Assessment of Contact Recreation Use Impairments and Watershed Planning for Big Cypress Creek and Tributaries (Hart and Tankersley Creeks)

Project Goals and Tasks

August 25, 2009
Mt. Pleasant, Texas
Project Goal

- To provide stakeholders and agencies with sufficient information to address bacteria impairments in Big Cypress Creek and Tributaries:
  - facilitating public participation and coordinating stakeholder involvement in decision-making
  - collecting information on factors affecting attainment of recreational use
  - collecting water quality monitoring data
  - developing a comprehensive GIS inventory and conducting a watershed source survey
  - Bacterial Source Tracking (BST)
Project Team

- Texas State Soil and Water Conservation Board (TSSWCB)
- North East Texas Municipal Water District (NETMWD)
- 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
  - ~$493,000
- Provide the Texas Commission on Environmental Quality (TCEQ) information about project activities
NETMWD

- Facilitate Public Participation and Stakeholder Coordination
- Surface Water Quality Monitoring
  - Quality Assurance
- Survey and Inventory Possible Bacteria Sources
- Assess Attainability of Recreational Use
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)
- Spatially Explicit Load Enrichment Calculation Tool (SELECT)
Texas AgriLife Research (SCSC)

- Bacterial Source Tracking (BST)
  - Library dependent/independent
  - Identification of potential sources
- Dr. Terry Gentry
Conduct new Land Use Land Cover (LULC) characterization for watershed area.

Raghavan Srinivasan, Ph.D
Texas AgriLife Extension Service

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
Project Websites

http://www.tsswcb.state.tx.us/en/managementprogram/BGCYBAC

http://bcc.tamu.edu/
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