



# North Water Street Former MGP Site Air Bubble Curtain Pilot Study



August 2021 Update



# Air Bubble Curtain (ABC) Technology Overview

- Weighted, perforated tubing is placed on the river bottom.
- Compressed air is delivered through the tubing.
- A wall of air bubbles travels vertically through the water column, affecting:
  - Fish passage
  - Turbidity
  - Sheen

*This is not a remediation method.* If effective, ABC could be used to supplement other water protection measures during remediation activities.

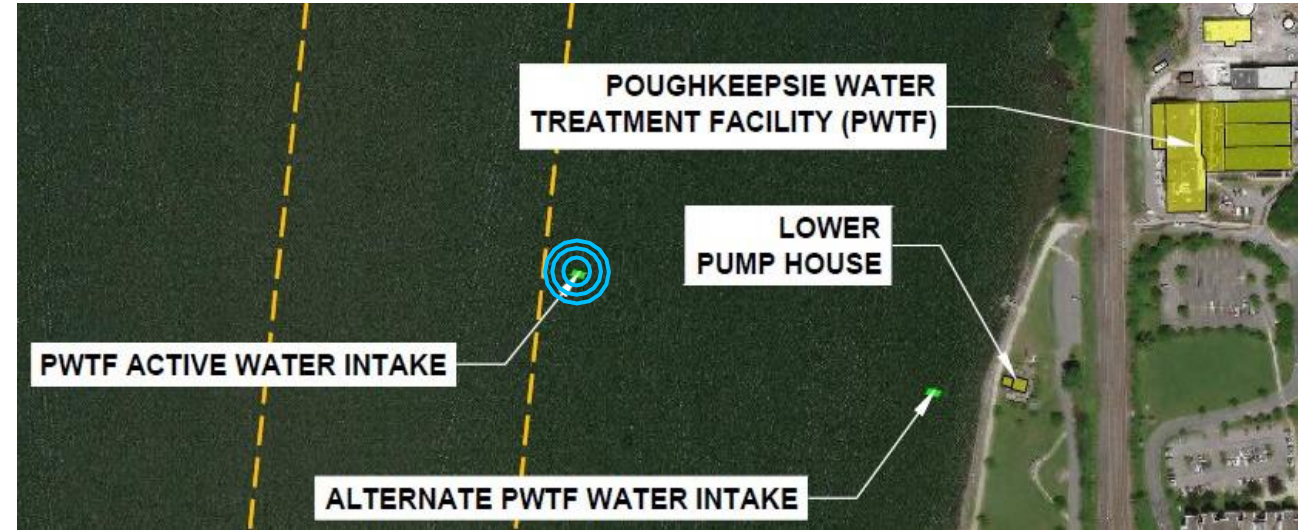


Based on Canadianpond.ca 2020

# ABC Pilot Study Areas

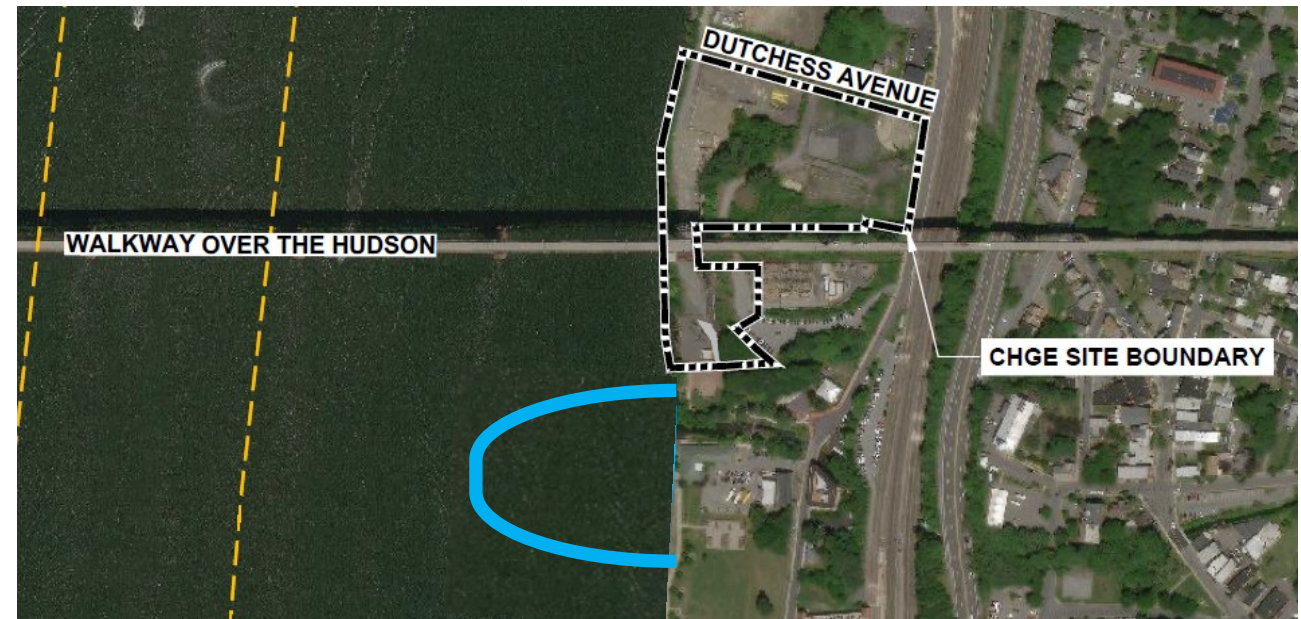
## Poughkeepsie Water Treatment Facility: Intake Structure

- Place 3 concentric circles of ABC tubing around the intake.
- Operate for ~12 days.



## North Water Street Project Site: Test Area

- Target a portion of the sediment remediation area that exhibits minimal impacts.
- Install one row of ABC tubing in a "C" shape.
- Operate for ~6 days.



# Pilot Study Objectives

- Evaluate the logistics of deploying an ABC system.
- Determine if ABC technology can effectively influence the passage of turbidity and non-aqueous phase liquids (NAPL) / sheen.
- Obtain data to develop a full-scale system for potential implementation during remedial activities.

## Proposed Schedule (subject to Agency response)

- Submit Work Plan to NYSDEC – September 2021
- Permitting / No Permitting Resolution – September 2021
- Contractor Procurement – September 2021
- Implement Pilot Study – October / November 2021
- Pilot Study Report – January / February 2022

## Questions?