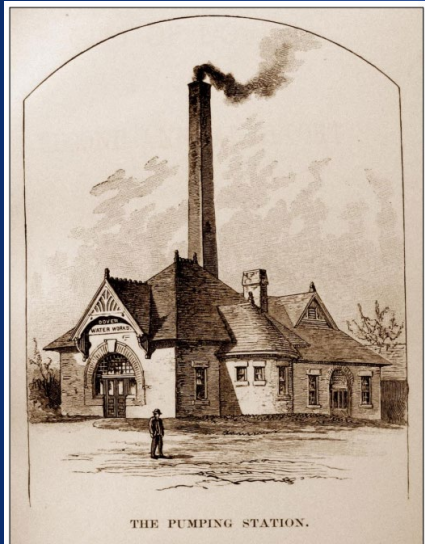


Dover Water Facility Improvements



City Council Workshop May 1, 2024

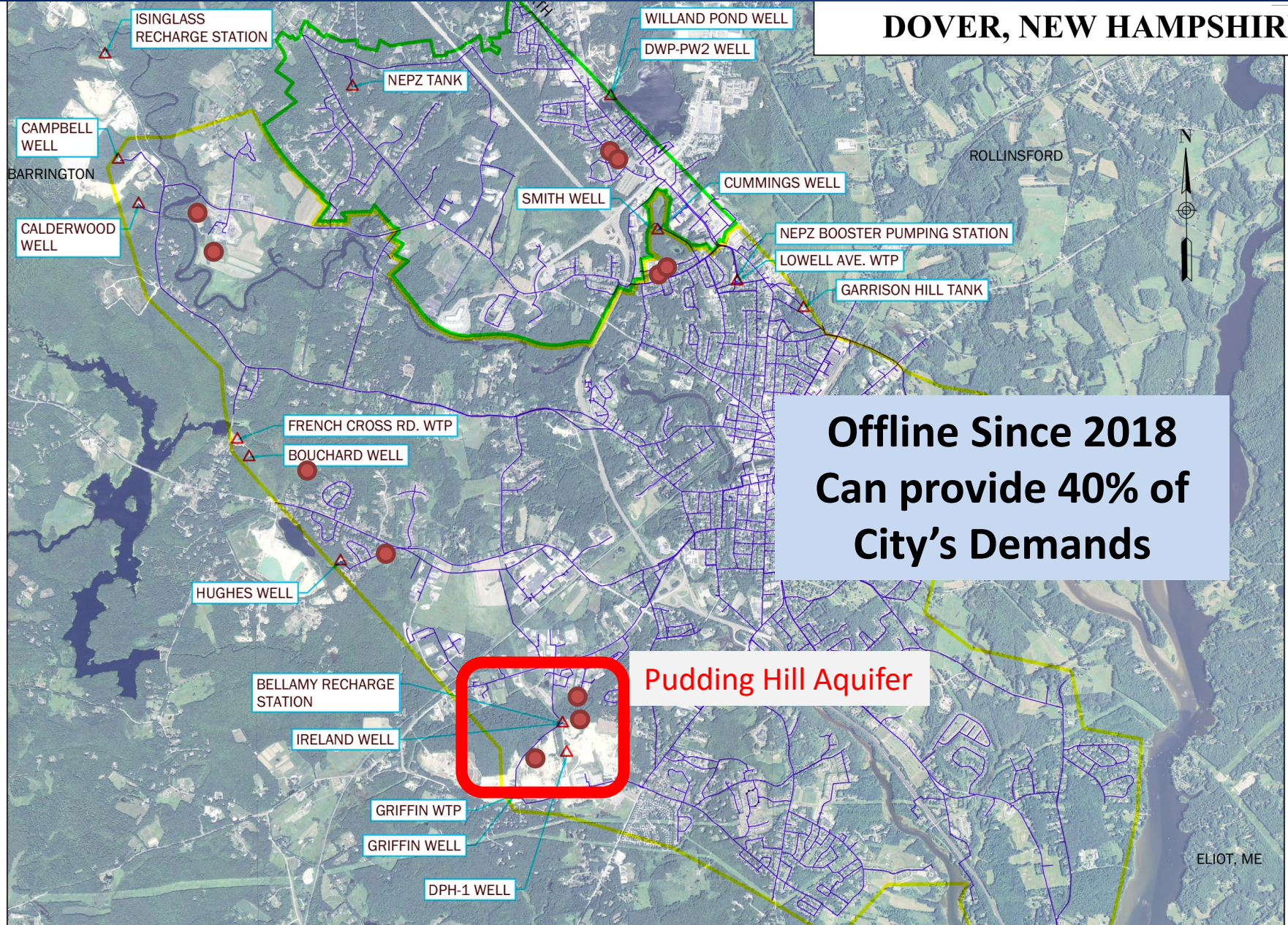
Tonight's Topics

Current and Future Projects

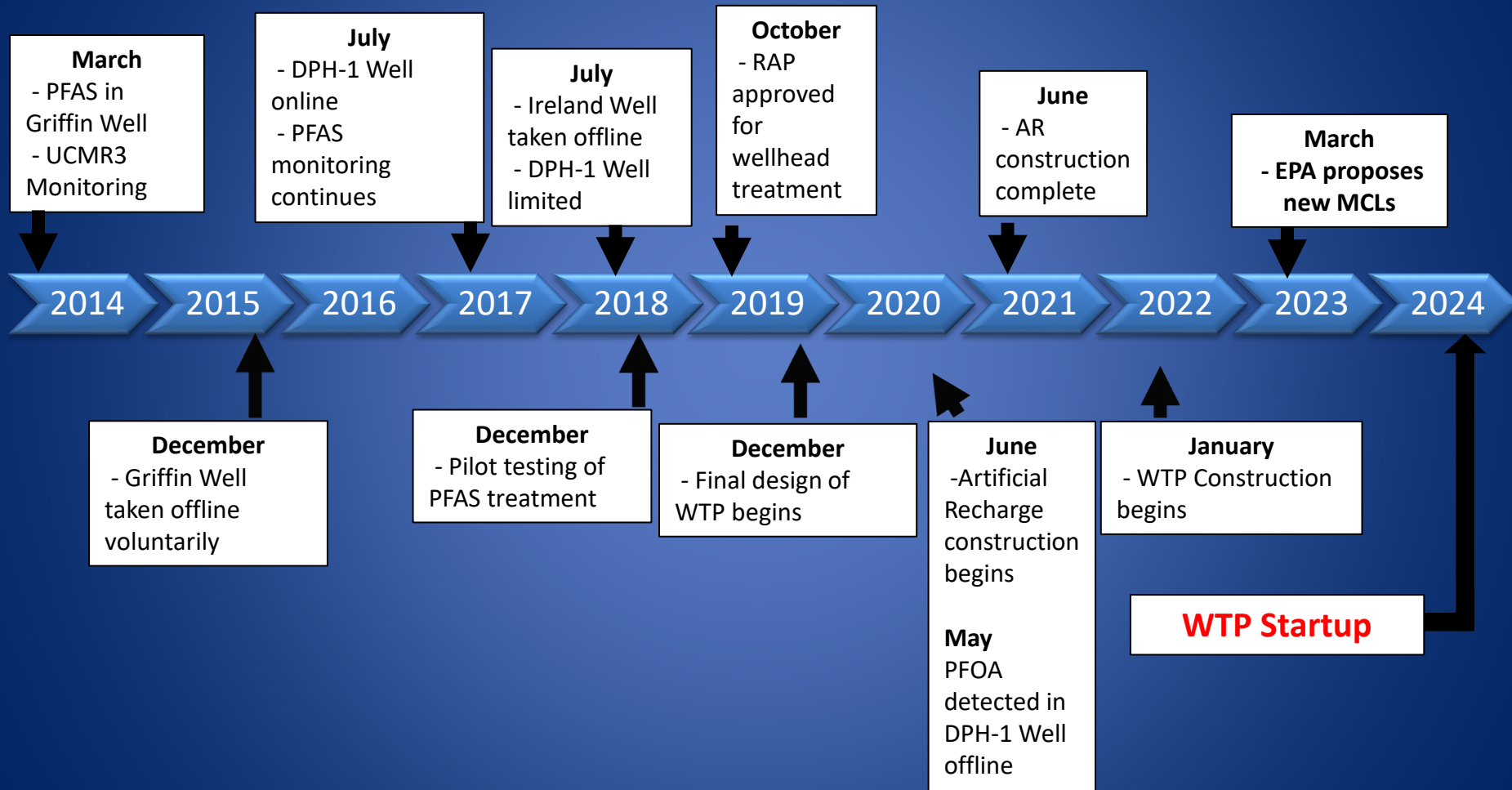
Source

- Pudding Hill Water Treatment Plant
- Composite Elevated Tank
- Garrison Hill Reservoir Rehabilitation
- French Cross Road Water Treatment Plant

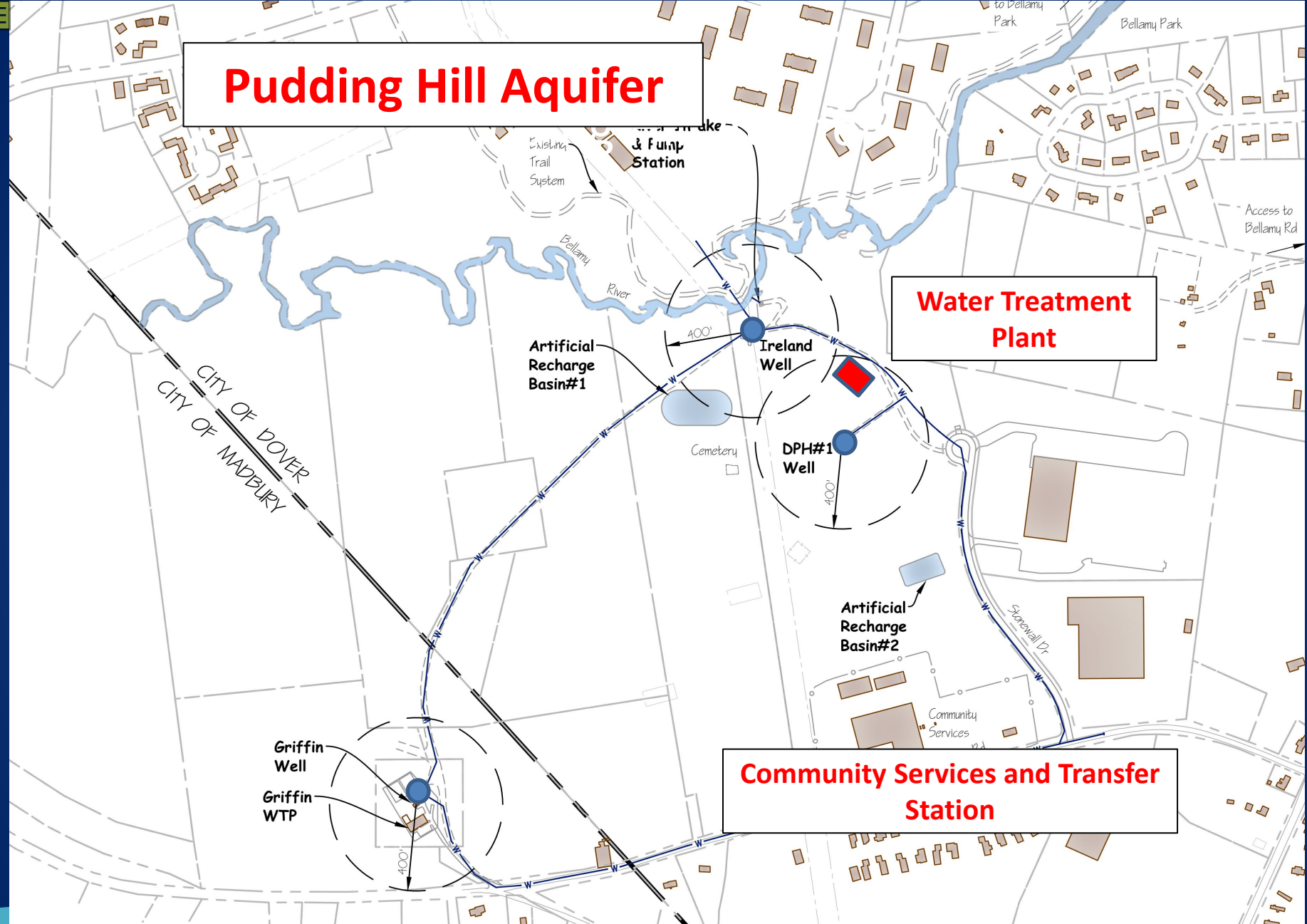
DOVER, NEW HAMPSHIRE



Pudding Hill PFAS 10 Year Timeline



Pudding Hill Aquifer





Griffin Well



UNDERWOOD
engineers



Ireland Well





DPH-1 Well



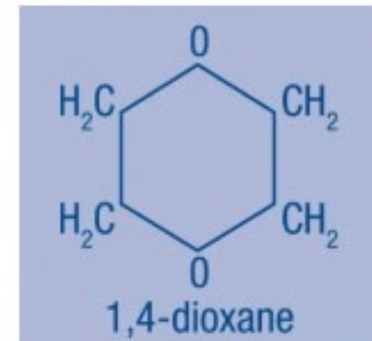
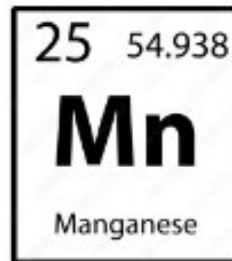
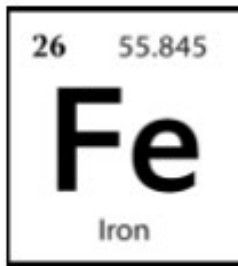
Pudding Hill Water Treatment Plant



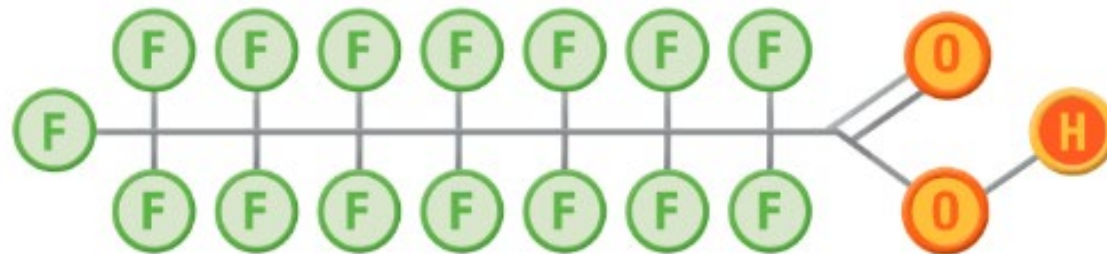


Treatment Goals:

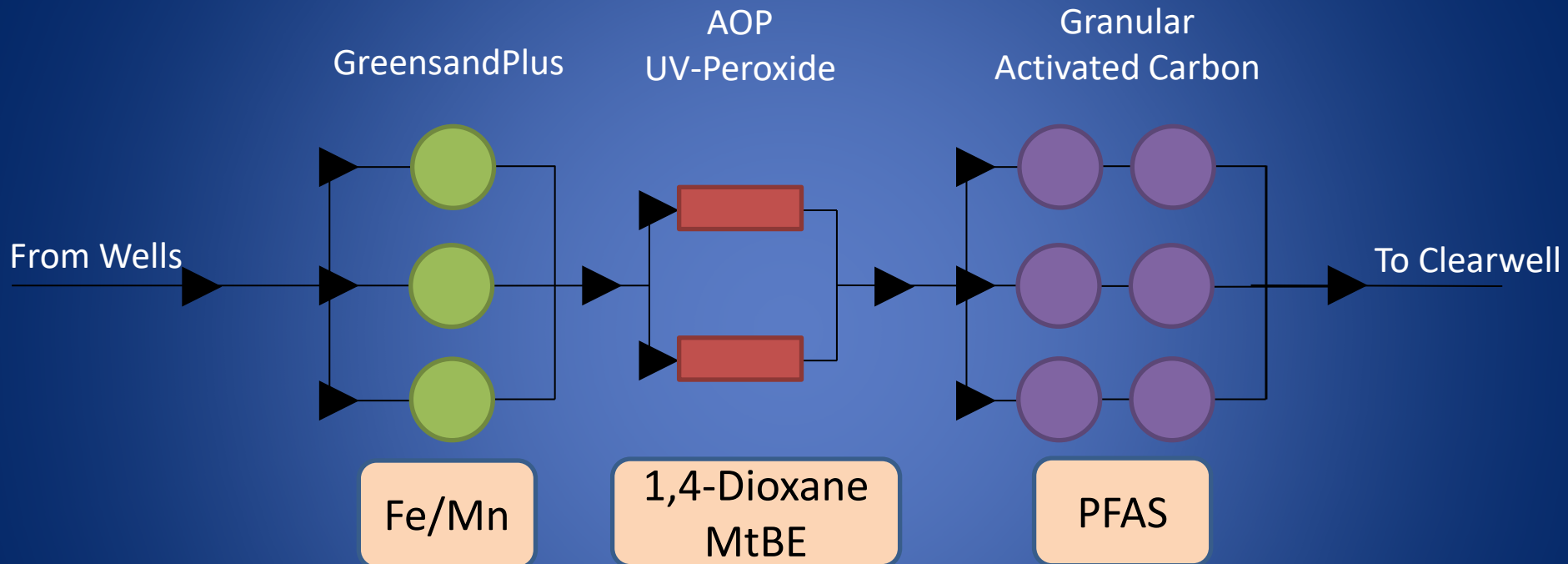
Meet State and new EPA limits
Treat to non-detect if feasible



PFAS

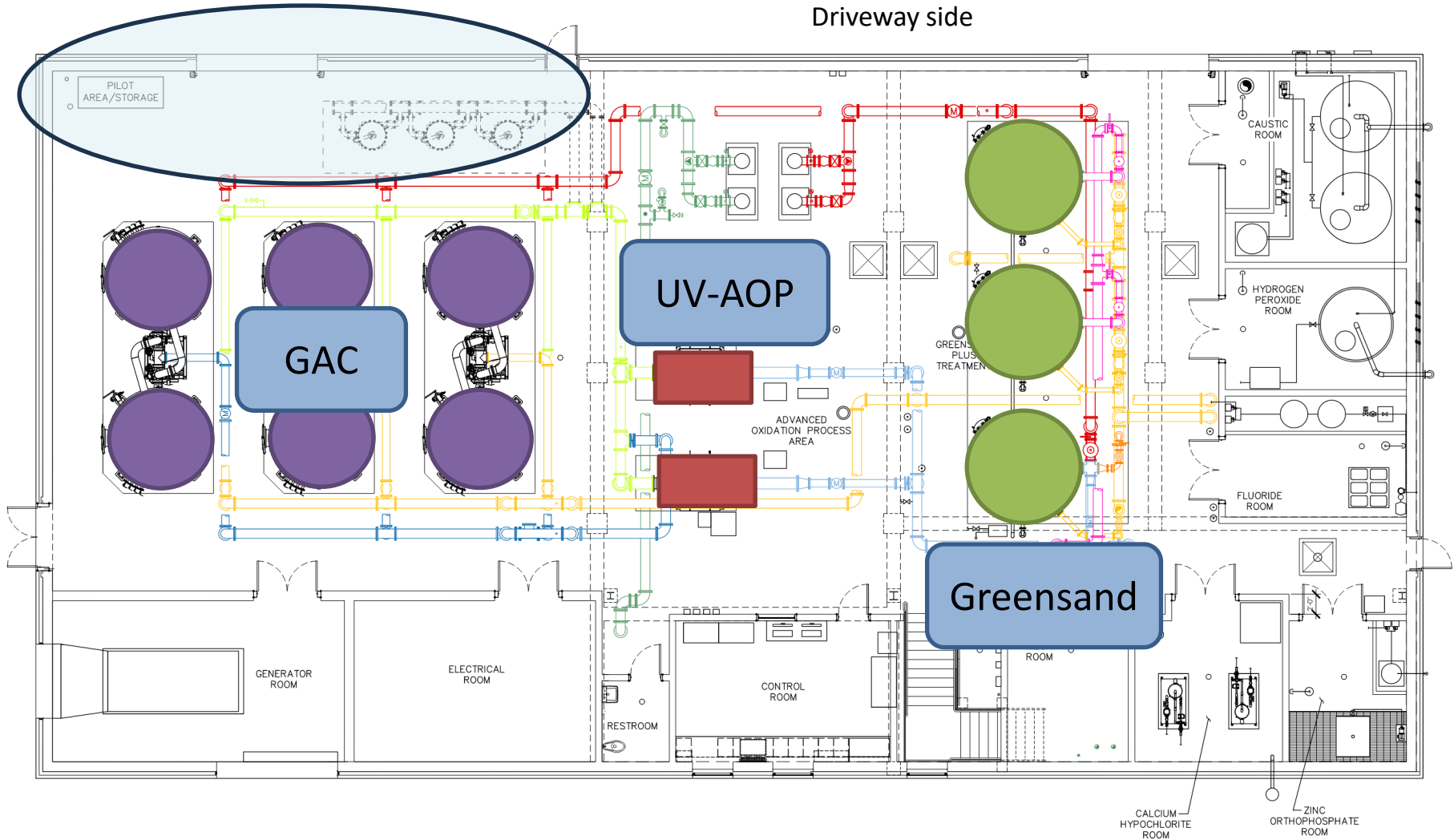


Three Treatment Processes!



Most Advanced Groundwater
Treatment Plant in NH!
- NHDES

Driveway side



GreenSand Plus Treatment

Greensand



UV-Peroxide Advanced Oxidation

UV-AOP



UV-AOP

UV Light

+

Hydrogen Peroxide

-> Hydroxyl Radical
(OH)

-> Destruction of 1,4-
dioxane and MtBE



GAC

Granular Activated Carbon (GAC) for PFAS Removal





2022

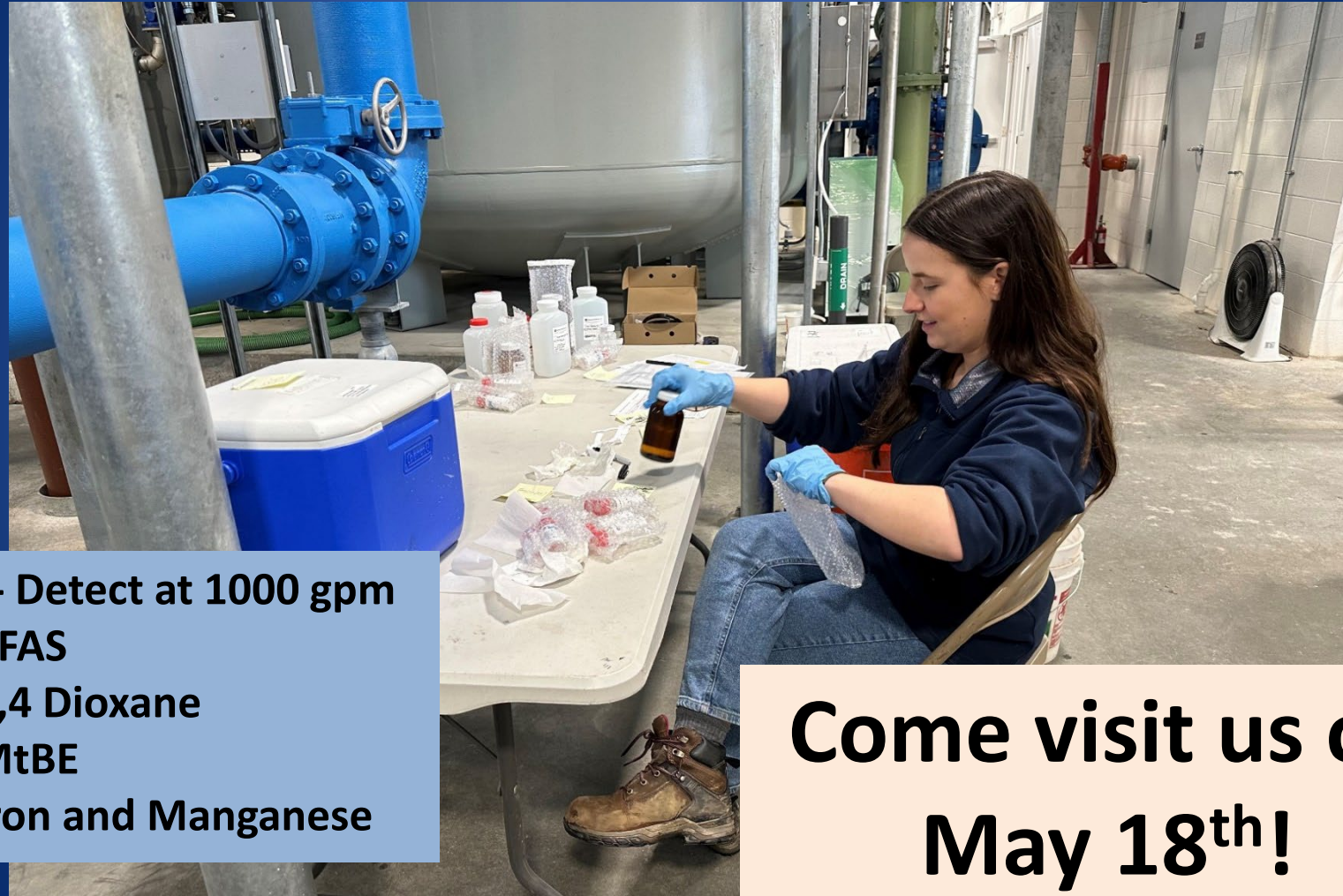
GAC



GAC



First Round of Treated Water Samples Show Successful Treatment!



Non- Detect at 1000 gpm

- PFAS
- 1,4 Dioxane
- MtBE
- Iron and Manganese

**Come visit us on
May 18th!**

1 MGal Composite Elevated Tank Construction in 2023 -2024



What's Next - Source

- SOP's and O&M
- Garrison Hill Reservoir Improvements
- Griffin Well Improvements
- French Cross Road Water Treatment Plant Upgrade

Garrison Hill Reservoir

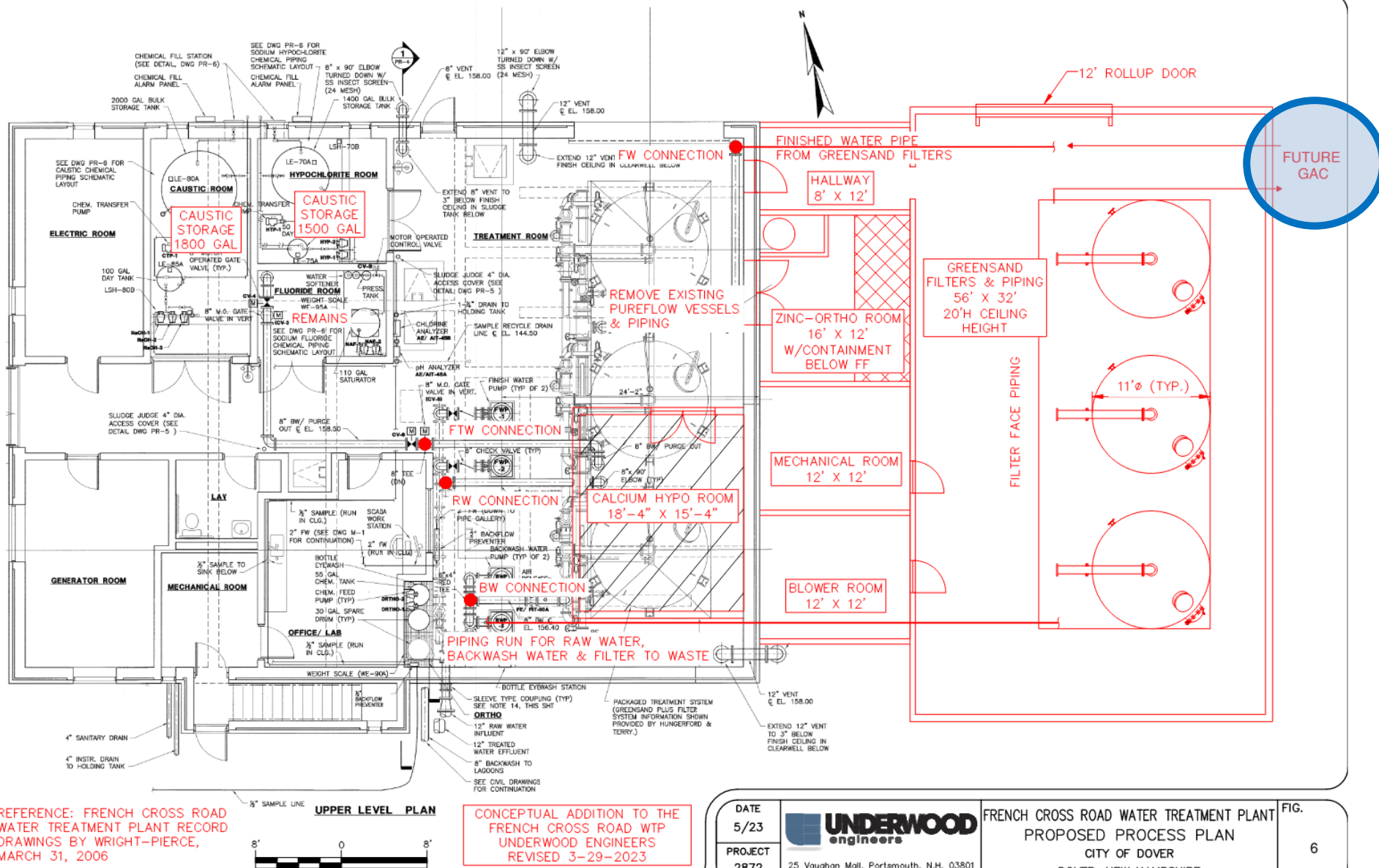
- 4 Million Gallons on Garrison Hill
- Built in 1968 – Only tank in the main pressure zone
- The Composite Elevated Tank will serve Dover while reservoir is offline in 2025 for rehabilitation



French Cross Road Water Treatment Plant



Conceptual FCR WTP Improvements



Questions?

