

# ADDRESSING LONG-TERM WATER NEEDS ACROSS THE TEXAS GULF COAST

## OVERVIEW

Texas' Gulf Coast region faces mounting water supply challenges driven by rapid population growth, frequent droughts and diminishing groundwater availability. To meet future demand, new and reliable water supplies are needed. The planned **Bayshore Desalination Facility** near Galveston Bay offers a sustainable long-term water source for local residents and businesses while protecting fishery resources and maintaining the region's position as a popular recreation destination.

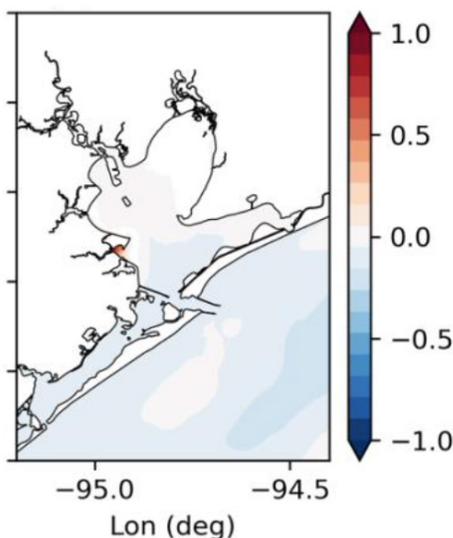
## PROPOSED SOLUTION

- **Facility Output:** The Bayshore Desalination Facility would produce up to **26.5 million gallons of freshwater per day** for local municipal and industrial users.
- **Strategic Location:** The facility will re-purpose the former P.H. Robinson Power Generating site, which features large-capacity intake and outfall channels to enable efficient water circulation.

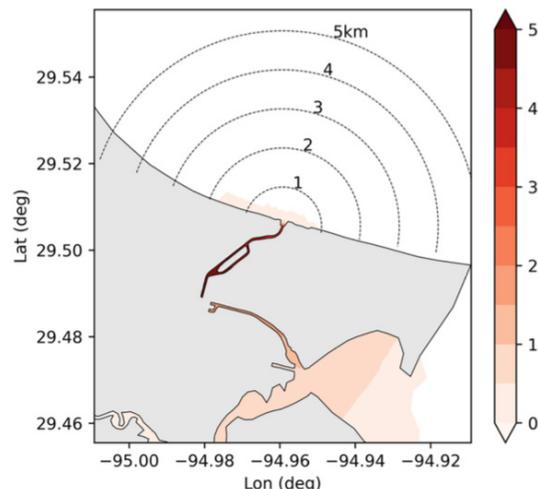
## ENVIRONMENTAL SAFEGUARDS

An independent environmental assessment of the facility's impacts conducted by Texas A&M University Galveston (TAMUG) predicted a localized increase in average salinity of only about 0.12 parts per thousand (ppt) where the facility discharge enters Galveston Bay before diminishing rapidly offshore.

**Without new water sources, the Houston-Galveston region will face an annual deficit of 257 billion gallons a year by 2080.**



TAMUG modeling results showing projected changes in salinity levels (in ppt) associated with planned desalination facility in Galveston Bay.



Close up of TAMUG modeling results showing projected changes in salinity levels (in ppt) associated with the planned desalination facility near the intake and outfall channels.

## PROTECTING LOCAL WILDLIFE

- TAMUG also evaluated the potential impact of the desalination facility on the bay ecosystem by focusing on nine sea species that commonly inhabit the region, including fish, crabs, oysters and shrimp.
- Results indicated that the average salinity of discharge from the facility (21.2 ppt) falls within **the range for optimal larval recruitment and development for all identified species.**

## TIMELINE AND ENGAGEMENT

- The facility could be operational within **five years.**
- Extensive community engagement is underway to **educate, engage and ensure transparency.**

## LEARN MORE

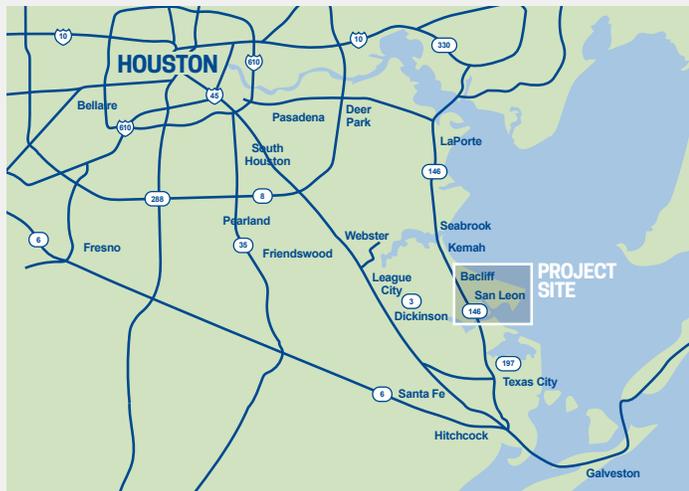


Visit [BayshoreWaterTX.com](http://BayshoreWaterTX.com) to view independent research data and learn more about the project .

By 2070, 1 in 4 Texans will have access to half of their water needs during drought conditions.

## PROJECT SITE MAP

### LOCATION



### FEATURES

