

EVERYDAY USE OF TIDAL DATUMS IN LAND SURVEYING

Why Surveyors rely on Tidal Datums

By

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MAIN USES for Tidal Datums

- Determining the Extend of Private Ownership in Texas
- Determining Dredging and Channel Depth
- Wetland Mitigation
- Accurate Elevations for Structures

Determining the Extend of Private Ownership in Texas

LUTTES v. STATE

Establishes the boundary between the State of Texas and littoral owners at the Mean High Water line (MHW) or the Mean Higher-High Water line (MHHW) as determined by the original date of survey.

Determining the Extend of Private Ownership in Texas

PRACTICAL APPLICATIONS

- Coastal Boundary Surveys
- Dune Creation and Mitigation
- Shoreline Stabilization

Determining Dredging and Channel Depth

- Basing depths on Tidal Datum gives accurate representation of usability.
- Regular depth studies using the Tidal Datum can help predict the frequency of dredging projects

Using Tidal Datums in Wetland Mitigation

- Can provide a better understanding of existing and planned wetland structures and localized water flows.
- Will provide a more accurately picture of survivability of placed vegetation.

Using Tidal Datums for Accurate Elevations for Structures.

- Planning and construction of Structures with in coastal regions need accurate understanding of flood zones and land elevations.
- Planning for future developments, and land use.