

Bedford Village Water Districts
Source of Supply and Water Quality Update
November 2021

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Bedford Village Water Districts Background Information

The Farms

- 85 residential customers
- Two wells, air stripping treatment, chlorination

Old Post Road

- 68 residential and commercial customers
- Obtains supply from The Farms

System demand during summer months is almost equal to available supply from the lower producing well

The Town began evaluating locations for an additional independent well in 2020

2021 Emerging Contaminant Sampling

The Town was required to sample for Perfluorooctane Sulfonate (PFOS) and Perfluorooctanoic Acid (PFOA) in the first quarter of 2021.

- These two compounds were regulated by New York State Department of Health in 2020
- They have been released to the environment through industrial manufacturing and through use and disposal of PFAS-containing products and are found in soil, air and groundwater at sites across the United States

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Emerging Contaminant Sampling (continued)

- Results showed that Farms Well 2 exceeded the NY maximum contaminant level (MCL) of 10 parts per trillion for PFOA and PFOS. The most recent quarterly results are PFOA (17.9) and PFOS (12.8). The MCL is set well below levels known or estimated to cause health effects. According to NYS, consuming drinking water with PFOA and PFOS at or somewhat above the MCL does not pose a significant health risk.
- Farms Well 1 results have been below the MCL, although close to it.
- District now only utilizes Farms Well 2 when required for regulatory sampling or if Well 1 is out of service due to equipment issues, which is quite infrequent.

Current PFOS and PFOA Mitigation Status

- Evaluating providing treatment for PFOS and PFOA removal as well as replacing the existing wells with two new wells:
 - Treatment can be achieved with activated carbon or ion exchange media. Either would require a new treatment building and additional pumping equipment, as well as periodic cost to replace treatment media. Preliminary estimated average cost is \$600/year per customer. There is concern about other contaminants, particularly chloride, in the densely populated area surrounding the existing wells.
 - A new source of supply consisting of two wells is being explored on property owned by the Westchester Land Trust. There is an aquifer below the property with reasonable yield and good water quality. Challenges include the need for easements from two property owners and uncertainty about groundwater quality and quantity until test wells are installed. Preliminary estimated average cost is \$550/year per customer.

Next Steps

- Assuming the Town intends to proceed with the new wells, Westchester County Department of Health (DOH) requires that the Town proceed with both paths (treatment and new wells), so that if the new wells are not feasible treatment can be implemented.
 - For treatment at the existing supply location, the Town will obtain DOH approval for and implement a pilot ion exchange media demonstration. Ion exchange is less expensive than activated carbon, and DOH requires piloting to demonstrate the efficacy of this treatment.
 - For the new wells, document acceptable property rights to install the new wells and obtain DOH permits to install test wells to determine water quantity and quality available. Assuming favorable results, move forward with installing well pumps, water main, and treatment building.

Next Steps (continued)

- Apply for NYS Environmental Facilities Water Infrastructure Grant for the necessary capital improvements. Applications are due on November 22. If successful, the grant will pay for 60% of water infrastructure costs.
 - Bond resolutions, State Environmental Quality Review Act Determination, and Engineering Report required for application.
 - It is intended that the Board take action on these items and consider authorizing the grant submission on November 16