CHALLENGE PROJECT:

IMPACT OF A PUBLIC WATER SUPPLY ON

ECONOMIC DEVELOPMENT IN NEWBURY, MA

By Kathleen Pearson For The Town of Newbury, MA March 27, 2013





Purpose

Project is to evaluate the Town of Newbury's ability to provide a public water supply to encourage economic development in the Town's largest commercial and industrial district located along Route-1 (B&LI District) in Newbury, MA.

B&LI District = Business & Light Industrial District



Project Advisors

Town of Newbury Advisor = Tracy Blais

Gordon Mentor = Steve Klosterman

Faculty Advisor = Phillip Larese-Casanova

Planning & Development Advisor= John Weis

Civil PE Advisor = Brian Daly



Agenda

- Market Value
- Project Description
- Progress to Date
- Summary
- Questions



Town Budget



REVENUES

- Property taxes
- •State Aid
- •Local income

(excise taxes ,fees, & permits) •Grants

EXPENSES

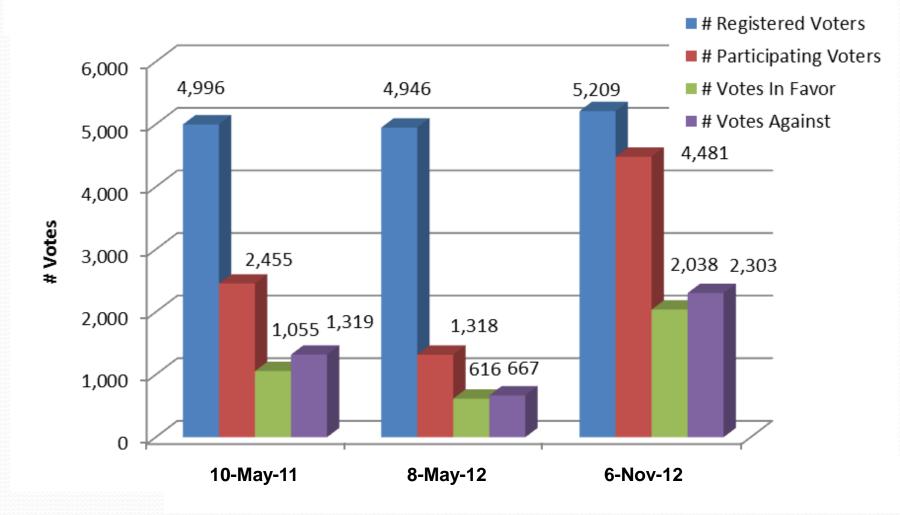
•Education
•Debt Payments
•Employee Benefits
•Town Services

\$17 Million Budget

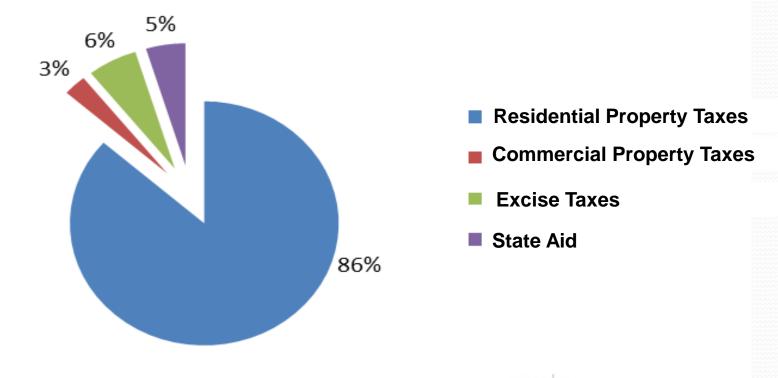




Historical Poll Results for Override Request

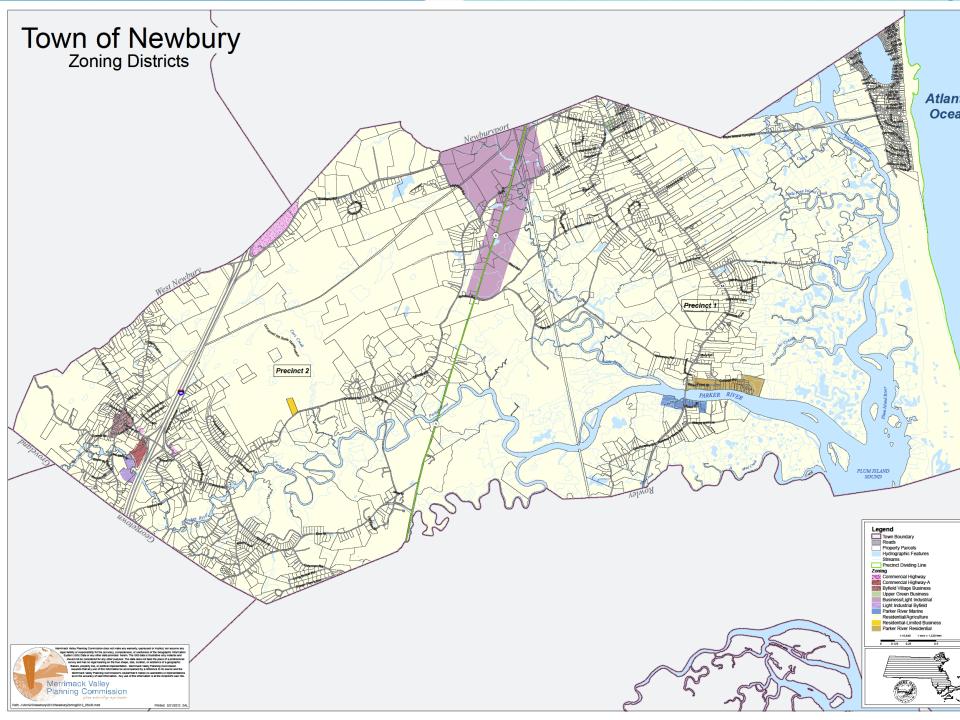


2013 Fiscal Year Revenue









Business & Light Industrial District

Why is there little development in the B&LI District?

- Lack of water and sewer
- Wetlands
- Poor soils

Why is this a water project and not a water & sewer project?

- Project completion by July
- Meeting with Town leaders



Market Value

- Identify the ability & \$\$ to encourage economic development in the B&LI District
- Respond to demands of the Newbury voters.
- Provide direction to the Town when focusing future economic development efforts.



Project Description

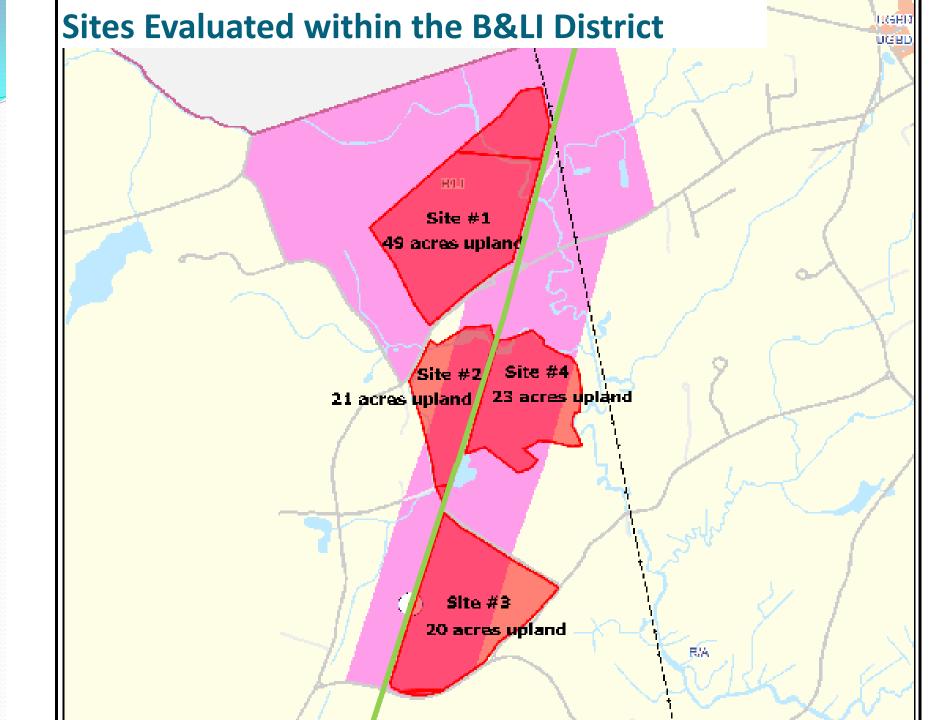
- Determine Maximum Build-out of the B&LI District
- Evaluate Water Sources
- Design Distribution System
- Design Water Treatment Facility & Distribution System
- Conduct Engineering Economic Analysis
 - Construction \$\$ between the Two Designs
 - Construction \$\$ vs. Potential Tax Revenue Gain



Status Project

- Determine Maximum Build-out
- Evaluate Water Sources
- Design Distribution System
- Design Water Treatment Facility & Distribution System





Maximum Build-out Assumptions & Design Criteria

<u>Assumptions</u>

- 25% Retail, 50% Professional Office & 25% Industrial Use
- Parcels assembled
- Septic systems are possible
- Septic systems will be under parking lots

Design Criteria

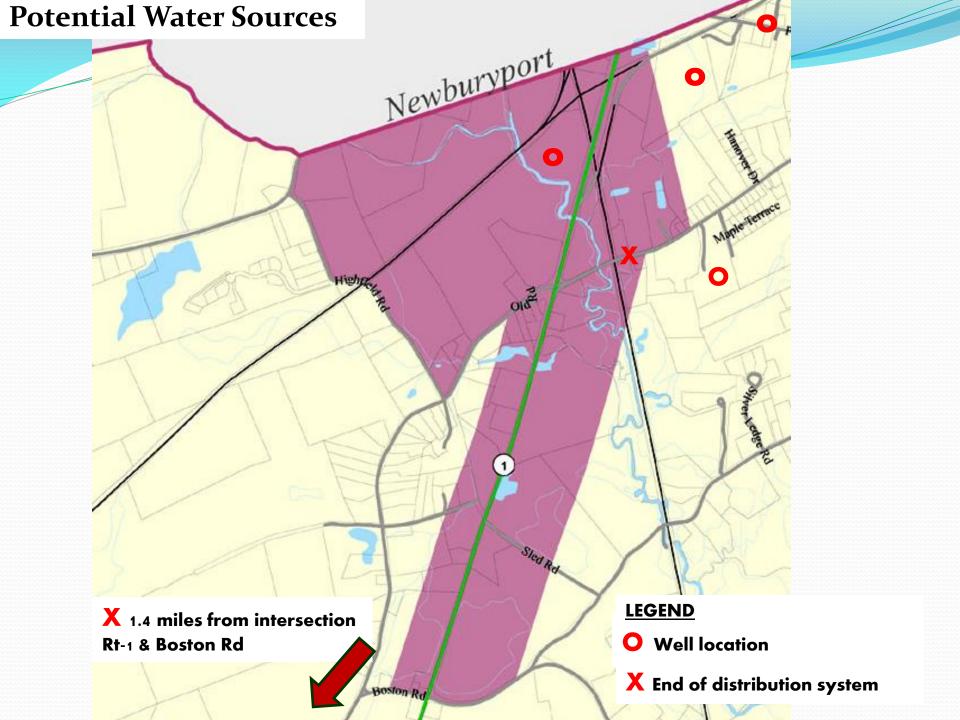
- Newbury Zoning Bylaw
- MassDEP setbacks for water courses & wetlands
- MassDEP Title V Design Requirements

MassDEP = Massachusetts Department of Environmental Protection

Maximum Build-out Results

Type of Use	Total Building Area (sft)
Retail	432,283
Professional Office	1,113,834
Industrial	631,799

Water Demand = 70,000 gpd Estimated Tax Revenue = ??



Status of Project Completion

• Design of Distribution System connecting to an existing public water supply to the B&LI District:

Byfield Water District

• Design of water treatment facility & distribution system connecting to the B&LI District:

Well location on Parcel U-07-17A

Other

Old Town Water Commission

- Chapter 808 Acts of 1972 describing the act establishing the Old Town Water District
- Chapter 403 Acts of 1908 describing the act relative to the water supply of Newburyport and the relationship with the Town of Newbury
- Chapter 56 Acts of 1956 describing the amendment to Chapter 403 Acts of 1908 water rates.

Summary

Maximum Build-out

Retail Use = 432,283 sft Professional Office Use = 1,113,834 sft Industrial Use = 631,799 sft

- Design of Distribution System based on the Byfield Water District
- Design of Water Treatment Facility based of well location on parcel U-07-17A

Questions

