

Hydrographic & Topographic Survey of South Padre Island, Texas

Scope of Work

This project was in support of the ongoing monitoring of the beach at South Padre Island including beach nourishment projects. Detailed cross-section surveys were completed from the landward side of the dune to the depth-of-closure and out to 4000 feet from the shoreline. The upland portion of the survey was completed with GPS-RTK; the surf zone completed with GPS-RTK on a sled; and the hydrographic survey was completed with a single beam echosounder. Approximately 30 sediment samples were obtained during the survey.

Size – 3000 acres or 6 lineal miles of beach **Cost** – \$12,000

Principal Elements and Special Features

Beach survey, surf zone survey, hydrographic survey to depth-of-closure
Horizontal and Vertical control was recovered from previous surveys and utilized to provide a matching dataset. Coordination with local authorities and special attention was given to the tourists in the area.

Relevance

This project demonstrates Frontier's ability to collect and provide accurate geo-referenced data on a high traffic beach, through the surf zone, and to depth-of-closure offshore.

