



Temple-Belton WWTP Aeration Improvement Project Equipment Purchase Contract

Presented by

Brad Brunett

Central & Lower Basin Regional Manager



Background

- **BRA operates the Temple-Belton Wastewater Treatment Plant for the Cities of Temple and Belton (10 million gallons/day plant capacity)**
- **Cost reimbursable Operations & Maintenance Agreement**
- **Annual budget and capital improvement work is coordinated with the Cities**
- **Been working with the Cities to increase aeration capability as a result of increased plant loading**





Aeration Improvement Project

- **Original plant design used fixed, rotating disc aerators**
- **Plant has been struggling with aeration due to growth and increased loading**
- **Existing rotating disc aerators are outdated and inefficient**
- **Repair/replacement of outdated aerator components usually requires machine shop work and long lead times**
- **BRA and Cities developed a multi-year plan for providing supplemental air with newer technology and equipment; early phases proved successful**
- **Current phase of project will consist of installation of additional aeration equipment, piping, support framing, air lifts, and diffuser plates**
- **Permanent installation will be performed by BRA maintenance staff**
- **Fine bubble air diffusion from the project will provide better treatment capability**
- **Significant savings to the Cities and will work in concert with Phase 2 plant expansion that will increase the plant capacity to 16 mgd**



Requested Purchase Authorization

- **Equipment to be purchased includes air lifts, piping, connections, and brackets**
- **Two companies submitted bids**

Excel Construction Services, LLC.	Boyer, Inc.
\$934,700.00	\$1,242,354.00

- **Project has been coordinated with the Cities who will pay all costs**
- **Recommending purchase from Excel Construction Services, LLC**
- **Purchase requires Board authorization since it is in excess of \$500,000**



Photographs from Prior Phase of Project





Installation Work





Aeration Piping from Blowers to Diffuser Plates





Before and After Addition of Diffuser Plate





Aerial View





“BE IT RESOLVED that the Board of Directors of the Brazos River Authority hereby authorizes the General Manager/CEO to execute a contract with Excel Construction Services, LLC, to purchase equipment and materials required for the Temple-Belton Wastewater Treatment Plant Aeration Improvement Project for an amount not to exceed \$934,700.00.”



Brazos

RIVER AUTHORITY