

ASSISTANCE



Muller Bridge at McAlister Crossing over Cibolo Creek in Wilson County

For more information, please contact:

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Water and Wastewater Utility Services:

- Line Televising (WW only)
- Stoppages (WW only)
- Pumps and Motors
- Smoke Testing (WW only)
- Regulatory Reporting
- Emergency Assistance
- Line Cleaning (WW only)
- Training
- Line Repairs

Water and Wastewater Engineering Services:

- Mapping
- Construction Inspection
- Project Management
- Capacity Analysis
- Preliminary Design Consulting
- Guidance with Impact Fee Analysis
- Permitting Assistance

Park Services

- Paddling Trail Establishment
- Development Funding Plans
- Conceptual Site Planning
- Grant Application Assistance

Watershed Operations and Engineering Services:

- Debris Removal Program
- Creek Maintenance
- Floodplain Mapping
- Mitigation Solutions
- Drainage Master Planning
- Floodplain Modeling
- Development Reviews
- Bank Stabilization Consulting

Water Quality and Environmental Services:

- Laboratory Services
- Field Investigations
- Water Quality Services
- Environmental Education
- Wetlands
- Habitat Assessment

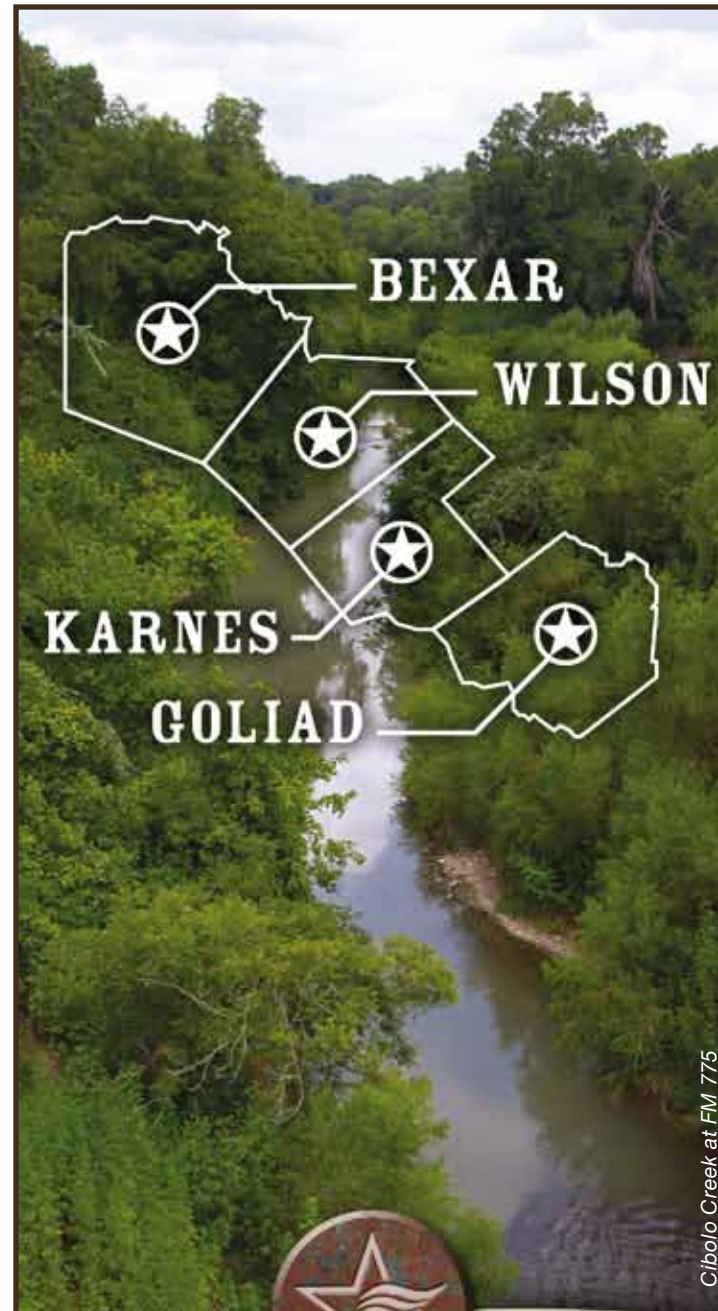
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Cibolo Creek at FM 775

SAN ANTONIO RIVER AUTHORITY'S COMMUNITY ASSISTANCE PROGRAM



COMMUNITY

The San Antonio River Authority (SARA) is passionate about protecting and enhancing our communities and the sustainability of our watershed. Through the Community Assistance program, SARA applies expertise and knowledge to collaboratively seek solutions that support the communities and the environment within its four-county district.

A SARA representative will listen to your community's needs and communicate those needs to SARA staff. The level of service will be determined and negotiated with the community on a case-by-case basis. *Some services may require a fee for labor and materials.*

In this brochure you will find a listing of services offered by SARA followed by a brief description.

SARA'S GOALS

- 1** Exemplify Environmental Leadership, Stewardship & Expertise
- 2** Enhance Community Appreciation for the Environmental Resources of the San Antonio River and its Tributaries
- 3** Deliver Valued Public Service
- 4** Advance a Sustainable Environment
- 5** Develop Successful Employees

★ WATER & WASTEWATER SYSTEMS

SARA's trained and certified personnel understand the challenges associated with growing communities, aging infrastructure, and regulatory changes. Working with limited resources to meet permit requirements can be challenging. SARA staff can assist in the following areas:

- Advise on plant operations and maintenance
- Provide system troubleshooting assistance
- Assist with equipment repair (such as pumps and motors)
- Advise on system repairs, outages, stoppages, failures and related events
- Loan equipment on a temporary basis for system stoppage, repair, etc.
- Provide training classes to help operators earn certifications
- Advise on regulatory reporting and utility system planning
- Assist with permit renewal or expansion as required by TCEQ
- Analyze existing sewer treatment plants and collection systems to determine treatment/collection system capacity



Salatrillo Wastewater Treatment Plant

★ STREAM RESTORATION

SARA recently established a multi-disciplinary team approach to stream restoration. This team, known as the "Stream Team," places an emphasis on small creeks and streams that have been impaired or are in danger of becoming impaired. The Stream Team pursues a natural resource approach to provide a sustainable solution to creek impairments. Staff can assist in the following areas:

- Preliminary physical and/or ecological stream assessments
- Project design, cost estimation, permitting and construction administration
- Development of stream resource management plans

★ ENGINEERING SERVICES

SARA's dedicated staff of engineers, surveyors and technicians have many years of experience planning, designing, managing and inspecting projects. Based upon this wealth of experience, staff can assist with the following:

- Provide aerial photography base maps, as well as detailed field survey information for water, sewer and storm drainage collection/distribution system data
- Inspect sewer collection and treatment systems, channel grading and restoration projects, storm water detention facilities and river debris cleanup projects. Our staff is also qualified to assume an administrative role if necessary
- Provide planning assistance with site layouts, pipeline and treatment plant expansions or upgrades
- Prepare conceptual construction cost estimates and provide alternatives to incorporate needed improvements into an annual budget or bond program
- Develop, design, permit, bid, construct, inspect and warranty selected projects while meeting schedule, budget and final quality requirements
- Provide guidance to determine the appropriate fee associated with a new sewer connection service for both the collection and treatment cost components

★ ENVIRONMENTAL EDUCATION

SARA has developed outreach and water education programs throughout the San Antonio River basin targeting school-aged children and community leaders. We have also developed a comprehensive education program designed to increase knowledge and awareness of our watersheds while encouraging stewardship of the resources within the San Antonio River Basin. SARA can assist communities in the following areas:

- Organize and conduct events designed to educate the general public about SARA, its services and its programs
- Supply communities and schools with materials we have developed, or collaborate to develop new materials to suit individual needs

★ PARK SERVICES

The Park Services department offers technical assistance regarding funding, design and operation of park projects that enhance and promote expansion of existing and proposed public parks and outdoor recreation opportunities throughout the San Antonio River Basin. Park Services can assist in the following areas:

- Assist with planning river access sites and paddling trails that are consistent with SARA's Regional Plan, including obtaining inter-local agreements.
- Assist with researching availability of public agency grants and assistance with proposed project scope, cost estimates and schedule.
- Assist with public input strategies, develop proposed project scope and priorities and prepare graphics to represent conceptual site plans.



Water Quality Analyst working in SARA's NELAC certified laboratory.

★ WATER QUALITY & ENVIRONMENTAL SERVICES

SARA's Environmental Sciences Department can assist with research, data gathering and scientific assessment functions regarding water quality planning, pollution prevention and resource protection. Environmental Services can assist in the following areas:

- Collect water quality samples; measure stream flows; investigate pollution complaints, fish kills and floodplain violations; evaluate fish communities, aquatic insect communities and aquatic habitats; prepare technical reports about findings and assist in community outreach
- Analyze drinking water, ground water, wastewater, surface water and storm water samples using state of the art technologies in our state accredited laboratory
- Assist in the interpretation of water quality data; document each step of the analytical process from sample acceptance to the generation of results; trace each step of analysis (from who prepared a reagent, to who read the results)
- Identify and delineate boundaries of wetlands and other potential waters of the United States, as defined by the United States Army Corps of Engineers
- Conduct aquatic and riparian habitat assessments aimed at characterizing ambient conditions throughout the watershed, ensuring that habitat data is collected in accordance with the methodology described in the Texas Commission on Environmental Quality Surface Water Quality Monitoring Manual

★ REAL ESTATE

SARA's Real Estate department provides asset management and real estate acquisition and disposition services. These services can be applied in the following areas:

- Assist in the selection of qualified properties for a volunteer buyout program and the application process to FEMA; coordinate all due diligence activities including survey, title, appraisal, relocation (if applicable) and demolition, negotiate with property owners and tenants on behalf of public entities
- Assist with land rights acquisition for any type of project, including right-of-way, public works, parks and more
- Assist with creating conservation easements to be used as a tool to preserve natural, cultural, and historic lands. Landowners may receive income, estate tax, and property tax reductions when they lower the value of their land by placing restrictions on its use through conservation easements.

★ WATERSHED MANAGEMENT

SARA's Watershed Management Department can assist with quality engineering and floodplain planning services to maximize efficiency, avoid duplication of efforts and make decisions on a holistic watershed basis. Areas of service include:

- Floodplain mapping/modeling
- Flood planning
- Floodplain administration
- Selection and prioritization of capital improvement projects and development of regional models and modeling standards.
- Floodplain mitigation risk reduction
- Identify flood-prone areas
- Develop feasibility-level analysis to reduce the risk of flooding by developing preliminary design of flood control structures.
- Assist local communities with technical review of floodplain development and FEMA submittals. This review includes floodplain studies, local drainage studies and drainage structure design.
- Assist local communities with the development of Drainage Master Plans. These are primary planning tools to help communities develop capital improvement projects and apply for construction grants.
- In conjunction with the Stream Team, assist communities in modeling, mapping and designing bank stabilization structures to prevent major erosion. The incorporation of fluvial-geomorphology principles will allow the Stream Team to better design channel, creek and river improvements

★ WATERSHED SERVICES

SARA's Watershed Operations Department can assist with the operation and maintenance of floodwater-retarding structures, dams and pump facilities, as well as flood debris removal. Areas of assistance include:

- Cleanup of natural and man-made obstructions which have a negative impact on floodwater conveyance and/or water quality
- Mowing urban channels to promote erosion resistant cover, slope stability and flood conveyance efficiency
- Hay production from surplus grass cover on rural dams to limit livestock grazing, prevent soil erosion and provide slope stability on dams and in auxiliary spillways



Cibolo Creek near Stockdale

Some services listed in this brochure may require additional fees for labor and materials.