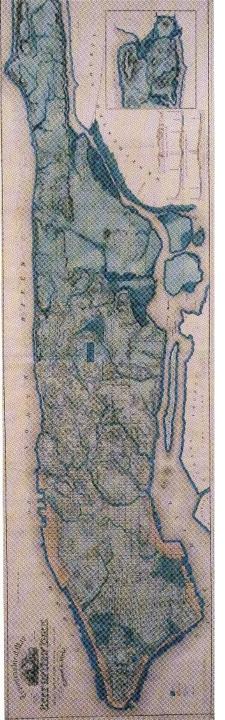
NEWYORK WATER SYSTEM





HISTORY

NEW YORK CITY'S WATER IS RENOWNED FOR ITS ABUNDANCE AND ITS PURITY. BOTH ARE PRODUCTS OF THE INTRICATE SYSTEM OF DAMS, RESERVOIRS, TUNNELS, AND AQUEDUCTS THAT CARRY 1.3 BILLION GALLONS OF WATER EACH DAY FROM PROTECTED WATERSHED AREAS IN UPSTATE NEW YORK TO RESIDENTS OF THE FIVE BOROUGHS. THE SYSTEM ALSO SUPPLIES, EN ROUTE, ANOTHER 100 MILLION WATER GALLONS OF WATER DAILY TO OVER A MILLION CUSTOMERS IN NEIGHBORING COUNTIES. NEW YORK'S WATER WASN'T ALWAYS SO CLEANER SO PLENTIFUL.

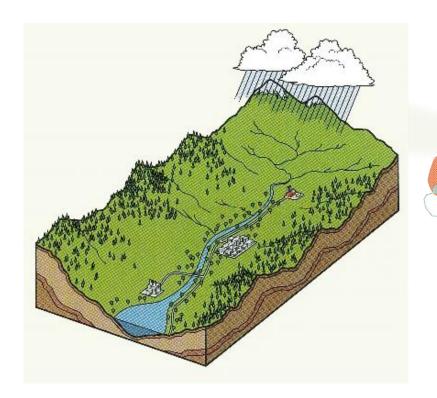


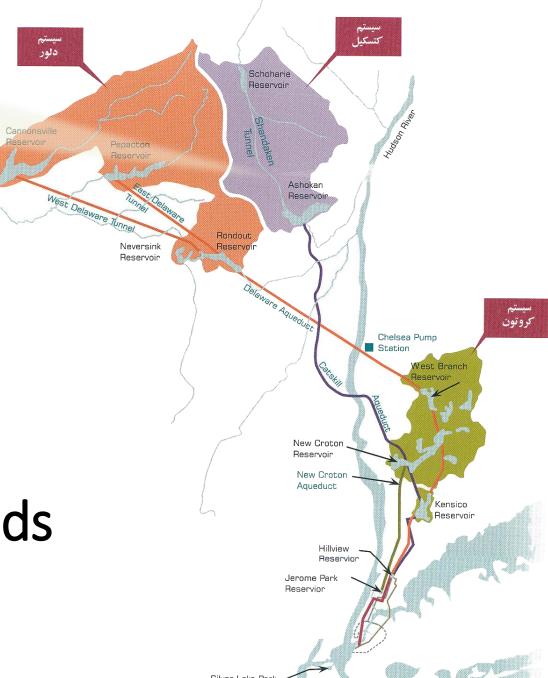






- Croton system
- Catskill system
- Delaware system





(Underground Storage Tanks)

Aqueducts and watersheds

Lake reservoir

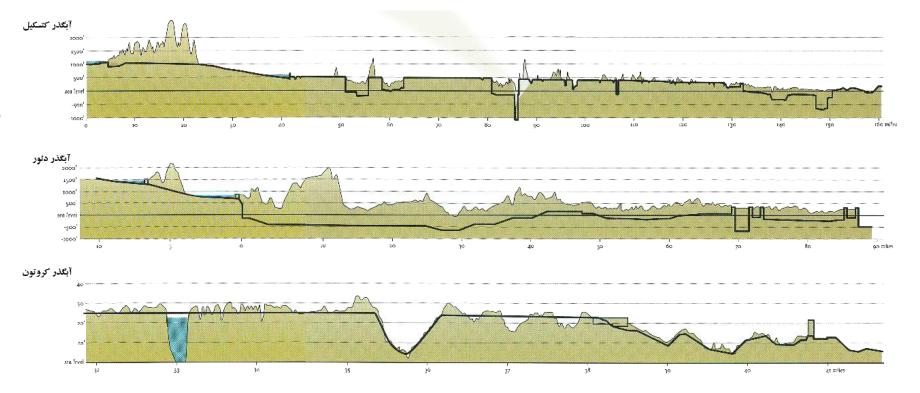


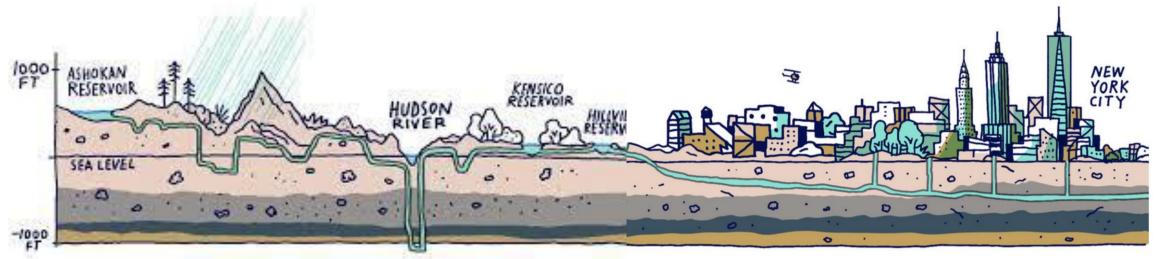
Catskill under the Hudson river



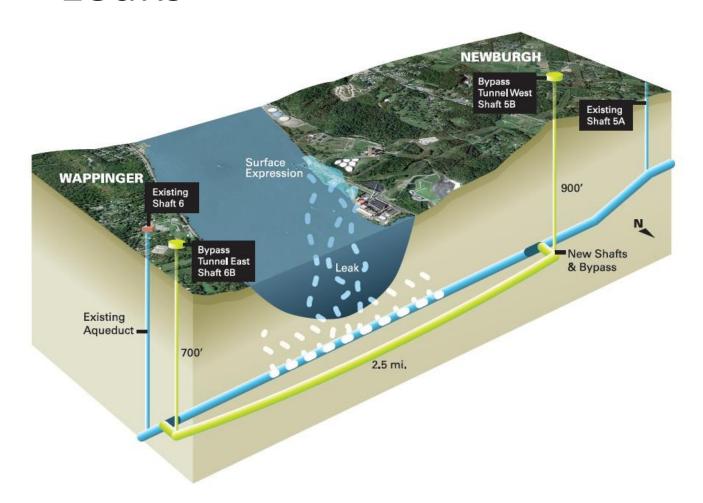
Old Croton reservoir

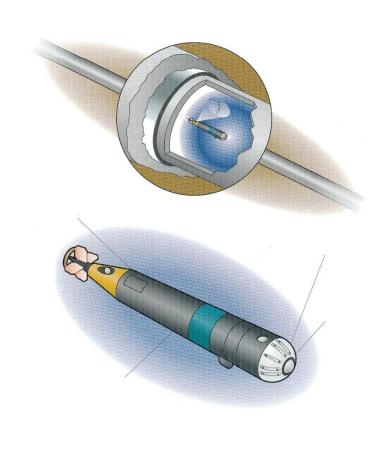
- Profile
- Geographical pressure





Leaks





Delaware aqueduct

Tunnel inspection robot

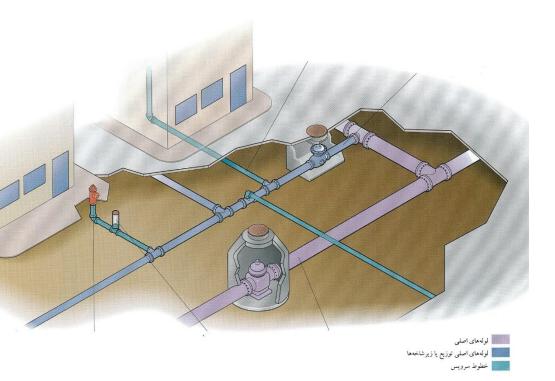
Delaware aqueduct bypass tunnel



NEW YORK CITY WATER AND WASTEWATER RATE REPORT – FY 2020 MAY 2019

Distribution

- Water tunnels1,2
- pipes



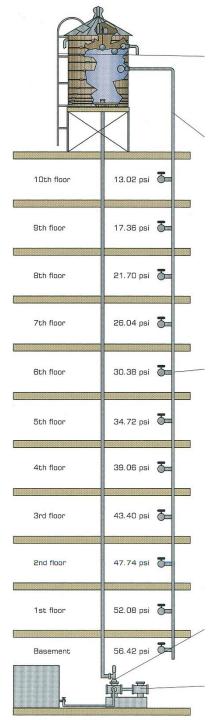


Distribution

- Water tunnels1,2
- Water tunnel 3



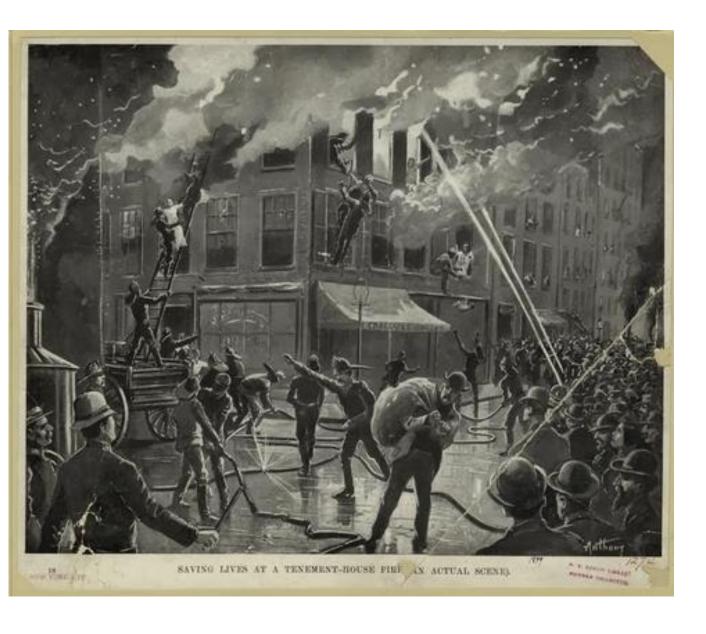




Water Pressure

- Regulators
- Water tanks
- Valve chambers





hydrants

- History
- Plug uglies
- regulations





The Modern Hydrant

A custodial lock, a muffin-shaped cap on top of the hydrant, covers the top of the main valve and closes off the water main feeding the hydrant. The new locks have a raised "x" on top.

Hydrants are generally painted yellow nationwide; however, any highly visible color of paint will do, including white, red, lime yellow, or silver.

The new hydrant locks can be opened only by firefighters. Tens of thousands have been installed to prevent tampering. Special spray caps, which limit water flow from 1,000 gallons a minute to 25, can still be secured from the Fire Department by applying in writing at local engine companies.

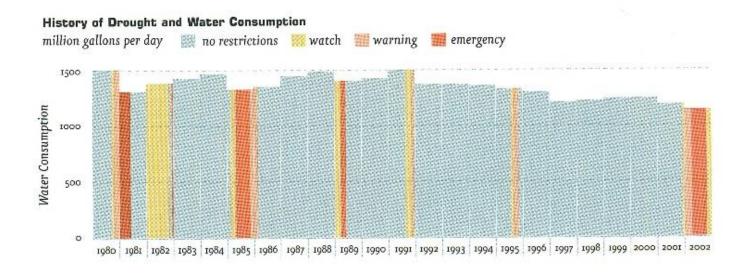




Water storage

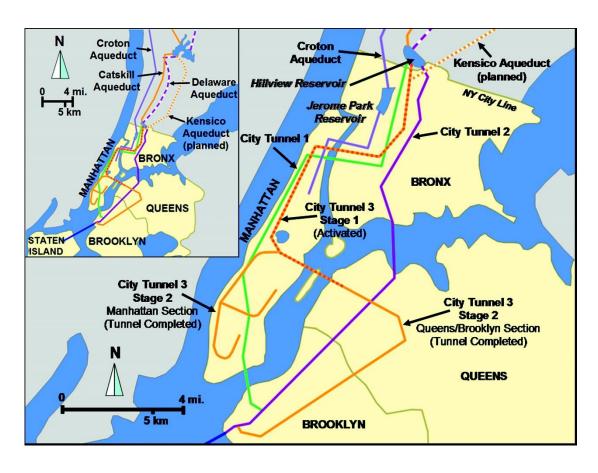
- Water shortage
- Silver lake
- Other solutions





Water tunnel No.3





Sandhogs



Sandhogs



Water treatment



- Chemicals
- Water sampling
- Filtration or protection

