



Londonderry Municipal Water System Buildout Discussion

May 6, 2025 Londonderry Utilities Committee Meeting



Summary

Pennichuck's Role and Responsibility

Decision Making Process

Build-Out Map

Estimated Cost Assumptions

Specific Areas

Costs by Classification

High Priority Costs

Build-Out Approach



PWW Role and Responsibility

- **Providing information based on current construction costs, areas of contamination, and key infrastructure improvements**
- **System does not need to be built this way**



Decision Making Process

- **Prioritize the neighborhoods east of High Range Rd:**
 - Good opportunity water mains
 - High PFOA contamination
 - Dense potential customer base
- **Critical/strategic infrastructure:**
 - Need to be installed for growth of the water system
- **Zones/Individual main extensions:**
 - Less dense areas
 - No critical infrastructure
 - Lower contamination



Build-Out Map

- **Blue: existing water main**
- **Red: planned or under construction**
- **Purple: strategic/critical water mains**
- **Pink: opportunity water main areas**
- **Brown: main extensions required**
- **Green: Saint-Gobain Consent Decree Areas**
- **Orange: Ross Dr and Tokanel Dr**

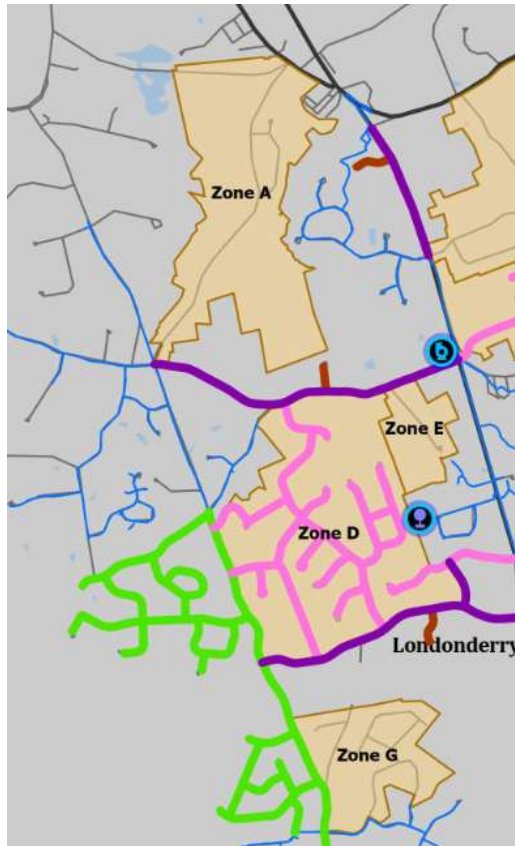


Estimated Cost Assumptions

- **Based on 2025 construction costs**
- **Cost does not include:**
 - Engineering Services
 - Construction Management
 - MSDC Fees
 - Services on private property
- **Assumed \$500/LF for water main construction**
- **All tank and booster station costs based on 2024 Londonderry projects**



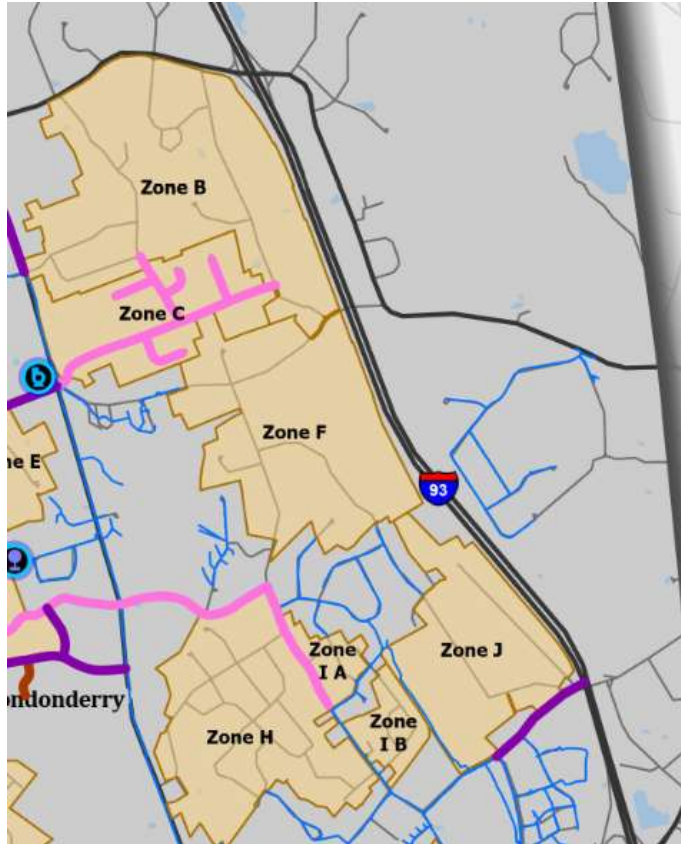
Area 1 – Northwest Section



- **Zones/Streets:**
 - A, D, E, G, Mammoth Rd, Litchfield Rd, Shasta Dr
- **High priority areas with strategic mains**
- **Requires additional infrastructure improvements**
 - New booster station - \$1.5M - \$2M
 - Potential new tank - \$3M - \$4M



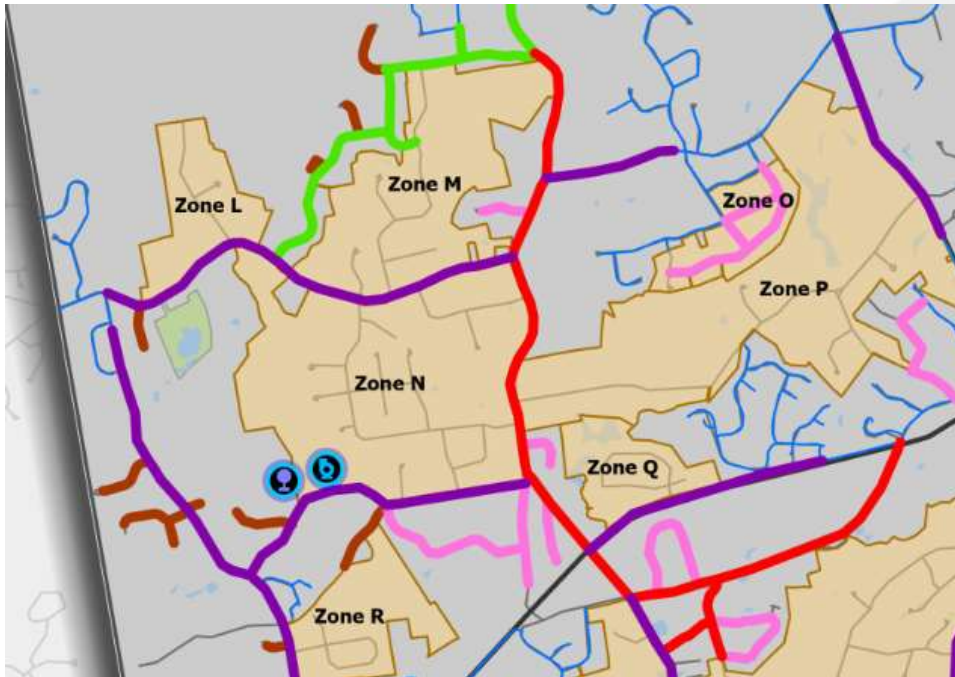
Area 2 – Northeast Section



- **Zones/Streets:**
 - B, C, F, H, I, J
- **Mixed priority area**
- **Zone C requires additional improvements**
 - Potential cost savings with Zone D



Area 3 – Midwest Section



▪ Zones/Streets:

- L, M, N, O, P, Q, R, Wiley Hill Rd, Pillsbury Rd, West Rd, Elwood Rd, Mammoth Rd, Route 102, Several Pink Streets

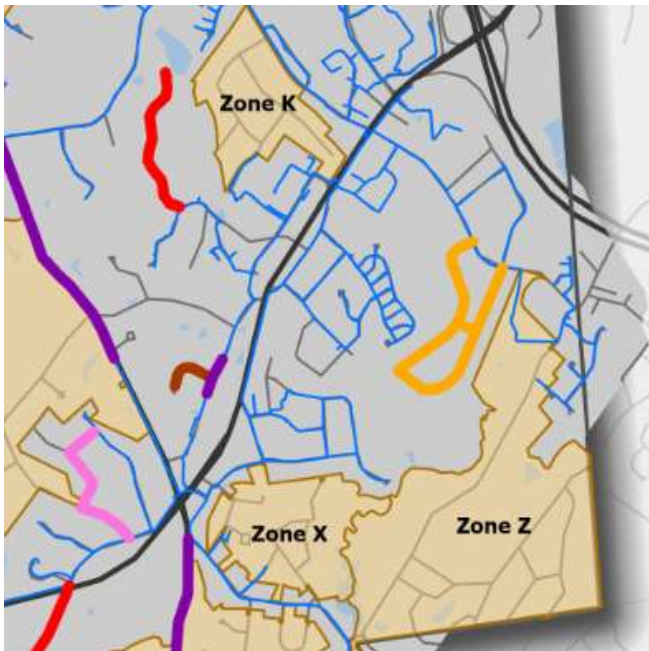
▪ Mix of strategic, high priority, and general zones

▪ Elwood Rd

- New booster station - \$1.5M - \$2M
- Potential new tank - \$3M - \$4M



Area 4 – Mideast Section



▪ Zones/Streets:

- K, X, Z, Buttrick Rd, Gardner Cir

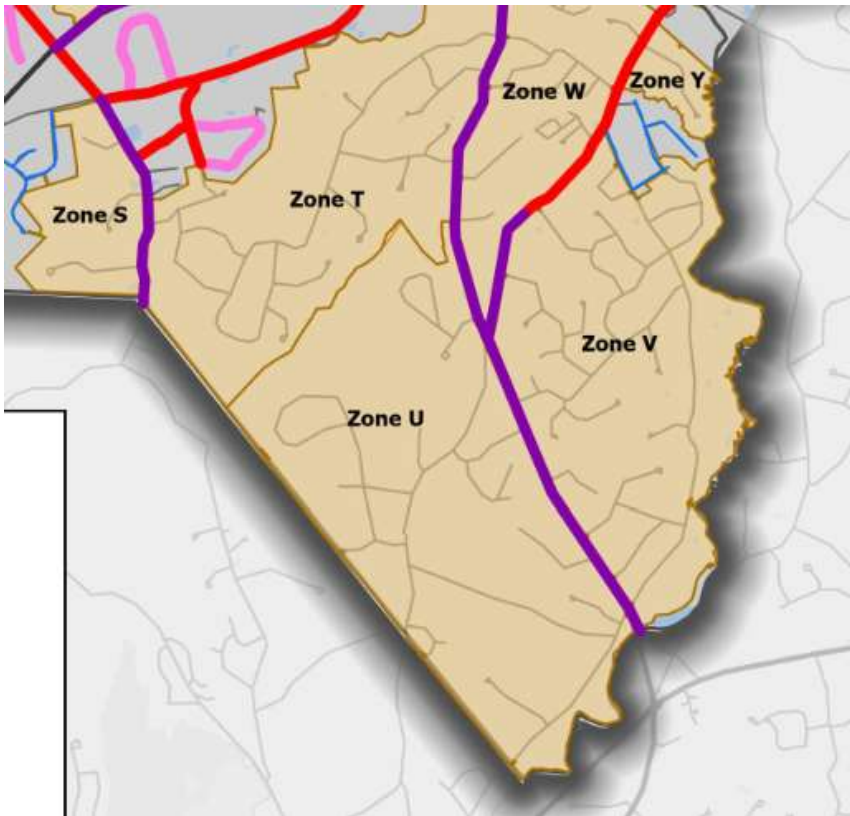
▪ Majority general zones

- Majority of area has existing infrastructure

▪ Lower PFOA levels



Area 5 – Southern Section



- **Zones/Streets:**
 - S, T, U, V, W, Y, Mammoth Rd, South Rd, Boyd Rd
- **Majority general zones and strategic mains**
- **Lower PFOA levels**



Costs By Classification

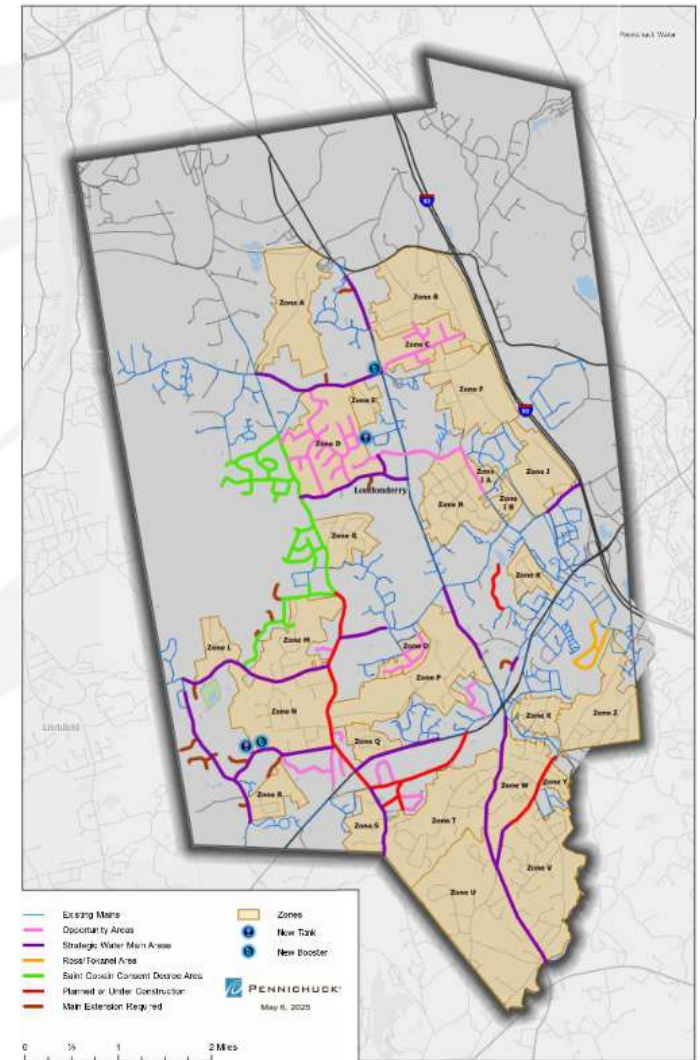
Opportunity Areas - \$34M

Strategic Main Areas - \$45M

Main Extension Required - \$7M

Zones (excluding C, D, O) - \$160M

Additional Infrastructure - \$9M - \$12M



Opportunity Area Costs

Zone/Street	Cost
Apple Blossom Dr	\$950,000
Royal Ln	\$700,000
MacIntosh Rd	\$600,000
Severance Rd	\$1,700,000
High Range Rd	\$850,000
Rebecca Dr	\$700,000
Jefferson Dr	\$1,650,000
Pendelton Ln	\$1,400,000
Carousel Ct	\$700,000
Zone C	\$2,400,000
Zone D	\$14,500,000
Zone G	\$5,700,000
Zone O	\$3,150,000

**Total Cost of Opportunity Areas:
~ \$34M**

**High priority areas near existing
water mains**

Requires additional infrastructure



Build-Out Planning

I. Opportunity Areas

- Zone C and Zone D – requires booster station

II. Strategic Water Mains

- Essential for remaining build-out
- Can be phased for future growth of the system

III. General Zone/Main Extension Required Areas

