Little Brazos River Tributaries Bacteria Assessment Project

Project Goals
Loren Henley

October 14, 2008
Franklin, Texas
Project Team

- Texas State Soil and Water Conservation Board (TSSWCB)
- Brazos River Authority (BRA)
- Texas Water Resources Institute (TWRI)
- Texas AgriLife Research
  - Department of Biological and Agricultural Engineering (BAEN)
  - Department of Soil and Crop Sciences (SCSC)
- Texas A&M University – Spatial Sciences Laboratory
- Texas AgriLife Extension Service
Texas State Soil and Water Conservation Board

- Project Oversight
- Management of all project activities
- Ensure coordination of activities between related projects and partners
- Provide funding to conduct project
  - ~$450,000
  - 58% to Brazos River Authority
  - 42% to Texas A&M AgriLife
- Provide the Texas Commission on Environmental Quality (TCEQ) information about project activities
Brazos River Authority

- Facilitate Public Participation and Stakeholder Coordination
- Surface Water Quality Monitoring
  - Quality Assurance
- Survey and Inventory Possible Bacteria Sources
- Jay Bragg and Tiffany Morgan
Conduct new Land Use Land Cover (LULC) characterization for watershed area.

Raghavan Srinivasan, Ph.D
Texas Watershed Steward Program

- Promote healthy watersheds by increasing citizen awareness, understanding, and knowledge about the nature and function of watersheds, potential impairments, and watershed protection strategies to minimize nonpoint source pollution.

- Dr. Mark McFarland and Jennifer Peterson
Texas AgriLife Research (BAEN) and Texas Water Resources Institute

- Data Analysis and Watershed Modeling
  - Load Duration Curves
  - SELECT
  - Quality Assurance

- Lucas Gregory and R. Karthikeyan, Ph.D
Texas AgriLife Research (BAEN)

- Load Duration Curves (LDCs)
  - Graphical representation of streamflow and pollutant loadings
  - Analysis of all historic and existing water quality monitoring data from the study area
  - Monitoring to be conducted by BRA through this project will help refine LDCs

- Spatially Explicit Load Enrichment Calculation Tool (SELECT)
  - Form of modeling that was recommended by the Bacteria Task Force
Texas AgriLife Research (SCSC)

- Bacterial Source Tracking (BST)
  - Library dependent/independent
  - Identification of potential sources

- Dr. Terry Gentry
Time Frame & Milestones

- **June 2008**
  - Project Start Date, Contracts Initiated

- **October 2008 – February 2009**
  - Public Meeting October 14, 2008
  - Sanitary Survey Design Meeting
  - Public Meeting to Discuss Initial Data Analysis (LDCs)
  - Texas Watershed Steward Program
Time Frame & Milestones

- **May 2009**
  - Public Meeting to Update on Progress

- **November 2009**
  - Public Meeting to Update on Progress

- **February 2010**
  - Public Meeting to Review draft Technical Reports

- **May 2010**
  - Project End, Time to make Decisions about Outcome
Project Websites

http://www.tsswcb.state.tx.us/watersheds/littlebrazos/
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