

## Hydrographic & Topographic Survey of Cedar Bayou Aransas County, Texas

### Scope of Work

This project was in support of the dredging and re-opening of Cedar Bayou, a natural pass between San Jose and Matagorda Islands. Detailed cross-section surveys were completed from the dune line to the depth-of-closure and out to 2500 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.

**Size** – 1,500 acres    **Cost** – \$20,000

### Principal Elements and Special Features

Beach survey, surf zone survey, hydrographic survey to depth-of-closure, natural channel survey

Access to this remote site was limited on the island side to shallow-water boats. The survey offshore was coordinated

with the land crew and departed from different access ramps. There is no direct land access. Coordination with local guides and landowners was necessary to complete the project. Horizontal and Vertical control was established using Static GPS methods.

### Relevance

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

