



# Water Treatment Plant Project Update

July 13th, 2022



# Agenda

- ▶ Opening Remarks
- ▶ Website Update and New Content
- ▶ Can the Existing OOB WTP Site be Used for the New WTP?
- ▶ Should Operations be Separated Between Multiple Sites?
- ▶ Typical Abutter Impacts
- ▶ Open Comment
  - Use "+1" to agree
  - Please limit yourself to 3 minutes
- ▶ Closing Remarks





# Opening Remarks



# Schedule

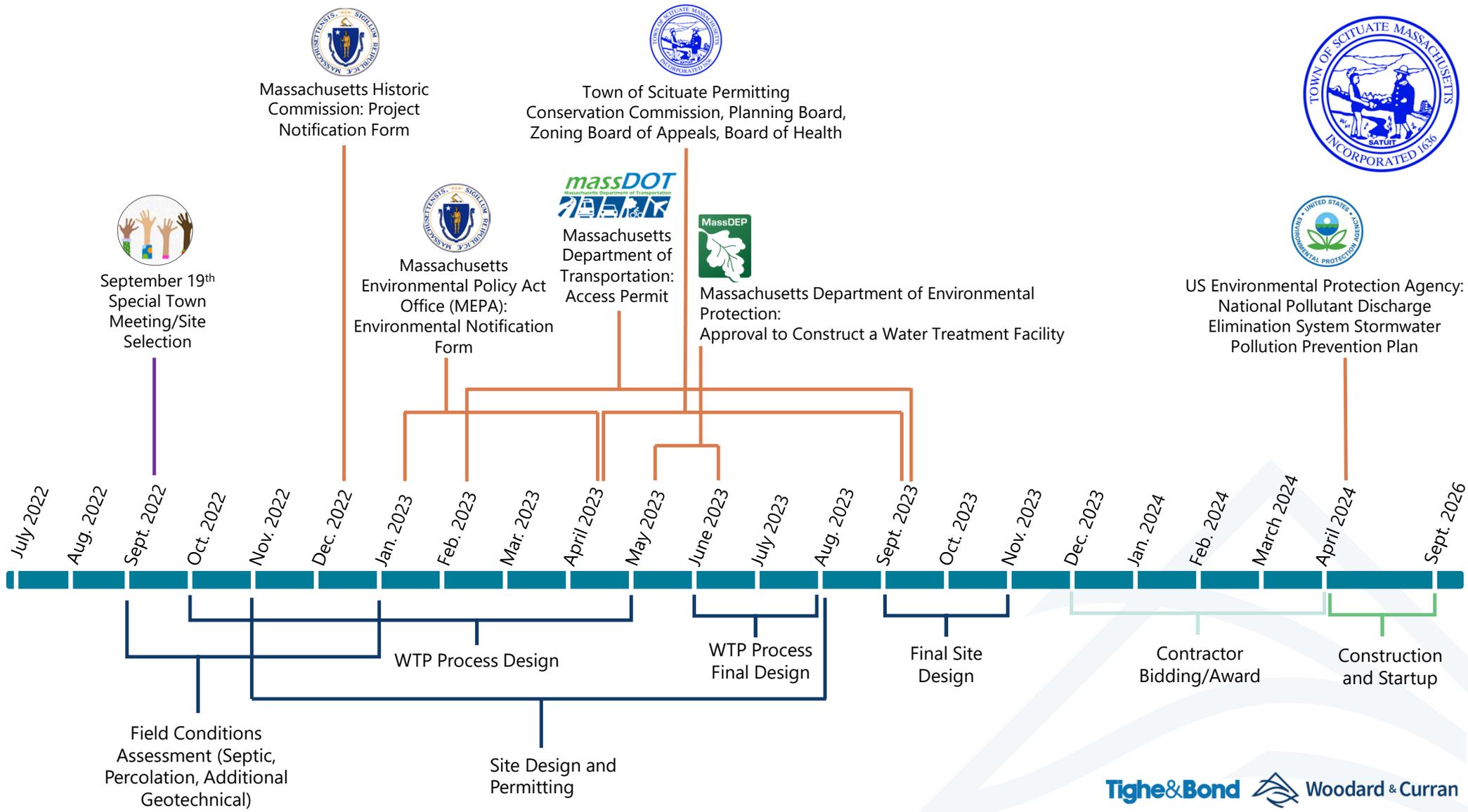


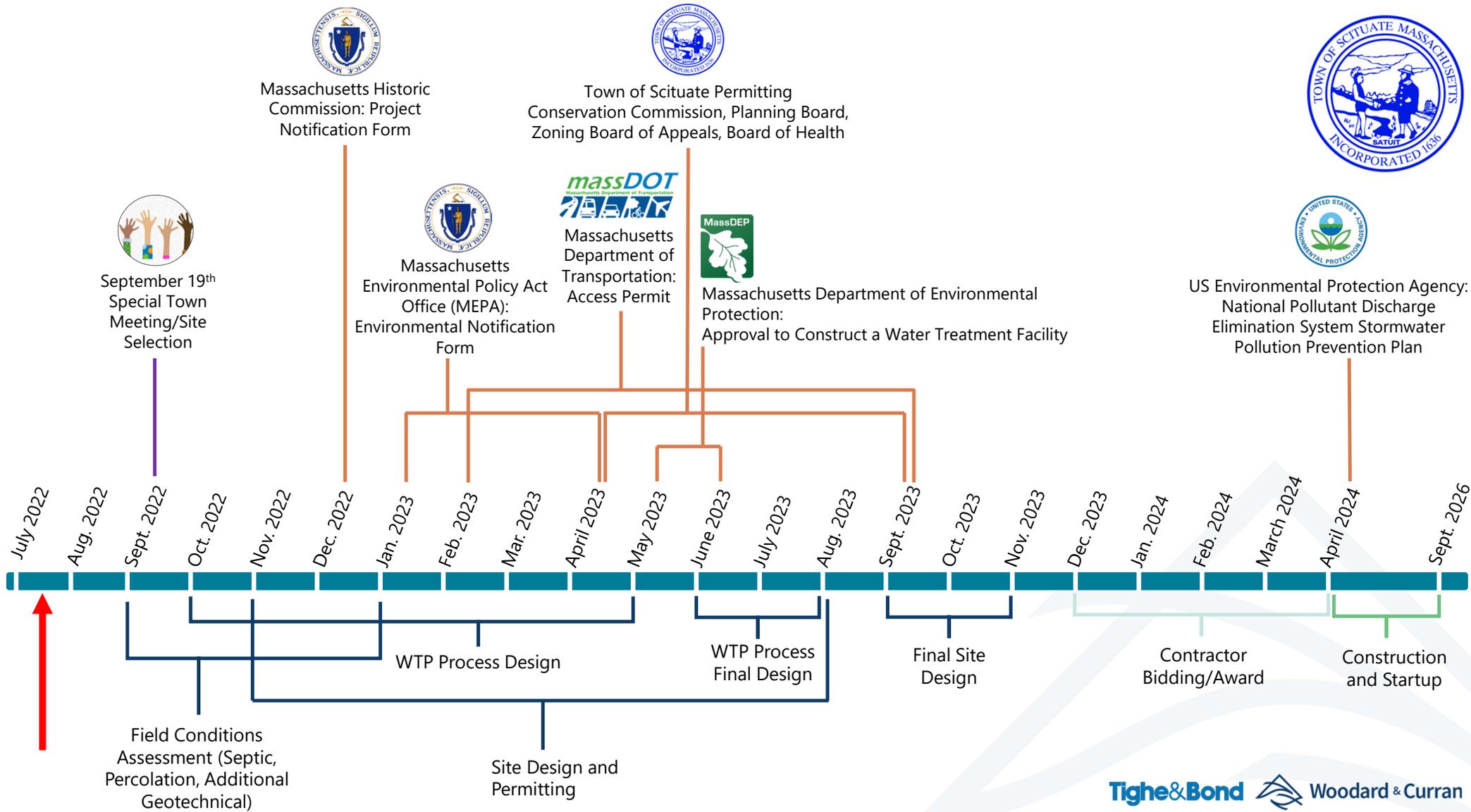
# Work Done to Date

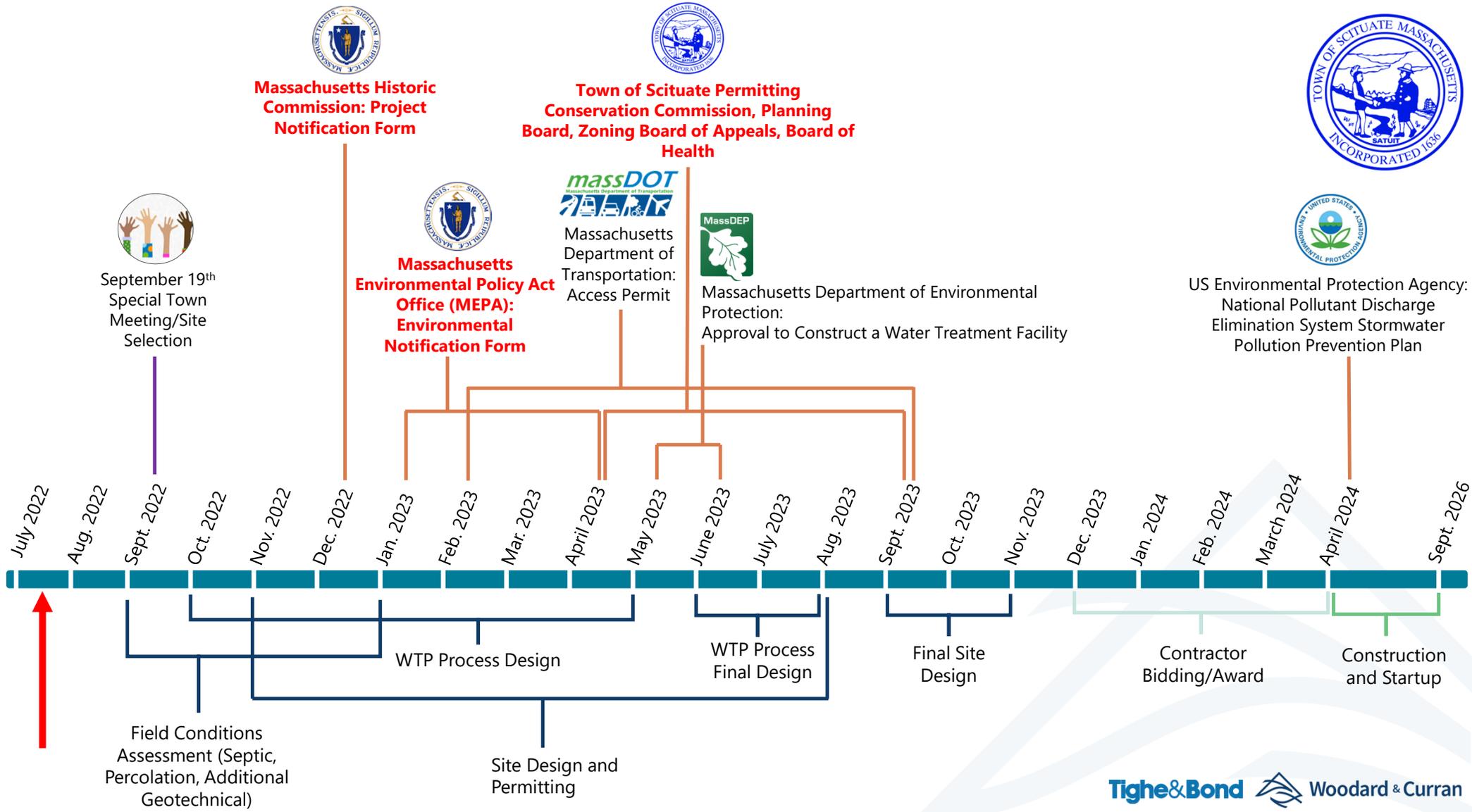


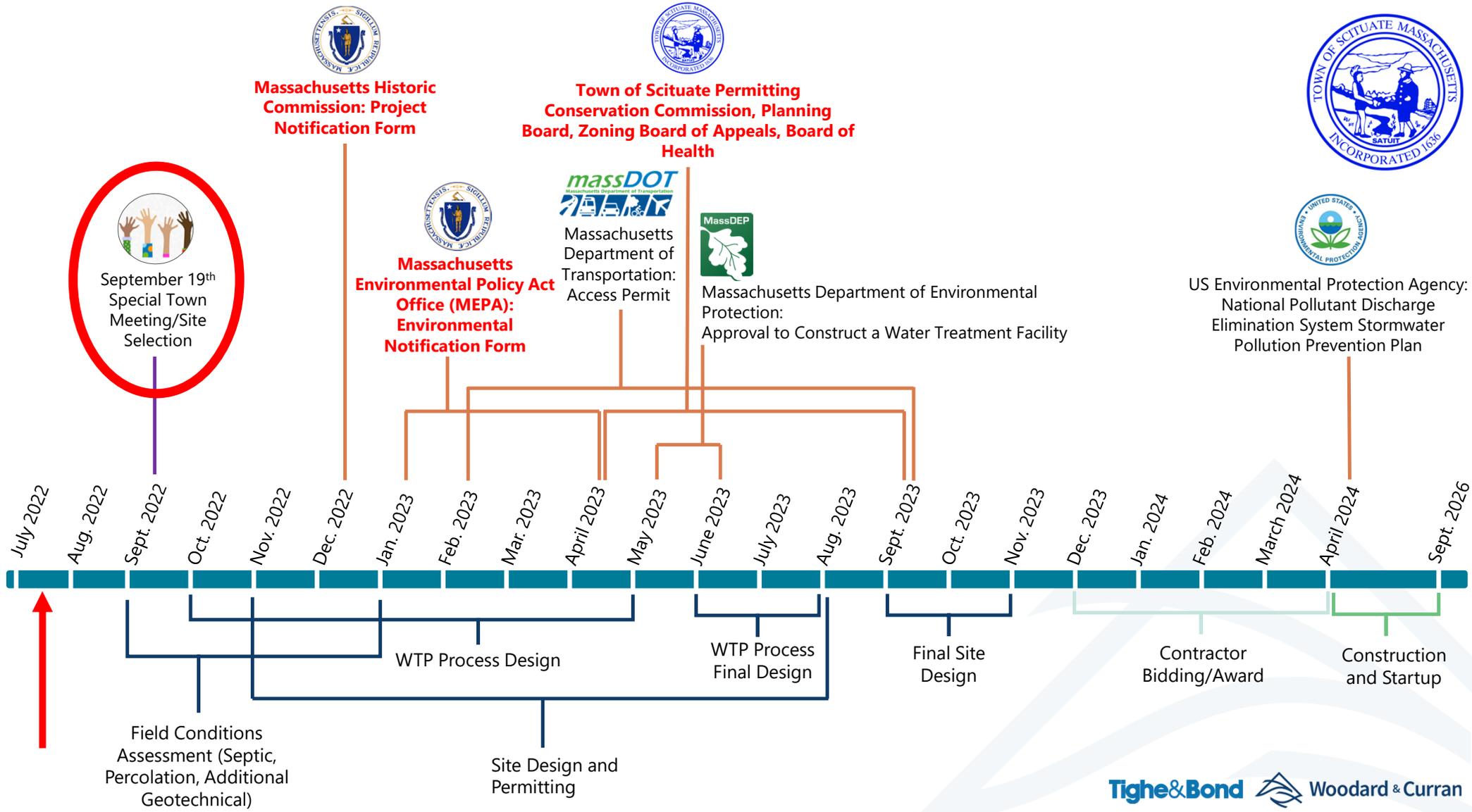
- ▶ 3 Phases of State Required Pilot Testing
- ▶ Preliminary Geotechnical Investigation
- ▶ Survey
- ▶ Identification of Design Criteria













# Website Update and New Content



# New Website Information



- FAQ's - 1. Need For New Treatment Facility
- FAQ's - 2. Location
- FAQ's - 3. Cost
- FAQ's - 4. Social Impacts
- FAQ's - 5. Treatment Process/Design
- FAQ's - 6. Environmental Impacts
- Project and Permitting Timeline
- Residuals Management
- Traffic Safety
- WTP Site Alternatives Evaluation

SCITUATE MASSACHUSETTS

REPORT AN ISSUE AGENDAS & MINUTES Search

About Government Residents Businesses Visitors Master Plan Third-Party Notice of Data Incident HOW Do I ... ?

Home

## New Water Treatment Plant Project

### Scituate Water Treatment Plant Project

The Town of Scituate is working hard to improve the drinking water quality for all residents. Multiple drinking water projects are being pursued including the design and construction of a new drinking water treatment plant. As the Town of Scituate works to ensure safe, clean water, we realize the importance of keeping the community informed about the status of the project and ensuring they understand the decisions that are being made.

The Town will be using this webpage to distribute information about the water treatment plant project. We will be updating this webpage periodically so please check back regularly for new information. If you would like to be notified periodically for major updates, please sign up to our email list by going to the following link:

<https://tinyurl.com/scituatewtpemallist>

And while we are putting new information out here, we haven't stopped listening to you. The input of Town residents is critically important to our process and we appreciate the community input received thus far. If you have any comments, questions, or concerns please contact Sean Anderson, Water Superintendent. We look forward to working with the community on this project as we move forward.

News

- Water Treatment Plant Meeting TONIGHT
- Water Main Break/Brown Water Alert
- Update from the Town of Scituate
- Astronomical High Tides
- BEACH SAMPLING RESULTS FOR JULY 8, 2022

View all



# Can the Existing Old Oaken Bucket WTP Site be Used for the New WTP?

# Residuals Management

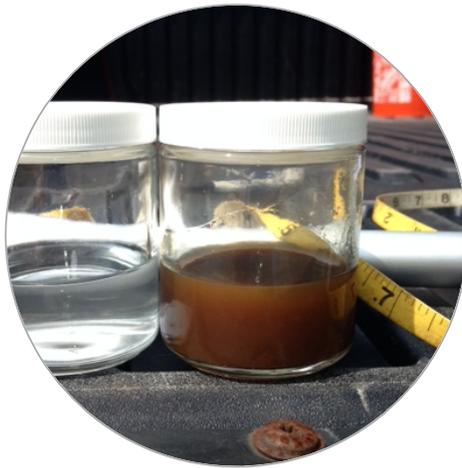


- ▶ Process residuals is a key driver of design criteria
  - OOB Water Treatment Plant discharges residuals to the sewer
  - The Town's sewer and wastewater treatment facility cannot handle additional residuals of the new facility the
    - Wastewater treatment facility would need rehabilitation and capacity upgrades
    - Sewer infrastructure would need to be upgraded
- ▶ The limitations on sewer capacity resulted in a design decision to manage the residuals stream via an on-site lagoon system
  - Eliminates ~16 to 20 million gallons of water per year discharged to the sewer



Residuals Lagoon in Falmouth, MA

# Zero Liquid Discharge



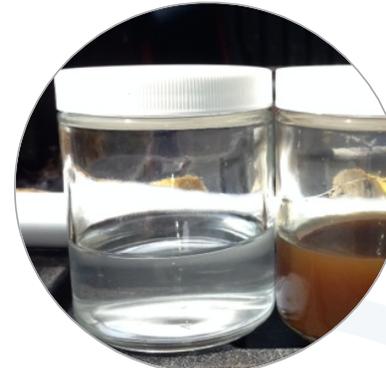
**Process Residuals**



**Zero Discharge**  
Lagoons with  
Filtration & Underdrain System



**Dry Solids**  
Periodically hauled offsite for  
disposal



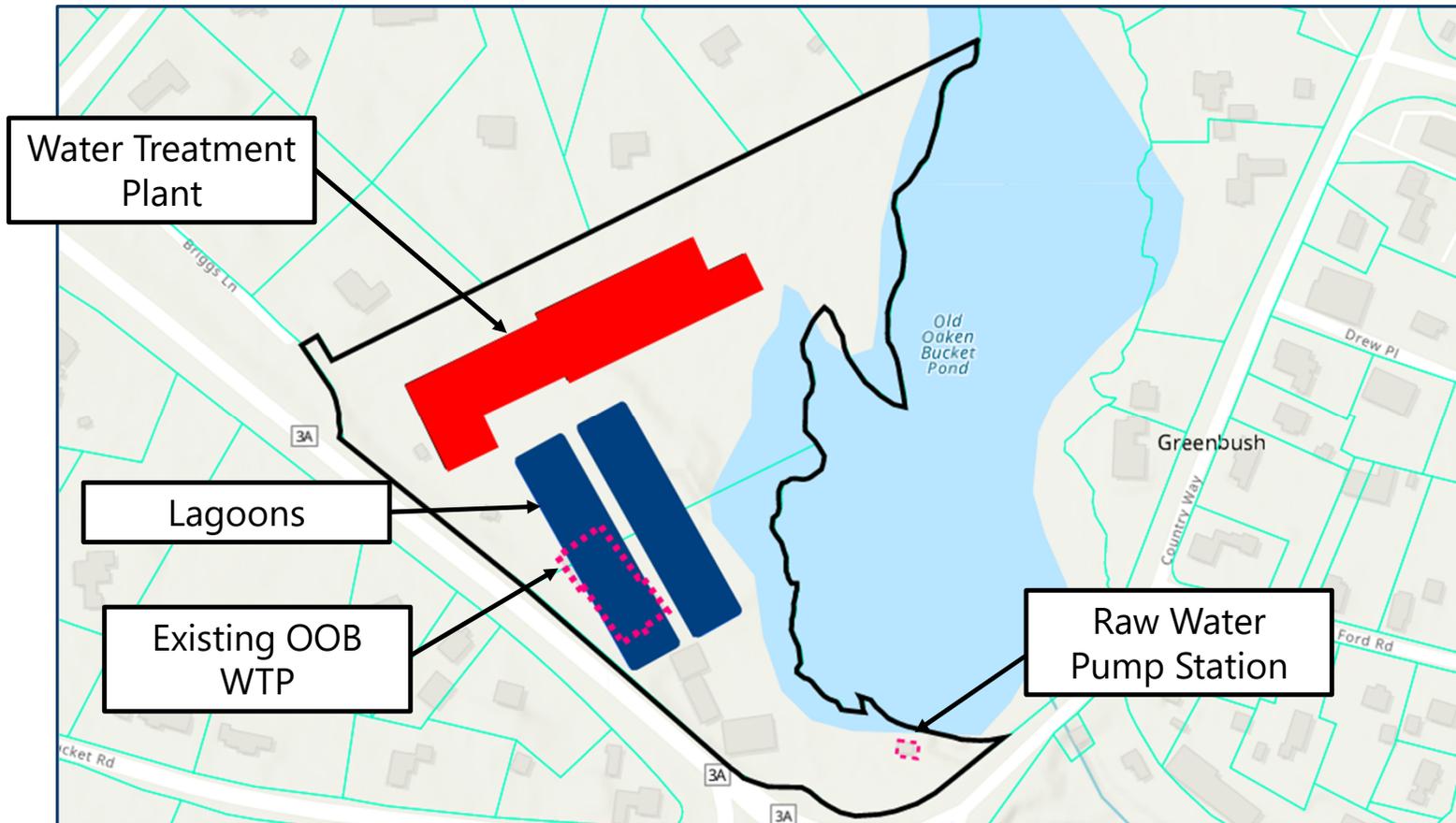
**Clean Lagoon Filtrate**  
*recycled to the treatment facility*

# Existing OOB Site



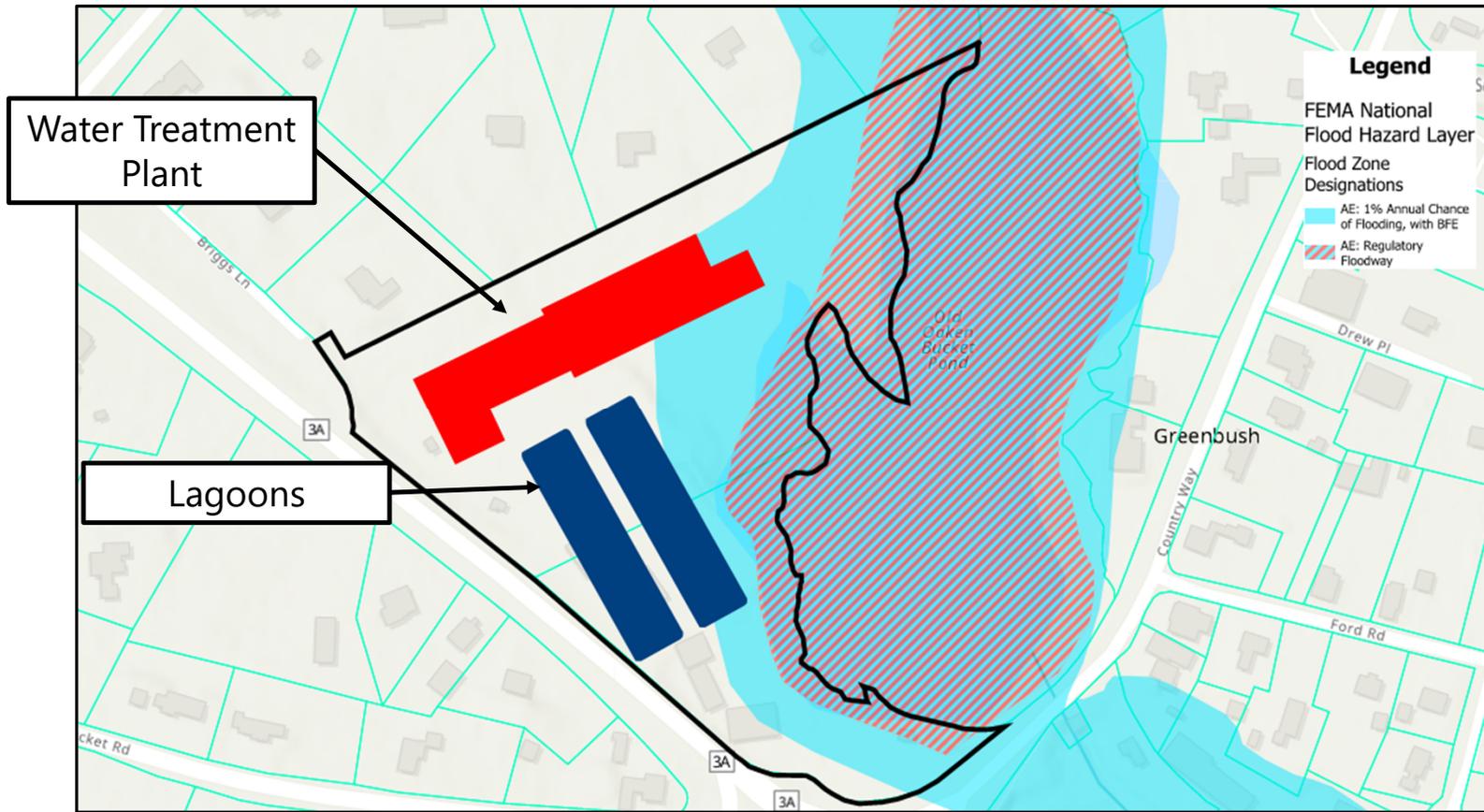


# New Facility on Existing OOB Site



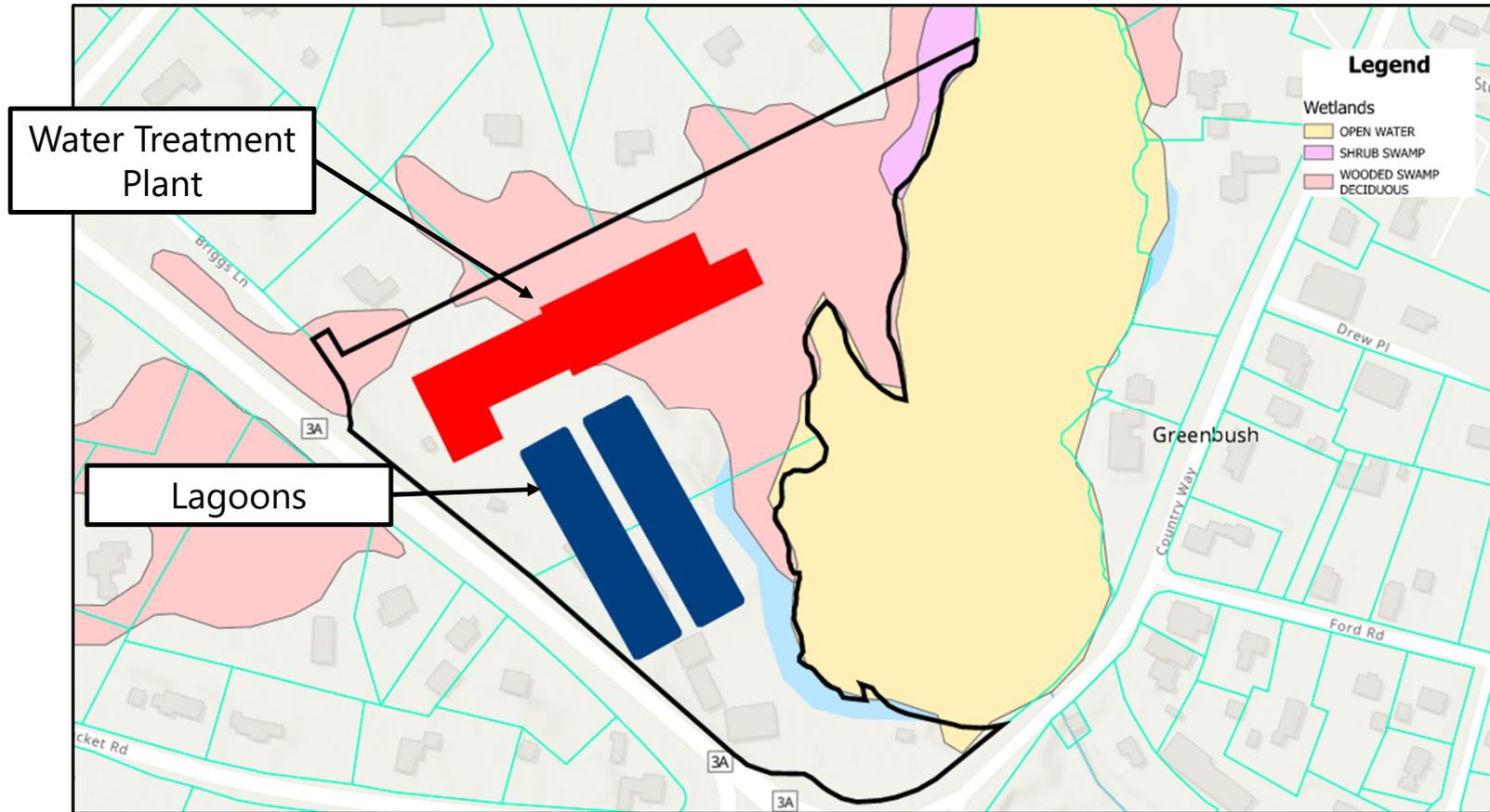


# Existing OOB Site Flood Zones





# Existing OOB Site Wetlands

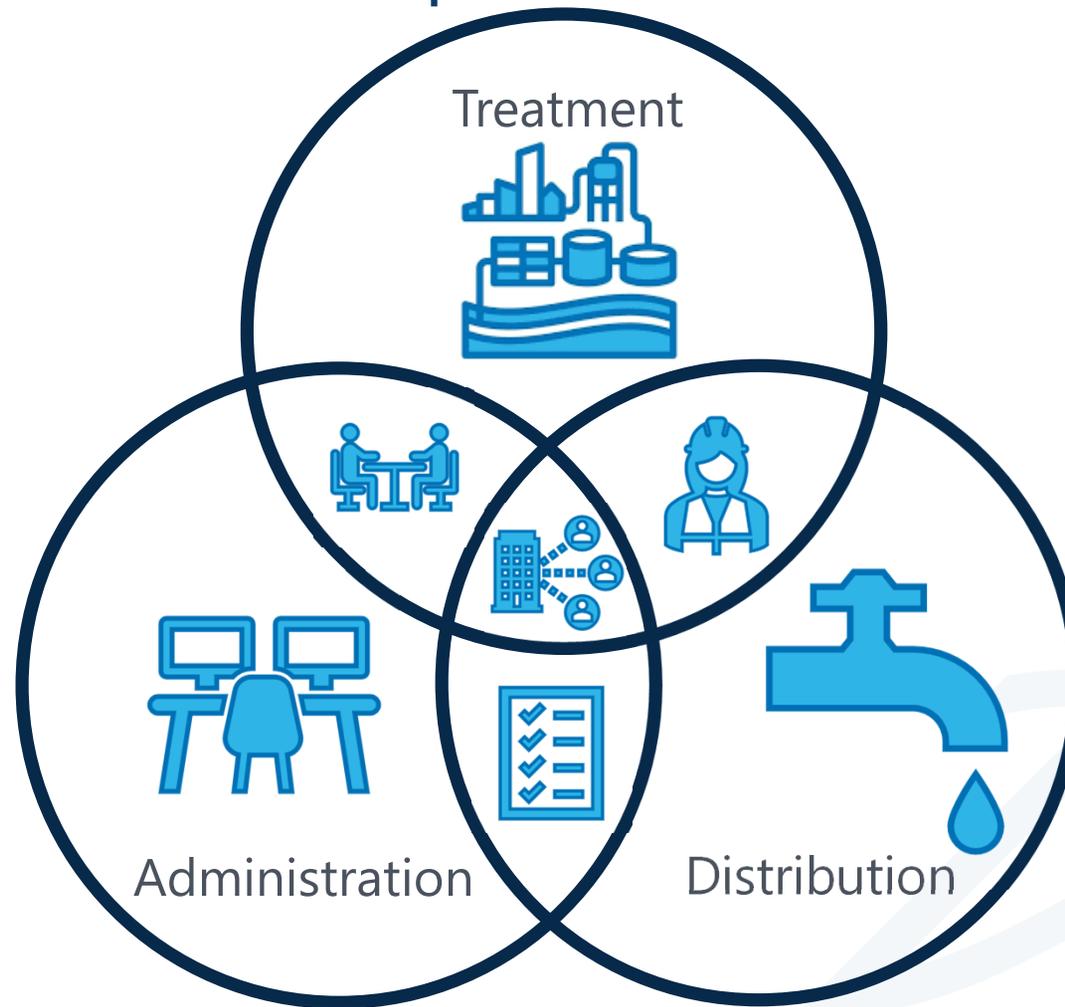




# Should Operations be Separated Between Multiple Sites?



# Benefits of One Site Operations



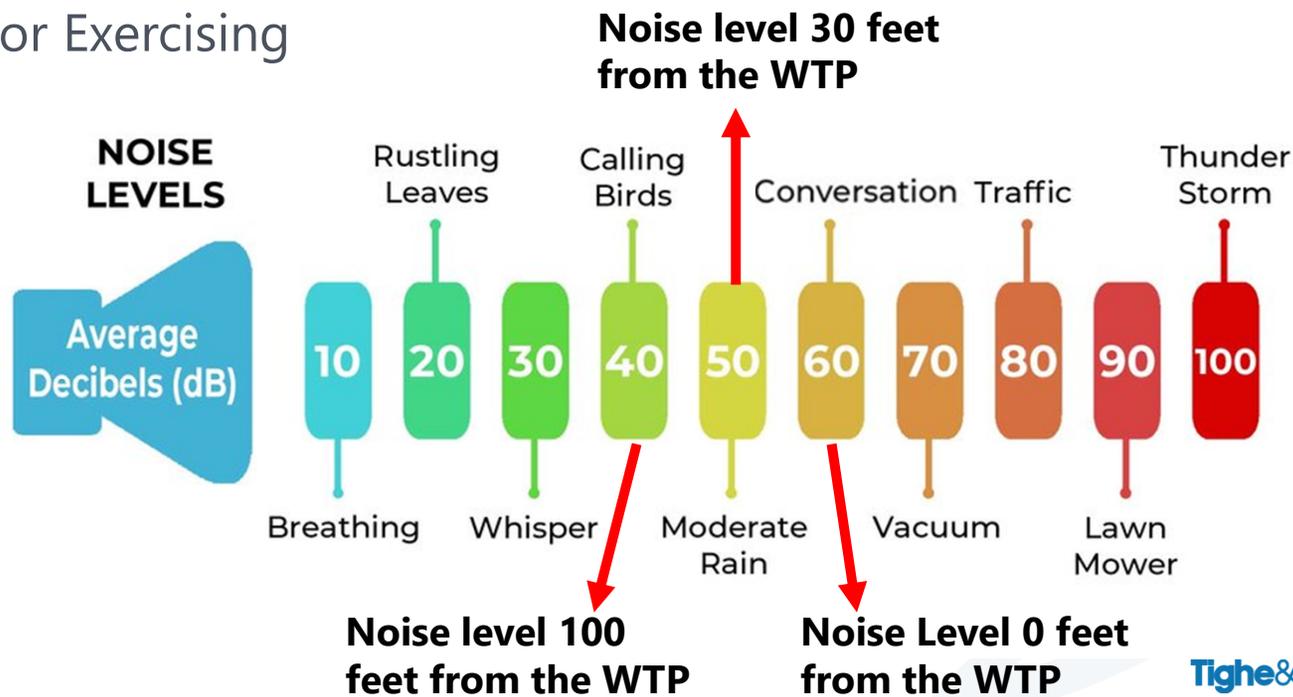


# Abutter Impacts



# Noise Considerations

- ▶ Operations & Maintenance Activities
- ▶ Routine Vehicular Traffic
- ▶ Periodic Truck Deliveries
- ▶ Generator Exercising



# Lighting Considerations

- ▶ Safety and Security
- ▶ Access
- ▶ Tree and Land Buffer Areas
- ▶ Directional Lighting
- ▶ Hours of Operation

**Note: Lighting plans will be reviewed and approved by the Town of Scituate's Planning Board during the design phase.**





# Privacy Considerations

- ▶ Maintain Tree Buffer
- ▶ Additional Plantings
- ▶ Privacy Fencing
- ▶ Hours of Operation



# Other Considerations



- ▶ Residuals Handling (Lagoon) Area
- ▶ No Additional Land Use Restrictions
- ▶ Traffic Safety
- ▶ Stormwater Management

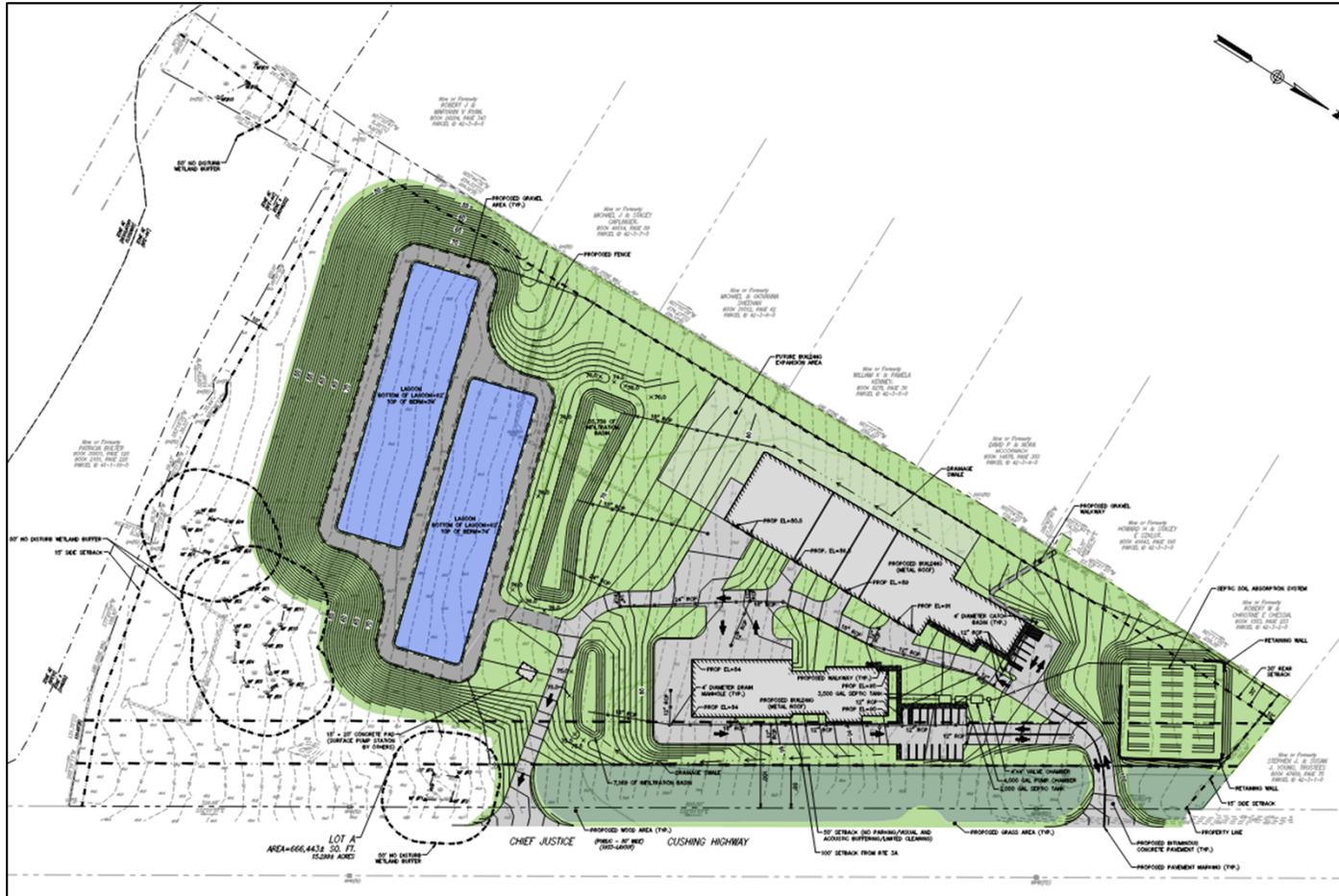


Lagoons at the University of New Hampshire



# Site Layout Progression

# Original Conceptual Layout



# Current Conceptual Layout





# Open Comment

# Open Comment



- ▶ Use the raise hand feature and we will call on you in order
- ▶ Please give your name and address
- ▶ Limit to 3 minutes to allow everyone to speak
- ▶ If you agree, you can use +1 to indicate that
- ▶ If you didn't get to say something, or want to provide us something additional, please email [scituatewtp@scituatema.gov](mailto:scituatewtp@scituatema.gov)

Thank you!



Woodard  
& Curran

Tighe & Bond

