



EXHIBIT A

GOALS AND OBJECTIVES

The goal of this study is to develop a comprehensive flood mitigation plan for the Lower Clear Creek and Dickinson Bayou watersheds. The study will identify vulnerabilities in the watersheds, then develop and refine concepts to reduce flood risk. Study duration is 18 months beginning at notice to proceed.

PLANNING AREA

The planning area will include the Clear Creek watershed within Galveston County beginning near Dixie Farm Road (Lower Clear Creek Watershed), and the Dickinson Bayou watershed within Galveston County.

SCOPE OF SERVICES

Project Management & Administration

- I. **PROJECT MANAGEMENT, COORDINATION AND MEETINGS** – This task is essential to ensure efficient project coordination and to achieve mitigation planning project objectives effectively.

USACE - will participate in meetings and workshops

Phase 1 – Discovery and Baselineing

- I. **DATA COLLECTION, REVIEW AND BASELINING** – This task establishes the baseline conditions for the mitigation plan based on comprehensive information collected from various past flood events and studies within the watershed.

USACE - will support data collection efforts including model data and bathymetric survey data

- II. **PLANNING PARTNER ENGAGEMENT** – Due to the significant number of stakeholders along Clear Creek and Dickinson Bayou, early engagement of Planning Partners for their support and project participation is critical to project success.

USACE - will participate in all stakeholder meetings, coordinating with other Federal agencies and stakeholders as identified to advance project goals.

- III. **EVALUATE FUNDING OPPORTUNITIES FOR ENGINEERING SERVICES** - This task will identify alternate funding sources available for engineering services to lessen the burden on League City and other Planning Partners

Phase 2 - Watershed Study

- I. **DEVELOP HYDROLOGIC MODELS** - Develop hydrologic models for the Study Area using available hydrologic data as available to provide an improved baseline condition.
- II. **FLOOD HAZARD ASSESSMENT** – With updated hydrologic data, develop hydraulic models and perform flood damage assessment for existing conditions.



- III. **FUTURE FLOOD RISK PLANNING ASSESSMENT** – This task projects future developments in the watershed, defining future/potential risks requiring mitigation and basis for potential mitigation projects.
- IV. **WATERSHED STUDY SUMMARY & PROJECT DEFINITION** – This task will aggregate all reports prepared during this phase and set the stage for Phase 3 by defining project goals and evaluation criteria.

USACE – will provide Compound Flooding Analysis, Storm Surge Modeling, Sea Level Rise Input, Technical Assistance & Agency Review and participate in project meetings and workshops.

Phase 3 – Project(s) Identification

- I. **DEVELOPMENT OF PRELIMINARY CONCEPTS** – Identify potential structural changes along Lower Clear Creek and Dickinson Bayou that have a significant impact on the WSEL.
- II. **REFINEMENT OF ALTERNATIVES** – Refine concepts into alternatives. Conduct more detailed H&H evaluation of project alternatives and benefit-cost evaluation to inform project recommendations.
- III. **CONSTRUCTION PROJECT FUNDING OPPORTUNITIES** – based on developed project alternatives revisit the funding opportunities investigated in previous phases to identify tailored funding sources based on project details.
- IV. **ALTERNATIVE RECOMMENDATION & PRIORITIZATION** – based on the results of alternative analysis, H&H analysis, benefit cost analysis and funding opportunity investigation provide a recommendation to League City on the most actionable project(s) of the alternatives for each watershed advanced from previous task.

USACE – will provide Sea Level Rise Input, Technical Assistance & Agency Review, and participate in project meetings and workshops.

Phase 3 – Project(s) Identification – Supplemental Services Allowance

The following services are authorized as an allowance but require approval of League City prior to commencing work.

- I. **PRELIMINARY DESKTOP GEOTECHNICAL EVALUATION**
- II. **PRELIMINARY ENVIRONMENTAL DESKTOP ANALYSIS**
- III. **COMMUNITY OUTREACH AND EDUCATION**

FUTURE AUTHORIZATION

Phase 4: Implementation Plan, Phase 5: Project(s) Preliminary Design,

Phase 6: Project(s) Detailed Design, Phase 7: Project(s) CM