

NYC Noise Control and Monitoring for MED-609 Water Main

Client:

Waterworks JV

Location:

New York City, NY

Service Provided:

- Noise monitoring

Value Provided:

- Automated versus manual monitoring saved the owner an estimated \$150,000
- Real-time noise monitoring that exceeds the requirements of the specifications without incurring additional costs

Background & Project Challenges

The New York City Department of Design and Construction (DDC) has been working to restore and repair New York City's aging water distribution system. In doing so, the DDC is constructing a new water tunnel, City Tunnel No. 3. The W. 60th Street project is one of eleven such planned projects in Manhattan

that will connect new shaft distribution chambers to Tunnel No. 3. Geocomp is working with Waterworks JV who is responsible for the installation and connection of the water mains to provide noise control and monitoring. Challenging the Geocomp team was developing a noise control and monitoring plan that not only accounted for all construction-related noise, but that also was sensitive to the needs of residents.



Geocomp Role & Accomplishments

Geocomp has a 5-year contract to provide noise control and monitoring as part of the reconstruction work that the DDC is conducting to rehabilitate New York City's water distribution system. Serving as the noise control specialist for Waterworks JV, Geocomp has developed a site specific noise control and monitoring plan that integrates our web-based *iSiteCentral*TM database for real-time monitoring with our expertise in noise monitoring. Geocomp has designed and installed an automated monitoring system that will monitor indoor and outdoor noise at four construction sites.

This project consists of the construction and installation of various size water mains (48-inch, 36-inch, 20-inch, and 12-inch) for connection to Water Tunnel No. 3. As part of the noise control and monitoring plan, Geocomp performed equipment noise certifications and installed our SMLS-800 automated noise meters for remote construction noise monitoring. Through the use of Geocomp's *iSiteCentral*TM database, we are able to monitor noise meters and relay real-time data via the web for informed decision making. Additionally, Geocomp trained the Waterworks JV staff to perform manual handheld noise monitoring. With both noise meters and traditional handheld monitoring in place, Waterworks JV was able to conduct work without causing disturbance to area residents, avoiding possible noise complaints.