

## **A Comparison of Pre and Post Water Quality Data in the Upper Steele Bayou Basin**

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A comparison of pre and post project nutrients, solids and turbidity data collected by the Corps of Engineers within the Steele Bayou Basin was conducted to investigate any changes in water quality within the basin. Pre project data collected by ERDC in 1990-1991 and post project data collected by the Vicksburg District are compared to evaluate the impacts of channel modifications, reforestation and the installation of over 70 grade/water control structures on nutrient and sediment loadings within the Steele Bayou Basin. Parameters evaluated include turbidity, total solids, total suspended solids, total organic carbon, nitrogen and phosphorous. Preliminary results indicate turbidity, total suspended solids; total nitrogen and total phosphorous concentrations are highly influenced by runoff events and are significantly lower than those measured prior to project construction.