Flow Diagram for the Wilmington Water Plant

Cowan Creek Dam

Burtonville Raw pumping Station

100 MG Reservoir

2.6 miles of 12” pipe

13 miles of 24” pipe

Caesar Creek Lake

Pump Control Station

Potassium Permanganate feed points

Rapid Mix Chamber

Carbon, Lime, and Alum feed points

Raw Booster Station

100 MG Reservoir

Flocculation

Basin Splitter Box

Sedimentation Basins

Recarbonation

Chlorine feed point

Filter Splitter Box

Filters 1

Ortho/polyphosphate feed points

Filters 2

Filter Effluent Chambers

High Service Pumps
1,500 GPM each

High Service Pump wells

To Distribution System

Clear Wells, Total Capacity of 1.385 MG

350 MG Reservoir