

## WATER FILTERS INSTALLATION IN 221 WEST 77<sup>TH</sup> STREET, NEW YORK

**NY Building Systems Consultant Inc. (NYBSC)** was awarded for the engineering design of 221 West 77<sup>th</sup> Street water filters installation design. This is a Mixed Residential and Commercial Building.

### BUILDING PROFILE

Address: 221 West 77<sup>th</sup> St, New York  
Square Foot: 73,809  
Type: Residential and Commercial  
Owner: Naftali Group

### NYBSC SERVICES

- Design for Water Filters Installation

### PROJECT SUMMARY

- Review the water testing report and coordinate with Manufacturer for proper water filters specification.
- Design the new water filters installation.



### Reason of Water Filters Installation:

The building tenants are complaining about water discolor issue. After water testing report analysis, two contaminate did stand out which were **Turbidity** and **elevated copper**.

Turbidity can be removed with sediment filtration. NYBSC design for those filters.

The **elevated copper** will most likely be from electrolysis within the plumbing. A Galvanic corrosion that is caused by self-induced current created by electrical potential of two dissimilar metals in contact with an electrolyte. It can occur when two dissimilar metals (such as copper tube and steel pipe) are connected in the presence of an electrolyte. This can also be caused by cable, and security alarms hooked to the plumbing for a ground. Other symptoms of electrolysis are: pin holes in structure of the plumbing, blue/green