

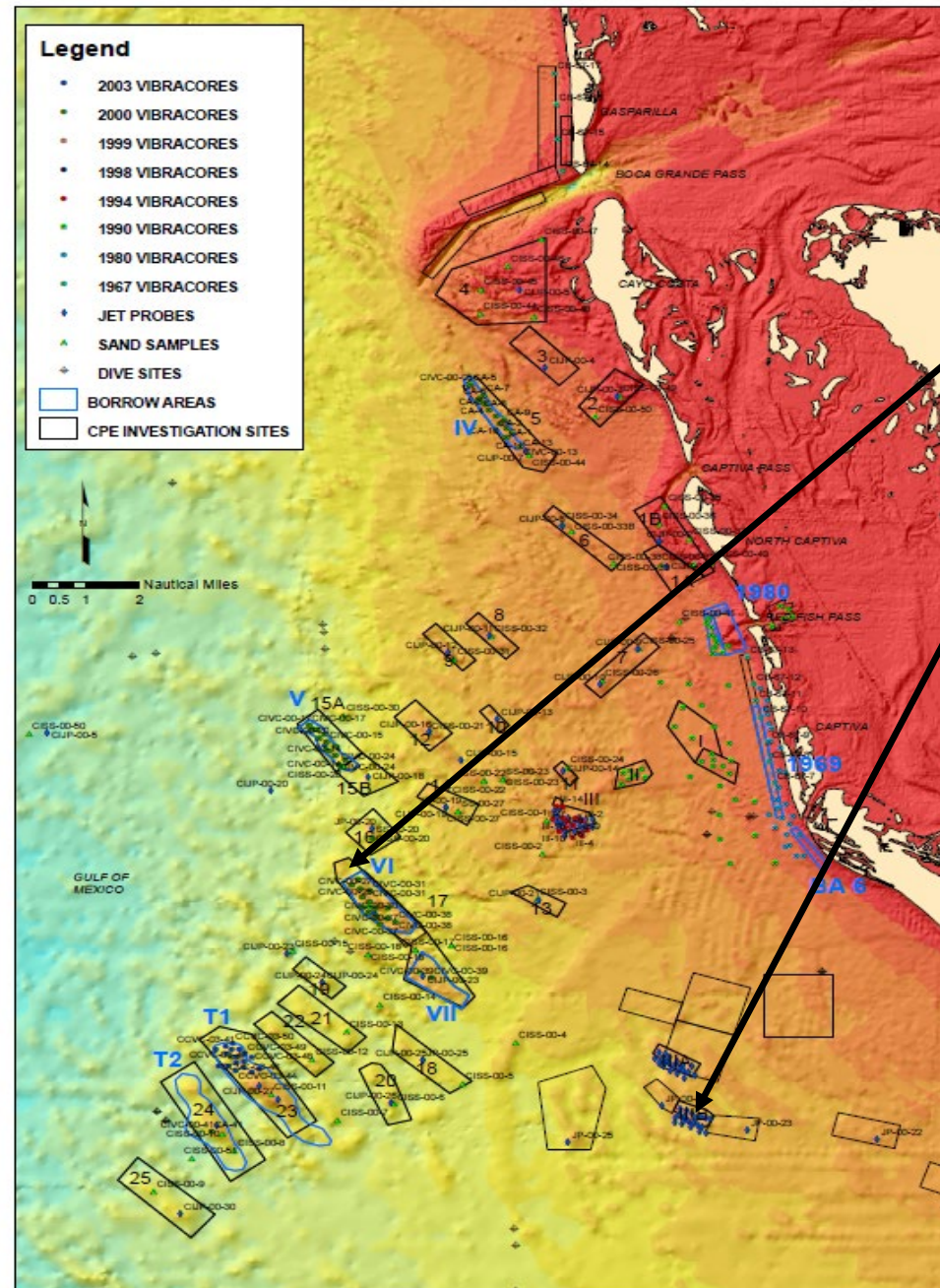


CEPD Beach Project- Desktop Sand Resource Investigation

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Status



- 2025 Project functionally exhausted the remaining sand in Borrow Area VI-E
- There are minimal volumes of sand in borrow AREA III B
- There is approximately 250,000 cy within Redfish Pass ebb shoal.
- CEPD has no large permitted sand resources at the present time.



Borrow Area Desirables (Recommendations)

- Volumes: At least 2 full beach nourishment volumes plus contingencies plus reserves to address ease of dredging. Say 4 to 6 million cy.
 - There are adequate sand reserves offshore of the Cayo Costa to Sanibel Islands to provide for regional planning of the beach nourishment project for 50 years. This could be documented during the desktop analysis, if requested.
- Grainsize: 0.30 to 0.35 mm +/- to be similar to previous nourishments.
- Silts/clay: <<3%
- Color: Munsell 6 or higher. [light gray or lighter].
- Proximity to Captiva Island: In state waters to avoid additional Federal (BOEM) regulatory review, lease, etc.)



Existing Knowledge

- There are multiple sand resources offshore of Captiva/Sanibel with varying levels of data.
- From CPE (2002), a detailed review of the limited Borrow Area IV, V, and VII data should be performed.
- Borrow Area T1 was utilized by Collier County (once). Abundant surficial shells were noted. This is located in federal waters.

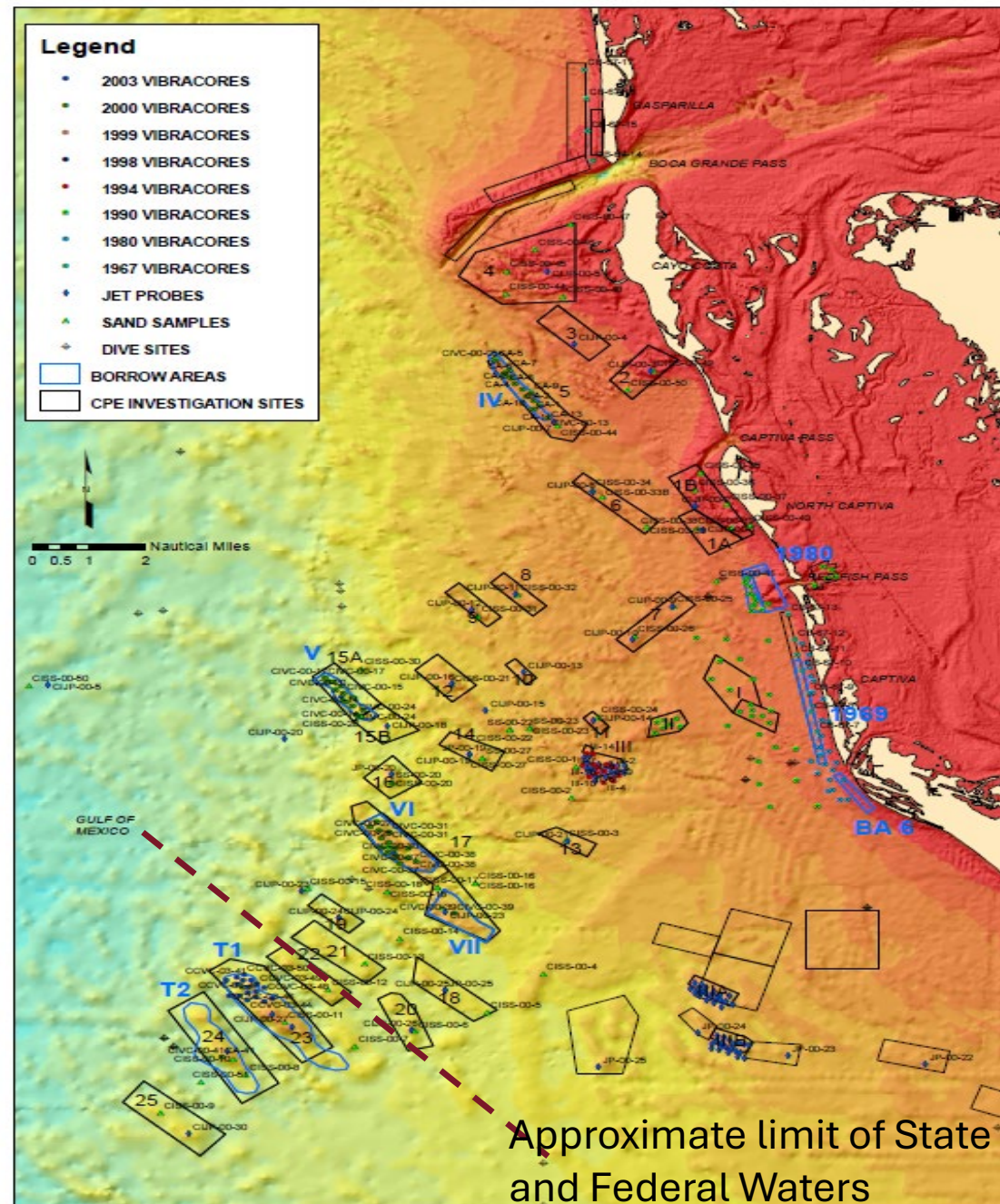


Figure 1 Captiva Island 2002 Sand Investigation.

Recommendations

- Phase 1 is a desktop review of all offshore sediment data. This will inform recommendations (alternatives) for future field investigations to be presented to the Board.
- Preliminary priorities may focus on previously described areas IV, V, VII.
- Total sand search costs will be dependent on future board decisions. Expected costs will be in the range of \$500,000 (limited investigations) to \$1M (for larger or more detailed investigations).



