



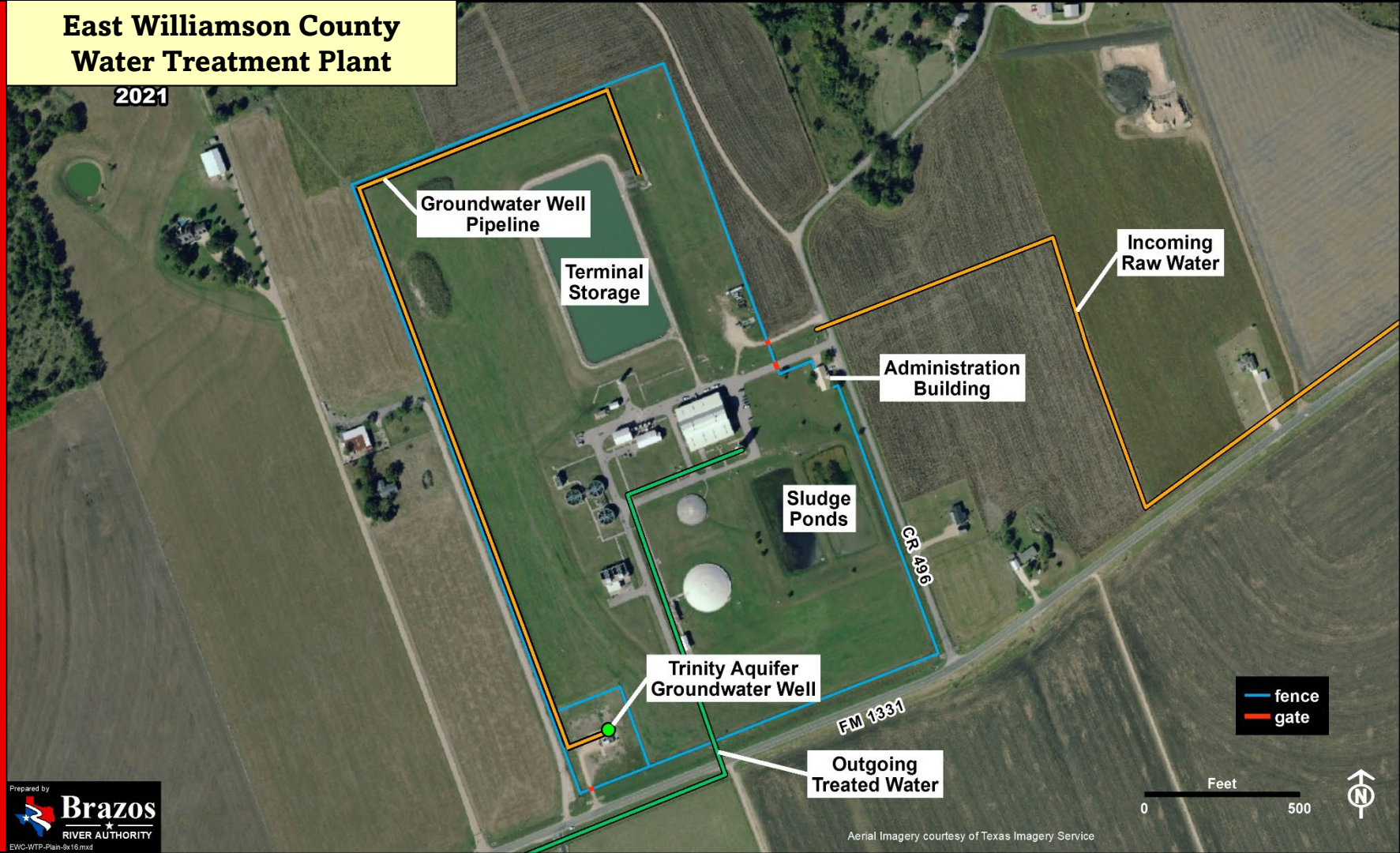
East Williamson County Water Treatment Plant Expansion

***Presented by
Brad Brunett
Central & Lower Basin Regional Manager***



East Williamson County Water Treatment Plant

2021





Treatment Plant

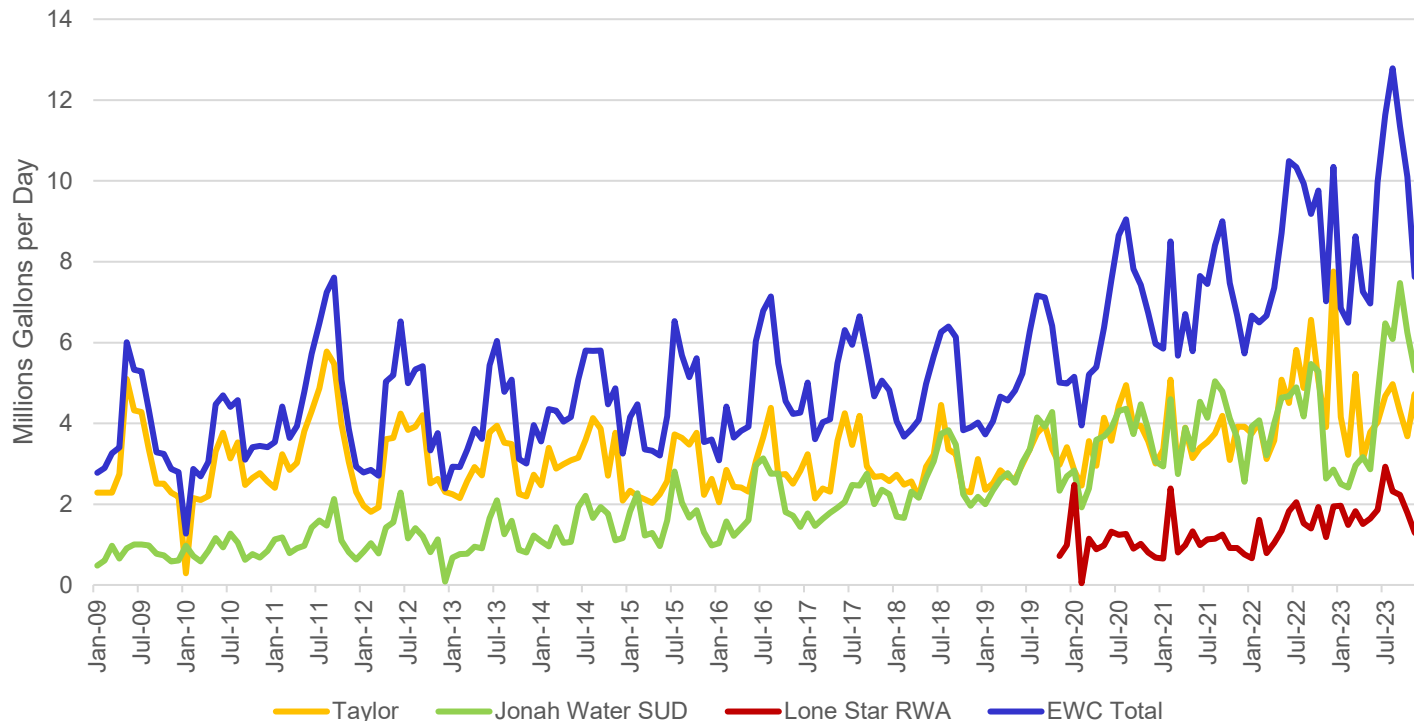


- **Built in 1990**
- **Purchased by BRA in 2004**
- **Previous expansion completed in 2008**
- **Max treatment capacity is \approx 13 MGD**



EWC Historical Peak Demands 2009-2023

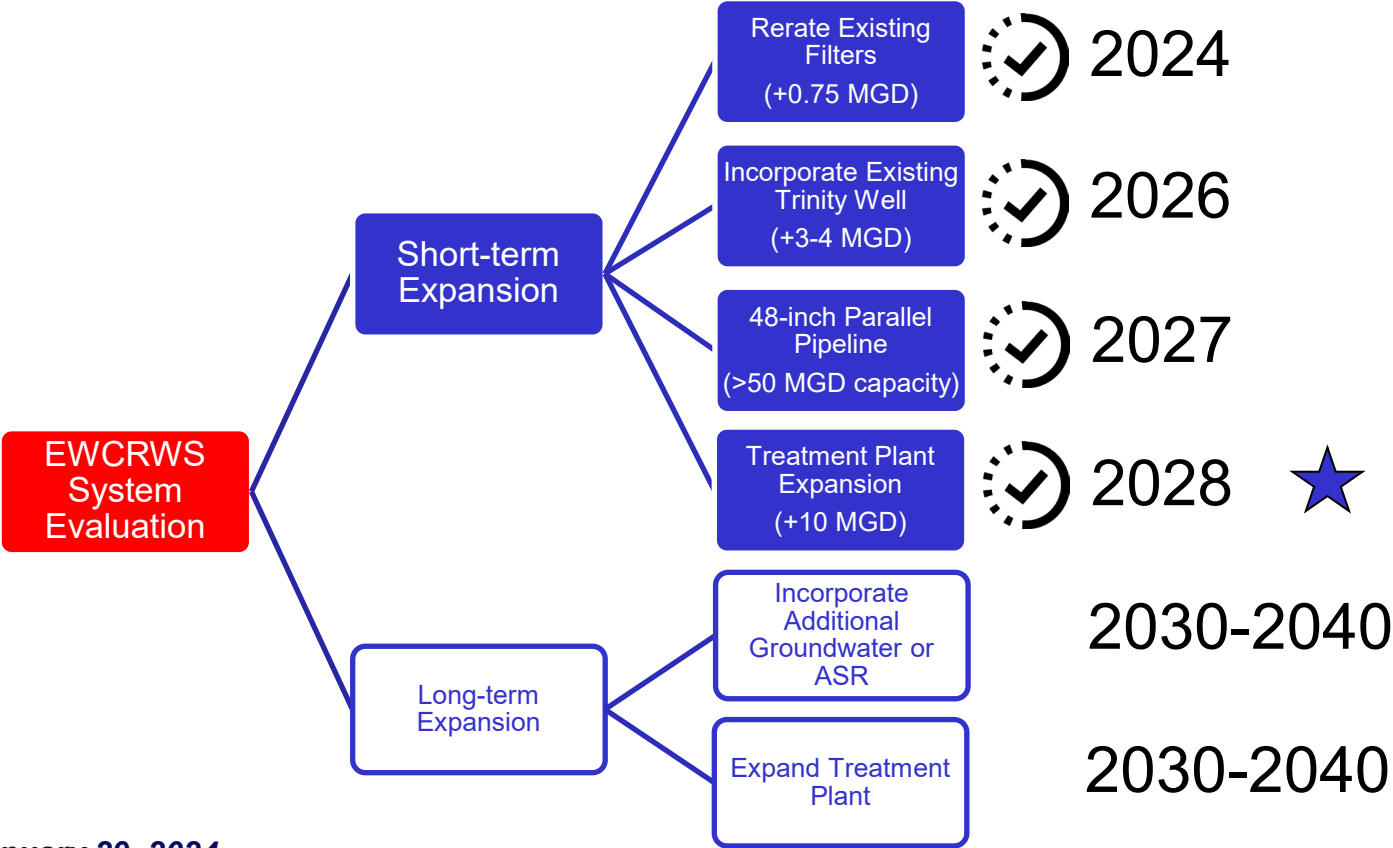
Peak Flow by Month



Project Objectives

- Expand EWC WTP by 10 MGD to meet customer demands:
 - Intake & Terminal Storage Pumps
 - Filters
 - Clarifiers
 - Chemical System Upgrades
 - Clear Well Storage
 - Sludge Lagoons
 - New Treated Water Pump Station

Project Approach





Engineering Contract Tasks

- **Detailed Design**
 - **30/60/95/100% Detailed Design Submittals**
- **Physical Hydraulic Modeling**
- **Transient Surge Analysis**
- **Subsurface Utility Engineering**
- **Geotechnical Investigation**
- **Supplemental Surveying**
- **Regulatory Coordination**
- **Bid Phase Services**
- **Construction Contract Administration Services**
- **Construction Phase Engineering Services**
- **Resident Project Representative Services**
- **Pipe Loop Testing (if determined necessary)**
- **O&M Manual and Start-up Services**

Cost and Schedule

Design/Bid Phase Schedule & Cost	Duration	Cost
Detailed Design	Month 1-16	\$6,196,753
Physical Pump Modeling	Month 1-5	\$224,836
Transient Surge Analysis	Month 1-5	\$116,452
Subsurface Utility Engineering	Month 1-4	\$61,234
Geotechnical Investigation	Month 1-7	\$172,862
Supplemental Surveying	Month 1-5	\$62,506
Regulatory Coordination	Month 1-18	\$40,728
Bid Phase Services	Month 16-20	\$354,376
Construction Contract Administration Service	Month 20-57	\$211,554
Construction Phase Engineering Services	Month 20-57	\$3,635,095
Resident Project Representative Services	Month 20-56	\$3,762,280
Pipe Loop Study	TBD	\$112,220
O & M Manual and Startup Services	Month 50-56	\$461,473
Total	57 Months	\$15,412,369

“BE IT RESOLVED that the Board of Directors of the Brazos River Authority hereby authorizes the General Manager/CEO to negotiate and execute a professional services contract with CDM Smith, Inc., for all activities required for the permitting, engineering, design, and construction oversight services for expansion of the East Williamson County Water Treatment Plant and associated raw water pumping capacity to approximately 24 million gallons per day, in an amount not to exceed \$15,412,369.”



**Brazos
River
Authority**