



Cypress Creek Project

Texas Commission on Environmental Quality and the U.S. EPA are predominantly funding this project.

Partial funding sponsored by Wimberley Valley Watershed Association, community partners, Texas State University, River Systems Institute, and others.

Cypress Creek Project

Timeline: 2008 – 2010

Where: Cypress Creek watershed, in and around Wimberley, Texas

Goal: Maintain and enhance existing water quality in study area

Who:

Wimberley Valley Watershed Association; River Systems Institute, Texas Stream Team, Texas State University, Village of Wimberley, City of Woodcreek, Hays-Trinity Groundwater Conservation District, Texas Water Development Board, Guadalupe-Blanco River Authority, the community, and many others.

What:

Watershed characterization; Stakeholder guidance; watershed education; Decision Support System development; Training stakeholders to utilize the Decision Support System; and Jacob's Well source water delineation.

Additional capacity, technical and financial assistance, stakeholder members, and other resources are needed for successful implementation

Stakeholder Input Process

Begins May 2008

www.cypresscreekproject.org

Watershed Characterization

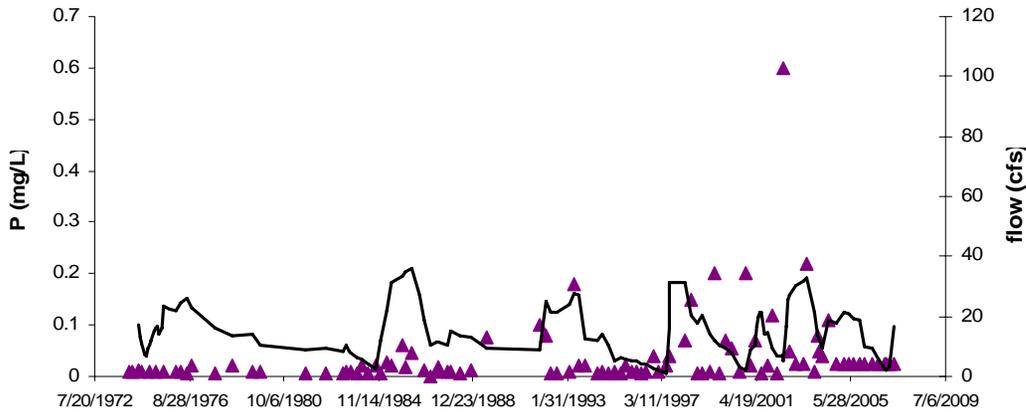
- Gather existing data
- Identify pollutants of concern
- Delineate sub-basins
- Evaluate erosion & NPS pollution potential
- Estimate sediment & pollutant loadings

Data Summary

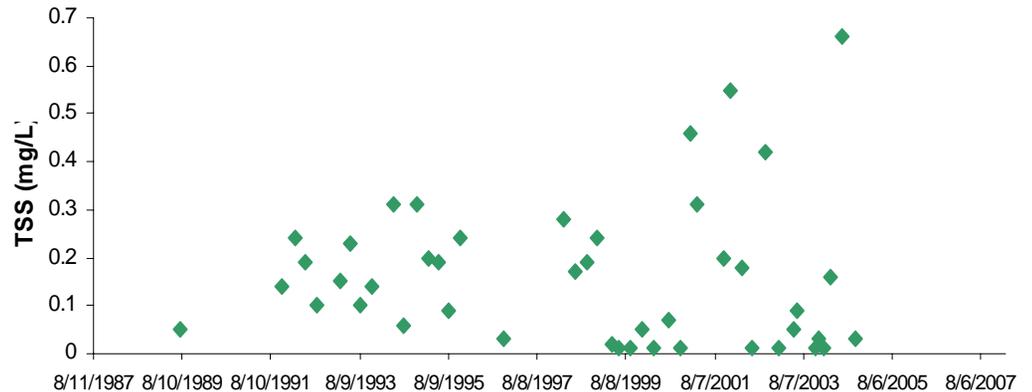
- Topography, geology, soils (SSURGO, USGS)
- Surface flow & water quality (USGS, TCEQ, CRP)
- Groundwater/ surface water connections (recharge features, caves, springs) (USGS, HTGCD)
- Biotic Assessments (GBRA, TSU)
- Rapid Stream Assessment (TSU)
- Types, distribution of land cover, changes thru time (TNRIS DOQQs, NLCD)
- Population and demographics (US Census, TWDB)
- Water use and demand by sector and source (TWDB, USGS)

Water Quality

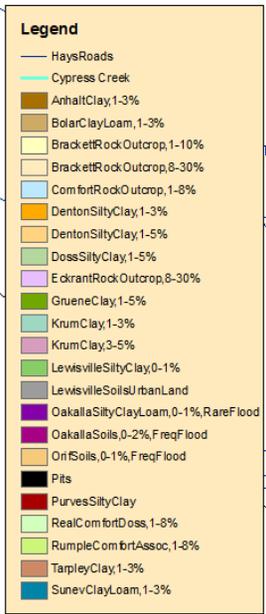
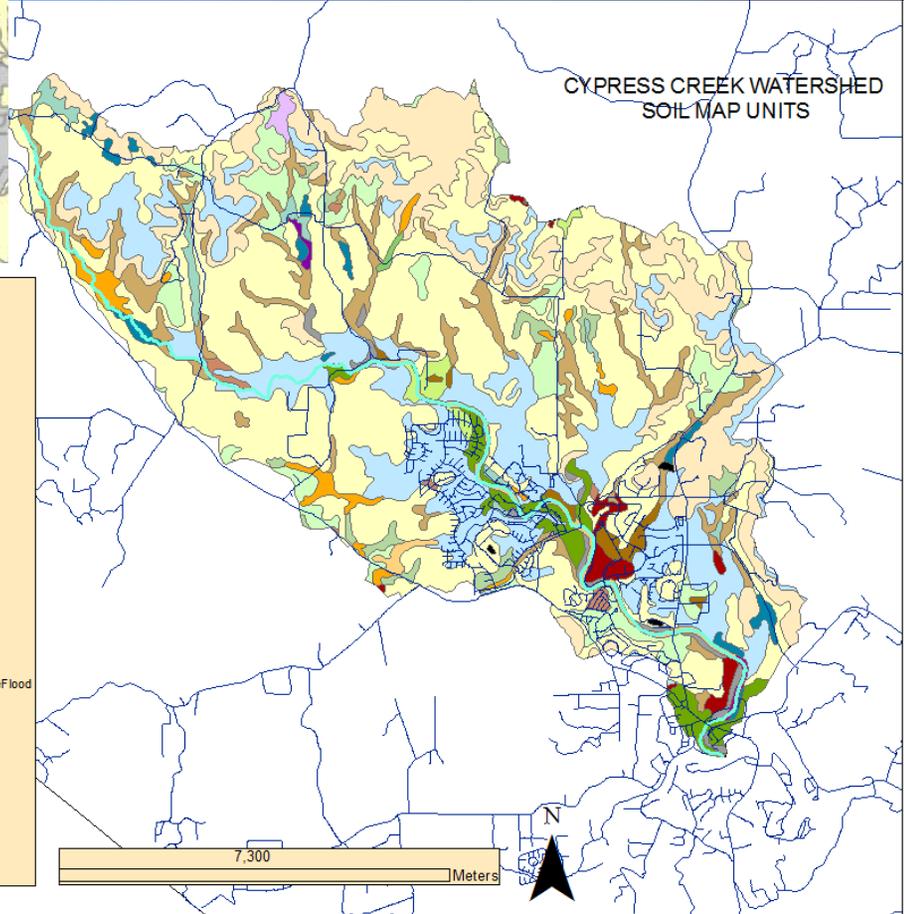
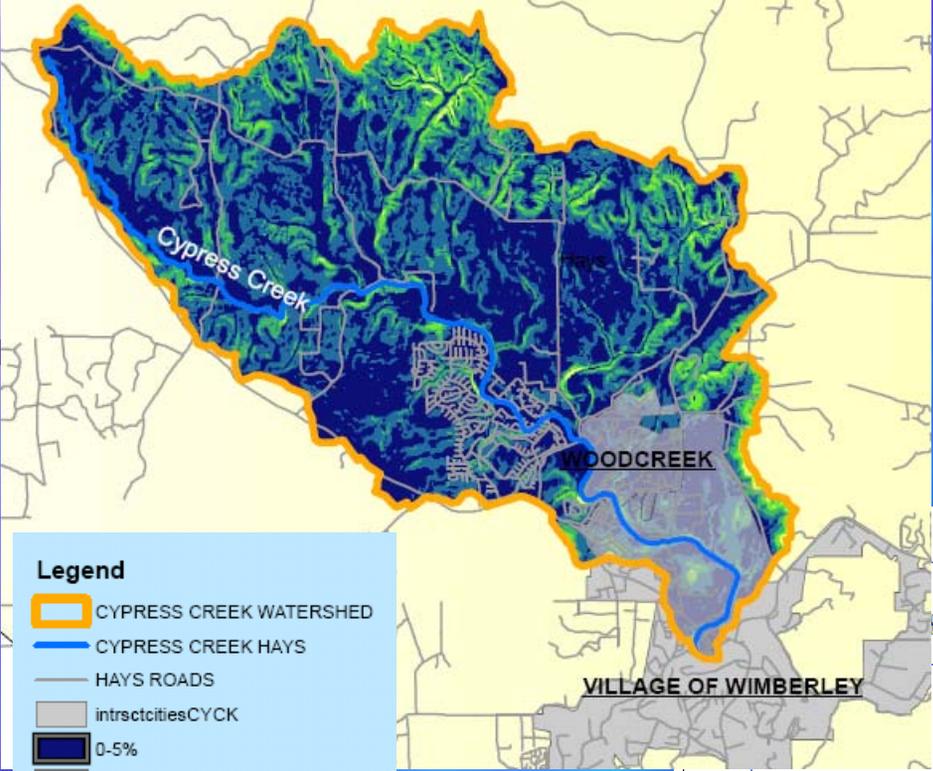
Cypress Creek at RR-12
Total Phosphorus, 1973 - 2007



Cypress Creek at RR-12
Nitrite + Nitrate, 1989 - 2007



Cypress Creek watershed & soils & slope



Next Steps

- Complete sub-basin delineation
- Rank NPS pollution source areas
- Develop SWAT model
- Estimate sediment & pollutant loadings in sub-basins

Cypress Creek Project

This initial phase will lead to the development of a watershed protection plan...

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