

## Caddo Lake Continuous Water Quality Monitoring

### Project Background:

Caddo Lake is listed on the FY2000 303(d) List of Impaired Water Bodies due to depressed dissolved oxygen (DO) in the Harrison Bayou Arm, Hells Half Acre, and Clinton Lake. In the mid-lake regions and the transitional zones of Caddo Lake, there is insufficient data to characterize the DO. The objective of this study is to adopt existing technology capable of real-time monitoring in order to collect DO, conductivity, temperature and pH data in transitional and open water areas of Caddo Lake.



Additionally, precipitation and pH data are being collected to support the ongoing efforts of a Total Maximum Daily Load (TMDL) to address air-deposited mercury in the water body and mercury in fish tissue resulting from the mercury deposition.

### Project Description:

Caddo Lake is located in the north-eastern portion of Texas bordering Louisiana in Marion and Harrison counties. The project was initiated in 2003. Parameters to be measured include dissolved oxygen, specific conductance, pH, temperature, precipitation, wind speed and direction, and air temperature. The sites are operated by the Caddo Lake Institute.

### Sites:

1. Caddo mid-lake
2. Caddo upper mid-lake