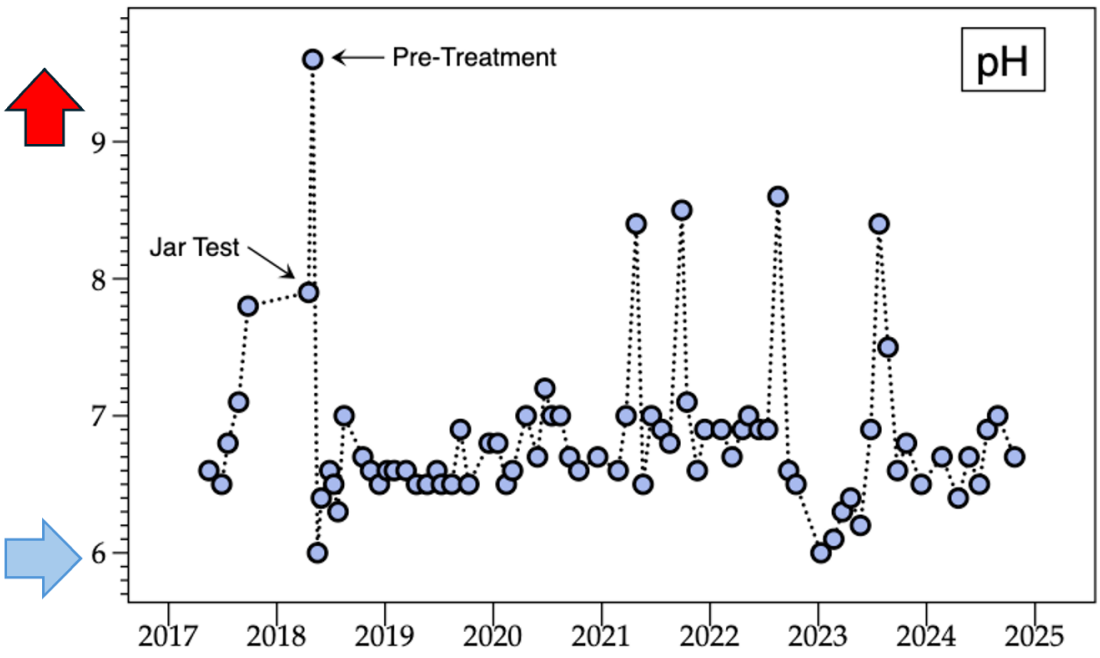
Report to White Lake Town Board, December 2024

White Lake pH Trends, 2017-2024



1. BLUE arrow denotes RAINFALL pH, which has increased substantially in the past 40 years, and continues to increase due to high emissions of ammonia in the region.
2. RED arrow indicates the pH level at, or above which lake waters are considered IMPAIRED (unhealthy).
3. White Lake pH can increase quickly and remain high during periods of high phytoplankton productivity ("blooms").

The 2017 Cyanobacterial Bloom persisted over winter, so pH started at a higher point in 2018, and quickly moved into the region of *IMPAIRED*; the early May 2018 alum treatment reduced nutrients, phytoplankton, and pH

Since the treatment, long-duration blooms have not occurred,
and pH levels > 8 have been seen ***briefly*** 4 times:
Early spring and again in summer 2021
Summer of 2022
Summer of 2023

Highest pH seen in 2024: 7 (no blooms detected)