

MITCHELL'S CUT INVESTIGATION AND MANAGEMENT PLAN

Client: Port of Bay City and Matagorda County, TX



Key Elements

- Field Investigations
- Public Forums
- Hydrodynamic Modeling
- Sediment Budget
- Alternatives Assessment
- Draft *Management Plan*
- Funding Plan

Date: 2003

Fees: \$474,168

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Coastal Tech undertook a two-phase plan for the Port of Bay City Authority, Matagorda County, and Matagorda County Drainage District No. 1 to evaluate alternatives for the improvement of Mitchell's Cut (a man-made cut on the southeastern end of East Matagorda Bay) and formulate a long-term Inlet Management Plan. The current inlet had widened and an ebb shoal had developed creating dangerous navigation conditions. The local community had also expressed concerns about deterioration of water quality, high turbidity, increased flooding and potential significant erosion of the barrier islands on the perimeter of the bay. In "Phase I - Baseline Field Investigation", Coastal Tech conducted public forums to identify community issues and concerns relative to Mitchell's Cut, compiled and evaluated existing studies and data within the study domain, and conducted field investigations to document existing bathymetric, geotechnical, hydrodynamic, and natural resource conditions in the Mitchell's Cut Study Domain. In "Phase II - Mitchell's Cut Improvement & Management Plan Formulation", Coastal Tech developed a numerical hydrodynamic model and conceptual sediment budget for existing conditions, developed an alternatives assessment, a draft management plan, and an implementation funding plan for Mitchell's Cut.



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