

## Wastewater Reuse

# MILLENNIUM TOWER RESIDENCES

### NEW YORK, NEW YORK

**Green solution for luxury high-rise creates efficient water use**

**Project:** On-site Wastewater Treatment and Recycling Facility

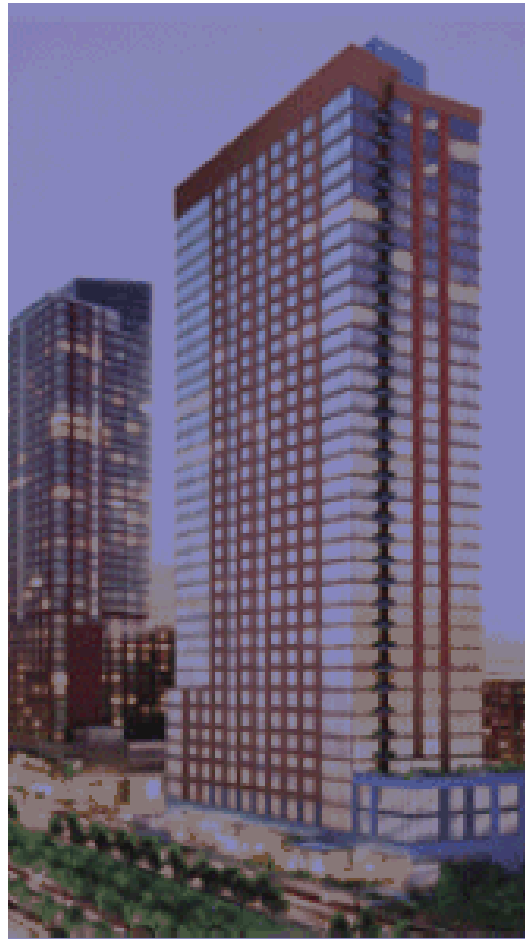
**Project Type:** Design, Procure, Construction Oversight, Operations

**Project Timeline:** Contract awarded in 2005, Construction completed in 2007

#### Project Details

Battery Park City is an area adjacent to the main financial district on the south end of New York City where many high-rise apartment buildings are currently being built. The Applied Water Management Group project provides wastewater treatment and recycling to a new 236-unit condominium building. This is the third building in Battery Park City to provide reuse water in an urban environment. The treatment plant utilizes an advanced membrane bioreactor system to separate water from the waste providing a high quality effluent. This is reused to flush toilets, make up cooling tower water and for landscape irrigation. The Millennium Tower Residences plans on achieving a Gold LEED rating (Leadership in Energy & Environmental Development).

The recycling plant process comprises anoxic and aerobic treatment to remove both biological oxygen demand (BOD) and nitrogen to New York direct reuse standards; submerged, hollow fibre micro-filtration membranes to remove suspended solids;



treatment with ultra-violet light to kill pathogenic bacteria; and ozone for removal of color. Return pipe work recycles water to toilet facilities, a cooling tower and landscape irrigation system.

Applied Water Management Group operates the facility to ensure continued efficient operation that meets New York direct reuse standards. The facility serves 236 units and is serviced bi-weekly.



AMERICAN WATER

**Population Served:**  
236 residential units

**Technology Applied:**  
The treatment plant utilizes an advanced membrane bioreactor system to separate water from the waste providing a high quality effluent.

**Operations:**  
Applied Water Management Group operates the facility to ensure continued efficient operation that meets New York direct reuse standards. The facility is serviced bi-weekly.

### CONTACT

**Applied Water Management Group**

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To learn more about American Water, visit [www.amwater.com](http://www.amwater.com)

