

ASSESSMENT OF FILL and NATIVE SANDS at SIESTA KEY PUBLIC BEACH ACCESSES

Client: Sarasota County, FL

Recent and proposed improvements to Public Beach Accesses on Siesta Key necessitated placement of off-site borrow fill within limited areas on the upper portion of the native beach. The County desired to ensure that the fill sand placed on the beach accesses was as compatible as possible with the native beach sands and fully met the regulatory requirements of the Florida Department of Environmental Protection. There were at least three sand options for the fill sand available from the operator of a local borrow source.

Under this Scope of Work, Coastal Tech's *Coastal Geology & Sediments Lab* performed the analysis of samples from the native beach material and from the proposed fill material, and provided a letter report.

A total of twelve (12) sediment samples were analyzed. These included one (1) sample of native sand from beach access No. 3, three (3) samples of Siesta Public Beach Park native material, three (3) samples of native sand from beach access No. 12, and three (3) samples of potential fill from the borrow source operator (SMR Aggregates), including one (1) sample of "beach compatible" "fill" used at Public Access No. 3, (1) sample of "masonry sand" material and one (1) sample of "drain field" fill material.



Coastal Tech found that all samples of potential fill material tested comply with the FDEP Sand Rule 62B41.007 (2)(j) for compatibility with the native beach material examined. However, results indicated that the SMR 'mason sand' sample was likely the most compatible with the existing beach material.

Key Elements

- ④ Gradation Analysis
- ④ Composition Analysis
- ④ Color Analysis
- ④ Grain-Shape Analysis
- ④ Photography
- ④ Letter Report & Interpretive Graphics

Date: 2009

Fees: \$2,374

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