

Tri-Town Water District

REGIONAL WATER TREATMENT PLANT

Fact Sheet

NOVEMBER 2021

The Tri-Town Water Commissioners represent the towns of Braintree, Randolph and Holbrook created through legislation in the late 1880's to manage the jointly utilized water supply known as Great Pond bordering the towns of Randolph and Braintree. The system provides 100 percent of the drinking water for approximately 82,300 residents in these three communities.

The Great Pond Reservoir System consists of the Upper Great Pond Reservoir, the lower Great Pond Reservoir and the Richardi Reservoir. Water is transported through intake pipelines on the Braintree and Randolph sides of the pond. The Braintree intake delivers water to the Braintree Water Treatment Plant and the Randolph intake delivers water to the Joint Water Board Treatment Plant (which serves Randolph and Holbrook). Each water treatment plant is rated at 6 MGD. Conventional water treatment is provided with filtration and disinfection.

CRITICAL UPDATES TO AGING WATER SYSTEM

The Braintree and Joint Water Board Water Treatment Plants were constructed in the 1930's when treatment technology was in it's infancy. Since that time, Braintree and the Joint Water Board have operated and maintained the water treatment plants. Now, 80+ years later, each facility has exceeded their life expectancy and are in need of replacement. The Tri-Town Water Board who has managed the Great Pond dam and watershed since the 1800's agreed to combine the resources of the three communities and build a regional state-of-the-art treatment facility. The new Tri-Town Regional Water Treatment Plant will have a capacity of 12.5 MGD and provide much needed treatment for the removal of PFAS6 which has been detected in the Great Pond Water Supply.

PROJECT COMPONENTS



Tri-Town Regional WTP

Joint Water Board Pipeline

CONSTRUCTION TIME FRAME

Bidding: February 2022 thru April 2022

Construction Start: June 2022

Testing and Startup: January 2024

Full Operations: June 2024

As with any construction project, the schedule is dependent on a number of factors.

This investment is necessary not only to maintain reliable water service for our customers, but also to avoid service failures that could adversely impact our customers who live and work in our communities.

The Tri-Town Regional Water Treatment Plant includes two major components:



Tri-Town Regional Treatment Plant: We are building a new, state-of-the-art water treatment plant next to the Great Pond Reservoir next to the existing Braintree Water Treatment Plant. The TTRWTP Treatment Plant will be capable of treating 12.5 million gallons of water per day (mgd). The new plant will be equipped with state-of-the-art technology to meet current drinking water standards including filtration technology for PFAS removal.



Joint Water Board Pipeline: We are installing dual 24-inch subaqueous water transmission pipelines to transport treated water from the TTRWTP to Randolph and Holbrook water distribution systems.