



# PORTS

*TBS understands the economic impact* of developing ports for industrial development. Increased trade, capacities, and channels lead to larger vessel size and deeper ports. Updating old facilities and building new infrastructure requires information on site conditions, environmental impacts, and historical changes. TBS provides integrated services for design, permitting, construction, dredging, vessel transit, beneficial use, and monitoring at ports along the Gulf Coast.



## PORTS SOLUTIONS

### + Surveying

- Single-beam Bathymetry
- Multibeam Bathymetry
- Side Scan Sonar Surveys
- Magnetometer Surveys
- Sub-bottom Profiler Surveys
- Dive Inspection
- Clearance and Debris Identification
- Multibeam Structure Surveying
- 3D Scanning
- Sector Scanning
- Artificial Reef Monitoring

### + Engineering

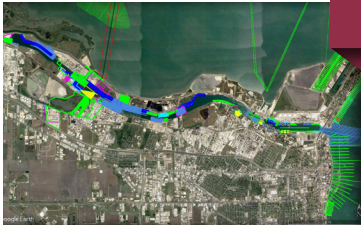
- Maritime Planning
- Dredge Engineering
- Waterfront Infrastructure
- Civil Site Design
- Civil, Structural, and Mechanical Engineering

### + Environmental

- Sediment Sampling, Vibracore
- Oysters
- Seagrass
- Wetland Delineation
- Tide, Current, Temperature & Salinity
- Corp of Engineers Permit Support/Sensitive Resource Survey
- Cultural Resources Survey Support

### + Innovative Solutions

- Dock Management System
- Channel Management System



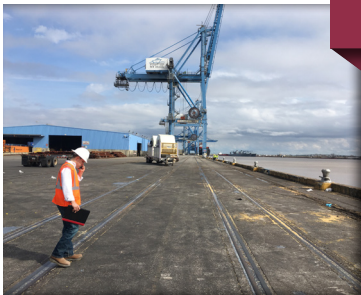
### Port of Corpus Christi Authority, Survey/Sounding Program

The project provides the Port Authority with bathymetric surveys on its docks and waterways to ensure that current and accurate data is maintained on water depths. These surveys are completed each year as per the PCCA schedule. Coordination with USCG, port police, and the harbor master is required to work in this restricted access facility. Approved calibration and checking procedures specific to this harbor are followed. In addition, miscellaneous survey services were provided to support capital and maintenance projects, management of Port assets, and Port Authority real estate transactions.



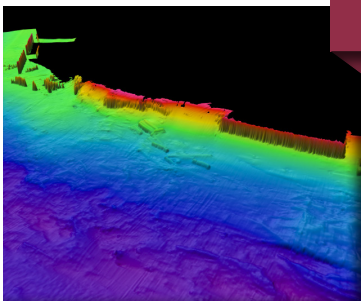
### Port of Greater Baton Rouge

The Port of Baton Rouge is building multiple railroads over Shell's Bengal Pipeline. Shell asked TBS to engineer a precast concrete airbridge and develop detailed design plans for Shell to use in soliciting bids. Design Services included review and verification of existing design report, detailed engineering calculations, development of construction plans for two phases (IFA – Issued for Approval & IFB – Issued for Bid), a construction scope of work for bidding, creation of Project Execution Plan (PEP) and Investment Proposal (IP) for use in securing construction funds within Shell.



### Ports America Milan Concrete Paving Improvements/ Nashville Terminal Conversion to Container and Crane Rail Extension

TBS performed professional surveying services, including a full topographic survey of the wharf system, which includes above-deck, below deck, and a hydrographic survey in the river. TBS collected topographic survey data within a specified area of the Port facility above the wharf and collected topographic survey data of the mudline below the concrete wharf. Below-wharf data was collected from the existing bulkhead out to the last row of pilings at the wharf's edge. TBS performed a hydrographic survey of the river in front of the specified along with a 100-foot transition area on either side of the project limits. Data was collected starting at the wharf's edge and proceeding 200 feet into the river in order to capture the 45-foot contour line of the river bottom.



### St. Bernard Port, Harbor and Terminal District Survey

T. Baker Smith provided the required professional services to perform a hydrographic/topographic survey to assess and inspect river bottom conditions and to locate existing dolphin pile, timber pile and remnants of existing sea wall. TBS provided a topographic survey of a portion of the port facility, shoreline and river levee. A hydrographic survey was completed to assess bottom conditions of the Mississippi River near the docking facility at the St. Bernard Port and to locate any anomalies above or below the mud line within the area of the damaged/removed steel monopole dolphin as well as along the existing bulkhead. The topographic portion of the survey consisted of obtaining positions and elevations of a portion of the perimeter of the port facility and fender system, as well as the shoreline, river levee and extent of trees between the project area and the shoreline. Horizontal positioning and vertical elevations were achieved by RTK GPS.

#### LOCATIONS

Lafayette, Louisiana.....	337.735.2800
Baton Rouge, Louisiana.....	225.744.2100
Thibodaux, Louisiana.....	985.446.7970
Covington, Louisiana.....	985.302.0730
Metairie, Louisiana.....	504.323.3460
Houston, Texas.....	281.240.0113
Corpus Christi, Texas.....	361.334.5719
Galveston, Texas.....	409.220.1669
Jackson, Mississippi.....	985.868.1050

#### CORPORATE HEADQUARTERS

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Scan for more information

