

Capital Program Update - Fairfield, CT

June 20, 2022



“Aquarion is committed to providing our customers with safe, high quality water and excellent customer service.”



Agenda

1. Introduction of Engineering and Planning at Aquarion
2. Water Distribution
3. Water Storage
4. Regulators
5. Pumping
6. Water Treatment
7. Dam
8. ISO Reporting and Documentation

Introduction – Engineering and Planning

– Utility Programs

- Water Main Replacement
- Cleaning and Lining
- Relocations
- Developer Extensions

– Capital Delivery

- Pump Stations
- Treatment
- Water Storage Tanks
- Regulators
- Large Water Mains

– Planning

- Water Supply
- Infrastructure
- ISO Coordination
- Dams
- New Services

– GIS

- Maintenance of Water System Assets
- Mapping



Water Distribution

– 2022 Main Projects

- 1.9 miles of new & replacement main
 - Beaumont Street, Mill Hill Terrace, Sturgis Road, Old Mill Road, Rugby Road, Bronson Road, Cedar Road, Fields Rock Road, and Sherwood

– 2023 Projects

- 1 mile of new & replacement main
 - Fern Street, Quincy Street, Rowland Road



Water Storage

– Projects in Planning

- Replacement of Pine Street Tank – 2024/25
- Replacement of Fairchild Wheeler Tank – 2025/26
- Replacement of Greenfield Hill Tank – 2027/28



Regulators

– 2022 Projects

- Lucille Street 2021/2022
- Bronson Road 2022
- Suburban Avenue 2022

– Future Projects

- Morehouse Highway



Pumping

– 2022/2023 Projects

- Tunxis Hill Pump Station – 2022/23 Construction
- Jefferson Street Pump Station – 2023/24 Construction

– Future Projects

- Hemlocks 423 & 3-1 Pump Station Construction



Water Treatment

– 2022/2023 Projects

- Hemlocks Fluoride Feed & Storage Improvements 2022/23
- Hemlocks Phosphate Feed & Storage Improvements 2022/23

– Future Projects

- Hemlocks Process Piping Supports & Coatings
- Hemlocks Treatment Improvements
- Hemlocks Polymer Feed & Storage Improvements
- Hemlocks Hypo Feed & Storage Improvements



Dams

– Hemlocks Dam

- 2021/2022 – Design, Permitting and Bidding
- 2023/2024 – Construction

– Easton Dam

- 2021/2022 – Design, Permitting and Bidding
- 2024/2025 – Construction



Fire Flow Mapping

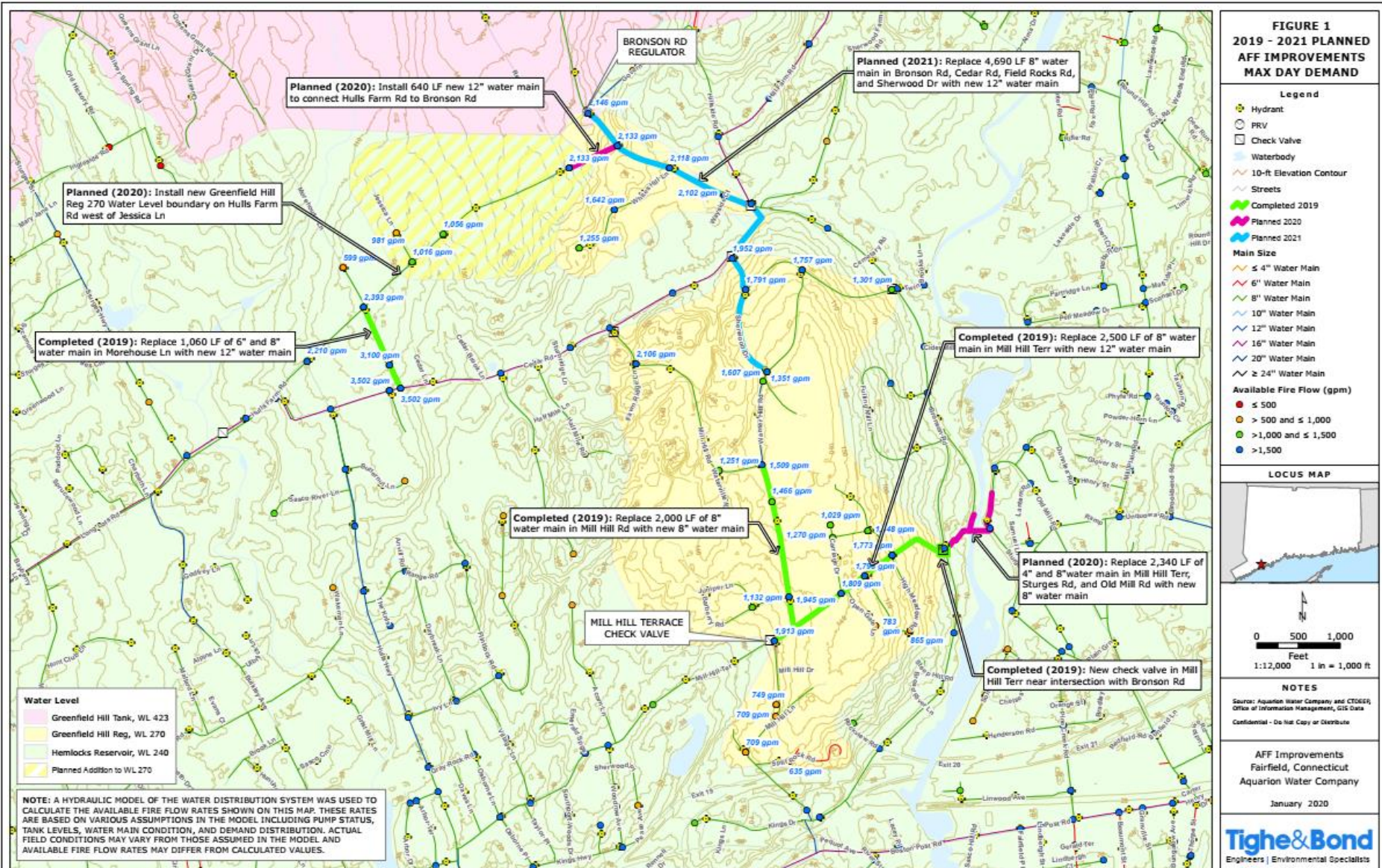


NFPA Color Coding on Mapping

- Red < 500 gpm
- Orange > 500 gpm and < 1000 gpm
- Green > 1,000 gpm and < 1,500 gpm
- Blue > 1,500 gpm



Fire Flow Improvement Plan



ISO Documentation

- ISO Locations in Community
- Fire Flow Test Results
- Water System Improvement Summary
- Water Supply and Demands by Water Level
- Customers per Water Level
- Water System Demand for the Town
- Hydrant Maintenance
- May 2020 ISO Submission

