The below illustration depicts the North Penn Water Authority's (NPWA) Water System as it moves water from its source to the customer's home or business. Raw water is pumped when needed from the Delaware River through the Point Pleasant Pump Station and discharged into the North Branch of the Neshaminy Creek. The source water is stored in Lake Galena, treated at the Forest Park Water Treatment Plant and then distributed to customers throughout portions of Bucks and Montgomery Counties.

When water reaches the surface, it undergoes treatment at the well site, including chlorination. Well houses are designed to fit unobtrusively into the neighborhoods in which they are located.

Water flows through miles of main to reach customers' homes and businesses. The system is constantly monitored to identify any potential issues to ensure customers receive the highest quality water possible. The Water Service Connection shows the components of the water service.

Water Service Connection

- **Basement Cutaway**
  - **Meter Transceiver Unit (MXU)**
    - This permits NPWA off-site meter readings via radio signal.
  - **Backflow Preventer**
    - Keeps water from being drawn out of home.
  - **Pressure Reducing Valve**
  - **Fire Hydrants**
  - **Copper Bonding Jumper**
  - **NPWA Water Main**
  - **Curb Stop**
    - Permits shut-off and turn on
  - **Type "K" Copper Service Line**
    - Size depends on user's requirements: 3/4" minimum
  - **Curb Box**
    - Allows access to Curb Stop
  - **Fire Hydrants**
    - Supplied with water from the transmission mains.

Water is held in storage tanks to be released as needed to the Authority's service area. Various types of tank designs are used for water storage. Large volumes of water held in storage are needed to meet daily and seasonal peak demands, and for fire protection.

The water main is buried 3 to 4 feet deep in the street to prevent the water from freezing in winter. A corporation (corp.) stop is connected directly to the water main. The corp. stop is a modified valve that allows NPWA to turn the water off at the water main in the event of a leak in the service line. The service line is attached to the corp. stop, and the service line runs to the property line where it is attached to a curb stop. The curb stop is another modified valve that can be used to shut off the service without digging up the area over the water main.

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