NUECES BBASC STUDY #3

NUECES WATERSHED PRE- AND POST- DEVELOPMENT NUTRIENT BUDGETS

NUECES ESTUARY ADVISORY COUNCIL
JUNE 16, 2014
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DISCUSSION

Background

Scope of Work

Schedule
BACKGROUND

- Nueces BBASC work plan
  - Tier 2b Recommendation

- Nueces BBEST
  - BBEST Recommendations Report
    - Sec. 5.2 Nutrient Considerations

- Nueces BBASC
  - BBASC Recommendations Report
    - Sec. 4.3.2 Nutrient Considerations

Source: BBEST Recommendations Report
BACKGROUND FROM BBASC WORK PLAN
GOALS

- Develop nutrient budgets based on quantitative understanding of natural supply of all nutrient forms and anthropogenic changes in these supplies over time for Nueces Bay watershed.

- Determine annual loads for both the pre-development and present condition.

Source: Nueces BBASC work plan
SOW

- Task 1 – Compile Data
  - Compile Water Quality and Hydrologic Data
    - Long-term (1934 – 2014)
    - Short-term (1986 – 2014)
    - Recent (2004 – 2014)

- Task 2 – Perform Data Evaluation and Modeling Analyses
  - Perform Data Evaluation
    - Available data, sampling stations, and subwatersheds
    - Identify appropriate stations
Task 2 – Perform Data Evaluation and Modeling Analyses (continued)
  - Linear Regression Analyses
  - USGS LOADEST
  - Estimate Reservoir Influence Sink/Sources
  - Water Quality Correlations to Anthropogenic Changes
  - Pre- and Post-Development Loadings

Task 3 – Meetings and Report
  - Kickoff Meeting (today)
  - Up to 2 more meetings to present results
  - Draft and Final Report
SCHEDULE

- Waiting on Contract / NTP
- Anticipate 40 weeks to complete analysis
- Draft report after analysis
- Final report due August 2015