



BOROUGH OF
WALDWICK *New Jersey*

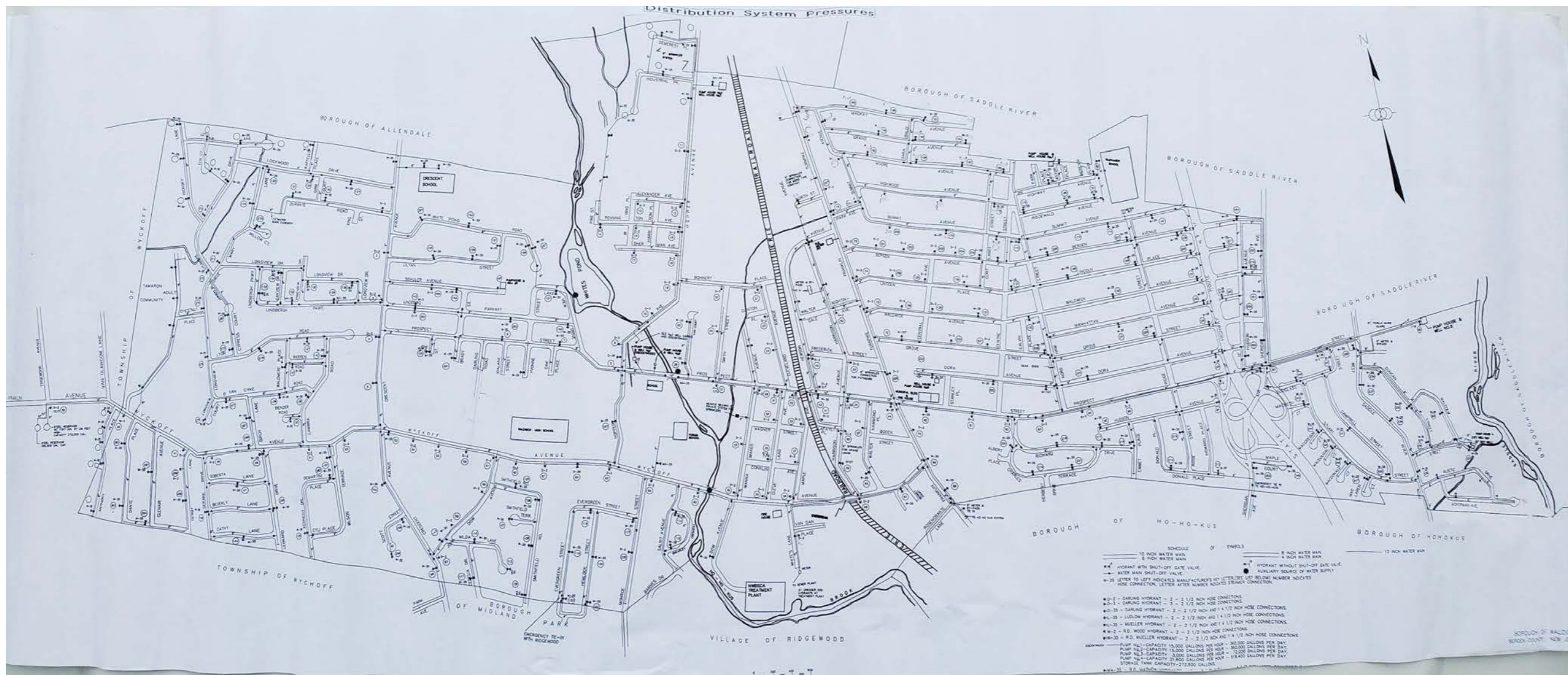
Drinking Water Quality Discussion
March 10, 2021



architects + engineers
practical approach. creative results.

BOSWELL **ENGINEERING**

WALDWICK WATER SYSTEM



WHERE DOES THE WATER COME FROM?

100% of Waldwick's drinking water comes from six (6) wells, which are owned and maintained by the Borough.

Population served – 9,573

WATER SYSTEM COMPONENTS

- Supply – 6 wells
- Treatment - Packed Towers, Chlorination
- Storage – Water Storage Tanks
- Distribution
- Metering
- Testing and reporting

REGULATORY BACKGROUND

- Safe Drinking Water Act – passed by Congress in 1974 and amended in 1986 and 1996
- Currently, over 90 compounds with Federal (EPA) limits for community water systems, such as Waldwick
- The EPA requires monitoring for a list of unregulated compounds approximately every five (5) years for systems with more than 10,000 customers
- These results are used to determine if additional limits are needed
- The New Jersey Department of Environmental Protection has additional limits for compounds in drinking water

PFAS COMPOUNDS

- PFAS compounds include Perfluoronanoic Acid (PFNA), Perfluorooctanesulfonic Acid (PFOS) and Perfluorotanoic Acid (PFOA).
- PFAS do not occur naturally and do not break down in the environment. These man-made chemicals have been used for carpets, clothing, fire fighting foam and coatings that are resistant to water, grease and/or stains.

CURRENT NJDEP REGULATIONS

- PFNA MCL is 13 ppt adopted Sept 4, 2018
- PFOA MCL is 14 ppt adopted June 1, 2020
- PFOS MCL is 13 ppt adopted June 1, 2020

WALDWICK WATER TESTING – ACTIVE WELLS

- NJDEP first required monitoring of PFNA in the first quarter of 2019. Monitoring of PFOA and PFOS were required in the first quarter of 2021.
- On January 18, 2021, samples were collected at each of the active wells.
- On February 9, 2021, the Borough received a notice that one of the samples collected, exceeded the maximum contaminant level (MCL) for PFOS. The New Jersey standard for PFOS is 0.013 $\mu\text{g}/\text{L}$, and PFOS at the one well was found at 0.084 $\mu\text{g}/\text{L}$. While compliance with the standard is based on a running annual average (RAA), the average of quarterly testing over the period of one year, this test result would cause the RAA to exceed the MCL regardless of the next three quarter results.
- Once an MCL violation is exceeded we must take corrective action within one year of the violation.

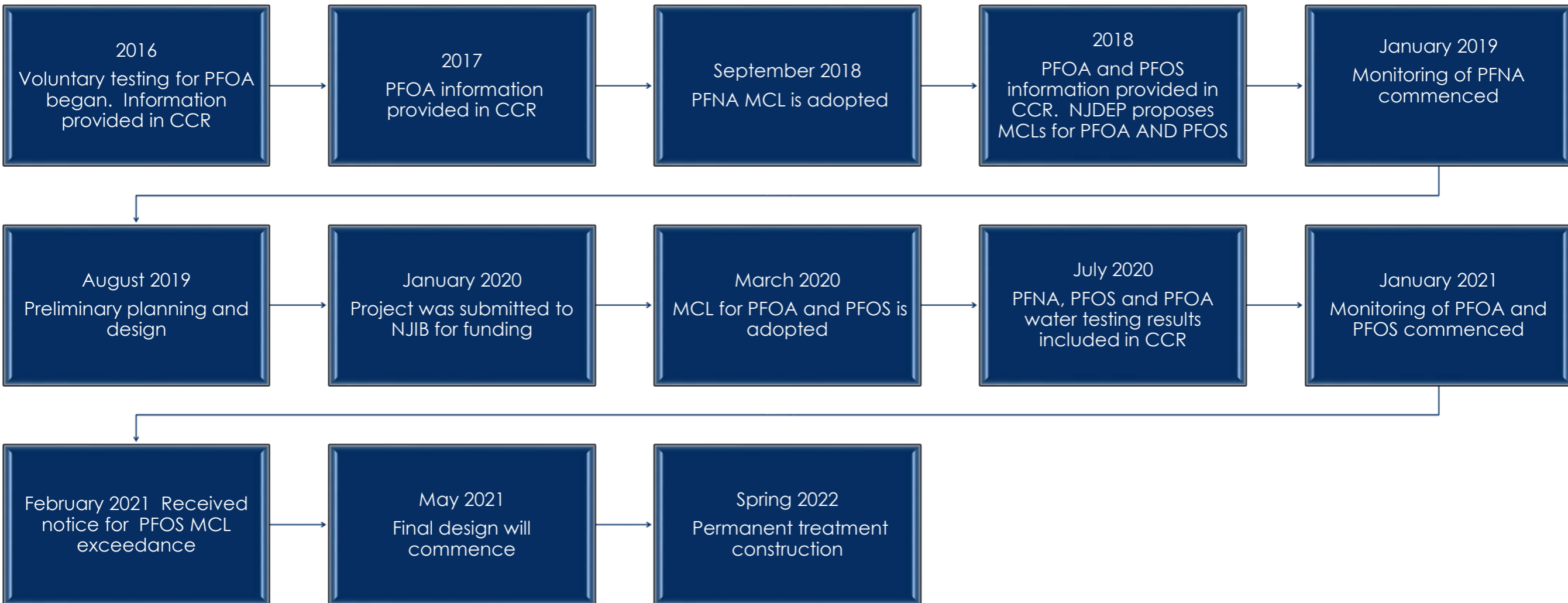
TREATMENT OPTIONS

- Granular Activated Carbon
- Ion Exchange Treatment
- High pressure Membranes – Nanofiltration or Reverse Osmosis

ACTION PLAN

1. Continue quarterly testing of the wells
2. Install temporary treatment
3. Secure funding for treatment
4. Design/permit selected treatment option
5. Implement construction of treatment system
6. Monitor/report water quality test results to verify successful treatment implementation

TIMELINE



STAY INFORMED

Notifications about a change in the status of Well 2 and Well 6 would be made to the public via our email Resident Notification System. Residents can register for this email alert on the page linked here -

<https://local.nixle.com/signup/widget/i/2187/>

Borough of Waldwick Website > Residents >
Resident Notification System

RESOURCES

- Borough of Waldwick Website – Government > Departments > Water Department > PFAS
- New Jersey Department of Health
- United States Environmental Protection Agency
- United States Centers for Disease Control and Prevention
- Health care professionals

QUESTIONS?

