

HISTORY OF THE WEST HARRIS COUNTY REGIONAL WATER AUTHORITY (WHCRWA)



whcrwa.net/about



The WHCRWA was created in 2001.

The WHCRWA is one of <u>four</u>
Regional Water Authorities in the
Houston region created to
implement the Harris – Galveston
Subsidence Districts mandate to
limit the use of ground water wells.











- The WHCRWA is a water wholesaler or "middleman" facilitating a source of water from lakes and rivers to individual retailers.
- Contract with the City of Houston for raw water supply and treatment capacity in water treatment plants.
- Partner with the other regional water authorities and City of Houston for regional projects to implement the HGSD conversion mandates.
- Construct and operate finished (potable) water transmission lines.







- Currently exceeding the 30% conversion requirement by delivering 28.25MGD to 70 water plants in 49 MUDs through 81.4 Miles of waterlines in WHCRWA's boundaries.
- Will meet the HGSD 60% conversion requirement through 17 CIP projects connecting 41 water plants in 34 MUDs through 33.11 miles of new water lines.



626,800

Estimated people within the WHCRWA's boundaries

232

Approximate square miles in WHCRWA

Anticipate converting Approximately

142

Total water plants for the 80% conversion.

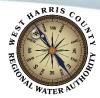
81.4

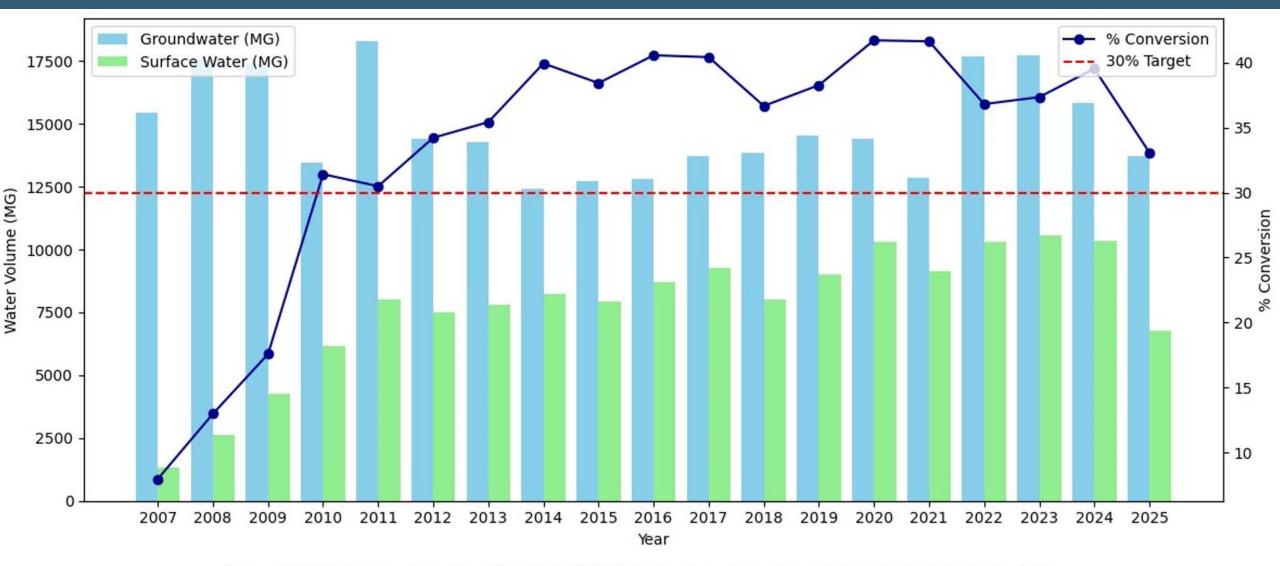
Miles of newly constructed waterlines in WHCRWA boundaries

150+

MUDs and City of Katy

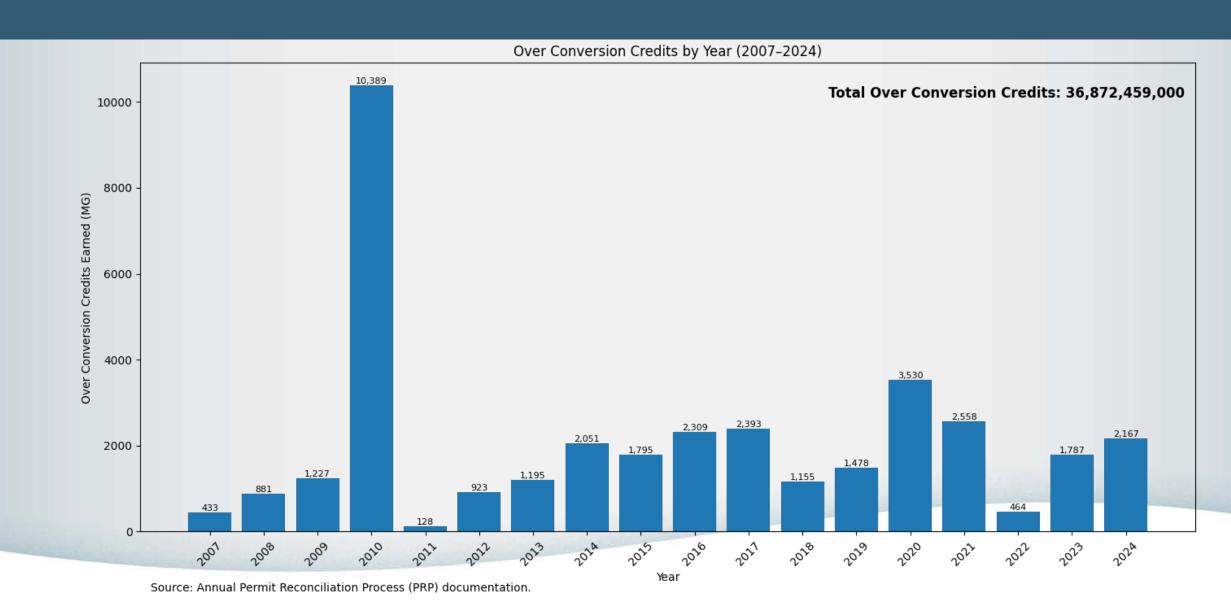
*Updated as of March 2025





Source: WHCRWA HGSD Regulatory Plan (2007-2009), WHCRWA PRP, Permits, and Annual Report Submittal(s) (2010-September 2025)

OVER CONVERSION CREDITS (OCC) EARNED BY YEAR



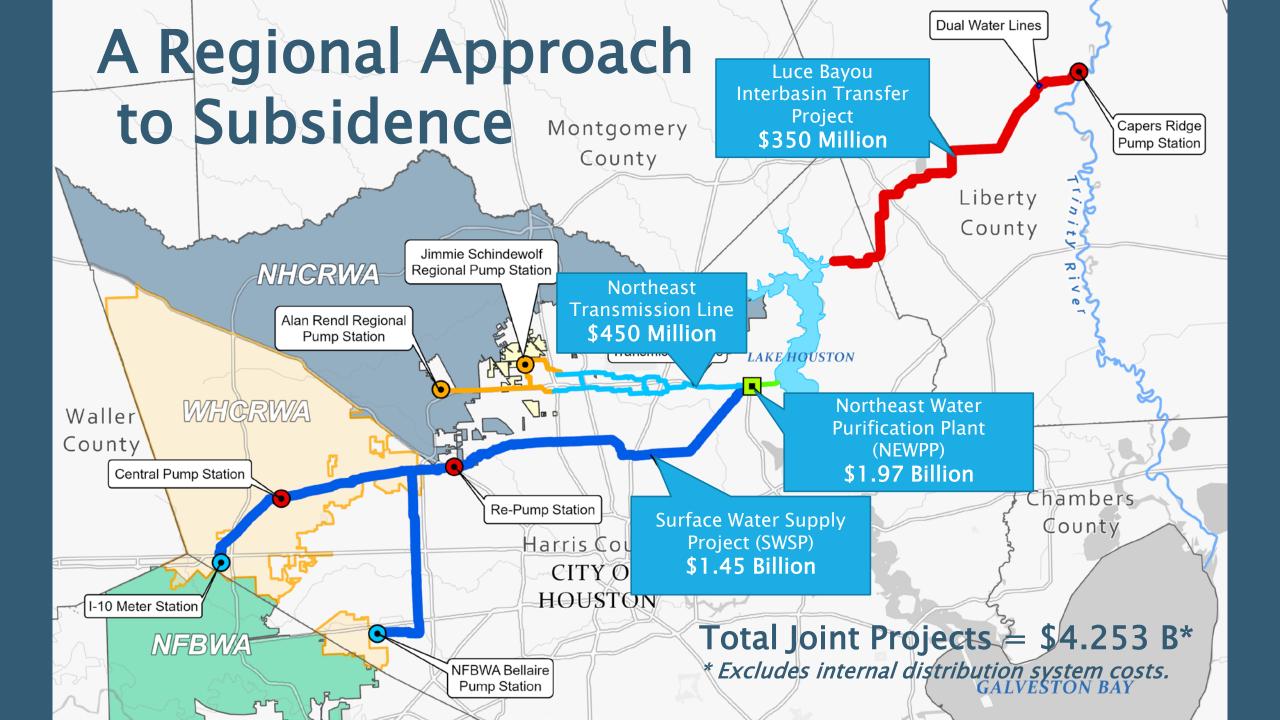


A REGIONAL APPROACH TO SUBSIDENCE



A REGIONAL APPROACH TO SUBSIDENCE





LUCE BAYOU INTERBASIN TRANSFER PROJECT

whcrwa.net/proj



500 MILLION

Gallons a day



Dual 96" Pipeline

23/

Miles of Canals

\$350
MILLION

Total Project Cost



\$70

WHCRWA Cost Share



TREATING THE WATER: NEWPP 320 MGD EXPANSION





Phase 1 Expansion

Phase 2 Expansion





\$1.973

BILLION

Design Build Project

\$488 MILLION

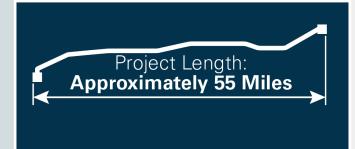
WHCRWA Cost Share

Once Phase 1 & Phase 2 are complete WHCRWA will have 25.76% of the expansion project or 82.42 MGD capacity. The capacity and costs are strictly related to the expansion.



WHCRWA SURFACE WATER SUPPLY PROJECT (JOINT PROJECT WITH NFBWA)

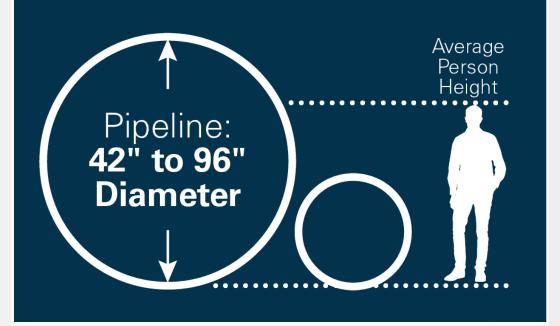
surfacewatersupplyproject.com



Construction of 2 Pump Stations







Estimated Cost

\$1.45

BILLION

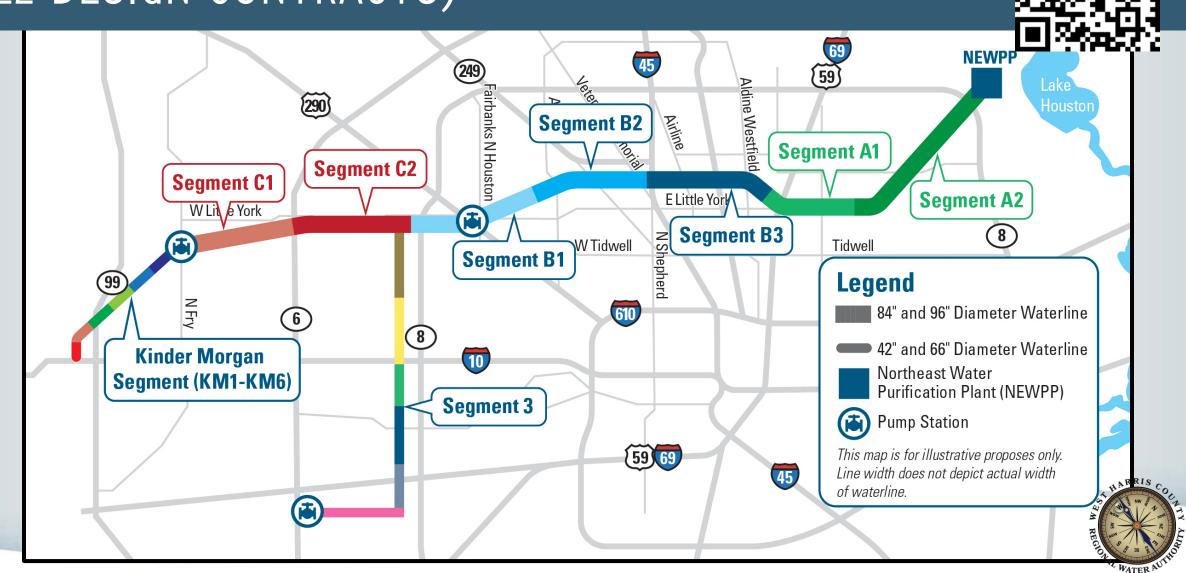
\$785 MILLION WHCRWA Estimated Cost Share



SURFACE WATER SUPPLY PROJECT

(22 DESIGN CONTRACTS)

surfacewatersupplyproject.com



2025 CONVERSION COSTS — WHCRWA'S SHARE

Over \$1.8 BILLION Through 2025

Cost includes 30% and 60% Conversion, Construction, Design, and Financing Costs

\$70 MILLION



Luce Bayou

\$488 MILLION



NEWPP

\$785

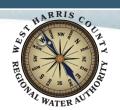


SWSP

\$378
MILLION



Distribution System



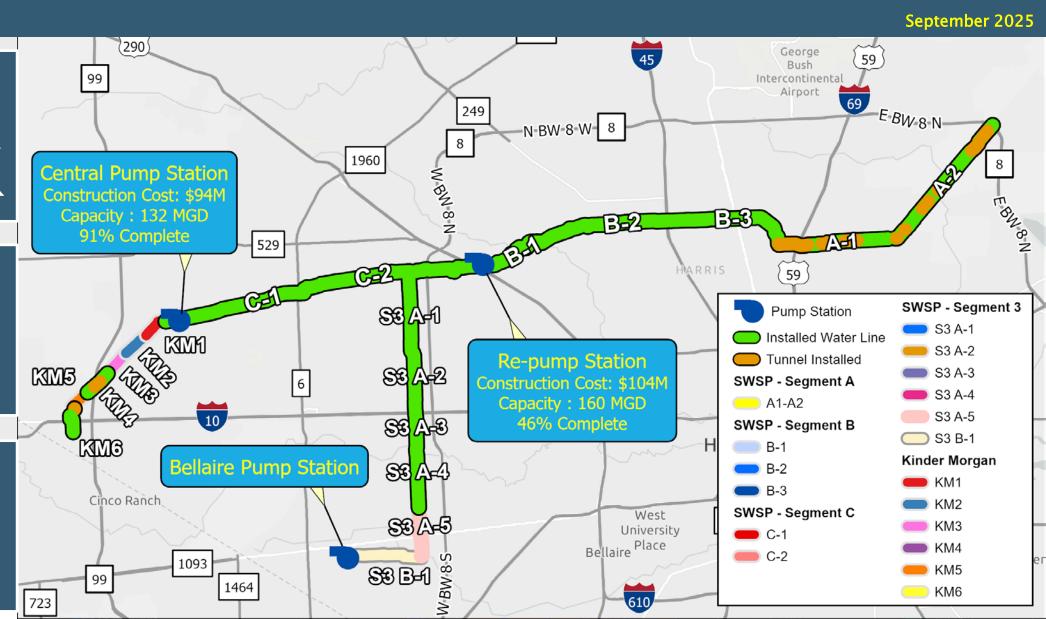
Where are we today?

CURRENT SWSP CONSTRUCTION PROJECTS OVERVIEW

Total (LF)
Installed
239.4K

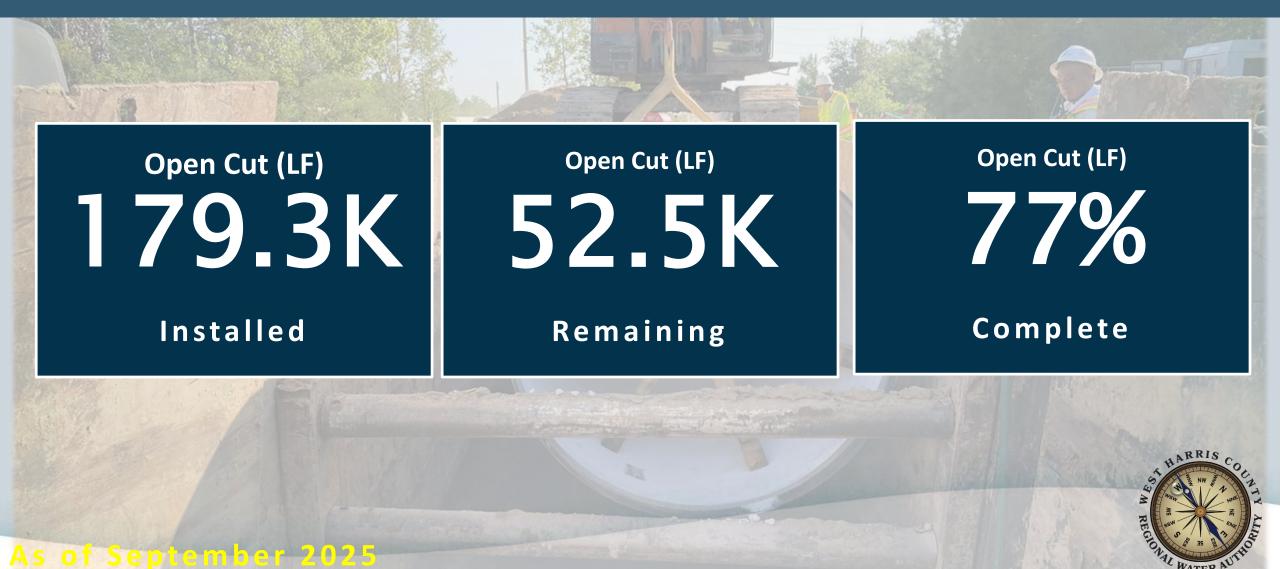
Total (LF)
Remaining
59.4

Total (LF)
Complete
80.1%



SWSP OPEN-CUT CONSTRUCTION

232K LF / 43.9 MILES



SWSP — OPEN-CUT





OPEN-CUT CONSTRUCTION



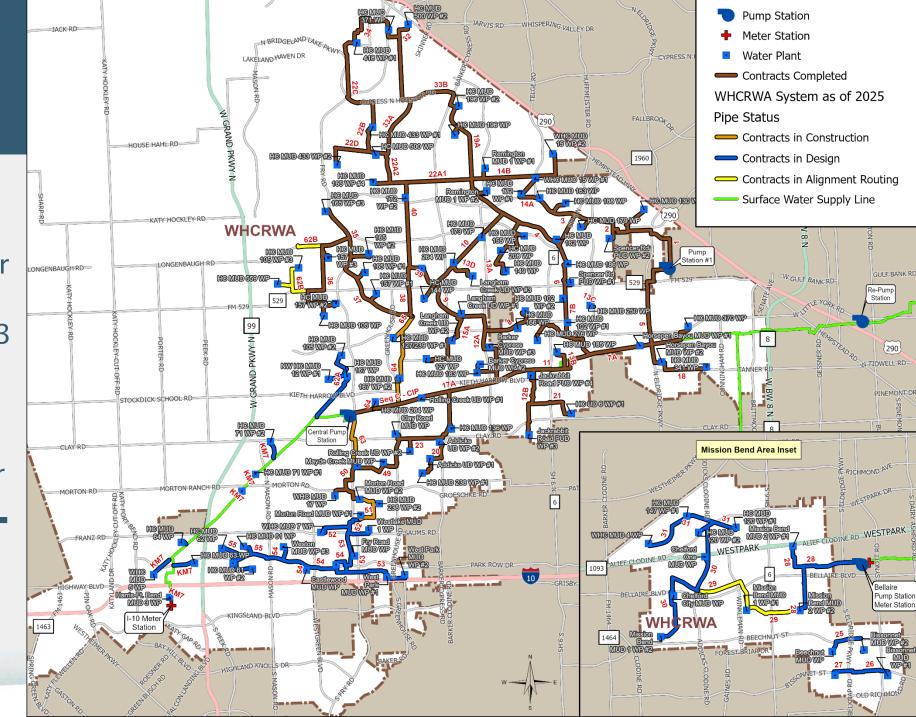
SWSP TUNNEL CONSTRUCTION

67K LF / 12.68 MILES



2025 CIP SYSTEM

- > \$295MM Cost
- > 17 2025 CIP Contracts
- → 33.11 Miles of new water lines
- 31 Additional MUDs & 43 Additional Water Plants connected
- > 12" 60" diameter lines
- > 16 MGD additional water
- > 114.51 Total Miles of water distribution lines
- > 113 Connected Water Plants



2025 CIP DISTRIBUTION — CONTRACT 63

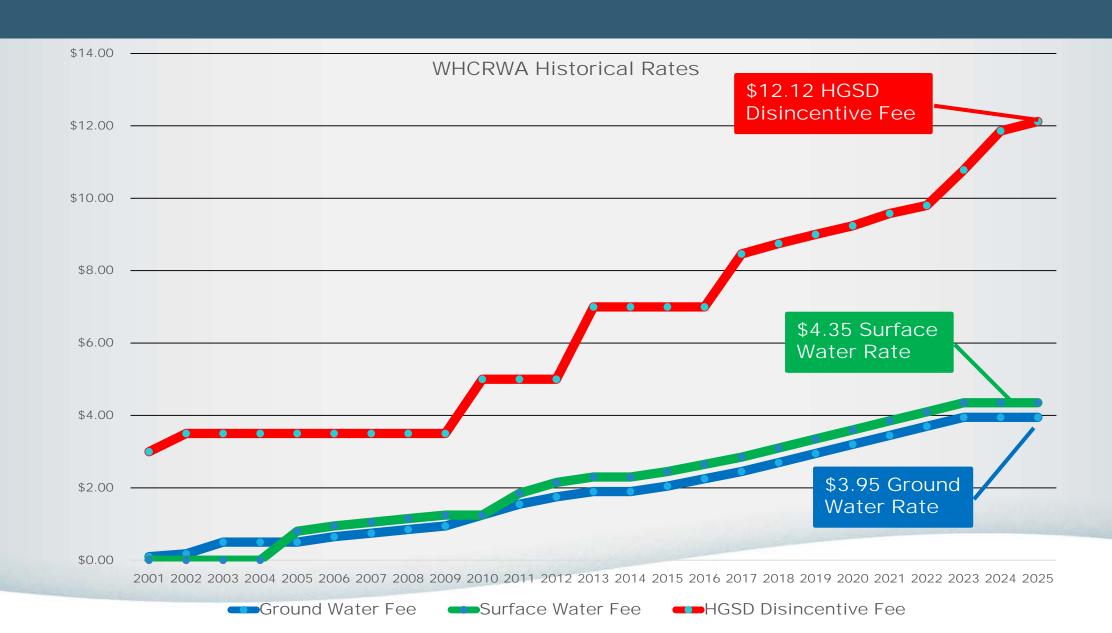


Did you know?

(The serious stuff.)



HISTORICAL WATER RATES



A DIFFERENT PERSPECTIVE ON RATES

The WHCRWA does not assess property taxes. But, what if it did?

- The WHCRWA rate would be \$0.21 / \$100 in value (based on a home value of \$250,000, 10,000 gal/month use, and a WHCRWA rate of \$4.35)
- The WHCRWA would be the 7th highest tax rate in the county behind: Katy ISD (\$1.12), HISD (\$0.87), Houston (\$0.52), Katy (\$0.43), Harris County (\$0.39), MUDs (\$0.31 \$1.05)*
- * Special Note: MUDs assess a property tax <u>and</u> also charge a water rate. The water only rate of many MUDs is similar to the WHCRWA rate.

2035 — 80% CONVERSION

- > Already in the planning stages.
 - 19+ Additional MUDs to convert
 - 31 Water plants to connect
 - Route alignment
 - Easement acquisition
- > Expected to include City of Katy
- > Expected Cost: \$213,000,000
- > 50+ miles of pipe
- > Expected to be built in 10 20 contracts
- ➤ Water Line Sizes of 12" 54 "



Did you know?

(The fun stuff.)



SNAP SHOT — 10/8/2025

	Length (Miles)	# of Contracts	Diameter
WLs in Construction	51	15	12" to 96"
WLs in Design	33	~19	12" to 54"
2035 CIP "Future" WLSs	50+	~10-20	12" to 54"







Note: This is a snap shot of where we are & where we are going.



NEWPP (EXPANSION PROJECT)

CONSTRUCTION COST: \$1.972B ◆ CAPACITY: 320 MGD

98.6% COMPLETE September 2025



NEWPP





SWSP — CENTRAL PUMP STATION

◆ CAPACITY: 132 MGD ◆ 91% COMPLETE

September 2025 CONSTRUCTION COST: \$94M



SWSP — SEGMENT B3 LONG TUNNEL

• The 8500 Lovat tunnel boring machine (TBM) is a refurbished dual-mode TBM that has done work previously in Houston. The complete tunnel was done in open-mode.

TBM Size: 128" ODPipe Size: 96" inch

Schedule: 3 years

Best Day of Production 224

Feet of tunnel



Prior to Refurbishment

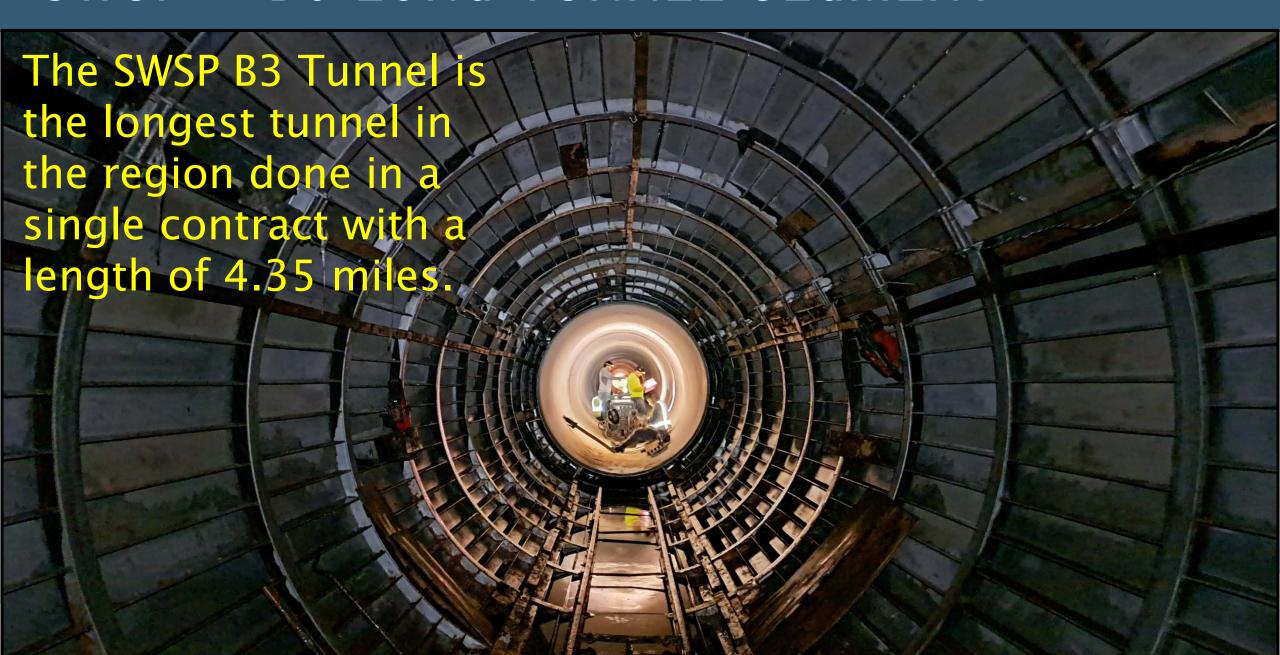


WHCRWA Board with refurbished TBM



23000' Tunnel Completion

SWSP — B3 LONG TUNNEL SEGMENT



SWSP — TUNNEL MACHINES



"SHERYL"



"SUZZANN"





