



Williamson County Regional Raw Water Line Phase III Pumps

Presented by

Brad Brunett

Central/Lower Basin Regional Manager



Williamson County Regional Raw Water Line Customer Service Areas

A Water Supply Project by



City of Georgetown

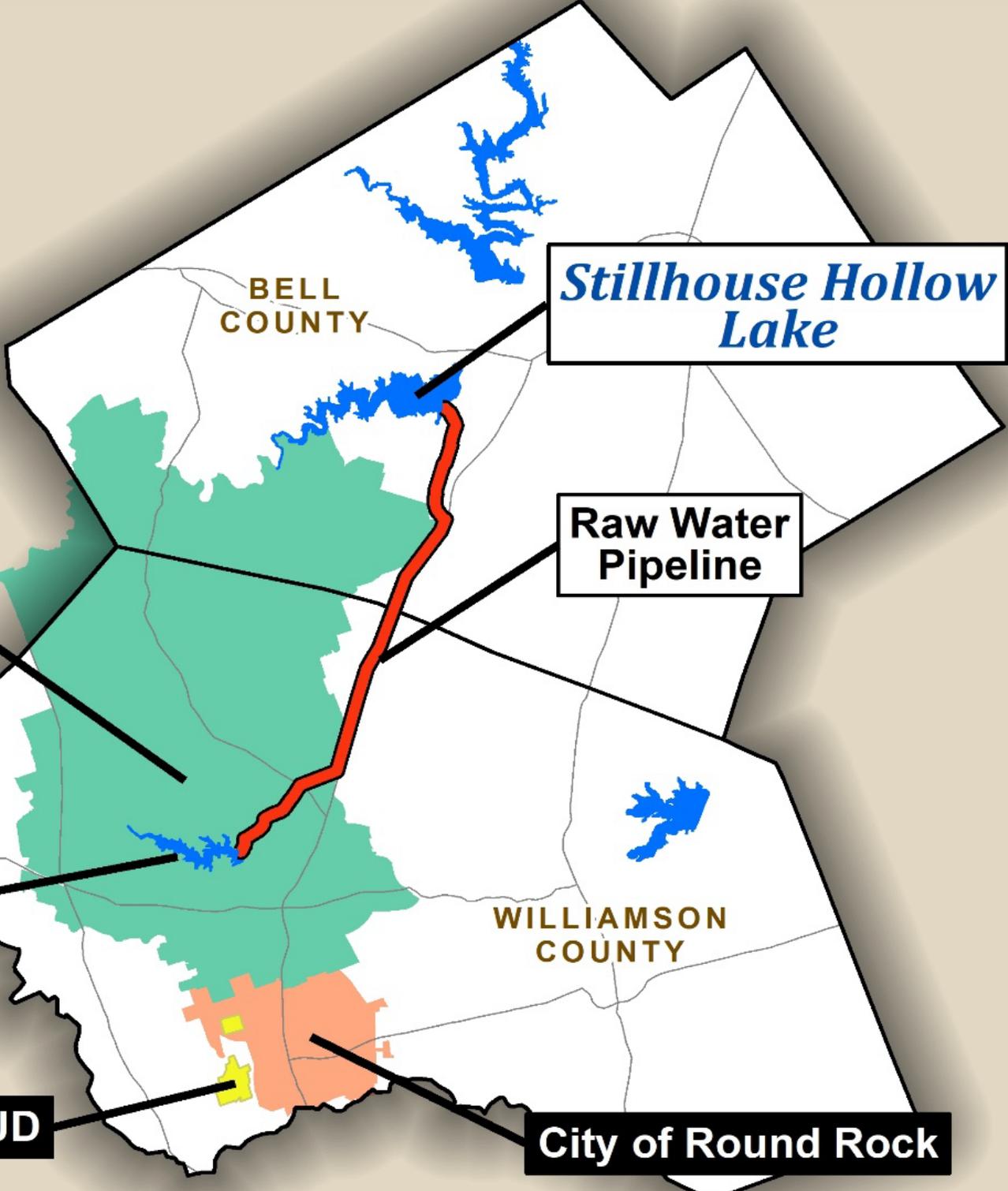
Lake Georgetown

Brushy Creek MUD

Stillhouse Hollow Lake

Raw Water Pipeline

City of Round Rock



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Stillhouse Hollow Pump Station and Pipeline



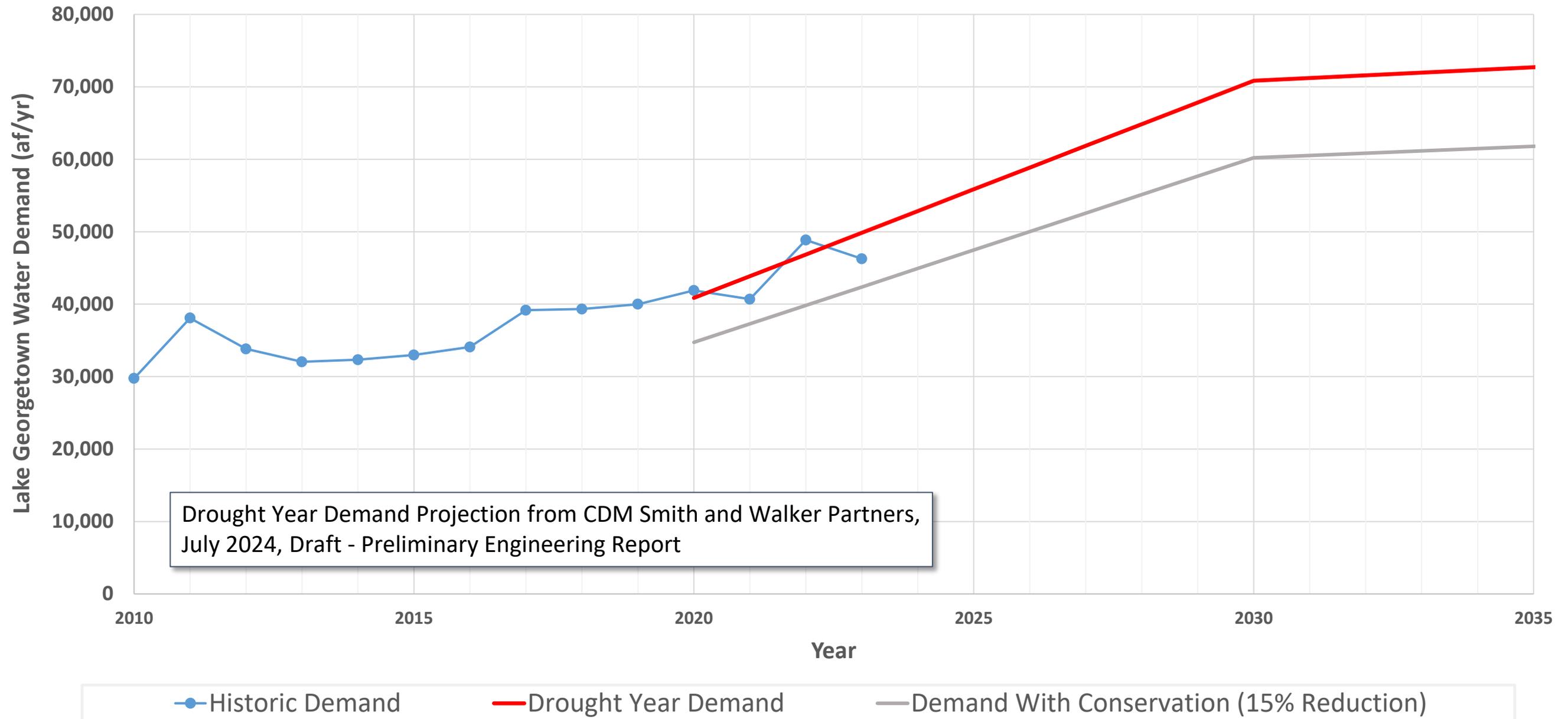


System Assessment and Preliminary Engineering

- **BRA Customer contracts require periodic inspection/assessment**
- **Increasing demands necessitated evaluation of capacity expansion**
- **CDM Smith selected through RFQ process**
- **Major recommendations from assessment and preliminary engineering for pumping capacity expansion:**
 - **Remove and replace the 4 existing pumps and motors with 4 new larger pumps and motors**
 - **Replace approximately 3,100 feet of pipeline with a higher-pressure class pipe required for the increased pumping capacity**
 - **New Electrical Building for VFD's and MCC, ONCOR 12.4kV powerline and 500KVA transformer**



WCRRWL Demand Projection





Major Scope of Work Elements & Fee

Engineering Design and Associated Services	\$6,338,511
<i>Surveying</i>	
<i>Subsurface Utility Engineering</i>	
<i>Easement Acquisition</i>	
<i>Geotechnical Investigation</i>	
<i>Physical & Numerical Hydraulic Modeling</i>	
<i>Environmental Investigations and Permitting</i>	
<i>Construction Contract Documents, Bidding, & Contractor Procurement</i>	
<i>Discharge Pipe Header Non-Destructive Testing</i>	
<i>Electric Utility Coordination</i>	
<i>Pipeline Protection, Repair, and Corrosion Engineering Services</i>	
<i>As-Built Pipeline Plan and Profiles</i>	
<i>Pump Station Laser Scanning and Vibration Modeling</i>	
Construction Contract Administration & Engineering	\$2,151,770
Resident Project Representative Services	<u>\$2,173,254</u>
TOTAL NOT TO EXCEED FEE:	\$10,663,536



“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 agreement with CDM Smith, Inc., for all activities associated with the permitting, engineering, design, bidding, construction phase engineering, and resident project representative services for expansion of pumping capacity to approximately 56 million gallons per day at the Williamson County Regional Raw Water Line intake structure on Lake Stillhouse Hollow and associated improvements to the pipeline and appurtenances in an amount not to exceed \$11,000,000.00.”



Brazos River Authority



Brazos

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RIVER AUTHORITY