

Significant Information and Statistics

All water consumed in Belmont is supplied by the Massachusetts Water Resources Authority (MWRA) from reservoirs owned and operated by the Metropolitan District Commission (MDC). The Town is under contract with the MWRA and is required to pay for all water supplied to the Town.

Safe Drinking Water Act

During 2004, the water supplied to the Belmont DPW, Water Division, by the MWRA was in compliance with all Maximum Contaminant Levels (MCL'S) as established by the Safe Drinking Water Act (SDWA). The SDWA defines water quality parameters which are considered safe for human consumption. The SDWA is administered by the U.S. Environmental Protection Agency (USEPA) and enforced by the Commonwealth of Massachusetts Department of Environmental Protection (DEP). Water samples are analyzed on a weekly basis for microbiological contamination and on a periodic basis for organic compounds, heavy metals and pesticides. All tests are performed by the MWRA laboratory or a certified laboratory under contract with the MWRA. Reports are on permanent file at the Water Division Office.

The Water Division has identified all water service pipes which are either all or partial lead. A program designed to replace these lead pipes was started in 1992 and will continue in 2005.

WATER DISTRIBUTION SYSTEM

System Composition

Types of Pipe: Ductile Iron, Cast Iron, Galvanized Iron, Copper, Asbestos Cement

Size Range: 1.5 Inch to 16 Inch Diameter

Number of Hydrants: 681

Number of Services: 7,544

Types of Services: Copper, Brass, Cement Lined Iron, Galvanized Iron, Wrought Iron, and Cast Iron

Percentage of Services

Metered: 100%

Extent of Main Pipe System 2004

Pipe Diameter	Length in Feet	Percent of System
16 Inch	279	.58
12 Inch	32,272	6.71
10 Inch	62,286	12.94
8 Inch	198,001	41.14
6 Inch	182,881	38.00
2 Inch	4,945	1.02
1.5 Inch	584	.12
Total	481,248 Feet	100.00 %

Water Consumption Data

Average Daily Water Consumption in Millions of Gallons per Day (MGD) **

Month	2003	2004
January	2.021	1.952
February	2.274	1.935
March	2.276	1.814
April	2.228	1.920
May	2.188	2.244
June	2.257	2.664
July	2.797	2.644
August	2.470	2.473
September	2.390	2.358
October	2.092	1.970
November	1.847	1.776
December	1.840	1.836
Average	2.224	2.138

*Average Consumption
per person per day 85.54 Gallons 82.23 Gallons

Total Consumption from MWRA**

2002	873,500,000 Gallons
2003	811,600,000 Gallons
2004	782,600,000 Gallons

* Estimated Population of 26,000
** Data supplied by the MWRA

WATER MAIN REPLACEMENT PROGRAM

Two Water Main Replacement Projects were completed in Calendar Year 2004. The "Cross Street Area Project" utilized the FY 2004 Water Main Replacement Program appropriation and the "Falmouth Street Area Project" utilized the FY 2005 Water Main Replacement Program appropriation.

"Cross Street Area Project"

The "Cross Street Area Project" replaced 4,430 feet of old deteriorated unlined six inch diameter water main with an equal quantity of new 8 inch diameter ductile iron water main. An additional 1,100 feet of old defective ten inch diameter water main was replaced with an equal quantity of new ten inch diameter ductile iron water main. This project also replaced 9 old fire hydrants and 108 customer water services were transferred to the new water main. The construction contract cost was \$414,002, design and engineering costs were \$31,836 and public safety/traffic control cost \$22,386.

"Falmouth Street Area Project"

The "Falmouth Street Area Project" replaced 4,790 feet of very old and deteriorated unlined six inch diameter water main with an equal quantity of new 8 inch diameter ductile iron water main. An addition 310 feet of ancient 10 inch diameter water main was replaced with an equal quantity of new 10 inch diameter ductile iron water main. This project also replaced 11 old fire hydrants and transferred 119 customer water serves to the new water main. The construction contract price was \$388,018.60, design and engineering costs were \$35,698 and public safety/traffic control cost was 11,747.

The Calendar Year 2005 Water Main Replacement Project is current in the design and engineering process. It is anticipated, assuming that Town Meeting appropriates FY 2006 funding, that the project will be bid in mid to late spring of 2005 with construction to commence shortly after July 1, 2005.