

Lampasas River Watershed Protection Plan

Background

The Lampasas River above Stillhouse Hollow Lake is listed as impaired on the Texas Water Quality Inventory and 303(d) List due to elevated bacteria levels. Surface water quality monitoring also indicates a dissolved oxygen impairment on North Fork Rocky Creek.

The water quality team from Texas AgriLife Research at Blackland Research and Extension Center (BREC) along with collaborators from Texas AgriLife Research Spatial Sciences Lab and Texas AgriLife Extension Service are addressing the Lampasas River water quality issues through a watershed planning approach. This is a flexible framework for managing water resources based on management actions supported by sound science and appropriate technology.

Objectives

The Lampasas Watershed Protection Plan's objective is to protect and enhance water resources of the Lampasas River Watershed in an environmentally responsible manner. This objective is being fulfilled through project goals and activities that emphasize public awareness, community education, stakeholder consensus, and watershed protection plan development and implementation. Specific objectives include:

- Develop the Lampasas River Watershed Protection Plan through meetings and workshops with project participants, and other interested parties to discuss project schedule, lines of responsibility, communication needs, and other requirements.
- Develop load duration curves for the Lampasas River Watershed using historical stream-flow data and calculate the load reductions necessary to meet water quality standards.
- Assess watershed inventory and geographic analysis of land use influencing E. coli migration and other NPS pollution within the Lampasas River Watershed.
- Utilize Spatially Explicit Load Enrichment Calculation Tool (SELECT) for analysis of the Lampasas River Watershed.
- Facilitate implementation of the Lampasas River Watershed Protection Plan.

Funding

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Partners

Texas AgriLife Research—BREC
Texas Commission on Environmental Quality
Texas AgriLife Research—Spatial Sciences Lab
Texas AgriLife Extension
Brazos River Authority
Soil and Water Conservation Districts

Area Underground Water Districts
Texas Stream Team
Central Texas Stream Team
U.S. Army Corps of Engineers
Municipal and county governments

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