



COASTAL WATER AUTHORITY'S TRINITY RIVER WATER CONVEYANCE SYSTEM - CAPITAL IMPROVEMENT PROJECTS

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ABOUT COASTAL WATER AUTHORITY

- **A Conservation and Reclamation District created in 1967 by a Special Act of the 60th Legislature of the State of Texas**
- **Governed by 7-person Board of Directors**
 - 4 appointees by the Mayor of Houston
 - 3 appointees by the Texas Governor

ABOUT COASTAL WATER AUTHORITY

Purpose: To construct and operate pump stations, canals, and pipelines to deliver surface water, which is owned by the City of Houston, to the three water purification plants as well as 100 refineries, chemical plants, and manufacturing facilities.

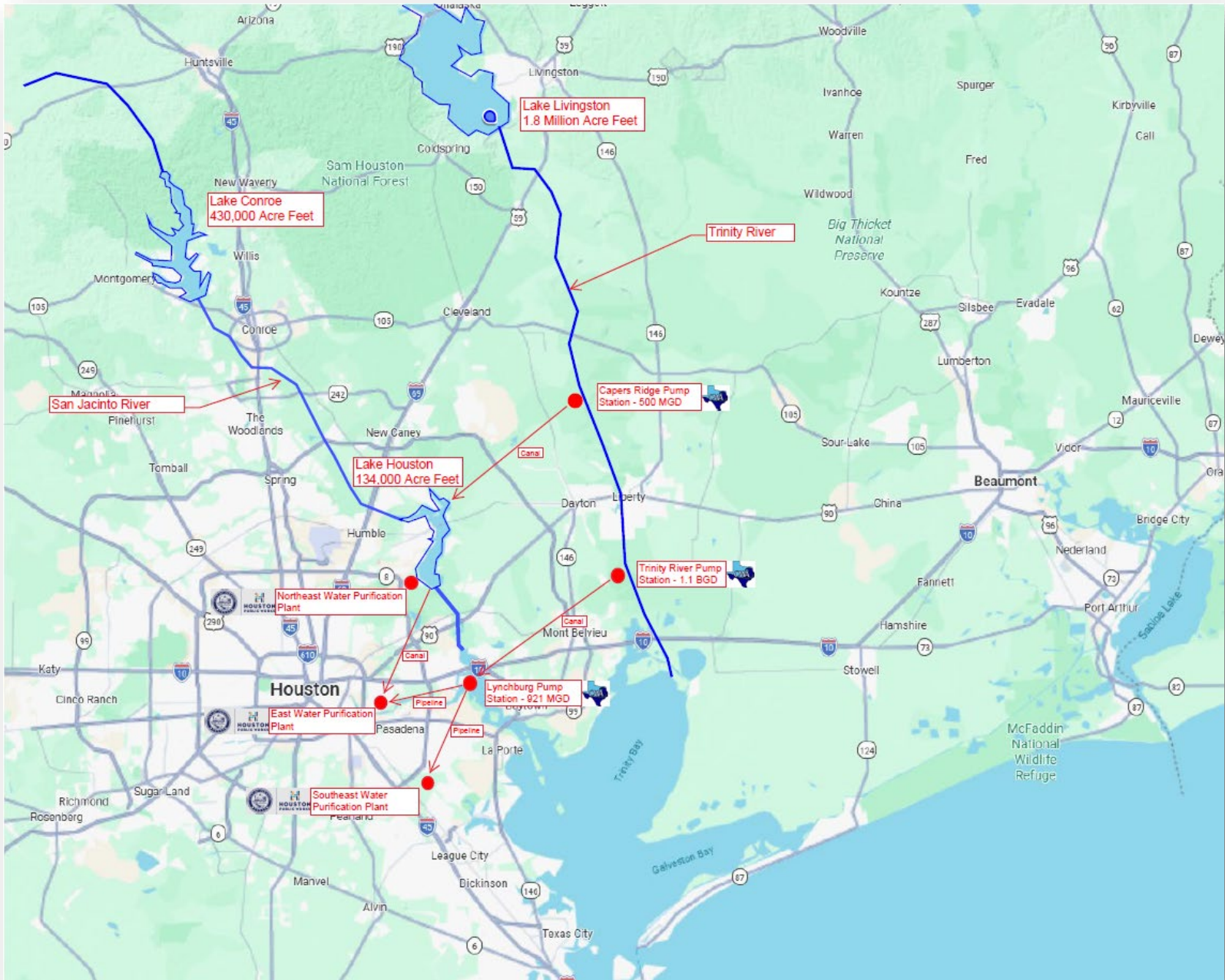
Production: 1 to 1.5 billion gallons of water per day

SUMMARY OF TRINITY RIVER CONVEYANCE PROJECT IMPROVEMENTS COSTS

Projects	Cost
Facility Building Improvements	\$36,417,000
Trinity River System Supervisory Control and Data Acquisition Improvements	\$6,000,000
Trinity River Pump Station Access Road Improvements	\$4,000,000
Total	\$46,417,000

SUMMARY OF TRINITY RIVER CONVEYANCE PROJECT IMPROVEMENTS SCHEDULE

Projects	Est. Completion Date
Facility Building Improvements	2027
Trinity River System Supervisory Control and Data Acquisition Improvements	2027
Trinity River Pump Station Access Road Improvements	2026





TRINITY RIVER PUMP STATION

- **Largest Capacity Raw Water Pump Station in Texas (1.1 billion gallons of water per day)**
- **Constructed 1972**
- **Pumps Water from Trinity River into Main Canal**
- **Located on Western Bank of Trinity River in Liberty County**



MAIN CANAL

- **Designed to Convey 1.3 Billions Gallons of Water Per Day**
- **Constructed 1969-1972**
- **22 Miles Long**
- **Conveys Water to Industrial Customers and the Lynchburg Reservoir**



LYNCHBURG PUMP STATION

- **Pump Capacity of 921 Million Gallons Of Water Per Day**
- **Constructed 1970-1972**
- **Pumps Water From Lynchburg Reservoir to Industrial Customers, East Water, and Southeast Water Purification Plants**

TRINITY RIVER CONVEYANCE SYSTEM FACILITY IMPROVEMENTS

- Buildings are nearing end of service life.
- Conditions were assessed and master plan was created in 2024.
 - Improves safety (especially in during ride-outs)
 - ADA, Efficiency, and Resiliency Improvements
 - Adequate Space for Future Growth
- Architectural Design Start – 1st Qtr 2026
- Delivery via Construction Manager at Risk

Facilities Included in Project

Trinity River Pump Station

Canal Maintenance Station

Lynchburg Pump Station

TRINITY RIVER CONVEYANCE SYSTEM SUPERVISORY CONTROL AND DATA ACQUISITION IMPROVEMENTS

- **SCADA – Used for monitoring and control**
- **System components are at the end of their service life and obsolete**
- **Assessed in 2024, master plan finalized in 2025**
- **Includes modernization, future-proofing, and cyber-security improvements**



TRINITY RIVER PUMP STATION ACCESS ROAD IMPROVEMENTS

- Existing road composed of asphalt with crushed rock base
- Road is deteriorated and at end of life
- New road is composed of mostly concrete with asphalt
- Required to improve accessibility with heavy equipment for future projects



Figure 6 – Pavement Type and Thickness

Legend:  Asphalt  8" Concrete  10" Concrete

thank you!

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