

ATTACHMENT 5  
TO  
MWRA ANNUAL I/I REDUCTION REPORT FOR FY04  
Reporting Period – July 2003 Through June 2004

**I/I REDUCTION STATUS UPDATE FOR MEMBER  
COMMUNITIES**

The MWRA is working cooperatively with member communities to develop phased I/I reduction programs throughout the service area. The Authority will encourage continuing community efforts in I/I reduction as detailed in the MWRA Regional I/I Reduction Plan. Many community I/I projects are funded through MWRA's I/I Local Financial Assistance Program. This \$180.75 million grant/loan program was established to provide funding to member sewer communities to perform I/I reduction and sewer system rehabilitation projects within their locally-owned collection systems. Through FY04, MWRA has distributed over \$100 million to fund local projects. A detailed update on MWRA's I/I Local Financial Assistance Program is included as Attachment 4 to this report.

The Authority has instituted a computer-based questionnaire format for communities to comply with required annual I/I reduction program status reporting. All 43 member sewer communities have submitted the latest I/I status report; the information is summarized in the following paragraphs.

## **1. ARLINGTON: North System**

### Background Information:

- Miles of Sewer: 106
- Sewered Population: 42,089
- Three Year ('01 - '03) Annual Average I/I: 3.16 mgd
- Massachusetts DEP Administrative Order: None

Latest I/I or SSES Report: Grove/Brattle St. Area I/I Reduction Study

Private Source Inflow Removal Program: East End Sewer Study metering identified areas that will require additional study to identify possible sump pump/drain leader connections to the sewer.

I/I Rehabilitation Projects in Design or Construction: Main line inspections performed in utility construction and roadway rehabilitation areas. Ongoing service line CCTV inspections in suspected problem areas.

Reporting Period Activity: Construction completed for the replacement of 700 feet of 8-inch sewer on Indian Hill Road.

MWRA I/I Local Financial Assistance Program: The community has financed seven (7) I/I reduction projects through the Authority's funding assistance program. Of the \$3,449,000 allotted through the Program's Phases 1-5, the community has \$2,171,800 remaining in funding assistance.

## **2. ASHLAND: South System**

### Background Information:

- Miles of Sewer: 43
- Sewered Population: 10,774
- Three Year ('01 - '03) Annual Average I/I: 0.53 mgd
- Massachusetts DEP Administrative Order: None

Latest I/I or SSES Report: I/I Investigation and Repair 2001 (Sub-Basins I & II)

Private Source Inflow Removal Program: The Town will be performing I/I removal from residential/commercial properties in Sub-Basins II and III. One private inflow source identified/removed on Church Court.

I/I Rehabilitation Projects in Design or Construction: Completed clear flow investigation and manhole frame/cover replacement in Sub-Basin II. Completed internal TV inspection and manhole rehabilitation in Sub-Basin III. Internal TV inspection on-going in Sub-Basin IV.

Reporting Period Activity: The Town has a sewer moratorium on new sewer connections at this time. New connections are only added if I/I removal has been achieved. Pond Street and Downtown sewer extension projects have been approved. Brackett Road Lift Station construction on-going.

MWRA I/I Local Financial Assistance Program: The community has financed four (4) I/I reduction projects through the Authority's funding assistance program. Of the \$734,500 allotted through the Program's Phases 1-5, the community has \$184,000 remaining in funding assistance.

### **3. BEDFORD: North System**

Background Information:

- Miles of Sewer: 68
- Sewered Population: 11,256
- Three Year ('01 - '03) Annual Average I/I: 1.73 mgd
- Massachusetts DEP Administrative Order: None

Latest I/I or SSES Report: I/I Study, May 2000

Private Source Inflow Removal Program: No additional inspections were reported this period.

I/I Rehabilitation Projects in Design or Construction: Sanitary Sewer Investigation and Rehabilitation for sewers in Harvard Drive, Evergreen Avenue and Wiggins Avenue was completed. Thirteen sewer manholes have been rehabilitated with an estimated I/I removal of 10,750 gpd.

Reporting Period Activity: Internal inspection of sewers in various areas of suspected excessive infiltration.

MWRA I/I Local Financial Assistance Program: The community has financed two (2) I/I reduction projects through the Authority's funding assistance program. Of the \$1,383,600 allotted through the Program's Phases 1-5, the community has \$834,300 remaining in funding assistance.

#### **4. BELMONT: North System**

Background Information:

- Miles of Sewer: 78
- Sewered Population: 23,450
- Three Year ('01 - '03) Annual Average I/I: 2.09 mgd
- Massachusetts DEP Administrative Order: None

Latest I/I or SSES Report: SSES, Phase II Final, April 1988

Private Source Inflow Removal Program: FS&T completed home inspections on over 300 properties to determine the extent of sump pump connections to the Town's sanitary sewer system.

I/I Rehabilitation Projects in Design or Construction: The contract for connecting private inflow sources to the town's storm drain system was awarded in February 2004. This project will remove approximately 1,165,000 gpd of peak daily inflow from the existing sewer.

Reporting Period Activity: The Contractor has commenced the construction associated with connecting the private inflow sources to the storm drain system. The projected completion date of this work is May 2005.

MWRA I/I Local Financial Assistance Program: The community has financed two (2) I/I reduction projects through the Authority's funding assistance program. Of the \$2,108,100 allotted through the Program's Phases 1-5, the community has \$940,700 remaining in funding assistance.

#### **5. BOSTON: North and South Systems**

Background Information:

- Miles of Sewer: 858
- Sewered Population: 588,692
- Three Year ('01 - '03) Annual Average I/I: 45.65 mgd
- Massachusetts DEP Administrative Order: None (Cooperative agreement exists)

Latest I/I or SSES Report: Upper Neponset Valley Sewer Inflow Survey (On-going)

Private Source Inflow Removal Program: Since 1994, the Downspout Disconnection Program has conducted approximately 36,000 building surveys and 10,000 dye water tests. Approximately 6,000 building (12,000 downspouts) have been disconnected. During CY04, a total of 75 large impervious areas were surveyed to identify inflow sources. To date, 70 of these areas have been dye tested.

I/I Rehabilitation Projects in Design or Construction: BWSC has both completed and is currently working on a wide variety of separation and I/I rehabilitation projects. To date, forty-seven (47) projects have received funding through the MWRA I/I Local Financial Assistance Program. In CY03/04, BWSC completed the following rehabilitation projects: Washington Street Drainage Improvements, Talbot Avenue I/I Removal, Commercial Street I/I Removal, Shawmut Avenue Drainage Improvements, D Street/West Second Street Sewer/Drainage Improvements and Causeway Street Sewer Separation.

BWSC entered into an I/I reduction agreement with the Massachusetts DEP in January 1986. As provided in the agreement, BWSC has performed a Phase II SSES on separated sewer areas within the City. BWSC also has an ongoing tide gate/regulator inspection and repair program and performs separation projects on pockets of combined sewers tributary to separated sewer areas.

Boston is one of MWRA's four combined sewer service communities. As part of the MWRA CSO Facilities Upgrade Project, Boston's flows are being evaluated for volume and discharge locations.

Reporting Period Activity: BWSC is required to report to the EPA on I/I reduction measures under their NPDES permit. This reporting requirement coincides with the MWRA's required submittal dates; therefore, please refer to the BWSC NPDES report for a summary of activities over this period.

MWRA I/I Local Financial Assistance Program: The community has financed forty-seven (47) I/I reduction projects through the Authority's funding assistance program. Of the \$51,618,200 allotted through the Program's Phases 1-5, the community has \$27,256,474 remaining in funding assistance.

## **6. BRAINTREE: South System**

Background Information:

- Miles of Sewer: 133
- Sewered Population: 33,794
- Three Year ('01 - '03) Annual Average I/I: 4.45 mgd
- Massachusetts DEP Administrative Order: No. 546 (Issued April 1, 1985), ACO-NE-01-1001 (March 27, 2001)

Latest I/I or SSES Report: Flow Isolation / TV Inspection of Allen St. Interceptor (April 2003)

Private Source Inflow Removal Program: Seven private source sump pump removal contracts have redirected 109 sump pumps to date. Developer Flow Reduction Program is now 6:1 per DEP ACO.

I/I Rehabilitation Projects in Design or Construction: The Allen Street interceptor lining and infiltration work in Sub-Areas HC-2 and M-2 is complete.

Reporting Period Activity: Contract 2001-S2, completed May 2003. The project had an estimated I/I removal of 39,600 gpd. Commercial Street sewer reconstruction complete.

MWRA I/I Local Financial Assistance Program: The community has financed four (4) I/I reduction projects through the Authority's funding assistance program. Of the \$3,109,000 allotted through the Program's Phases 1-5, the community has \$1,125,873 remaining in funding assistance.

## **7. BROOKLINE: North and South Systems**

Background Information:

- Miles of Sewer: 111
- Sewered Population: 56,462
- Three Year ('01 - '03) Annual Average I/I: 5.81 mgd
- Massachusetts DEP Administrative Order: None

Latest I/I or SSES Report: Phase II I/I Investigation (April 2002)

Private Source Inflow Removal Program: Town is in the process of developing a Private flow Source Identification and Removal Program.

I/I Rehabilitation Projects in Design or Construction: Sewer Rehabilitation Project No. 3, including various locations townwide, has lined 2,100 LF of sewer. The project has removed approximately 30,000 gpd of Infiltration.

Reporting Period Activity: I/I Reduction Project No. 1, including the investigation and rehabilitation of Sub-area NI-1 and NI-2, is ongoing. The Town completed (Sewer Separation Project No. 3) installing 4,500 LF of drain on Emerson Street, Davis Street, Elm Street and Washington Street. The project removed approximately 300,000 gpd of Peak Inflow.

MWRA I/I Local Financial Assistance Program: The community has financed four (4) I/I reduction projects through the Authority's funding assistance program. Of the \$5,112,200 allotted through the Program's Phases 1-5, the community has \$1,132,000 remaining in funding assistance.

## **8. BURLINGTON: North System**

### Background Information:

- Miles of Sewer: 115
- Sewered Population: 22,510
- Three Year ('01 - '03) Annual Average I/I: 2.17 mgd
- Massachusetts DEP Administrative Order: ACO-NE-01-1004 (7/25/01)

Latest I/I or SSES Report: Sewer System Evaluation Survey (January 2003)

Private Source Inflow Removal Program: 268 house-to-house inspections have been conducted. 18 sump pump have been identified. 8 sump pumps have been redirected

I/I Rehabilitation Projects in Design or Construction: The sealing of sewer manholes in the Wayside Road area is expected to be completed by the fall.

Reporting Period Activity: Two sump pumps have been redirected. The lining of 315 l.f. of sewer in South Bedford St. has been completed.

MWRA I/I Local Financial Assistance Program: The community has financed four (4) I/I reduction projects through the Authority's funding assistance program. Of the \$1,949,800 allotted through the Program's Phases 1-5, the community has \$1,188,600 remaining in funding assistance.

## **9. CAMBRIDGE: North System**

### Background Information:

- Miles of Sewer: 194
- Sewered Population: 101,705
- Three Year ('01 - '03) Annual Average I/I: 9.45 mgd
- Massachusetts DEP Administrative Order: None

Latest I/I or SSES Report: Phase II Analysis / Fast Track Design of I/I Rehabilitation Projects (March 2003)

Private Source Inflow Removal Program: Fawcett Street area building inspections complete.

I/I Rehabilitation Projects in Design or Construction: The City continues its implementation of Stormwater Management Program. DPW continues to require developers to handle as much stormwater as possible on their sites by using dry wells and other storm water retention/detention devices.

Reporting Period Activity: Common Manhole Contract No. 3 is ongoing; (common manholes have been separated). South Massachusetts Avenue sewer manholes and pipe lining is ongoing.

Separated 3 common manholes on Matignon Road. Four (4) common manholes were removed on Washburn St. and Cameron Ave. Beacon Street Flood Alleviation project is ongoing. Cambridgeport Roadways Project, which includes common manhole separation and sewer/drain separation, is ongoing. The two (2) new storm drain outfalls at Pearl St. & Amesbury St. have been constructed.

MWRA I/I Local Financial Assistance Program: The community has financed five (5) I/I reduction projects through the Authority's funding assistance program. Of the \$9,323,100 allotted through the Program's Phases 1-5, the community has \$3,319,645 remaining in funding assistance.

## **10. CANTON: South System**

Background Information:

- Miles of Sewer: 62
- Sewered Population: 15,579
- Three Year ('01 - '03) Annual Average I/I: 1.93 mgd
- Massachusetts DEP Administrative Order: No. 537 (Issued April 3, 1984)

Latest I/I or SSES Report: Comprehensive Water Resources Management Plan (On-going)

Private Source Inflow Removal Program: No additional inspections were reported during this period.

I/I Rehabilitation Projects in Design or Construction: The Additional Investigations Project based on the 1994 SSES is progressing. Design work for the replacement of Green Lodge Interceptor is on-going.

Reporting Period Activity: Ward Well Pump Station Replacement contract awarded July 2004. Construction to be complete December 2004.

MWRA I/I Local Financial Assistance Program: The community has financed four (4) I/I reduction projects through the Authority's funding assistance program. Of the \$1,645,900 allotted through the Program's Phases 1-5, the community has \$364,000 remaining in funding assistance.



## **11. CHELSEA: North System**

### Background Information:

- Miles of Sewer: 41
- Sewered Population: 34,913
- Three Year ('01 - '03) Annual Average I/I: 1.78 mgd
- Massachusetts DEP Administrative Order: None

Latest I/I or SSES Report: Inflow Evaluation for area tributary to CSO CHE-007 (March 2003)

Private Source Inflow Removal Program: Private inflow source identification is complete for CHE-007 tributary areas.

I/I Rehabilitation Projects in Design or Construction: Sewer replacement on Chestnut Street of approximately 1,200 feet of 8 and 12-inch sewers is ongoing. I/I rehabilitation and sewer separation in the tributary to CSO CHE-008 is ongoing. Design of sewer separation in Vale Street, which includes 300 l.f of drain to redirect 3 catch basins, is ongoing. Design for one of the three drainage outfalls under Phase 1 of the CHE007 Tributary Area Sewer Separation Plan. Design of approximately 2,300 l.f. of storm drain to separate approximately 8 acres of drain in the Eastern Ave. area is ongoing.

Chelsea is one of MWRA's combined sewer service communities. As part of the MWRA CSO Facilities Upgrade Project, Chelsea's flows are being evaluated for volume and discharge locations.

Reporting Period Activity: Construction for Sewer and Drain Improvements on Parker Street and Lafayette Avenue was completed in the Fall 2003. Sewer Separation on Vila Street, Dudley Street and Spencer Street was completed in the Fall 2003.

MWRA I/I Local Financial Assistance Program: The community has financed eight (8) I/I reduction projects through the Authority's funding assistance program. Of the \$2,469,100 allotted through the Program's Phases 1-5, the community has \$859,836 remaining in funding assistance.

## **12. DEDHAM: South System**

### Background Information:

- Miles of Sewer: 76
- Sewered Population: 23,378
- Three Year ('01 - '03) Annual Average I/I: 3.70 mgd
- Massachusetts DEP Administrative Order: No. 547 (Issued October 1, 1985).

Latest I/I or SSES Report: Internal TV Inspection of Sewers (Letter Report - June 2004)

Private Source Inflow Removal Program: Review of the past inspection work in the Glenway/Hamilton Avenue area was performed. Final report issued April 2004.

I/I Rehabilitation Projects in Design or Construction: Sewer replacement design along East Street from Endicott Street rotary to High Street complete. Work incorporated into Miscellaneous Sewer Improvements Contract 2003-1, currently under construction. Lower Brook Interceptor rehabilitation in design.

Reporting Period Activity: The Town has completed the inspection of three sewer subareas, totaling approximately 43,000 LF of sewer. Approximately 41,000 LF requires rehabilitation. A new phase of internal TV inspection is scheduled for Fall 2004.

MWRA I/I Local Financial Assistance Program: The community has financed ten (10) I/I reduction projects through the Authority's funding assistance program. Of the \$2,381,000 allotted through the Program's Phases 1-5, the community has \$548,000 remaining in funding assistance.

### **13. EVERETT: North System**

Background Information:

- Miles of Sewer: 57
- Sewered Population: 37,734
- Three Year ('01 - '03) Annual Average I/I: 3.64 mgd
- Massachusetts DEP Administrative Order: None

Latest I/I or SSES Report: I/I Investigation (February 2000)

Private Source Inflow Removal Program: No additional inspections were reported during this period.

I/I Rehabilitation Projects in Design or Construction: The City is in the process of designing another construction contract based upon smoke testing and TV inspection performed during Fall 1999.

Reporting Period Activity: The separation work consisting of the redirection of six catch basins from the sewer system to the drainage system on Hamilton Street, Hoyt Street, Perry Place and Silver Street has been completed. The sewer rehabilitation work consisted of the replacement of complete sewer segments and small spot repairs in Sewer Area 3.

MWRA I/I Local Financial Assistance Program: The community has financed five (5) I/I reduction projects through the Authority's funding assistance program. Of the \$3,141,500 allotted through the Program's Phases 1-5, the community has \$716,000 remaining in funding assistance.

## **14. FRAMINGHAM: South System**

### Background Information:

- Miles of Sewer: 275
- Sewered Population: 62,817
- Three Year ('01 - '03) Annual Average I/I: 2.52 mgd
- Massachusetts DEP Administrative Order: No. 592 (Issued January 8, 1986)

Latest I/I or SSES Report: Town-Wide I/I Study / SSES (On-going)

Private Source Inflow Removal Program: The SSES will include a house-to-house inspection component initiating at properties along the Howard Street Sewer Rehabilitation Project. Sewer use regulations are being updated to strengthen penalties levied to private source inflow. The Town is also undertaking a Storm Water Management Study that will provide mapping of the town-wide sewer (completed April 2004) and storm water drainage (on-going) systems.

I/I Rehabilitation Projects in Design or Construction: The Sudbury River Interceptor Rehabilitation project is complete. Approximately 100 manholes and 6,500 feet of sewers was rehabilitated. Cleaning and TV inspection of 18,940 LF of sewer was conducted in the downtown area of the community (primarily near Waverly Street and Howard Street). Design work for the Howard Street Sewer Rehabilitation Project is on-going.

Reporting Period Activity: No system modifications were reported during this period. Town-wide sewer/drain mapping on-going. Wet well debris cleaned from eight pumping stations.

MWRA I/I Local Financial Assistance Program: The community has financed five (5) I/I reduction projects through the Authority's funding assistance program. Of the \$5,003,000 allotted through the Program's Phases 1-5, the community has \$3,120,605 remaining in funding assistance.

## **15. HINGHAM: South System**

### Background Information:

- Miles of Sewer: 31
- Sewered Population: 6,126
- Three Year ('01 - '03) Annual Average I/I: 0.85 mgd
- Massachusetts DEP Administrative Order: No. 536 (Issued November 15, 1985)

Latest I/I or SSES Report: TV Inspection (October 1987)

Private Source Inflow Removal Program: The house-to-house sump pump inspection program continues. Based on these inspections, five sump pumps and one roof leader were located and redirected. Three house laterals have been replaced.

I/I Rehabilitation Projects in Design or Construction: Sewer relining along North Street is complete. Adjacent chimney repair work is on-going. An estimated I/I reduction of 160,000 gpd was reported.

Reporting Period Activity: The Town will use Developer Flow Reduction Program funds to identify I/I sources in conjunction with the forthcoming Comprehensive Wastewater Management Study. Twenty-five new sewer connections were added from the Baker Hill and Lincoln Hill subdivisions.

MWRA I/I Local Financial Assistance Program: The community has financed three (3) I/I reduction projects through the Authority's funding assistance program. Of the \$589,500 allotted through the Program's Phases 1-5, the community has \$144,000 remaining in funding assistance.

## **16. HOLBROOK: South System**

Background Information:

- Miles of Sewer: 31
- Sewered Population: 8,484
- Three Year ('01 - '03) Annual Average I/I: 0.46 mgd
- Massachusetts DEP Administrative Order: None

Latest I/I or SSES Report: I/I Identification Plan (August 2004)

Private Source Inflow Removal Program: A proposed SSES will include a house-to-house inspection component. Inspections to begin Summer 2004. Town officials will continue to inspect new residential/commercial properties for illicit connections during the installation of water meters.

I/I Rehabilitation Projects in Design or Construction: The proposed SSES calls for the inspection of 445 manholes, house-to-house investigation of 2,700 properties and smoke testing of 40,000 LF of sewer.

Reporting Period Activity: The Town has completed its yearly check of all cross-country sewer manholes. The Holbrook collection system is being extended under the present Phase II-VI Sewer Project.

MWRA I/I Local Financial Assistance Program: The community has financed one (1) I/I reduction project through the Authority's funding assistance program. Of the \$640,600 allotted through the Program's Phases 1-5, the community has \$144,000 remaining in funding assistance.

## **17. LEXINGTON: North System**

### Background Information:

- Miles of Sewer: 151
- Sewered Population: 29,130
- Three Year ('01 - '03) Annual Average I/I: 3.36 mgd
- Massachusetts DEP Administrative Order: None

Latest I/I or SSES Report: Sewer System GPS Mapping (April 2002)

Private Source Inflow Removal Program: The Town is in the process of preparing a public education brochure.

I/I Rehabilitation Projects in Design or Construction: See description below.

Reporting Period Activity: Sewer lining project 04-04, that included 1628 linear feet of 12-inch and 8-inch cured in place liner and replacement of a portion of 12-inch VC pipe, was completed in April 04.

MWRA I/I Local Financial Assistance Program: The community has financed four (4) I/I reduction projects through the Authority's funding assistance program. Of the \$2,827,300 allotted through the Program's Phases 1-5, the community has \$1,293,700 remaining in funding assistance.

## **18. MALDEN: North System**

### Background Information:

- Miles of Sewer: 100
- Sewered Population: 56,099
- Three Year ('01 - '03) Annual Average I/I: 5.58 mgd
- Massachusetts DEP Administrative Order: None

Latest I/I or SSES Report: Malden Sewer System Survey Report (April 2004)

Private Source Inflow Removal Program: No additional inspections were reported during this period.

I/I Rehabilitation Projects in Design or Construction: Bids are scheduled to be taken in August 2004 for the Sewer Rehabilitation Contract No. 2004-S-1.

Reporting Period Activity: The design for the Sewer Rehabilitation Contract No. 2004-S-1 was completed with the bids scheduled for August. This rehabilitation project, which is estimated to remove 0.43 mgd of I/I, was recommended by the Sewer System Survey Report of April 2004.

MWRA I/I Local Financial Assistance Program: The community has financed four (4) I/I reduction projects through the Authority's funding assistance program. Of the \$4,593,900 allotted through the Program's Phases 1-5, the community has \$1,366,903 remaining in funding assistance.

## **19. MEDFORD: North System**

Background Information:

- Miles of Sewer: 113
- Sewered Population: 55,082
- Three Year ('01 - '03) Annual Average I/I: 5.11 mgd
- Massachusetts DEP Administrative Order: None

Latest I/I or SSES Report: I/I Analysis / Limited SSES – Part 2 (October 2002)

Private Source Inflow Removal Program: No additional inspections were reported during this period.

I/I Rehabilitation Projects in Design or Construction: Design associated with the Sydney St. Inflow Removal and Drainage Improvement Project. Once constructed, this project is estimated to remove 7.0 mgd of Peak Inflow.

Reporting Period Activity: In March 2004, cleaning & TV inspection was completed in 11,200 l.f. of sewer at various locations. Also, in July & August 2004, sewer point repairs were completed at various locations.

MWRA I/I Local Financial Assistance Program: The community has financed seven (7) I/I reduction projects through the Authority's funding assistance program. MWRA has distributed the entire \$4,794,600 of phase 1-5 funding assistance to Medford.

## **20. MELROSE: North System**

Background Information:

- Miles of Sewer: 74
- Sewered Population: 26,936
- Three Year ('01 - '03) Annual Average I/I: 2.64 mgd
- Massachusetts DEP Administrative Order: None

Latest I/I or SSES Report: I/I Rehabilitation Project Recommendations (November 2001)

Private Source Inflow Removal Program: No additional inspections were reported during this period.

I/I Rehabilitation Projects in Design or Construction: There have been no modifications or extensions to the collection system over the last year.

Reporting Period Activity: The City is continuing its public and private inflow source identification and removal program. The design of an I/I Rehabilitation Project as recommended by the 1995 SSES Report is being completed with bids being accepted in the fall. This rehabilitation work will involve approximately 24,000 l.f. of sewer in various sections of the City. The estimated infiltration removal is 1.13 mgd.

MWRA I/I Local Financial Assistance Program: The community has financed three (3) I/I reduction projects through the Authority's funding assistance program. Of the \$2,301,300 allotted through the Program's Phases 1-5, the community has \$1,721,500 remaining in funding assistance.

## **21. MILTON: South System (Small Portion Tributary to the North System).**

Background Information:

- Miles of Sewer: 83
- Sewered Population: 24,449
- Three Year ('01 - '03) Annual Average I/I: 2.70 mgd
- Massachusetts DEP Administrative Order: No. 580 (Issued June 13, 1985)

Latest I/I or SSES Report: I/I Rehabilitation - Year 2 (August 2004)

Private Source Inflow Removal Program: The Town is continuing to pursue the removal of sump pumps and other private inflow sources identified through a previously completed building inspection program.

I/I Rehabilitation Projects in Design or Construction: Town-Wide Sewer Evaluation Program - Year 1 rehabilitation construction was completed December 2003. This project removed an estimated 10,000 gpd of I/I from the sewer system. Town-Wide Sewer Evaluation Program - Year 2 rehabilitation construction began August 2004. Estimated infiltration removal is 80,000 gpd. Television and manhole inspection for Year 3 of the Town-Wide Sewer Evaluation Program was conducted in Spring 2004.

Reporting Period Activity: The developer for the Milton Landing Project at Wharf Street is conducting an evaluation of Sewer Sub-System S-17.

MWRA I/I Local Financial Assistance Program: The community has financed thirteen (13) I/I reduction projects through the Authority's funding assistance program. Of the \$2,279,500 allotted through the Program's Phases 1-5, the community has \$81,000 remaining in funding assistance.

## **22. NATICK: South System**

### Background Information:

- Miles of Sewer: 107
- Sewered Population: 27,332
- Three Year ('01 - '03) Annual Average I/I: 1.75 mgd
- Massachusetts DEP Administrative Order: No. 593 (Issued November 15, 1985)

Latest I/I or SSES Report: Town-Wide I/I Study (August 2003)

Private Source Inflow Removal Program: A proposed SSES will include a house-to-house inspection component. Home inspections will continue to be conducted during water meter replacement. The Town is scheduled to replace all water meters in the next two years.

I/I Rehabilitation Projects in Design or Construction: The proposed SSES calls for manhole inspection, house-to-house private source investigation and sewer line smoke testing. Replaced 1,200 LF of 12-inch sewer on Sherman Street. I/I removal estimated at 15,000 gpd.

Reporting Period Activity: Town-Wide I/I Study is complete.

MWRA I/I Local Financial Assistance Program: The community has financed three (3) I/I reduction projects through the Authority's funding assistance program. Of the \$2,270,600 allotted through the Program's Phases 1-5, the community has \$1,113,600 remaining in funding assistance.

## **23. NEEDHAM: South System**

### Background Information:

- Miles of Sewer: 115
- Sewered Population: 27,854
- Three Year ('01 - '03) Annual Average I/I: 3.33 mgd
- Massachusetts DEP Administrative Order: No. 549 (Issued November 21, 1984)

Latest I/I or SSES Report: Smoke Testing Report (On-going)

Private Source Inflow Removal Program: No additional inspections were reported during this period.

I/I Rehabilitation Projects in Design or Construction: Sewer Sub-Areas 1, 3 and 4 were TV inspected. A two phase rehabilitation project was designed/constructed. Phase 1 is complete and included root treatment, heavy cleaning, testing and sealing of joints, spot CIP repair and full length (manhole-to-manhole) CIP liner. Phase 2 is on-going and includes spot repairs requiring excavation and manhole-to-manhole pipe replacement.



Reporting Period Activity: Upgrade/rehabilitation at Kendrick Street, Reservoir B, Milo Circle, Great Plain Avenue and Richardson Drive Pumping Stations.

MWRA I/I Local Financial Assistance Program: The community has financed four (4) I/I reduction projects through the Authority's funding assistance program. Of the \$2,630,600 allotted through the Program's Phases 1-5, the community has \$1,152,300 remaining in funding assistance.

## **24. NEWTON: North and South Systems**

Background Information:

- Miles of Sewer: 271
- Sewered Population: 83,202
- Three Year ('01 - '03) Annual Average I/I: 8.83 mgd
- Massachusetts DEP Administrative Order: ACO-NE-00-1001

Latest I/I or SSES Report: Cheesecake/Laundry Brook Drainage Area Study

Private Source Inflow Removal Program: The City continues home inspections for illicit connections to the sanitary sewer collection system. A sewer task force has been created to develop and implement a Private Inflow Removal Program.

I/I Rehabilitation Projects in Design or Construction: Infiltration removal continued in Sewer Area C. The estimated amount of infiltration removed was 117,000 gpd.

Reporting Period Activity: The City added 85 new sewer connections to the sanitary system. Smoke testing & Dye Testing has been completed in Sewer Areas A & C. Installed 1,000 l.f. of cured-in-place liner in 20"x30" sewer interceptor along the Charles River. Tested and Sealed 950 l.f. of 8" sewer in Nahanton Park off Winchester St.

MWRA I/I Local Financial Assistance Program: The community has financed fourteen (14) I/I reduction projects through the Authority's funding assistance program. Of the \$8,265,400 allotted through the Program's Phases 1-5, the community has \$3,719,700 remaining in funding assistance.

## **25. NORWOOD: South System**

### Background Information:

- Miles of Sewer: 83
- Sewered Population: 28,815
- Three Year ('01 - '03) Annual Average I/I: 3.85 mgd
- Massachusetts DEP Administrative Order: No. 534 (Issued July 25, 1983)

Latest I/I or SSES Report: Pellana Road PS Area I/I Reduction Report (December 2003)

Private Source Inflow Removal Program: As part of the Pellana Road PS Area I/I Reduction Report, a total of 235 buildings were inspected and 17,900 LF of sewer line was smoke tested. Potential inflow sources totaled 162. Dye water tracing/flooding/TV inspection will be performed.

I/I Rehabilitation Projects in Design or Construction: The Pellana Road Pumping Station Area I/I Reduction Report is complete. Design recommendations are forthcoming. Norwood Gardens Service Area SSES began July 2004. The Meadowbrook Basin project to identify sewer system I/I, as well as sources of wastewater pollution in storm drains, is on-going. The Town has repaired 650 feet of sewer within the basin.

Reporting Period Activity: Norwood Gardens Service Area SSES began July 2004. The study will include the inspection of 20 manholes, house-to-house investigation of 56 properties and sewer line smoke testing.

MWRA I/I Local Financial Assistance Program: The community has financed ten (10) I/I reduction projects through the Authority's funding assistance program. Of the \$2,715,400 allotted through the Program's Phases 1-5, the community has \$749,800 remaining in funding assistance.

## **26. QUINCY: South System**

### Background Information:

- Miles of Sewer: 202
- Sewered Population: 89,098
- Three Year ('01 - '03) Annual Average I/I: 8.59 mgd
- Massachusetts DEP Administrative Order: No. 644 (Issued October 22, 1986)

Latest I/I or SSES Report: Montclair Bog Area TV Inspection (August 2003)

Private Source Inflow Removal Program: No additional inspections were reported during this period.

I/I Rehabilitation Projects in Design or Construction: North Quincy Lateral Sewer Improvements (Phase I) is scheduled for completion in Fall 2004. Area 7 Sewer and Water Improvements Project and Quincy Shore Drive Sewer Improvement Project (Phase I) are ongoing.

Reporting Period Activity: Construction of 60 LF of 8-inch sewer from Sea Street to Meade Street easement completed May 2004.

MWRA I/I Local Financial Assistance Program: The community has financed seven (7) I/I reduction projects through the Authority's funding assistance program. Of the \$7,665,000 allotted through the Program's Phases 1-5, the community has \$1,680,000 remaining in funding assistance.

## **27. RANDOLPH: South System**

Background Information:

- Miles of Sewer: 101
- Sewered Population: 30,858
- Three Year ('01 - '03) Annual Average I/I: 1.75 mgd
- Massachusetts DEP Administrative Order: No. 548 (Issued July 29, 1985)

Latest I/I or SSES Report: Amelian Road SSES (January 2003)

Private Source Inflow Removal Program: House-to-house inspections in the Amelian Road area.

I/I Rehabilitation Projects in Design or Construction: The Amelian Road SSES contract is ongoing.

Reporting Period Activity: The Town is developing a sump pump removal plan/policy along with expanding its Developer Flow Reduction Plan.

MWRA I/I Local Financial Assistance Program: The community has financed five (5) I/I reduction projects through the Authority's funding assistance program. Of the \$2,354,800 allotted through the Program's Phases 1-5, the community has \$1,023,900 remaining in funding assistance.

## **28. READING: North System**

### Background Information:

- Miles of Sewer: 96
- Sewered Population: 22,330
- Three Year ('01 - '03) Annual Average I/I: 1.23 mgd
- Massachusetts DEP Administrative Order: None

Latest I/I or SSES Report: Pilot House-to-House Inspection Program Summary Report (July 2002)

Private Source Inflow Removal Program: The Town has received proposals to complete the Town-wide House-to-House Inspection Program.

I/I Rehabilitation Projects in Design or Construction: No activity during this period. Town Meeting approved the use of MWRA I/I Local Financial Assistance Program funding. Currently developing a program for the use of these funds.

Reporting Period Activity: Cleaned approximately 16,000 l.f. of sewer; TV inspected approximately 7,000 l.f. of sewer; tested and sealed joints on approximately 7,000 l.f. of sewer; sealed and cement-lined 39 sewer manholes.

MWRA I/I Local Financial Assistance Program: The community has financed one (1) I/I reduction project through the Authority's funding assistance program. Of the \$1,736,100 allotted through the Program's Phases 1-5, the community has \$760,700 remaining in funding assistance.

## **29. REVERE: North System**

### Background Information:

- Miles of Sewer: 78
- Sewered Population: 47,449
- Three Year ('01 - '03) Annual Average I/I: 4.06 mgd
- Massachusetts DEP Administrative Order: No. 837 (Issued April 21, 1991)

Latest I/I or SSES Report: SSES Phase 3 (August 1999)

Private Source Inflow Removal Program: No additional inspections were reported during this period.

I/I Rehabilitation Projects in Design or Construction: No activity during this period.

Reporting Period Activity: Sewer extension along Furlong Drive and Lee Burbank Highway for the new shopping center across from Suffolk Downs.

MWRA I/I Local Financial Assistance Program: The community has financed two (2) I/I reduction projects through the Authority's funding assistance program. Of the \$3,750,900 allotted through the Program's Phases 1-5, the community has \$2,419,400 remaining in funding assistance.

### **30. SOMERVILLE: North System**

Background Information:

- Miles of Sewer: 128
- Sewered Population: 76,845
- Three Year ('01 - '03) Annual Average I/I: 6.19 mgd
- Massachusetts DEP Administrative Order: NON-NE-00-1006 (Issued January 21, 2000)

Latest I/I or SSES Report: Sewer System Rehabilitation Design (Final - April 2002)

Private Source Inflow Removal Program: No activity during this period.

I/I Rehabilitation Projects in Design or Construction: As part of the I/I Rehabilitation Contract, 15,369 l.f of sewer was cleaned and 10,569 l.f. of storm drain was cleaned. The preliminary design associated with the Tannery Brook Drain Separation Project is ongoing

Somerville is one of MWRA's combined sewer service communities. As part of the MWRA CSO Facilities Upgrade Project, Somerville's flows are being evaluated for volume and discharge locations.

Reporting Period Activity: Installed cured-in-place liner in 274 l.f. of 36" brick sewer; 244 l.f. of 24"VC sewer; 994 l.f. of 48" brick sewer; 1,059 l.f. of 10" VC sewer. Cleaned and CCTV'd over 5,000 l.f. of 15" to 54" sewer. The estimated Infiltration reduction is 62,700 gpd.

MWRA I/I Local Financial Assistance Program: The community has financed three (3) I/I reduction projects through the Authority's funding assistance program. Of the \$6,155,800 allotted through the Program's Phases 1-5, the community has \$4,958,400 remaining in funding assistance.

### **31. STONEHAM: North System**

Background Information:

- Miles of Sewer: 63
- Sewered Population: 21,700
- Three Year ('01 - '03) Annual Average I/I: 1.42 mgd
- Massachusetts DEP Administrative Order: None

Latest I/I or SSES Report: CCTV Report in Study Areas V & VI (June 2004) & Phase II Aqua Zoom Assessment (June 2004)

Private Source Inflow Removal Program: No additional inspections were reported during this period.

I/I Rehabilitation Projects in Design or Construction: Total replacement of the sewer main, manholes and service connections (as needed) on Summer Street between Main Street and Pond Street and a segment of the Pond Street sewer has been completed and Record Drawings delivered in Spring 2004.

Reporting Period Activity: Aqua Zoom inspections and sewer system condition assessment in the Phase II Aqua Zoom Study Area was completed and a report outlining CCTV and rehabilitation recommendations was submitted on August 4, 2004. CCTV inspections and sewer system condition assessment in Study Areas 5 & 6 was completed and a report outlining sewer rehabilitation recommendations was submitted on August 4, 2004.

MWRA I/I Local Financial Assistance Program: The community has financed four (4) I/I reduction projects through the Authority's funding assistance program. Of the \$2,043,900 allotted through the Program's Phases 1-5, the community has \$408,000 remaining in funding assistance.

### **32. STOUGHTON: South System**

Background Information:

- Miles of Sewer: 60
- Sewered Population: 17,698
- Three Year ('01 - '03) Annual Average I/I: 2.30 mgd
- Massachusetts DEP Administrative Order: No. 538 (Issued June 17, 1984)

Latest I/I or SSES Report: Phase VI SSES (February 2003)

Private Source Inflow Removal Program: TV inspection of service connections on-going.

I/I Rehabilitation Projects in Design or Construction: Phase VI sewer rehabilitation on-going.

Reporting Period Activity: Phase V rehabilitation construction complete.

MWRA I/I Local Financial Assistance Program: The community has financed four (4) I/I reduction projects through the Authority's funding assistance program. Of the \$1,852,900 allotted through the Program's Phases 1-5, the community has \$416,000 remaining in funding assistance.

### **33. WAKEFIELD: North System**

Background Information:

- Miles of Sewer: 82
- Sewered Population: 23,757
- Three Year ('01 - '03) Annual Average I/I: 3.05 mgd
- Massachusetts DEP Administrative Order: None

Latest I/I or SSES Report: Subarea 6 Flow Monitoring and Manhole Inspection Final Report (June 2004)

Private Source Inflow Removal Program: SSES work that commenced on September 2003 will be investigating sources in Sub-Area 6. Commercial properties in the Audubon Rd. area are being investigated. Inspection at the Colonial Hilton is ongoing.

I/I Rehabilitation Projects in Design or Construction: The Town rebuilt sewer manhole on Teri Road to remove the inflow source.

Reporting Period Activity: Smoke testing in Gauging Areas 2 & 4 of Subarea 6 identified 897,000 gpd of design storm inflow. Flow isolation of approximately 35,000 l.f. of sewer in Gauging Areas 2, 4 & 5 of Subarea 6 identified approximately 285,000 gpd of infiltration.

MWRA I/I Local Financial Assistance Program: The community has financed nine (9) I/I reduction projects through the Authority's funding assistance program. Of the \$2,356,900 allotted through the Program's Phases 1-5, the community has \$825,300 remaining in funding assistance.

### **34. WALPOLE: South System**

Background Information:

- Miles of Sewer: 59
- Sewered Population: 15,079
- Three Year ('01 - '03) Annual Average I/I: 1.28 mgd
- Massachusetts DEP Administrative Order: None

Latest I/I or SSES Report: SSES Phases 1 and 2 (June 2002)

Private Source Inflow Removal Program: There have been 85 suspect roof leaders identified. Town working with property owners for redirection design. Town may include house-to-house inspection program as part of its upcoming water meter replacement program.

I/I Rehabilitation Projects in Design or Construction: The Phase II I/I removal project is currently under investigation by a new consulting firm to achieve the most cost effective plan.

Reporting Period Activity: Construction of 1,300 LF of 8-inch sewer within Hollowdale Farm Subdivision.

MWRA I/I Local Financial Assistance Program: The community has financed three (3) I/I reduction projects through the Authority's funding assistance program. Of the \$1,447,000 allotted through the Program's Phases 1-5, the community has \$308,000 remaining in funding assistance.

### **35. WALTHAM: North System**

Background Information:

- Miles of Sewer: 138
- Sewered Population: 58,482
- Three Year ('01 - '03) Annual Average I/I: 6.18 mgd
- Massachusetts DEP Administrative Order: ACOP-NE-02-1003 (5/7/03)

Latest I/I or SSES Report: Infiltration/Inflow Investigation Draft Report (June 2004)

Private Source Inflow Removal Program: No activity during this period.

I/I Rehabilitation Projects in Design or Construction: Sewer Rehabilitation (Contract 02-2) has been completed. The construction of the Beaver Brook Sewer Rehabilitation is ongoing. Sewer Rehabilitation for Hobbs Brook, Metropolitan State Hospital, Roberts Trunk Sewer Rehabilitation, and Carter/Felton/Elm Streets are in preparation to go to bid.



Reporting Period Activity: The City is in the early stages of the development of a Sewer Bank Program. The City's Private Inflow Source Removal Program will finish the inspection stage this summer and begin notifying property owners of illicit connections.

MWRA I/I Local Financial Assistance Program: The community has financed five (5) I/I reduction projects through the Authority's funding assistance program. Of the \$5,392,400 allotted through the Program's Phases 1-5, the community has \$1,180,000 remaining in funding assistance.

### **36. WATERTOWN: North System**

Background Information:

- Miles of Sewer: 75
- Sewered Population: 32,857
- Three Year ('01 - '03) Annual Average I/I: 1.84 mgd
- Massachusetts DEP Administrative Order: ACOP-NE-97-5004

Latest I/I or SSES Report: I/I and SSES Analysis Draft Report (September 2000)

Private Source Inflow Removal Program: During this period, the Town performed smoke testing of 20,900 linear feet of sanitary sewer, used to help identify storm drain and sanitary conductivity issues in various sections of the Town.

I/I Rehabilitation Projects in Design or Construction: In July 2004, the Town issued a contract for catch basin cleaning and rebuilding.

Reporting Period Activity: During this period, 250 l.f. of sewer on Auburn St was lined; 6 sanitary sewer laterals were repaired; one repair to sewer main.

MWRA I/I Local Financial Assistance Program: The community has financed one (1) I/I investigation project through the Authority's funding assistance program. Of the \$2,581,800 allotted through the Program's Phases 1-5, the community has \$2,259,235 remaining in funding assistance.

### **37. WELLESLEY: South System**

#### Background Information:

- Miles of Sewer: 130
- Sewered Population: 25,684
- Three Year ('01 - '03) Annual Average I/I: 2.52 mgd
- Massachusetts DEP Administrative Order: No. 579 (Issued May 23, 1985)

Latest I/I or SSES Report: Phase 2 SSES (November 1994)

Private Source Inflow Removal Program: The DPW is contacting the owners of illegal sump pumps, based on previous private source inflow studies. To date, 18 sump pumps have been removed from the sanitary system.

I/I Rehabilitation Projects in Design or Construction: Contract No. 04C-50-05 (Sewer Rehabilitation in the Wellesley Farms Area) is on-going. The project includes the cleaning and television inspection of approximately 57,660 feet of sanitary sewer to determine the structural condition of the pipe.

Reporting Period Activity: The replacement/rehabilitation of 15 existing pneumatic ejector stations and 4 package sewage pump stations is on-going.

MWRA I/I Local Financial Assistance Program: The community has financed four (4) I/I reduction projects through the Authority's funding assistance program. Of the \$2,255,700 allotted through the Program's Phases 1-5, the community has \$1,799,760 remaining in funding assistance.

### **38. WESTWOOD: South System**

#### Background Information:

- Miles of Sewer: 77
- Sewered Population: 13,472
- Three Year ('01 - '03) Annual Average I/I: 1.12 mgd
- Massachusetts DEP Administrative Order: No. 578 (Issued May 23, 1985)

Latest I/I or SSES Report: SSES Phases 1 and 2 (January 1991)

Private Source Inflow Removal Program: House-to-house inspection survey, as part of the FY03 Annual Inspection Program, has been completed. Six properties were identified with illicit connections.

I/I Rehabilitation Projects in Design or Construction: The maintenance program for FY03 has been completed. The program included television inspection of five miles of sewer, the testing

and sealing of sewer manholes, and house-to-house inspection surveys to identify illicit connections to the sewer system. The manhole sealing eliminated an estimated 12,300 gpd of I/I.

Reporting Period Activity: The construction of 1,700 LF of new sewer laterals on Grove Street is complete.

MWRA I/I Local Financial Assistance Program: The community has financed four (4) I/I reduction projects through the Authority's funding assistance program. Of the \$973,300 allotted through the Program's Phases 1-5, the community has \$240,000 remaining in funding assistance.

### **39. WEYMOUTH: South System**

Background Information:

- Miles of Sewer: 238
- Sewered Population: 51,852
- Three Year ('01 - '03) Annual Average I/I: 5.16 mgd
- Massachusetts DEP Administrative Order: No. 543 (Issued November 14, 1984)  
A new ACO was signed in 1999.

Latest I/I or SSES Report: I/I Identification Sub-Basin Reports (February 2004)

Private Source Inflow Removal Program: The Town completed the redirection of 299 sump pumps (for an estimated 150,000 gpd of inflow removal) with approximately 21 sump pumps pending.

I/I Rehabilitation Projects in Design or Construction: Contract S02-1 I/I Rehabilitation Construction was completed in December 2003. Ft. Point Road I/I Rehabilitation Construction complete. CIP I/I Rehabilitation Construction Contract Nos. 2 and 5 complete. CIP I/I Rehabilitation Design Contract No. 3 out for bid. Lower Central/Old Swamp River CIP I/I Rehabilitation Design Contract No. 3 out for bid. Southeast/Landing I/I Rehabilitation Design Contract out for bid.

Reporting Period Activity: Completed the conversion of four ejector stations (Belmont/Island View/Mathewson/Holmes) into submersible pumping station. Completed septage receiving facility enclosure. The Town has replaced 2,670 LF of 8-inch sewer and 311 LF of 3-inch force main in the past year.

MWRA I/I Local Financial Assistance Program: The community has financed twelve (12) I/I reduction projects through the Authority's funding assistance program. Of the \$4,529,900 allotted through the Program's Phases 1-5, the community has \$1,012,000 remaining in funding assistance.

## **40. WILMINGTON: North System**

### Background Information:

- Miles of Sewer: 20
- Sewered Population: 3,699
- Three Year ('01 - '03) Annual Average I/I: 0.74 mgd
- Massachusetts DEP Administrative Order: None

Latest I/I or SSES Report: Infrastructure Maintenance & Management Program (IMMP) - Phase I Study Area Final Report (June 2003)

Private Source Inflow Removal Program: No additional inspections were reported during this period.

I/I Rehabilitation Projects in Design or Construction: Bids were accepted on January 14, 2004 for the Sewer System Rehabilitation project. As of August 2004, the construction is substantially complete.

Reporting Period Activity: The Town is continuing with the next phase of their Infrastructure Maintenance and Management Program (IMMP). This includes the internal inspection of the sewers and manholes, analysis of the results and recommendations for sewer rehabilitations.

MWRA I/I Local Financial Assistance Program: The community has financed three (3) I/I reduction projects through the Authority's funding assistance program. Of the \$968,000 allotted through the Program's Phases 1-5, the community has \$228,000 remaining in funding assistance.

## **41. WINCHESTER: North System**

### Background Information:

- Miles of Sewer: 83
- Sewered Population: 21,072
- Three Year ('01 - '03) Annual Average I/I: 1.67 mgd
- Massachusetts DEP Administrative Order: Draft ACO in 2001.

Latest I/I or SSES Report: I/I Removal Report (April 1994)

Private Source Inflow Removal Program: Under the Town Private Inflow Source Removal Program approximately 130 private inflow sources have been disconnected to date.

I/I Rehabilitation Projects in Design or Construction: No design work is currently being prepared. See below for construction work.

Reporting Period Activity: Allstate Power Vac in currently cleaning and TV inspecting 52,00 l.f. of sewers and testing and sealing 11,300 pipe joints.

MWRA I/I Local Financial Assistance Program: The community has financed three (3) I/I reduction projects through the Authority's funding assistance program. Of the \$1,704,000 allotted through the Program's Phases 1-5, the community has \$751,700 remaining in funding assistance.

## **42. WINTHROP: North System**

Background Information:

- Miles of Sewer: 36
- Sewered Population: 18,235
- Three Year ('01 - '03) Annual Average I/I: 1.14 mgd
- Massachusetts DEP Administrative Order: None

Latest I/I or SSES Report: Preliminary Design Report/Shirley Street Sewer Rehab. (July 2002)

Private Source Inflow Removal Program: No additional inspections were reported during this period.

I/I Rehabilitation Projects in Design or Construction: There was no activity during this period.

Reporting Period Activity: The Town is preparing a construction contract to eliminate cost-effective inflow sources.

MWRA I/I Local Financial Assistance Program: The community has financed three (3) I/I reduction projects through the Authority's funding assistance program. Of the \$1,342,400 allotted through the Program's Phases 1-5, the community has \$1,055,300 remaining in funding assistance.

### **43. WOBURN: North System**

#### Background Information:

- Miles of Sewer: 141
- Sewered Population: 36,103
- Three Year ('01 - '03) Annual Average I/I: 5.59 mgd
- Massachusetts DEP Administrative Order: ACO-NE-01-1005 (August 16, 2001)

Latest I/I or SSES Report: Dix Road SSES Final Report (July 2004)

Private Source Inflow Removal Program: A new Sewer Use Ordinance and Private Inflow Program was adopted in June 2004. Numerous sources of Inflow were removed at the request of the plumbing Inspector and recorded in the Sewer Bank. Building inspections are being completed in both the Dix Road Pumping Station tributary area and the West Side Interceptor tributary area.

I/I Rehabilitation Projects in Design or Construction: Design of the Dix Road Area sewer rehabilitations as recommended by the SSES Report of July 2004 is ongoing with construction anticipated to begin by late Fall 2004. This project will also include recommended rehabilitations of Sylvania Interceptor.

Reporting Period Activity: Many projects are currently ongoing such as: Dix Road Area Building Inspections; West Side SSES; Horn Pond Hydraulic Modeling; Public Education Program related to the Private Inflow Removal Program

MWRA I/I Local Financial Assistance Program: The community has financed five (5) I/I reduction projects through the Authority's funding assistance program. Of the \$4,302,500 allotted through the Program's Phases 1-5, the community has \$980,000 remaining in funding assistance.

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