



Statement of Qualifications Presented to the Greater Texoma Utility Authority
Wastewater System Improvements

February 25, 2019

Drew Satterwhite, P.E.
General Manager
Greater Texoma Utility Authority
5100 Airport Drive
Denison, TX 75020

Re: Request for Qualifications for Engineering Services - Wastewater System Improvements

Dear Mr. Satterwhite:

KSA is pleased to submit this proposal to provide professional engineering consulting services to the Greater Texoma Utility Authority on behalf of the City of Whitewright. We have reviewed the RFQ and designed our proposal to address the issues as they relate to this project.

KSA's project manager, David Perkins, P.E., has worked closely with the city's and GTUA's staff to understand the issues affecting the wastewater plant, as well as its operations and operators. Our staff has a significant understanding of the city's operational and financial challenges, and we have enjoyed the opportunity to assist the city's staff in its endeavors to ensure that the needs of the community are met.

From the enclosed information, you will find that the KSA team has an excellent record of performance in providing quality service. We are confident we have the team and project experience that can provide the Greater Texoma Utility Authority and the City of Whitewright with the quality service it needs, and the expertise required to make this project a success for both the operations staff and the community.

We trust this proposal provides all the requested information. Please contact me or our Project Manager, David Perkins, P.E., at 972.542.2995, if you have any questions or require additional information about KSA to complete your assessment of our capabilities.

We appreciate your consideration of our proposal. We look forward to hearing from you regarding your review of the proposal and the opportunity to work with the Greater Texoma Utility Authority and the City of Whitewright to complete these critical improvements to the city's wastewater treatment facility.

Sincerely,

KSA



Mitchell L. Fortner, P.E.
President
mfortner@ksaeng.com



David Perkins, P.E.

Project Manager

David Perkins, P.E., a project manager with KSA, has been with the firm since 2009. David has 10 years of experience with the evaluation, design, and construction of water distribution systems and wastewater collection systems, including pumping, storage and treatment facilities. David has served as a project manager for many municipal civil engineering projects, a large portion which have been funded by state or federal agencies. His experience ranges across a wide variety of projects varying in scope from the replacement of a single pipeline, to large scale system improvements, and from the evaluation of existing treatment, storage and pumping facilities (both water and wastewater) to the design of new turnkey facilities.

During the course of his career David has assisted many communities with all aspects of their water and sewer infrastructure needs. This experience includes the design, bidding and construction management aspects related to municipal projects of this nature, including hydraulic modeling, easement acquisition, trenchless installation methods, and TxDOT permitting.

Education

Master of Science in Civil Engineering
Texas Tech University, 2008

Bachelor of Business Administration in Management
Information Systems, Texas Tech University, 2002

Professional Licenses and Certifications

Professional Engineer / TX #111631, 2012

- City of Chico - WWTP Improvements for Use of Reclaimed Water
- City of Collinsville - Wastewater Treatment Plant Permit Renewal TPDES
- City of Dodd City - Wastewater Treatment Plant Improvements - SEP
- City of Grand Prairie - Water and Wastewater Improvements behind 321 W. Main Street from Center Street to Northwest 6th Street
- City of Honey Grove - TPDES Permit Renewal for Wastewater Treatment Plant
- City of Honey Grove - TWDB DWSRF Water Distribution System Improvements
- City of Jacksboro - Wastewater Treatment Plant Discharge Permit Renewal
- City of Jacksboro - Wastewater Treatment Plant Modifications
- City of Ladonia - Wastewater Treatment Plant TPDES Permit Renewal
- City of Lindsay - Wastewater System Improvements
- City of Lindsay - Wastewater Treatment Plant Evaluation
- City of Savoy - Wastewater Treatment Plant Improvements
- City of Whitewright - 2018 DWSRF Water System Improvements
- City of Whitewright - Lift Station Improvements
- City of Whitewright - Waterline Relocation in Creek Crossing
- City of Wolfe City - CWSRF Sewer System Improvements
- City of Wolfe City - DWSRF Distribution System Improvements
- East Cedar Creek FWSD - 2017-2018 Bond Projects-South WWTP Improvements
- East Cedar Creek FWSD - North Side Water and Wastewater Mapping
- East Cedar Creek FWSD - North Wastewater Treatment Plant Belt Press
- East Cedar Creek FWSD - Wastewater Treatment Plant Permit Renewal



Joanna Anzalone, P.E.

Project Engineer

Education Bachelor of Science in Civil Engineering, The University of Illinois at Urbana-Champaign, 2006

Professional Licenses and Certifications Professional Engineer / TX #124662, 2016

Joanna Anzalone, P.E., a project engineer in the KSA McKinney office, has been with the firm since 2014. She has experience with a variety of projects including water and wastewater system analysis and design, storm drainage collection and design, drainage analysis including flood map revisions, residential and commercial land development, and TCEQ permitting. Joanna has worked on projects that have received funding assistance from programs such as Texas Community Development Block Grant Program and the Texas Water Development Board.



Scott O'Brien, P.E.

Project Engineer

Education Bachelor of Science in Civil Engineering, University of Texas at Arlington, 2013

Professional Licenses and Certifications Professional Engineer / TX #132210, 2018

Scott joined KSA's Municipal Services Group in 2015. He earned a Bachelor's of Science in civil engineering at UTA and dedicated himself to sustainable design and connecting people with their environment. He is very passionate about creating sustainable places and has a deep interest in urban ecological design, sustainable development, regenerative design and biomimicry.

After graduating, Scott worked in land development for several years and saw how large an impact development has on society, the economy and the environment. He designed water and storm water facilities, sanitary sewer systems, pavement and grading designs, provided construction administration services, feasibility studies and cost estimates. He is excited to be working in KSA's Municipal Services Group and focus on improving current conditions. Scott believes that designers are charged with the responsibility of creating environments that are best suited for today's needs as well as the future's demands. Scott wants to be a part of creating a sustainable world with KSA and our growing pool of clients.



Matt Armstrong, P.E.

Project Engineer

Education Bachelor of Science in Civil Engineering, University of Texas at Tyler, 2014

Professional Licenses and Certifications Professional Engineer / TX #130903, 2018

Matt Armstrong, P.E., brings three years of experience to KSA's Municipal Service Group. Under the supervision of office project managers he has been able to gain experience in roadway design and reconstruction, bridge reconstruction, installation and adjustment of utilities, and site development. Matt holds a strong background in roadway reconstruction and has worked with multiple cities throughout North Texas designing residential and arterial roads, utility relocations, and additions to storm/water/sewer systems. During the course of his career, Matt has assisted in over 25 projects covering many aspects of municipal design. KSA's Municipal Service Group becomes a part of the community in which they work. Matt is invested in making changes to the infrastructures and communities that he serves.



Dallas Wendling, E.I.T.

Design Engineer

Education Master of Science in Environmental Engineering, Texas Tech University, 2016

Professional Licenses and Certifications Engineer-in-Training / TX #56631, 2016

After completing an internship with KSA in the summer of 2015, Dallas joined our team of diverse and skilled engineers. Hailing from Plano, Texas, Mr. Wendling graduated Magna Cum Laude from Texas Tech University with a master's degree in environmental engineering. Dallas believes it's important to find purpose in your work to enjoy and be successful at what you do. He is sure to find purpose in KSA's Municipal Division. The Municipal Division becomes a part of the communities in which they work; investing in their welfare through projects like water and wastewater treatment plants, street and drainage improvements and recreational facilities.



Tracy Hicks, P.E.

Quality Assurance/Quality Control

Education Bachelor of Science in Civil Engineering, Texas A&M University, 1980

Professional Licenses and Certifications Professional Engineer / TX, #58055, 1985

Tracy is a Vice President at KSA and seasoned engineering professional equipped with a wealth of knowledge and experiences. For over 35 years, Tracy has served KSA by providing sound engineering solutions and excellent service to clients in various municipalities throughout the south central United States. Tracy's responsibilities with KSA emphasize municipal water, wastewater, and solid waste system improvements. His experience includes facilities planning for wastewater treatment facilities, design of water supply, pumping, distribution systems; wastewater treatment, pumping and collection systems; landfill design; street and drainage structure design.

collection systems; landfill design; street and drainage structure design.



Cong Nguyen, P.E.

Electrical Engineer

Education Bachelor of Science in Electrical Engineering, Tulane University, 1992

Professional Licenses and Certifications Professional Engineer / TX # 99600, LA #30746, AR #14680, AZ #40368, NM #21936

Cong Nguyen is an Electrical Engineer who has been with KSA since 2013. With decades of electrical engineering experience, Cong specializes in power systems, instrumentation and control design, and can provide construction management services for projects of all sizes and complexities. His project experience includes water and wastewater treatment facilities, oil and gas drilling and production platforms, as well as petrochemical facilities, refineries, manufacturing facilities, correctional facilities and operation/administration buildings.

manufacturing facilities, correctional facilities and operation/administration buildings.



Leslie Shaw, P.E.

Electrical Engineer

Education Bachelor of Science in Electrical Engineering, University of Missouri- Rolla, 1977

Professional Licenses and Certifications Professional Engineer / TX, #52576, 2013

Leslie (Les) Shaw, P.E., an electrical engineer at KSA, has been with the firm since 1999. Les assists project managers with electrical engineering expertise on all projects containing electrical components. His experience is in conceptual studies, estimating, budgeting, and development of PIDs, single line diagrams, facility layouts, electrical area classifications, detailed design drawings, and procurement specifications.





Greg D'Arcy, P.E.

Civil Engineer - Technical Resource

Education Master of Science in Civil Engineering, University of Texas; Bachelor of Science in Chemical Engineering, Texas A&M University

Professional Licenses and Certifications Professional Engineer / TX #86894, 2000

Greg D'Arcy, P.E., recently joined KSA's Municipal Services group. Greg is a Water/Wastewater Project Engineer with over 20 years of experience in process design and plant design. He is an accomplished leader in multiple water/wastewater industries and has very strong technical abilities. He has been responsible for overseeing two professional engineers and two senior designers and has managed a water reclamation study. He has experience in managing, tracking the budget, scope of work and all scheduling aspects of projects. Greg led the preliminary design of a 9-MGD wastewater treatment

plant and led the preliminary design basis report, preliminary design drawings, and process calculations for the aeration systems, digesters, clarifiers, and blowers. Greg has a vast array of knowledge and experience with all aspects of water/wastewater projects and routinely completes projects on time and under budget.



Chris Aylor, P.E.

Civil Engineer - Technical Resource

Education Bachelor of Science in Civil Engineering, Texas Tech University, 1998

Professional Licenses and Certifications Professional Engineer / TX #92660, 2003

Chris has served as a project manager for a number of municipal and industrial civil engineering projects. Now a principal at KSA, Chris joined the firm in 1999 and dedicated himself to his clients and KSA as a whole. Chris' experience includes the analyses and design of water and wastewater systems including water and wastewater treatment, water distribution and wastewater collection systems. Chris is passionate about mentoring young engineers to help them reach their full potential, both personally and professionally. During the span of his career, Chris has managed projects through various governmental programs and entities, including the Texas Water Development Board (TWDB).



Bob Lane, P.E.

Civil Engineer - Technical Resource

Education Bachelor of Science, Civil Engineering, University of Missouri-Columbia, 1996

Professional Licenses and Certifications Professional Engineer / TX #126582, 2017; GA #29461, 2004; SC #23147, 2003

Bob serves as a Regional Manager in KSA's Municipal Services group. Leading our Austin office, Bob is a seasoned civil engineer with nearly 20 years of experience designing water and wastewater treatment systems for municipalities. Bob is passionate about client satisfaction. Over the course of his career, Bob has mastered the art of quickly recognizing the priorities of his clients in order to tailor his actions to satisfy their needs. He is a hard worker who believes engineers should dedicate themselves to continuous improvement to grow and evolve with the field. Bob is an advocate of mentorship and

considers teaching young engineers one of the most rewarding aspects of his job.



Clayton Scales, P.E.

Civil Engineer - Technical Resource

Education Bachelor of Science in Civil Engineering, Texas A&M University, 1997

Professional Licenses and Certifications Professional Engineer / TX #95882, 2005; OK #24394, 2010; NM #19744, 2010; AR #13700, 2009

Clayton Scales, P.E., principal, has been with the firm since 2002. He has over 21 years of experience with planning, design, and construction of wastewater systems. His experience covers the entire range of wastewater system improvements, including collection lines, lift stations, and treatment plants and much of his work is for small-to medium sized towns. He tailors his designs to the preferences of each client and the specific requirements of each, providing designs for wastewater systems that take into account present and future needs, while ensuring that they are affordable and easy to operate and maintain.

The following project descriptions detail a sample of KSA's experience with wastewater systems in the North Texas area and include design and/or construction services.

TWDB CWSRF Wastewater System Improvements - Whitewright, TX

The City of Whitewright maintains a lift station near the intersection of Echols and Bond Streets. The lift station is located near a private residence and is operating at the limits of its capacity. The city hired KSA to design a new replacement lift station. The city is also experiencing growth between SH 160 and US 69. A large portion of this area cannot be served by the existing gravity sewer system. KSA was hired to design a new lift station to serve this area.

Wastewater System Modeling and Report - Lindale, TX

The City of Lindale hired KSA to assess the current and future capacity of the city's wastewater system. To measure the system's capacity to convey the required flow and pumping of sanitary sewer matter throughout the collection system, KSA collected and reviewed existing historical documents. Those documents included historical flow monitoring data for lift stations as well as the plant's influent and effluent records. We modified the existing map, assigned average and peak flows, then prepared a computer model of the existing collection system.

After the model was prepared, our engineers noted areas in need of correction and prepared city-wide flow projections for the next 5, 10, and 20 years. We modeled future collection system improvements for the conditions of each projected year. The system elements that were investigated included gravity collection mains, lift stations, force mains, and wastewater treatment influent capacity (excluding a capacity analysis of the treatment plant). Finally, the team prepared a report that documented the procedures used during the analysis and the results obtained. The report contained maps showing phased improvements to the collection system for each design year along with estimates of capital costs.

TWDB Wastewater Treatment Plant Improvements - Savoy, TX

The wastewater treatment plant in Savoy is comprised of a single, undersized treatment train. The plant's single train cannot be taken out of service to repair key process components that have deteriorated into a condition that makes it difficult for the city to meet their current effluent requirements. To remedy this problem, KSA was hired to evaluate the plant, make recommendations for improvements, and assist in securing Texas Water Development Board (TWDB) funding, as well as design the required improvements, and administer construction and commissioning of the new plant.

KSA conducted a detailed evaluation of the existing plant to thoroughly assess its condition and determine the feasibility of various improvement options. We spent time with the operators discussing several treatment options, potential process improvements, as well as current and historical

issues associated with plant operation. Upon completion of the initial assessment, KSA worked diligently with the City of Savoy's staff to prepare the Clean Water State Revolving Fund (CWSRF) application. The CWSRF program is a partnership between the federal and state government that provides a stable source of low-cost financing for water quality infrastructure projects like this one. With constructability, operability, and economy in mind, KSA is currently starting the preliminary stages of design for the new plant. These improvements will provide an efficient, practical treatment solution capable of meeting the city's current and future needs.

Wastewater Treatment Plant Improvements - Groesbeck, TX

KSA was hired by the City of Groesbeck to complete all civil engineering for the WWTP improvements project. The project was funded by the TWDB CWSRF program. Our project manager and project engineer prepared a preliminary engineering report, TPDES permit, and EA, hydraulic profiles, treatment unit sizing, equipment specification, construction inspection and oversight and an O&M Manual. This project involved expansion of the existing plant from 0.525 to 0.709 MGD average daily flow with a peak two-hour flow of 1,477 GPM.

Construction included:

- Modifications to aeration basin (2 each)
- Replacement of two existing clarifier drives
- Addition of one clarifier with algae sweeps and full radius scum arm
- Construction of one sludge lift station
- Modification to chlorine contact chambers to increase contact time
- Addition of new digested sludge pump station and polymer feed system
- Addition of two sludge dewatering boxes complete with containment area
- Demolition of abandoned trickling filter and sludge drying bed units
- Installation of new electrical
- Site piping, grading, roads, fencing

Wastewater Collection System Replacement and Improvements - Mount Vernon, TX

KSA and the City of Mount Vernon have enjoyed a long and productive history of successfully completed utility projects throughout the years. In 2008, KSA completed a study that assessed the viability of the city's wastewater collection system. The study identified undersized piping, made recommendations for improvements, and outlined an opinion of probable construction costs. Members of the city's staff also identified deteriorated collection system lines that required repeated repair and maintenance due to age or structural issues. In 2014, KSA further analyzed the requirements of the recommended improvements, considered improvements identified by city staff, provided recommendations for construction improvements as well as an updated opinion of construction costs.

While maintaining sanitary sewer service in the Mount Vernon service area,

roughly 10,000 linear feet of gravity sewer piping was installed. Manholes were either replaced or rehabilitated depending on their condition. The construction team facilitated ground surface repairs, and installed service connections and appurtenances.

Many of the issues affecting the city's wastewater flows were corrected, continuing KSA's tradition of sound engineering design and excellent client service.

Mims Creek Wastewater Treatment Plant - Fairfield, TX

KSA was hired by the City of Fairfield to complete all civil engineering for the Mims Creek Wastewater Treatment Plant project including: Preliminary Engineering Report, TPDES permit, environmental assessment, hydraulic profiles, treatment unit sizing, equipment selection/specification, construction administration and O&M Manual.

This project was unique in that the second stabilization pond was filled in to allow space to construct the mechanical treatment units as overall cost savings to the city. The project was funded by the Texas Water Development Board - Clean Water SRF program.

Construction of a new 1.5 MGD average annual flow wastewater treatment plant with 6 MGD peak 2-hour flow using the extended aeration mode including:

- Mechanical clammer-type screen and manual bar screens
- Grit chambers (vortex type)
- Lift station with 4 submersible pumps with VFDs
- 1 mile of 12-inch forcemain (2 each for redundancy)
- Conversion of existing facultative and first stabilization pond to equalization basins
- Influent splitter box and stormwater diversion box
- Aeration basins (2 each)
- Two clarifiers with algae sweeps and full radius scum arm
- UV disinfection with automatic flow pace and self-cleaning wipers (2 channels, 4 banks)
- Effluent meter with cascade aeration
- Sludge pump station
- Aerobic digester / sludge holding tank with floating aerator
- Sludge drying beds with bypass to allow collection for land application
- Administration and lab building
- Electrical and generator
- Site piping, grading, roads, fencing

Water and Wastewater Improvements - Grand Prairie, TX

KSA and the City of Grand Prairie have worked together on multiple projects over the years. During the late stages of designing a drainage project in the downtown area, city staff requested that KSA design improvements to some existing water and sewer lines in the same area. The improvements were targeted at correcting some known issues and facilitating some

redevelopment efforts in the downtown area. This project was located in an older section of downtown Grand Prairie and the available utility records for the area were lacking, and not very detailed. Prior to beginning the design effort, KSA staff conducted a full evaluation of the existing data that had been gathered from previous projects recently completed in the same area, as well as the project we were working on concurrently. The new improvements would need to be consistent with the improvements that were recently constructed, and coordinated with the ongoing design effort for the drainage project. The improvements for this project would also need to be completed in compact time frame to accommodate a new business, as well as the construction phase of the other project.

The collection system improvements included the construction of approximately 2,100 linear feet of 8-inch sanitary sewer pipe, eight manholes, reconnecting affected services, and installing new cleanouts on those services. The water system improvements included the design and construction of approximately 1,100 linear feet of 8-inch PVC pipe, new valves, and new service connections for the affected customers. The new utilities were constructed primarily by open cut in existing rights of way that were used as parking lots for the downtown businesses. Road crossings and some services lines were installed using trenchless methods to maintain access and minimize disruption to property owners.

To facilitate constructability, it was necessary to provide detailed phasing and traffic control plans. These design elements are crucial to completing any project in a congested downtown area that has active businesses and retail outlets nearby. The traffic control and phasing plans minimized the impact to businesses, while maintaining granted accessibility throughout the project area for neighboring residents, business owners, and customers. With a great deal of organization and coordination, KSA's design team was able fast track design and construction of this project while simultaneously completing the design and early stages of construction of a larger drainage project in the downtown area.

Westside and Southside Wastewater Treatment Plants - Tyler, TX

KSA has provided full engineering design services at the City of Tyler Southside and Westside WWTP from the original construction through numerous expansions and upgrades to the facility. These services include design phase, permitting, and construction phase services.

The Southside plant was originally designed as a 3.0 MGD plant, but is rated for 9.0 MGD in the current configuration. The plant has been operating in the current configuration since 1998. The plant consists of an influent lift station that contains four screw pumps and is followed by bar screens and grit removal systems. Flow from the grit systems is evenly split and flows through two primary clarifiers. Primary clarifier effluent is then split between three aerations basins, each with a design flow of 3.0 MGD. Each aeration basin is followed by a final clarifier. The flow is then combined through the chlorine contact chambers followed by dechlorination. Other units at the facility include a primary sludge pump station, two return sludge pump



stations, a gravity belt thickener to concentrate solids in the aerobic sludge digesters, a sludge holding tank, and a belt press for sludge dewatering. Sludge produced by the facility is hauled to a landfill.

The Westside Plant has a capacity of 13.0 MGD average daily flow. The treatment facility is a two-stage trickling filter plant followed by nitrifying aeration basins. The treatment plant consists of screening facilities followed by grit removal. Flow from the grit systems goes to the influent pump station, which delivers flow to two primary clarifiers. Flow is then split between the first stage and second stage trickling filters before being pumped to the nitrification basins. Effluent from the nitrification basins then flows to the final clarifiers and then to the chlorine contact chambers for disinfection and dechlorination. All sludge produced is anaerobically digested and ultimately land disposed.

KSA has provided engineering services on numerous upgrade projects at the Southside and Westside Plant, including construction of improvements to meet ammonia limits, installation of chlorination and dechlorination systems, digester renovations and upgrades, as well as a bar screen facility.

Wastewater System Improvements - Lindsay, TX

The City of Lindsay selected KSA to provide design and construction phase engineering services for a significant wastewater collection system improvements throughout the city. KSA designed approximately 6,000 linear feet of new 12-inch diameter sewer pipes. The new collection system piping discharges to a new lift station that pumps the collected water through nearly 2,200 linear feet of new 6-inch diameter force main piping on the way to the city's wastewater treatment plant. KSA provided all the engineering services associated with the design of the lift station, the force main piping as well as coordinated the acquisition of easements and obtained TxDOT permits for the portions of the project as required. KSA staff provided engineering services for all phases of the project from design, through procurement and currently the project is under construction.

Wastewater Treatment Plant Improvements - Mexia, TX

New permitted effluent limits required that the existing 0.85 MGD package-type wastewater treatment plant for the City of Mexia be abandoned. The city hired KSA to upgrade the plant. The project was funded by the Texas Water Development Board - Clean Water SRF program. KSA completed all civil engineering for the project, including: Preliminary Engineering Report, permitting, environmental assessment, hydraulic profiles, treatment unit sizing, equipment selection/specification, bidding/construction oversight and development of an O&M Manual.

The project involved construction of a new 2.0 MGD average annual flow wastewater treatment plant with 8.0 MGD peak 2-hour flow using the extended aeration mode including:

- Mechanical climber-type screen and manual bar screens
- Grit chambers-vortex type
- Lift station with four submersible pumps with VFDs
- Influent splitter box
- Aeration basins, two each with floating aerators
- Two clarifiers with algae sweeps, full radius scum arm, and sludge level meter
- UV disinfection with automatic flow pace and self-cleaning wipers-two channels, four banks
- Effluent meter with cascade aeration for increased dissolved oxygen
- Sludge pump station with three submersible pumps with VFDs
- Aerobic digester/sludge holding tank with floating aerator
- Digested sludge pump station - grinder and two progressive cavity pumps
- Centrifuge - for sludge dewatering
- Administration and lab building
- Electrical and generator
- SCADA
- Plant on-site reuse system - pressure tank, pumps, chlorine
- Site piping, grading, roads, fencing

References

Lance Capehart, Director of Public Works
City of Bonham
514 Chestnut Street
Bonham, Texas 75418
903.583.7555

Betsy Fleitman
City of Lindsay
PO Box 153
Lindsay, Texas 76250
940.665.4455

Bill Goheen, General Manager
East Cedar Creek Fresh Water Supply District
115 Hammer Road
Gun Barrell City, Texas 75156
903.887.7103

Jaci Garner, City Secretary
City of Honey Grove
633 North 6th Street
Honey Grove, Texas 75446
903.378.3033

Missy Rickman, City Secretary
City of Savoy
PO Box 176
Savoy, Texas 75479
903.965.7706

SELECTED RELEVANT PROJECTS

	WWTP Design Construction, OPS	WWTP Expansion/Rehab	Wastewater Collection Systems	Medium Diameter Trunk Mains	Lift & Pumping Stations	Trenchless Technologies	Condition Assessments	WTP Expansions/Sanitary	Medium Diameter Sanitary Sewer	Water Distribution Transmission Mains	Elevated/Ground Storage	Water Reuse	Modelling-Water & Wastewater	Storm Drainage Eval. Design, Construction	City-wide Surveying Benchmark/GPS Network	DWSRF/CWSRF & TWDB Funding
1 City of Tyler WWTP & W/WW System Improvements	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
2 City of Longview WWTP & W/WW System Improvements	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
3 City of Nacogdoches Water System Improvements								■	■	■	■	■	■	■	■	■
4 City of Mexia WWTP & WW System Improvements	■			■	■											■
5 City of Groesbeck WWTP & WW System Improvements		■		■	■	■										■
6 City of Rockdale WWTP, WTP & W/WW System Improvements		■	■	■	■	■	■	■	■				■	■	■	■
7 City of Hico Water Distribution & Ground Storage Improvements					■	■	■	■			■					■
8 City of Fairfield WWTP and Collection Systems Improvements	■		■	■	■	■										■
9 City of Mount Vernon W/WW System Improvements			■	■	■	■		■	■			■		■	■	■
10 City of Mount Vernon WWTP Improvements		■		■	■							■				■
11 City of Winnsboro WTP & System Improvements							■	■	■							
12 City of Mount Pleasant WTP, WWTP & W/WW System Improvements		■	■	■	■	■	■	■	■			■	■	■	■	■
13 City of Quitman WTP, WWTP & W/WW System Improvements		■	■	■	■	■	■	■	■			■		■		
14 City of Lindale WTP, WWTP & W/WW System Improvements		■	■	■	■	■	■	■	■			■		■	■	■
15 City of Mineola WTP, WWTP & W/WW System Improvements		■	■	■	■	■	■	■	■			■		■	■	■
16 City of Crockett WTP, WWTP & W/WW System Improvements		■	■	■	■	■	■	■	■			■		■	■	■
17 North Texas Municipal Water District System Improvements							■	■				■				
18 Northeast Texas Municipal Water District System Improvements				■		■	■		■			■				
19 City of Savoy WWTP	■	■			■							■				■
20 City of Dodd City WWTP	■	■			■							■				■

TWDB Project Experience

- Angelina Neches River Authority (ANRA) - 2014 CWSRF IUP Redland Estates and District Sewer Improvements
- Angelina Neches River Authority (ANRA) - ANRA Wastewater Facility Collection System Expansion & Headworks Improvements SCADA and Integration of Lift Station Control Panels for 11 Sites TWDB CWSRF
- Bistone Municipal WSD - DWSRF Surface Water Treatment Plant Improvements
- Bistone Municipal WSD - DWSRF Water Meter Replacement
- Central Bowie County Water Supply Corporation - Rock Creek Elevated Storage Tank - TWDB Phase 1A
- Central Bowie County Water Supply Corporation - Water Distribution System Improvements - TWDB Phase 1A
- City of Brady - CWSRF Wastewater Treatment Plant Improvements
- City of Castroville - CWSRF East Side Sanitary Sewer Regional Lift Station
- City of Castroville - DWSRF Water Line Replacement Construction
- City of Castroville - East Side Sanitary Sewer Regional Lift Station (CWSRF Funding - Planning-Design Phases)
- City of Castroville - Water Line Replacement Project (DWSRF, Planning-Design Phases)
- City of Crockett - Hwy 7 Utility Relocation - TWDB
- City of Del Rio - DWSRF & CWSRF - W Line, WW Trunk Line and WWTP
- City of Del Rio - DWSRF Water Line Replacement
- City of Diboll - 2020 CWSRF Wastewater Improvements
- City of Gatesville - DWSRF/CWSRF Water and Wastewater System Imp
- City of Groesbeck - Automated Meter Reading Installation (TWDB)
- City of Gunter - Gunter DWSRF Water Distribution System Improvements
- City of Hico - Automated Meter Reading/Water Meter Improvements (DWSRF)
- City of Hico - Water Distribution and Ground Storage Improvements (DWSRF)
- City of Hondo - DWSRF Elevated Storage Tank Replacement
- City of Hondo - DWSRF Tank Rehabilitation
- City of Honey Grove - TWDB DWSRF Water Distribution System Improvements
- City of Hubbard - Pressure Tank - DWSRF Funding
- City of Hubbard - Waterline Distribution Lines - DWSRF
- City of Huntington - 2014 CWSRF WWTP Improvements
- City of Jefferson - Preparation of TWDB Audit
- City of Ladonia - 2014 DWSRF Water System Improvements
- City of Lakeport - TWDB Application
- City of Magnolia - DWSRF & CWSRF Water and Wastewater Improvements
- City of Marlin - DWSRF Meter Study
- City of Marlin - DWSRF Real Water Loss Study and Asset Management Plan
- City of Marlin - DWSRF Water Line Replacement
- City of Marlin - DWSRF Water Meter Replacement
- City of Marlin - DWSRF Water Treatment Plant Improvements
- City of Marlin - Sanitary Sewer Evaluation Study (SSES) CWSRF
- City of Marlin - Waterline Replacement DWSRF 62520
- City of Marshall - TWDB Wastewater System Improvements
- City of Marshall - TWDB Water Distribution System Improvements
- City of Mexia - 2020 DWSRF Water Improvements
- City of Mexia - TWDB Phase II Water Main Improvements
- City of Pottsboro - TWDB - Wastewater Treatment Plant Expansion
- City of Rockdale - CWSRF Wastewater Collection System Improvements
- City of Rockdale - CWSRF Wastewater Treatment Plant Improvements
- City of Rockdale - DWSRF Mill Street Elevated Storage Tank Improvements
- City of Rockdale - DWSRF Water Distribution System Improvements
- City of Rockdale - DWSRF Water Treatment Plant Improvements
- City of Rockdale - TWDB Application-Water and Sewer Updates
- City of Rockdale - Wastewater System Improvements CWSRF
- City of Rockdale - Water Distribution System Improvements DWSRF
- City of Rosebud - TWDB Water System Improvements
- City of Rosebud - Wastewater Treatment Plant TWDB Loan
- City of San Angelo - TWDB Funding-Hickory Groundwater Water System Improvements
- City of Sonora - TWDB Water Survey and Audit
- City of Terrell - TWDB Funded Water and Wastewater Projects
- City of Whitehouse - TWDB Flood Protection Planning Grant Application
- **City of Whitewright - 2018 DWSRF Water System Improvements**
- City of Wolfe City - CWSRF Sewer System Improvements
- City of Wolfe City - DWSRF Distribution System Improvements
- City of Wortham - Water Distribution- Water Meter Replacement - Texas Water Development Board (TWDB)
- Coryell City Water Supply District - DWSRF Water System Improvements
- Crystal Farms Water Supply Corporation - DWSRF Preapplication for Intended Use Plan
- Lindale Rural Water Supply Corporation - TWDB SRF Application Services
- Southern Utilities Company - TWDB Drinking Water Needs Survey