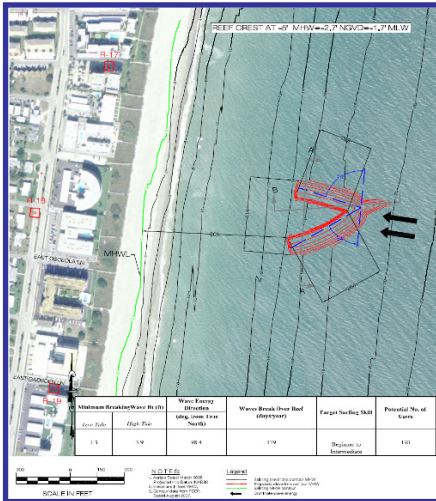


# BREVARD COUNTY FEASIBILITY STUDY OF MULTI-PURPOSE ARTIFICIAL SURF REEFS

Client: Brevard County



Coastal Tech was contracted for this Project which provided for a state-of-the-art Reconnaissance-Level Feasibility Study of the economic, physical, and environmental aspects of various types of multi-purpose artificial surfing reefs that might be considered for construction along Brevard County's Atlantic coastline.

The Coastal Tech Team performed the following services under this very high profile project:

## Key Elements

- 🕒 Surveys
- 🕒 Literature Review
- 🕒 Conceptual Design
- 🕒 Wave Analysis
- 🕒 Opinion of Probable Costs
- 🕒 Environmental Assessment
- 🕒 Benefits & Costs Analysis
- 🕒 Community Outreach

**Date:** 2008

**Fees:** \$82,000

## Contact:

Virginia Barker, Watershed Program Manager

**Brevard County NRMO**

2725 Judge Fran Jamieson Way, Bldg. A

Viera, FL

(321) 633-2016

[virginia.barker@brevardcounty.us](mailto:virginia.barker@brevardcounty.us)

- A comprehensive literature review and interviews of local governments which have constructed an ASR,
- Conceptual Design
- A Wave Analysis of the top-ranked candidate site,
- An *Opinion of Probable Costs*,
- An *Environmental Assessment*,
- A *Benefits & Costs Analysis* – including erosion control benefits and increased recreational benefits,
- Community Outreach, and
- A Final Report and Presentation to both the TDC Beach Committee and the Board of County Commissioners.

Based upon the results of the cost benefit analysis, it was Coastal Tech's professional opinion that an ASR for Brevard County was not economically justified and was not expected to qualify for state or federal cost-sharing. Note that:

- Surfing Event benefits were not expected to be viable benefits under USACE criteria.
- Additional recreation benefits and any additional "storm damage reduction benefits" constituted a "Betterment" of the federal USACE Shore Protection Project for which the County would "pay the incremental cost" of an ASR.
- If the County elected to pursue an ASR, federal and state cost-sharing was expected to be limited in proportion to the percentage of "Erosion Benefits/Costs"
- Other local tourism and associated marketing benefits might be realized with the construction of an ASR – beyond those benefits specifically addressed in the report. Such other benefits were not expected to provide a basis for cost-sharing in an ASR by the USACE or FDEP.



Enhancing Coastal Life.