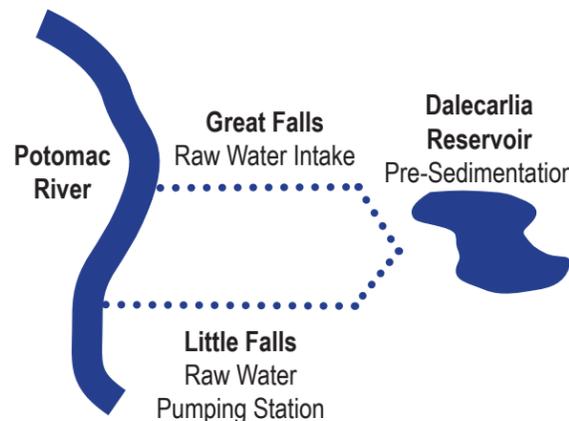


# Washington Aqueduct Water Treatment Process

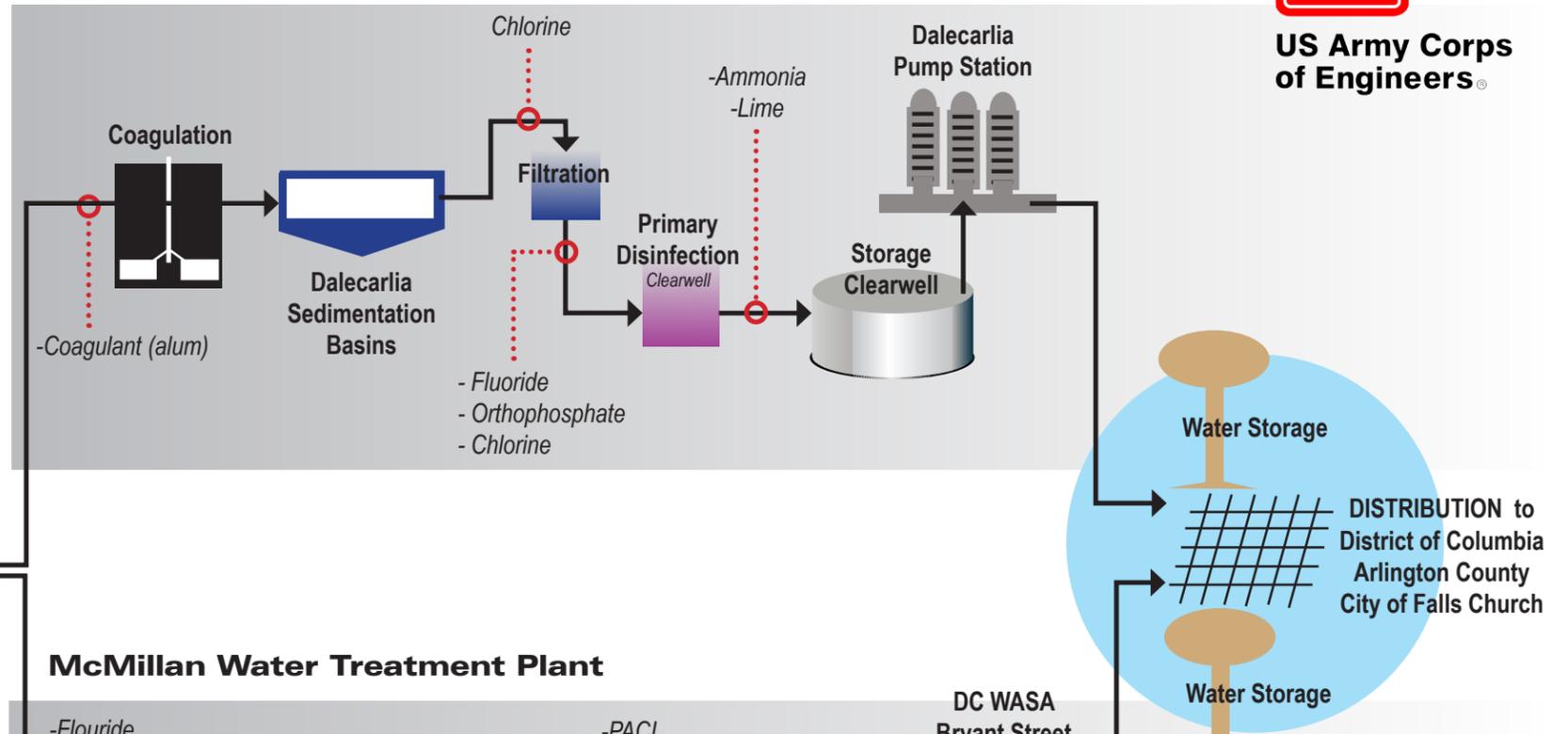
Washington Aqueduct operates two treatment plants, both located in the District of Columbia. The Dalecarlia Plant, located near the Potomac River on MacArthur Boulevard, has a capacity of 220 million gallons per day. The McMillan Plant is located in Northeast DC, and has a design capacity of 120 million gallons per day. Washington Aqueduct sells drinking water directly to three wholesale customers, including: District of Columbia Water and Sewer Authority (DCWASA), the City of Falls Church, and Arlington County. Combined, these utilities serve approximately 1 million customers.



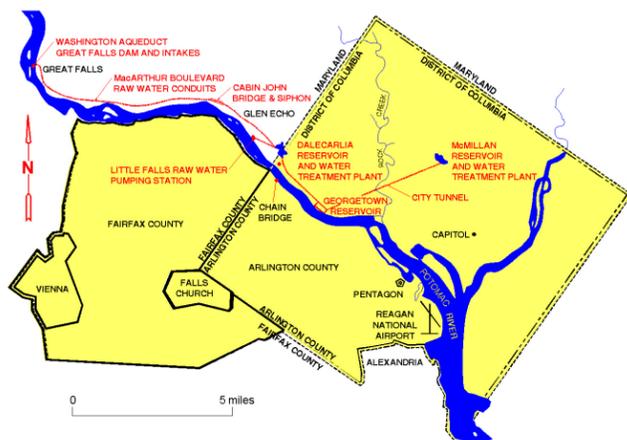
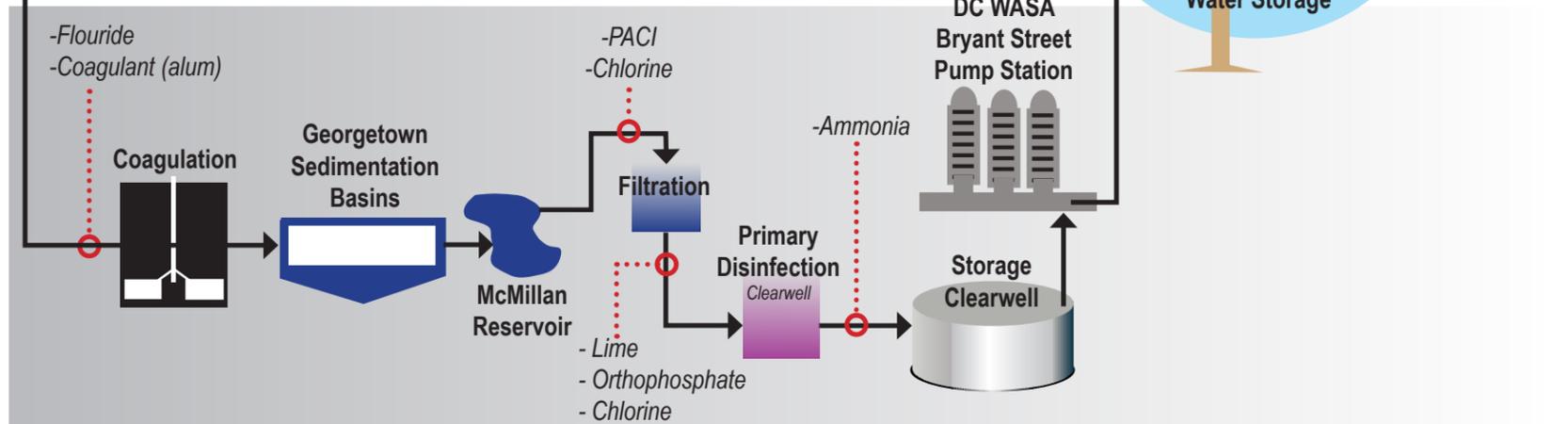
US Army Corps of Engineers®



## Dalecarlia Water Treatment Plant



## McMillan Water Treatment Plant



## Treatment Process

### Pre-Sedimentation

Allows large particles in untreated water to settle out naturally.

### Coagulation

Coagulants are added to the water to cause small particles to stick together when the water is mixed, making larger, heavier particles.

### Sedimentation

Allows newly formed larger particles to settle out.

### Filtration

Removes smaller particles by trapping them in sand/coal filters.

### Disinfection

Chlorine and ammonia are added to form chloramines.

### Other Chemicals added include:

- Lime to adjust the pH (the water's acidity) and orthophosphate to prevent corrosion.
- Fluoride at low levels to protect teeth (as recommended by the American Dental Association)
- Powder activated carbon (PAC) is added intermittently for taste and odor control.