

# Water Quality & Public Health

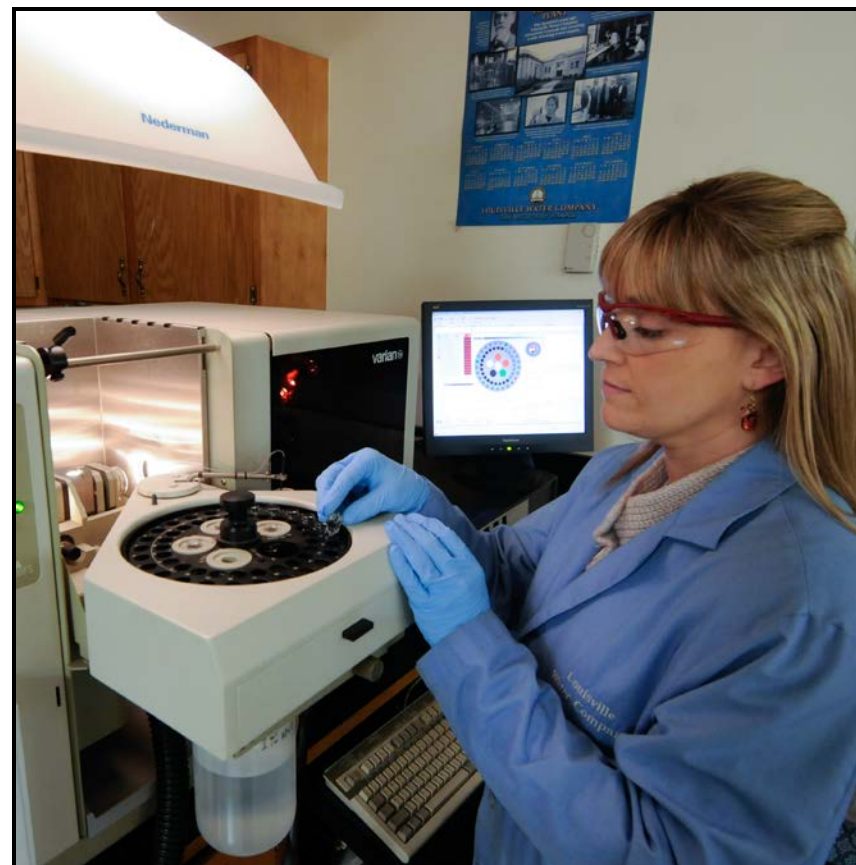
Three-pronged approach for managing potential risk with lead:

- Water chemistry/treatment and research
- Focus on infrastructure
- Customer education



# Water Treatment & Research

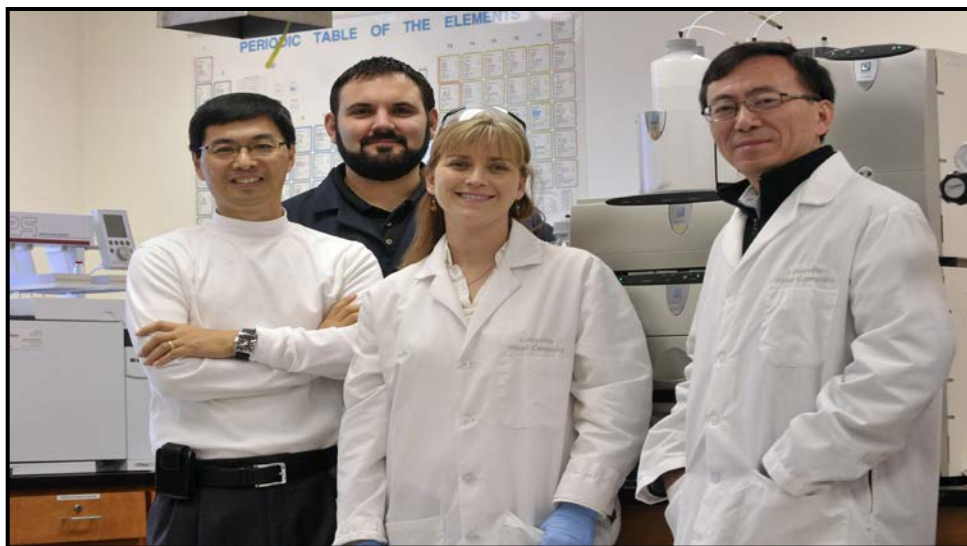
- Routine requests for testing from customers and Louisville Metro Health Department
- 2017 sampling results were below EPA's "Action Level"





# Water Treatment & Research

- Research focuses on corrosion control, adjusting the pH of the water
- Water chemistry has to be correct at the plant and in the distribution system
- Daily monitoring throughout our service area



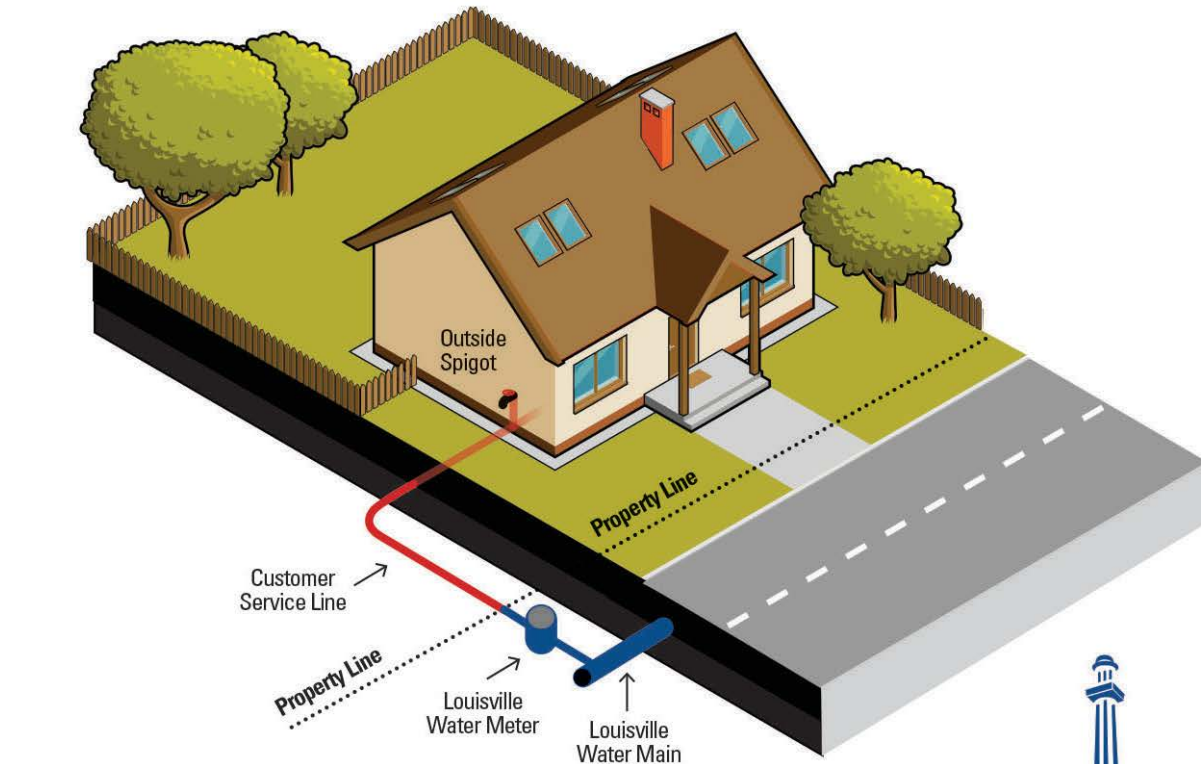
# Lead Service Lines

- Louisville Water began replacing its lead service lines in the 1980s and then began an aggressive strategy in the 1990s.
- Today - estimated 4,500 remaining lead services
- Goal is to complete the removal by early 2020



# Replacing a Lead Service Line

## Typical Water Service Line



-  Customer Responsibility
-  Louisville Water Company Responsibility





# Public Education & Communication

- Increase public awareness on water quality and lead
- Face-to-face, written and on-line
- Highlight the importance of water treatment, infrastructure and public health

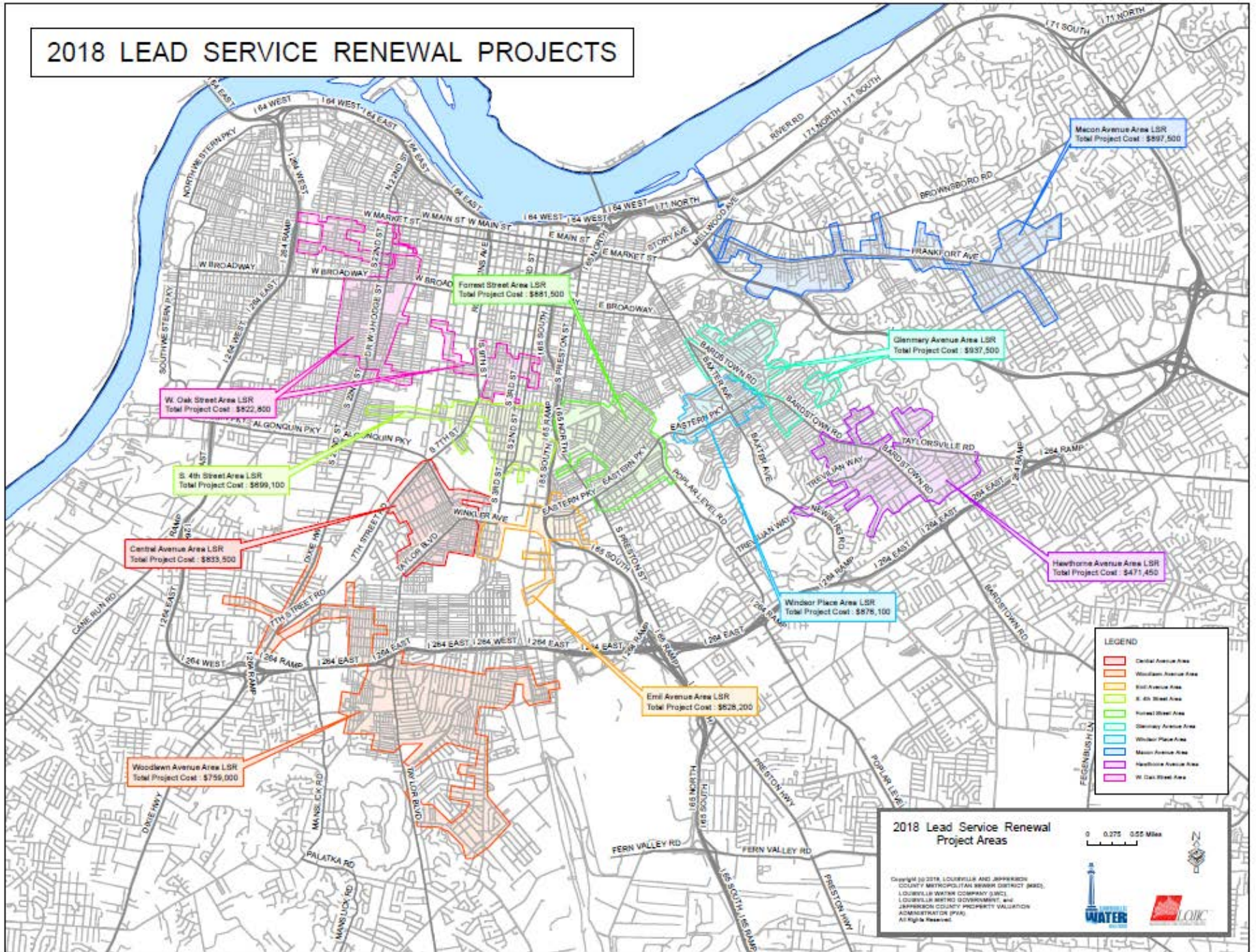


# Public Education & Communication

- Since 1988, Louisville Water has work with the school districts in our service area in a voluntary partnership that includes annual sampling and testing of drinking water fountains
- We have partnered with the Louisville Metro Health Department to raise the awareness on the issues of lead and have started a pilot program with area day cares
- Highlight a water utility's critical link to public health
- Louisville's story of research, water treatment and communication



# 2018 LEAD SERVICE RENEWAL PROJECTS





# Lead Service Line Customer Replacement Pilot

- Verify the private service line material at each service address
- For customers with a private lead service line:
  - Offer to pay 50% of the cost, up to \$1,000 for replacement of the private line
  - If customers need additional financial assistance, Louisville Water Foundation may be a resource
  - Customer chooses not to replace the private line, we will provide a water pitcher with a six-month filter supply





# HOW TO REPAIR A MAIN BREAK



# Contact Information



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