

The Nueces River Authority (NRA), an entity created by the Texas legislature in 1935, was established to protect and develop water resources, and to finance water supply and pollution control efforts on behalf of the residents of the City of Leakey, Texas, and its surrounding areas.

The Authority currently is developing plans to construct a wastewater collection and treatment system in a manner that supports its important ecological mission.

MRB Group was selected to serve as a subconsultant to Naismith Engineering, Inc. (NEI), to design the wastewater treatment plant (WWTP) and its filtration processes.

Wastewater disposal will be accomplished by land application on property owned by the NRA. The treatment process selected for design is a continuous flow Sequencing Batch Reactor (SBR) which includes mechanical screening, grit removal, provisions to add tertiary filters if needed, disinfection with hypochlorite and chlorine contact chamber and sludge dewatering. Initially, the facility will operate at an interim phase of 250,000 gallons per day (gpd). Ultimately, the project calls for a facility with a capacity of approximately 360,000 gpd.

The rectangular basin configuration has been designed without the need for a clarifier, allowing for cost effective expansion of basin capacity SBR using a common wall from a previous project phase.

Construction of Phase 1 facilities is scheduled to begin during the summer of 2015.



Client: Nueces River Authority /
Naismith Engineering, Inc.

Location: Leakey, TX

Completion: 2015

Engineer: MRB Group