



# ORDINANCE NO. 230204

## Drinking Water Service Line Materials Inventory

Authorizing a \$1,779,000.00 professional, specialized or technical services contracts with AECOM Technical Services, Inc., for the Drinking Water Service Line Materials Inventory project.

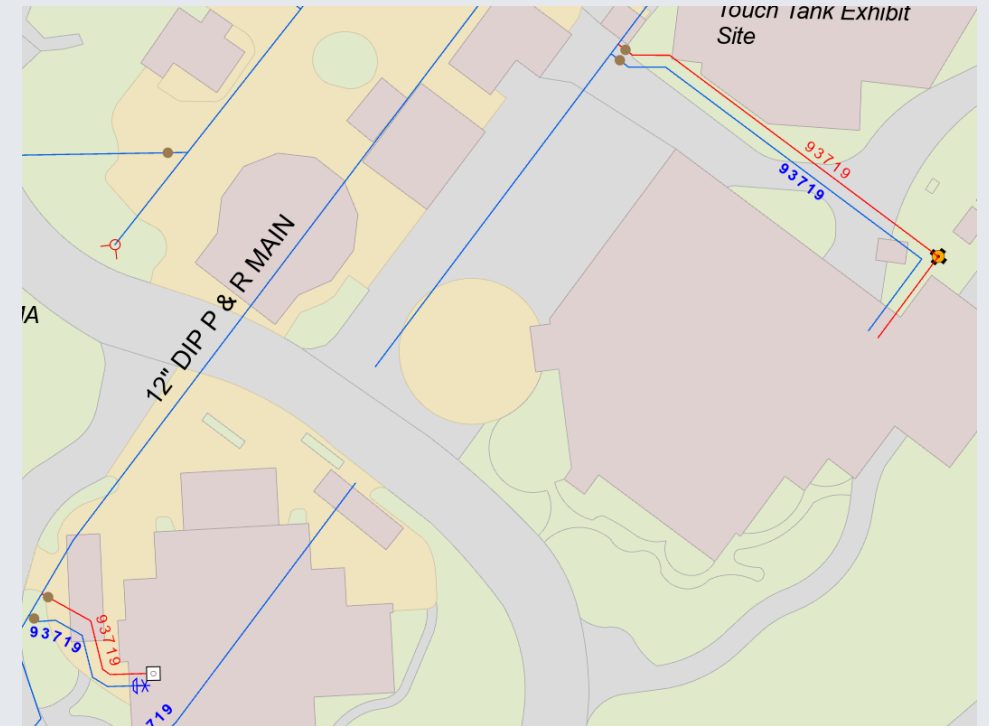
March 15, 2023

Transportation, Infrastructure & Operations  
Committee



# Water Main Material Types

Main Type- MATERIAL	Miles
Cast Iron Pipe	1,313.65
Copper Pipe	0.79
Ductile Iron Pipe	1,302.11
Polyvinyl Chloride Pipe	58.94
Prestressed Concrete Cylinder Pipe	161.31
Steel Pipe	7.16
Internal Plant Assets	7.52
<b>Grand Total</b>	<b>2,851.49</b>



## EPA Regulatory Compliance

### COMPLIANCE OBLIGATIONS

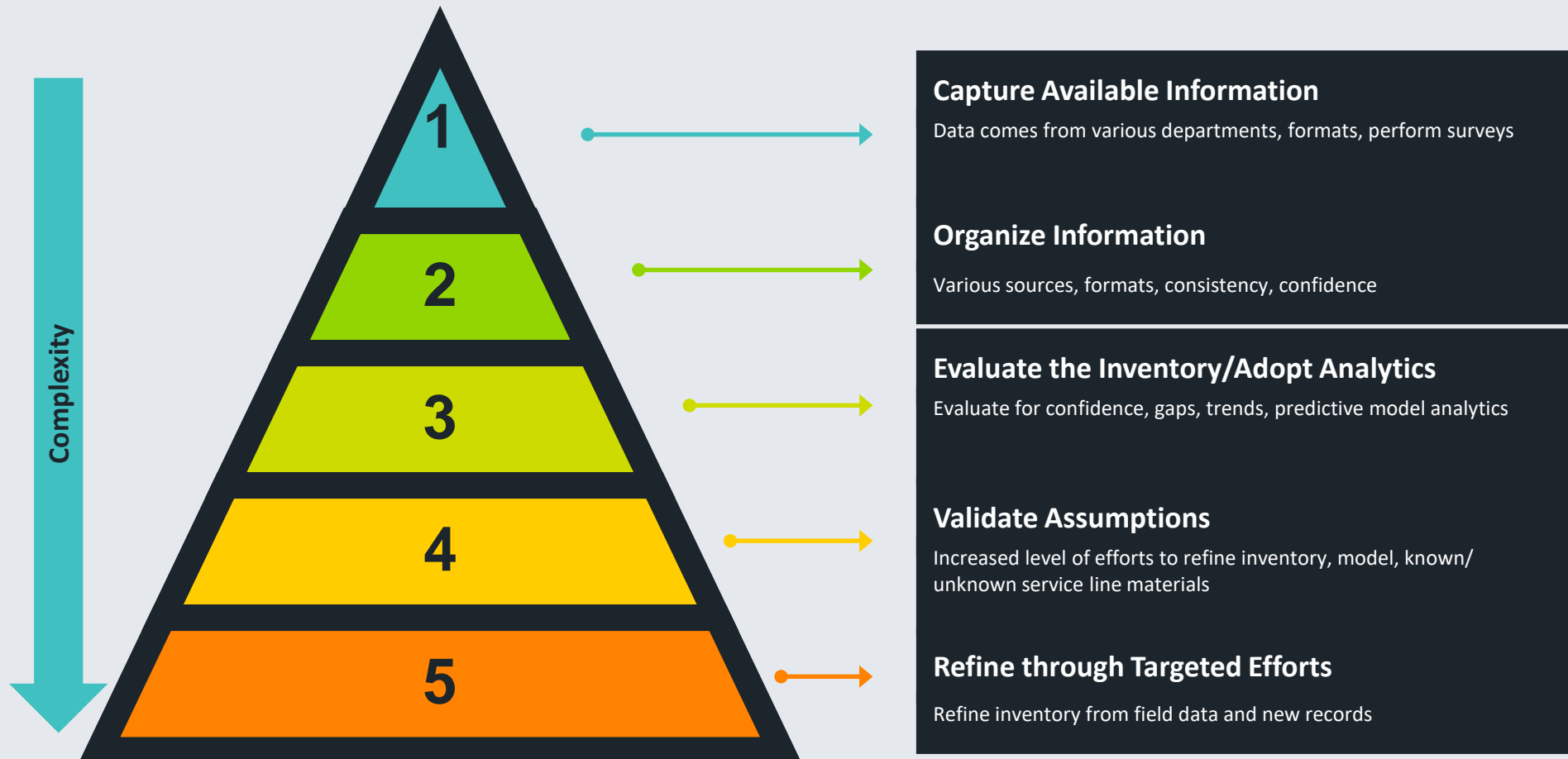
- Develop the initial inventory by October 16, 2024
  - Make updates annually (or triennially)
- **Publish the inventory if you serve more than 50,000 people**
- Develop a lead service line replacement plan

### USE THE INVENTORY

- Use the inventory to select sample sites for compliance sampling
  - Start sampling in 2025
- Use the inventory to plan and prioritize replacements
- Implementation of the prioritized replacement plan depends on the performance of the water system
  - When the Trigger Level is exceeded (P90 > 10 ppb)
  - When the Action Level is exceeded (P90 > 15 ppb)

# Process to Build a Lead Service Line Inventory

- Five phases to develop and advance an inventory
- Industry progress based on usage, risk, and LCRR compliance



## Phase 5 – Refine Through Targeted Efforts

- **Outreach**
  - Fill in gaps to understand all properties
- **Investigations**
  - Complete targeted investigations
  - Focus on community in addition to the data
- **Predictive Model**
  - Increase inventory knowledge utilizing predictive modeling. Statistical techniques using current and historical data to forecast service line materials.

Meter Inspection



Water Sampling



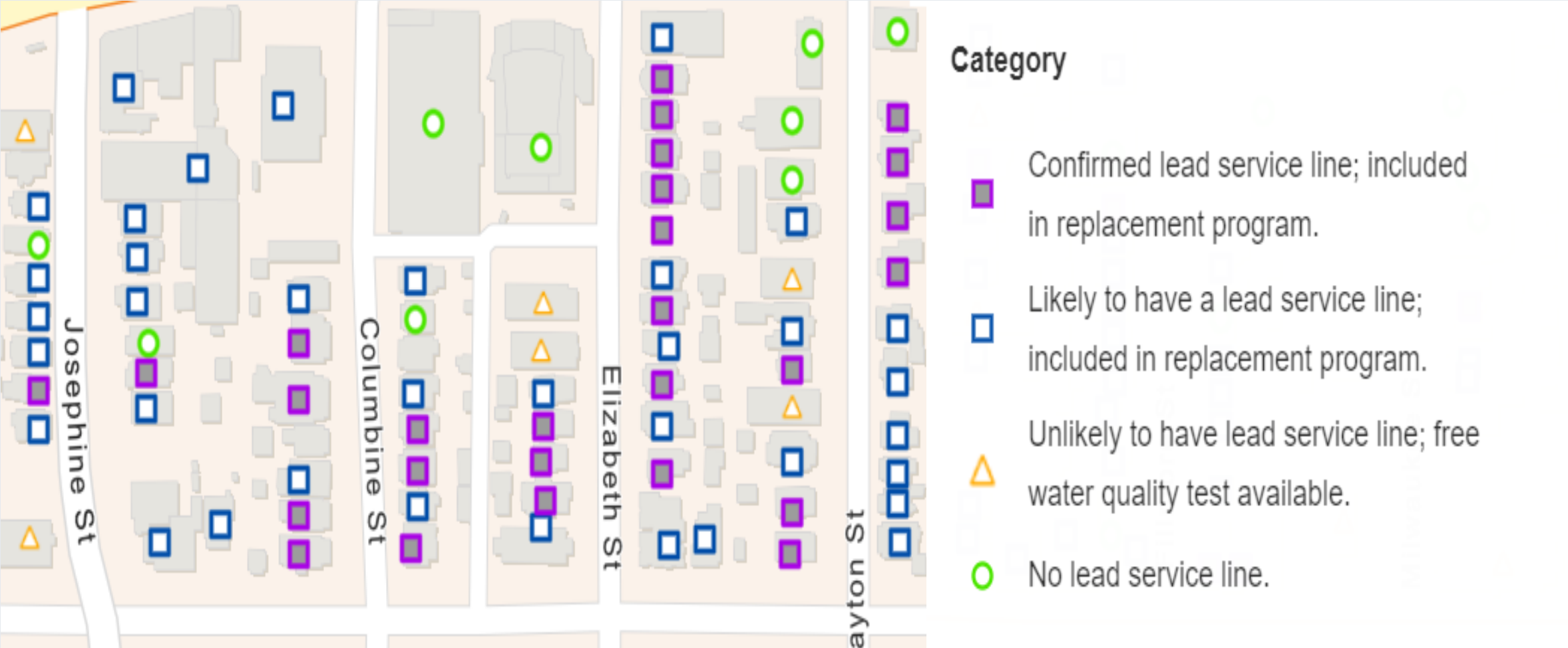
Potholing



Replacements



# Sample Inventory Website



## **Next Steps- Revised Lead & Copper Rule Program Development**

- **Service Line Replacement Plan**
- **Revise Existing Sampling Plan**
  - Current Sampling plan will be updated based on inventory and updated criteria.
- **Increase communications and lead awareness**
  - Increase awareness of fixtures and internal plumbing materials.



THANK YOU

