

PROJECT FACT SHEET

Project Title: Bacterial Source Tracking- Lake Waco and Lake Belton

Project Lead: [Texas Farm Bureau](#)

Principal Funding Provided By: [TSSWCB](#) – [EPA](#)

Supplemental Funding Provided by: [TFB](#) / [Authority](#) / [City of Waco](#) / [TAMU](#)

Project Partner(s): [Authority](#) / [City of Waco](#) / [TWRI](#) / [Parsons Engineering](#)

Project Description: Develop fingerprint libraries to profile known bacterial sources using four different methodologies (ARP, Ribotyping, ERIC-PCR, & PFGE) from the Lake Waco and Lake Belton study areas. Source samples will be collected within the watersheds to develop the reference libraries. Water samples will be collected from the study areas in an effort to identify the relative contributions of bacteria from the profiled sources.

Project Benefits: The project will allow for identification of the sources of bacteria in the study area and the relative percentage of each of the contributing sources. For instance, if the sampling and subsequent bacterial identification indicates a primary source of bacteria, then efforts may follow that are targeted to that particular source type rather than focusing time and resources on areas with limited impact. This project has the potential to be expanded state-wide and result in significant savings in time and resources in any watershed that has bacterial impacts.

Project Schedule: Actual sample collection began in September 2003, with EPA approval of the QAPP. The ambient water collection will continue for approximately 10 months. Source sampling will continue until the required number and variety of samples are obtained.

Project Status: Water sampling in Lake Waco and Belton began in September 2003, and are planned to continue monthly until approximately 10 sets of samples are collected. Collection of source samples is also underway. Samples are being processed and sent to the respective labs for preservation and/or analysis.