

DRINKING WATER TREATMENT PLANT TOUR




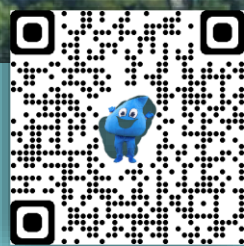
11 RESERVOIR
6 MILLION GALLONS

Facts about the plant

- Operated 24/7/365 since 1938
- Licensed operator in the building for 730,000 hours straight (and counting!)
- 85% Huron River, 15% well water
- 14,000,000 gallons is average daily flow
- Over 175,000 tests per year conducted on your water!

SOFTENING
DISINFECTION
FILTRATION

- Activity Center
- Lime added & mixed w/ raw water. Lime + Hardwater forms CaCO_3 solids.
- Flocculators mix particles. Particles collide and form BIGGER particles.
- Clarifiers allow for gravity to settle large particles for mineral removal.
- pH lowered with well water and/or CO_2 . Polymer added to bind more particles. Flocculation and clarification repeated.
- pH lowered with CO_2 to make ozone (O_3) disinfection more effective.
- Ozone DISINFECTION. Ozone destroys harmful microorganisms without chlorinated byproducts.
- pH raised with sodium hydroxide. Phosphate added to stop the softening reaction & precipitation of calcium carbonate in filter media.
- FILTRATION  granular activated carbon & sand
- Secondary Disinfection/Clearwell Chloramine (NH_2Cl) provides disinfectant residual for protection during travel through the distribution system. Fluoride is added for dental protection.
- STORAGE & DISTRIBUTION



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