

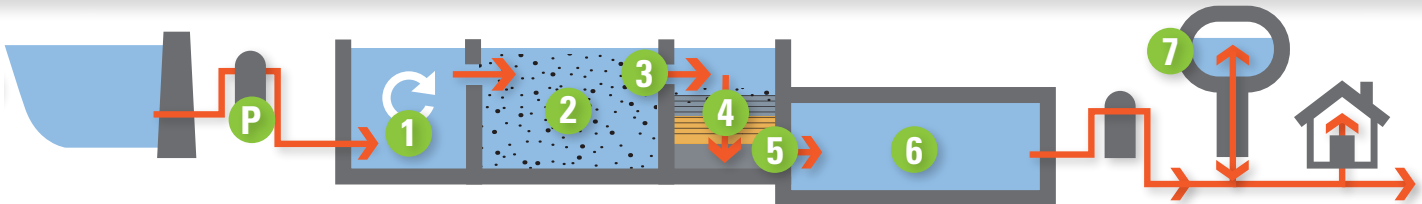


Drinking Water Treatment

Supply

Treatment

Distribution



1 Pump Station

Water from Lake Tillery is pumped to our Water Treatment Plant on Hydro Road west of Mt. Gilead

2 Mixing

When Water enters our plant, sodium hydroxide and alum sulfate are added to make solid particle combine with one another.

3 Clarification

As the particle combine, they get heavier. Water flows to settling basins where the flow of water is slowed and the particles have time to settle out

4 Disinfection

As water reaches the filters, chlorine is added for disinfection.

5 Filtration

Water flows down through filters with layers of sand and anthracite coal, where additional particles are removed.

6 Post Treatment

We add fluoride for dental health, and a pH adjustment chemical to ensure the acidity and alkalinity levels are at the correct levels

7 Clearwell

The treated water flows to a 1.0 million gallon clearwell located at the water treatment plant for temporary storage. Then it is pumped into the distribution system where a network of lines, pumps and tanks deliver the water throughout the county to our customers and to the Towns of Mt. Gilead, Troy, Biscoe, Candor, Star, and Robbins.

8 Water Tank

Elevated tanks help maintain the pressures in a need to deliver water to your tap. They also provide local storage to ensure water is available to meet peak demands and fight fires. These tanks are strategically located throughout our nearly 300 mile network of lines