

# Municipality in the State of Massachusetts

## One of the First, Perchlorate Contamination Treatment System for Public Drinking Water Supply in the Northeast

In 2005, Siemens Water Technologies, formerly USFilter, received an award from a Massachusetts municipal water supplier to provide the first, full-scale perchlorate removal ion exchange system to be installed in the eastern US.

The water company owns and operates two wells located on the Blackstone River. In a statewide survey of municipal wells, two wells in question were found to have perchlorate concentration levels averaging 15 and 46 ppb (respectively) which exceeded the State of Massachusetts Department of Environmental Protection (MA DEP) Public Health Goal limits of non-detectable levels (<1 ppb) in the effluent. The Siemens treatment system features single-use ion exchange technology and treats up to 1500 gpm of perchlorate contaminated groundwater from the two wells. These single-use resins are highly selective for perchlorate, and complete destruction of the perchlorate ion can be accomplished through incineration of the spent resin.

## Significant Accomplishments

The use of perchlorate selective resins has been found to significantly reduce the operational costs associated with ion exchange.

The Siemens solution enabled the water provider, to use two wells which had formerly been closed. The City was able to meet the MA DEP perchlorate effluent limits and also eliminated the requirement to purchase water from a neighboring town.

Facility	Municipal drinking water
Application	Perchlorate contamination
Technology	Ion Exchange
Scope of Services	System evaluation Operation Maintenance Service
Start Date	June 2005

*Ion exchange vessels treating 1500 gpm*





Siemens Water Technologies North America Service Network

### North America Service Network

Our North America service network is backed by more than 80 offices staffed with certified technicians and applications experts who can solve your problems. In addition, Siemens Water Technologies provides response flexibility through either a lease or capital purchase option, and the company offers assured liability protection through environmentally safe waste destruction.

### Services Available

- Activated carbon supply, removal and reactivation services
- Filter media supply and removal
- Ion exchange resin supply
- Membrane supply and cleaning programs
- Parts and expendables
- Service contracts
- Temporary/emergency water systems

### Technologies Available

- Reverse Osmosis (RO) membrane filtration
- Conventional clarification and filtration
- Oil/Water separation
- Granular activated carbon adsorption
- Demineralization
- Inorganic metals removal
- Chemical addition

Siemens Water Technologies delivers cost-effective, reliable systems guaranteed for quality, safety, and compliance. Our trained service staff is available to make sure your systems is running at peak performance and to your specification. For your water treatment system, choose the partner that is committed to taking care of the world's water...and yours.

Siemens  
Water Technologies  
2430 Rose Place  
Roseville, MN 55113  
800.525.0658 phone

© 2009 Siemens Water Technologies Corp.  
ES-COFMILdr-PP-0809  
Subject to change without prior notice.

The information provided in this literature contains merely general descriptions or characteristics of performance which in actual case of use do not always apply as described or which may change as a result of further development of the products. An obligation to provide the respective characteristics shall only exist if expressly agreed in the terms of the contract.