ATTOYAC BAYOU WATERSHED ASSESSMENT AND WATERSHED PROTECTION PLAN DEVELOPMENT
MAY 19, 2011
ATTOYAC BAYOU IMPAIRMENT

- On 2004 Texas 303(d) List for not meeting bacteria standard
- Screening level concern for ammonia levels
WHAT DOES THIS IMPAIRMENT MEAN?

• E. coli levels in Attoyac Bayou are higher than state standards

• Action must be taken to improve water quality to meet state standards by 2017; otherwise, regulatory measures are likely to be implemented (i.e. TMDL will be developed)
WHAT IS A WPP?

- **Voluntary** plan developed by stakeholders

- Holistic approach to watershed management which addresses potential sources and causes of concerns/impairments. This approach also considers:
  1. Load Reductions,
  2. Management Measures,
  3. Assistance Needed,
  4. Public Information and Education,
  5. Implementation,
  6. Milestones,
  7. Measure Success, and
  8. Monitoring
PROJECT TEAM

- Texas Water Resources Institute,
- Texas AgriLife Research,
- Stephen F. Austin State University,
- Pineywoods RC&D,
- Angelina & Neches River Authority, and
- Castilaw Environmental Services, LLC
PROJECT GOAL

• Collect data in Attoyac Bayou Watershed to better characterize hydrology and E. coli levels, assess uses of the water body, and ultimately develop a plan that reduces E. coli.
PROJECT TASKS

• Coordinate stakeholder involvement,
• Conduct watershed survey and update GIS information,
• Surface water quality monitoring,
• LDC and SELECT Modeling,
• Recreational Use Attainability Analysis,
• Bacterial Source Tracking, and
• Development of Watershed Protection Plan
PROJECT FUNDING

• Funding is being provided through a Clean Water Act §319(h) Nonpoint Source Grant from the Texas State Soil and Water Conservation Board and the U.S. Environmental Protection Agency