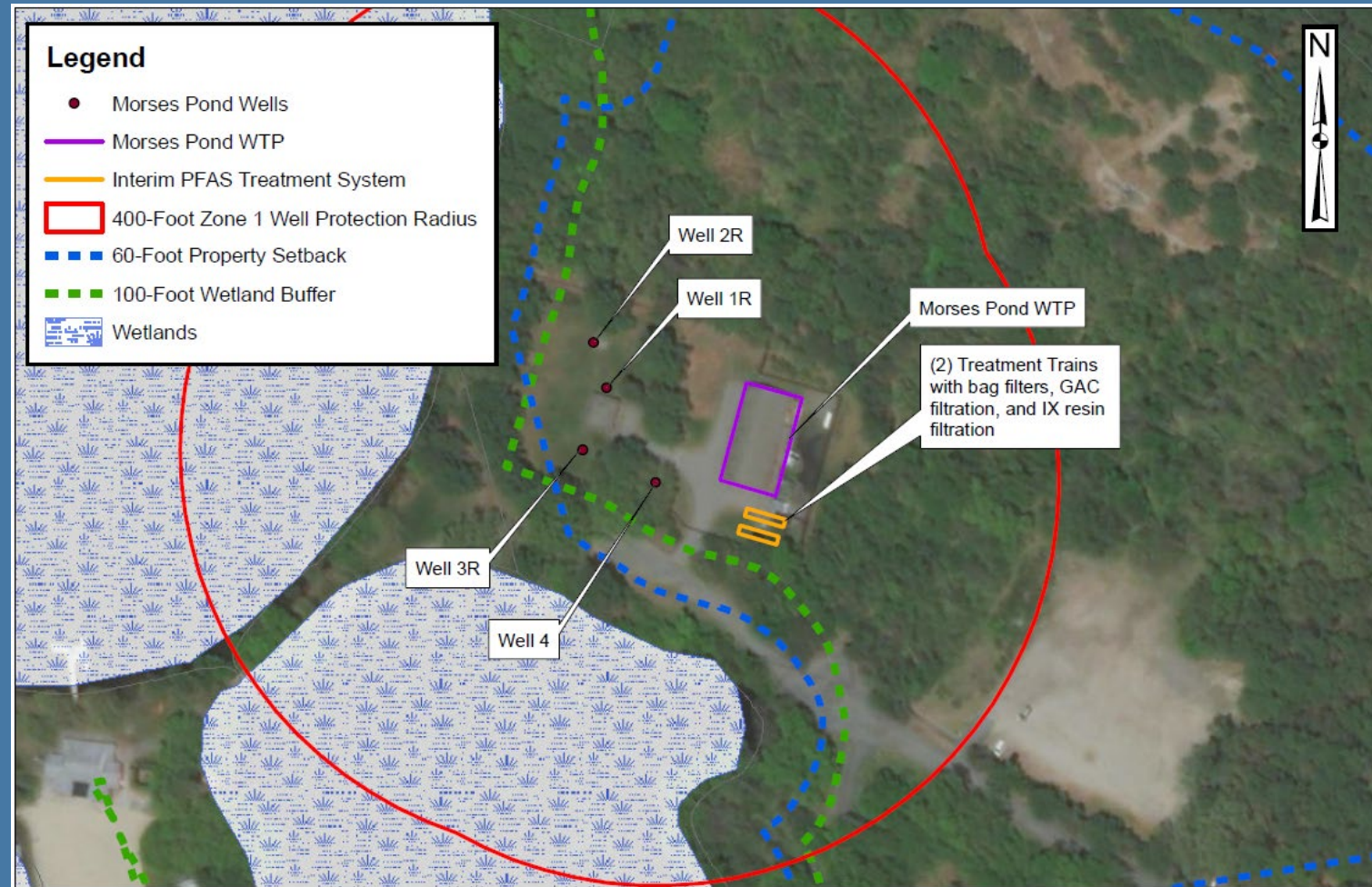


Morses Pond WTP Interim PFAS Treatment

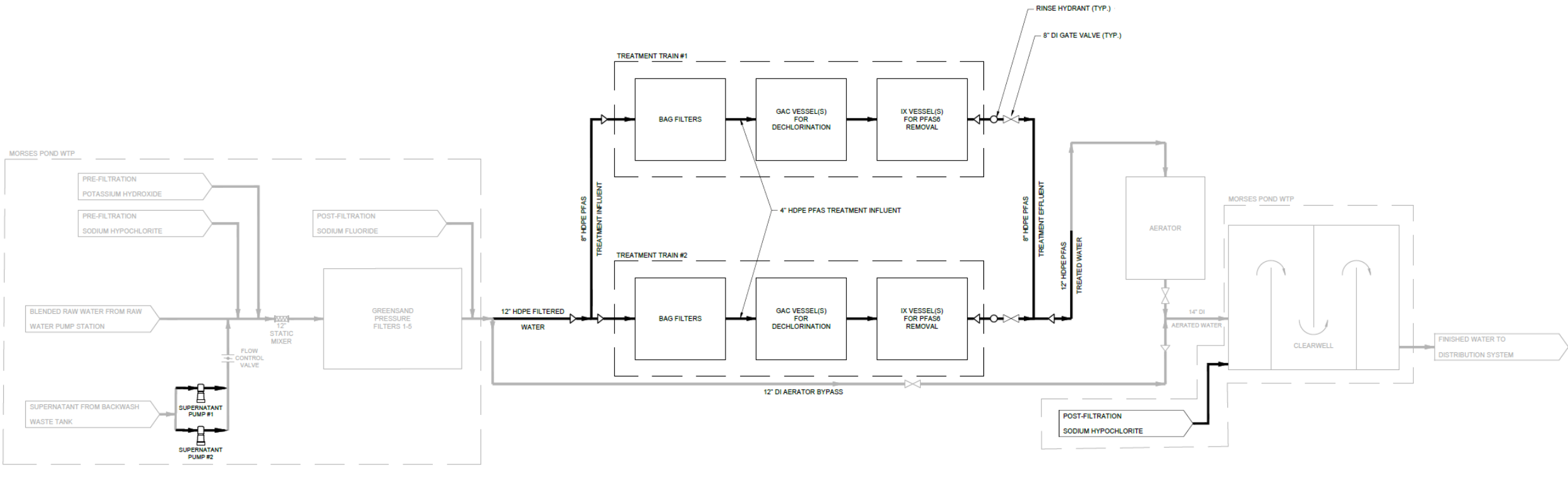
- Existing treatment includes:
 - Potassium hydroxide and aeration for pH adjustment;
 - Sodium hypochlorite for oxidation and disinfection; and
 - GreensandPlus filtration for iron and manganese removal
- Interim PFAS treatment includes:
 - Bag filtration for solids capture;
 - Granular activated carbon filtration for dechlorination; and
 - Ion exchange filtration for PFAS6 removal.
- Treatment system capacity: 1.0 MGD
- Treatment objective: non-detect
- Estimated media life: 16 months
 - Model estimate. Actual media life may vary.



Morses Pond WTP Interim PFAS Treatment – Siting Plan



Morses Pond WTP Interim PFAS Treatment – Process Flow Diagram



Case Study | Well 4, Sharon, MA

- April 2021: tested all sources for PFAS6
 - Well 4 (1.0 MGD source): 73-125 ppt
- June 2021: activated emergency interim treatment
 - Ion exchange filtration for PFAS6 removal
 - Treatment system hydraulics reduced well capacity to 0.5 MGD
- December 2021: finished water PFAS6 **non-detect**
- Next Steps
 - Install booster pump in Spring 2022
 - Begin design for long-term treatment



Case Study | Mary Dunn & Airport Wells, Hyannis, MA

MARY DUNN WELL #3

- All sources treated at Mary Dunn WTP
- UCMR3 Testing 2013-2014:
 - PFOS >100 ppt
 - 1,4 dioxane >100 ppt
- May 2016: 70 ppt (PFOA + PFOS) EPA Health Advisory Level Issued
- July 2015: Mary Dunn #1 & 2 GAC Activated
- July 2016: Mary Dunn #3 GAC Activated
- June 2020: Airport Wells GAC Activated
- June 2020 to now: finished water PFAS6 **non-detect**



Case Study | Mary Dunn & Airport Wells, Hyannis, MA

MARY DUNN WELLS #1 & 2



AIRPORT WELLS

