# Water Quality Report & Water Treatment

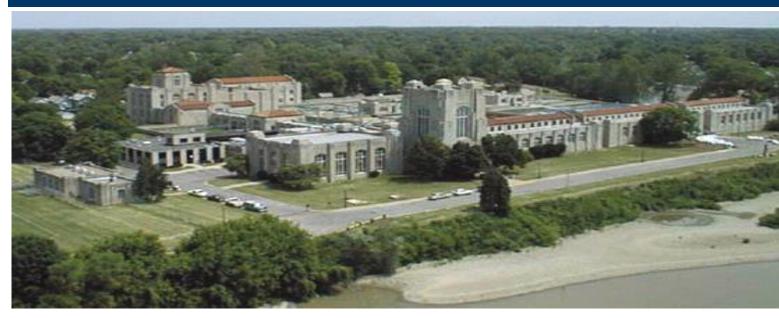


Victoria Jahn, Water Quality Supervisor Jason Anspach, Water Quality Supervisor

Utility Advisory Group - September 16, 2020

#### THREE RIVERS WATER FILTRATION PLANT







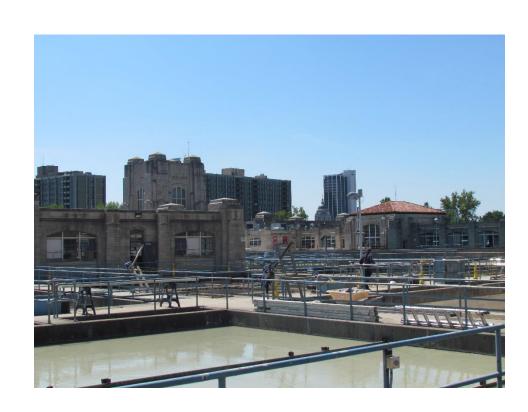




#### Plant History



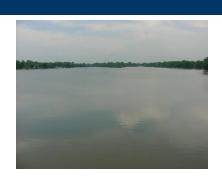
- Completed in 1933
- Water source is the St. Joseph River
- Original capacity of 24 million gallons per day
- Capacity increased to 48 million gallons per day in 1954
- Capacity increased to present capacity of 72 million gallons per day in 1981



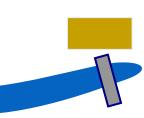
## Source of Supply



Hurshtown Reservoir



Cedarville Reservoir & Dam St. Joe Dam & Pumping Station





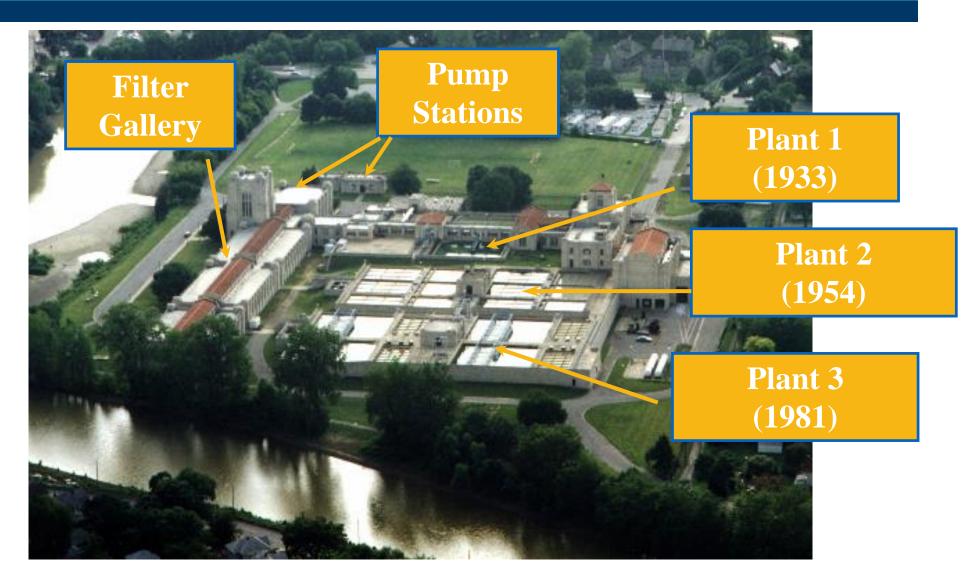
St. Joseph River





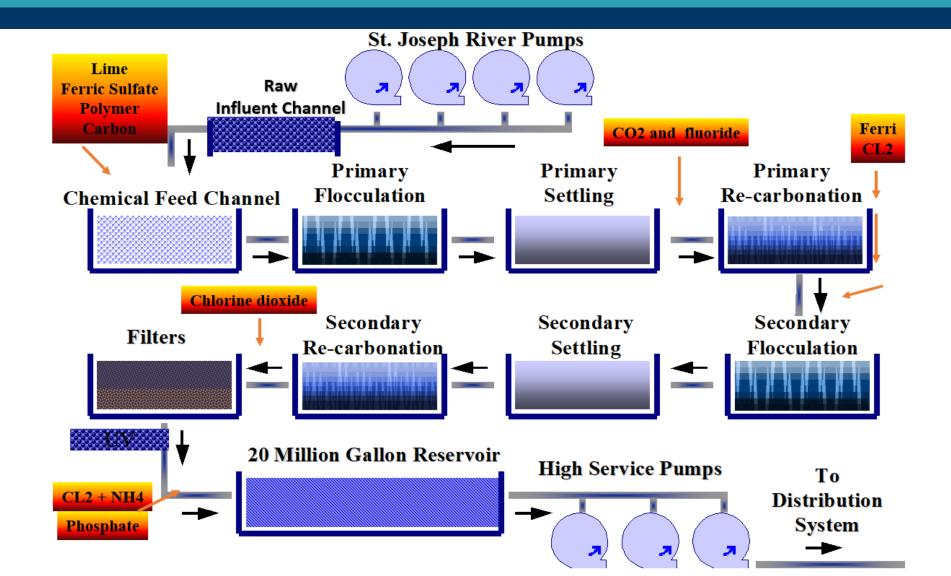
#### Treatment Plant - 1,000 ft. Tour





#### The Treatment Process

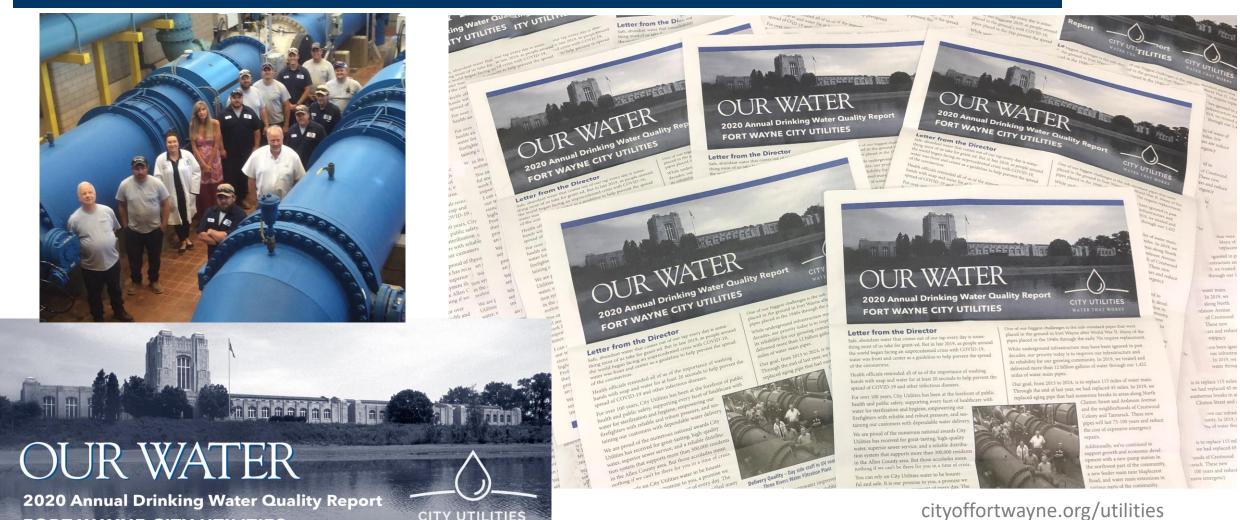




### Water Quality Report

FORT WAYNE CITY UTILITIES

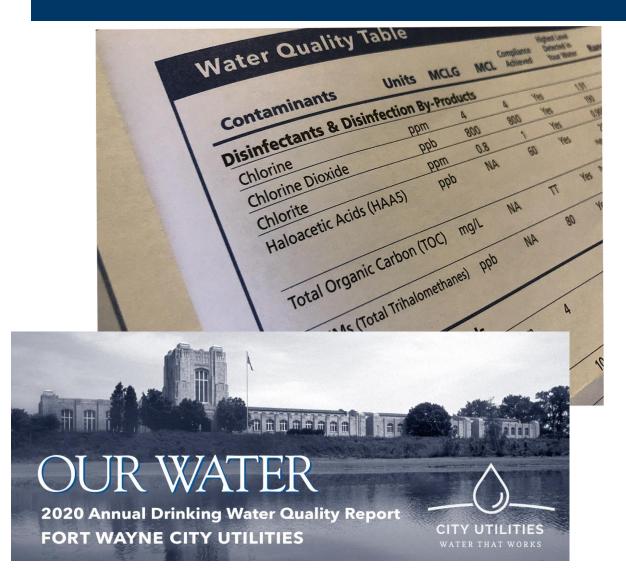


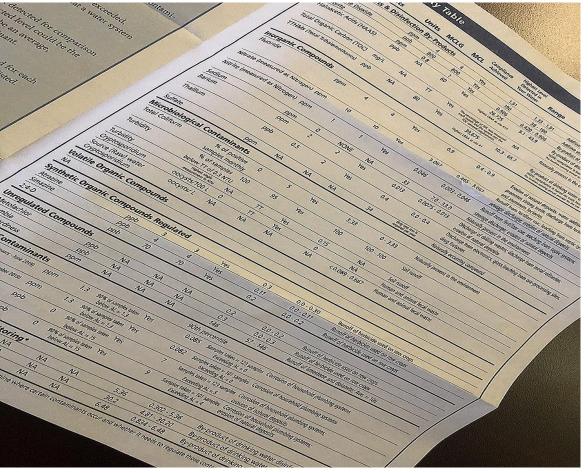


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#### Water Quality Report





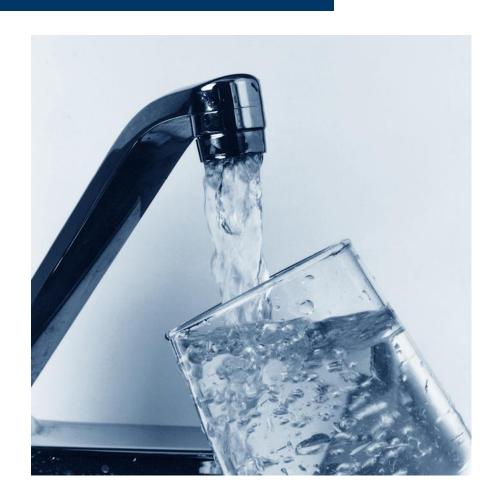


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#### Quality Control



- Bacteriological testing is performed on finished water every six hours
- Disinfectant residual is monitored continuously
- Finished water is tested for all regulated and non-regulated contaminants
- Approximately 160 samples are collected and analyzed from the distribution system monthly for disinfectant residual, fluoride and microbiological contaminants



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#### Quality Control Security Upgrades





- Plant gates closed all times
- Security monitoring system installed
- Improved internal procedures

### Quality Control Technology Upgrades



- Supervisory Control and Data Acquisition (SCADA)
  - Created central pressure zone assist mode
  - When a low-pressure event is detected at the plant, the outlying distribution system changes to supply water to the central pressure zone
- SCADA controls the flow-pacing of orthophosphate feed system to enhance corrosion control



## Questions











