

Wastewater Meter Upgrade Program

*RJN installed 220
wastewater flow
meters*

The Massachusetts Water Resource Authority (MWRA) is a Public Authority established by an act of the Legislature to provide wholesale water and sewer services to 2.5 million people and more than 5,500 large industrial users in 61 Metropolitan Boston communities.

The primary purpose of the Wastewater Metering Program is to quantify wastewater flows from each of the 43 MWRA sewer service member communities for use in the formulation of wholesale rates. Other uses of the data include collection and treatment system analysis and planning, and infiltration and inflow (I/I) quantification.

The Authority retained RJN Group, Inc. to provide the installation of approximately 220 wastewater flow meters in over 43 communities in and around Boston. These flow meters are responsible for generating sewer bills for these communities in excess of \$500 million per year.

The services performed by RJN included:

- Program management
- Flow meter selection
- Installation
- Hardware / software implementation
- Implementation of wireless telemetry installations
- Conversion of old data to new database
- Certification of installations

In completion of the project, RJN helped the Authority to:

- Optimize the accuracy, reliability, and maintainability of the flow meters, as well as minimize confined space entries for meter maintenance, and thus, minimize employee safety concerns
- Minimize corrective maintenance by taking advantage of technological advances in the industry
- Upgrade and replace the data collection and processing function with a new Windows-based operating system that utilizes an ODBC compliant enterprise level database
- Upgrade the existing voice-grade telemetry to wireless technology
- Access the new metering system on a real time basis
- Improve customer service and data access to internal and external customers

