

TOWN OF OAK ISLAND

Implementation of Phase I Lower Lockwood Folly Habitat Restoration Development Plan

**Informational Briefing for the Oak
Island Town Council
June 10, 2014**



What is the Purpose of the LLFRP?

- Engineering plan to improve water flow and ecologically restore the habitat in and around the lower Lockwood Folly River, including the area of Galloway Flats and the Eastern Channel of the Lockwood Folly River.

- The County commissioned Coastal Science and Engineering to conduct a study to improve ocean water flow to the area to specifically:

1. Assist in the preservation dwindling clean shell fish waters in Brunswick County, and
- 2.Improve flow to the estuarine areas on Oak Island for fish nurseries and nursery habitats, and
3. Restore the historical original channel of the river behind existing Blue Water Point Marina to the Ocean.
4. Provide high quality beach sand for beach renourishment.

History of the Plan

Original Plan for Phase I - USACE Conducted Dye Test on the Eastern Channel- Early 1980's for Flow Models

- USACE Submitted Environment Request for Funding in the Early 2000's

- Commission of Coastal Science and Engineering in 2009 by Brunswick County

- ❖ Application Filed with the NCDWR

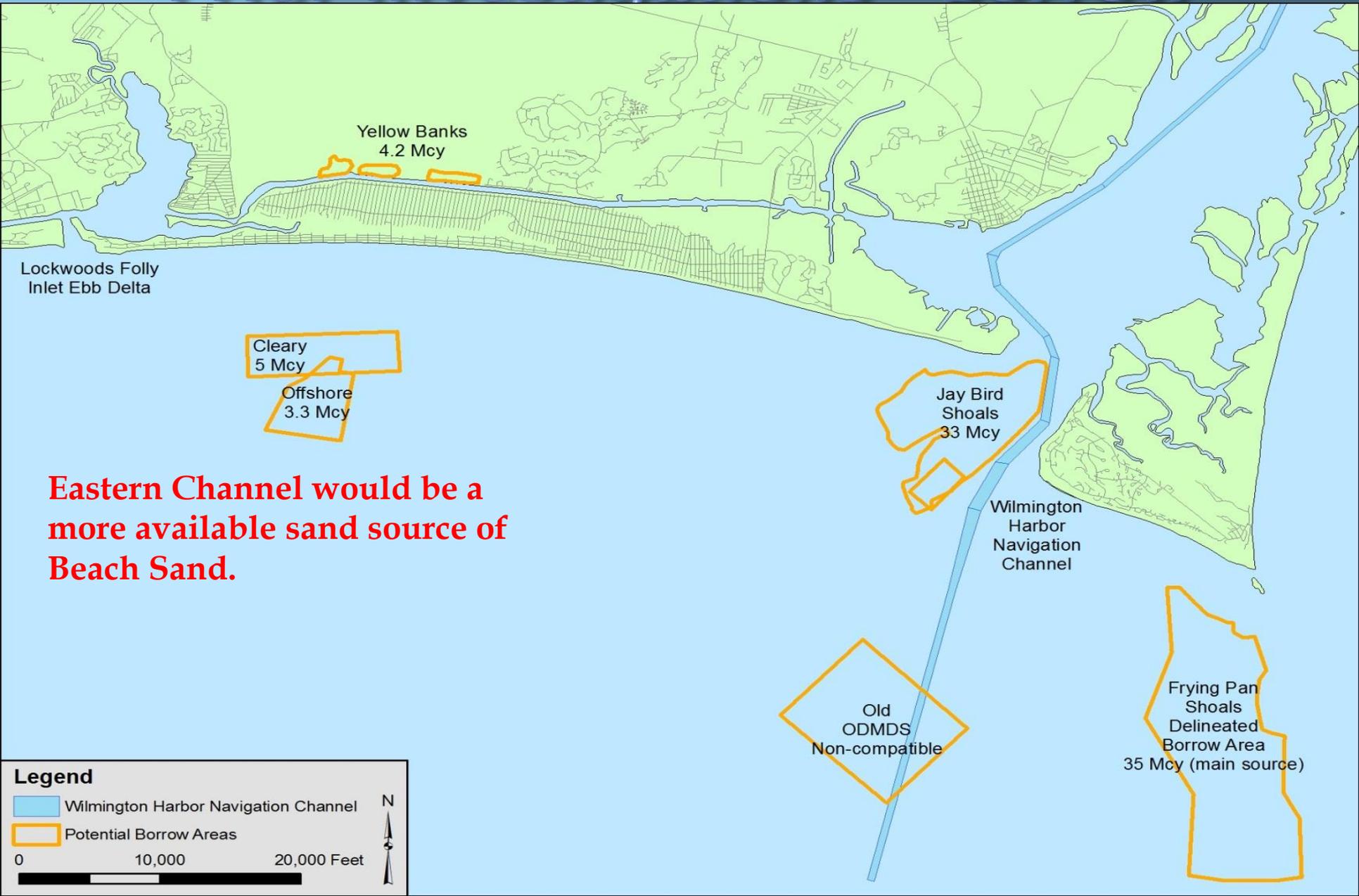
- ❖ No project funding due to lack of funds for water projects

Establishment of new funding source by the NC General Assembly improved chances for the Project being funded

Lockwoods Folly Inlet \ Eastern Channel Complex Area Management Goals:

- ▣ **Coordinate with USACE, NCDENR, Brunswick County, and Holden Beach**
- ▣ **Improve water quality**
- ▣ **Maintain navigation channels**
- ▣ **Placement of beach quality sand on adjacent Oak Island beach.**
- ▣ **Integration of existing plans into a comprehensive plan**
- ▣ **Maintain channel flow**
- ▣ **Identify navigation improvement opportunities, and funding sources**

Prior Investigations - Borrow



Eastern Channel would be a more available sand source of Beach Sand.

▣ **What is urgency of this Project ?**









Sand Placement

Preliminary placement area on the beach as proposed would go from the homes between 42nd and 48th PI W Streets down toward the inlet and terminating between 66th and 69th PI W Streets for a total distance of about 1.25 miles.

The center of the project would be at 57th PI W Street which is at the Blue Water Point Marina. 25-30 CYF would be placed in the project area

Tool Box of Financing Options

- ❖ State Funding
- ❖ Accommodations Tax (Beach Fund)
- ❖ Municipal Service Districts (Assessments for Benefited Properties)
- ❖ No Ad Valorem Tax to be used

Costs and Revenues for the Project

- ▣ Total cost for LLFHRP ~ \$3,500,000
(Pending final figure from Moffat and Nichol Coastal Engineers)
- ▣ State Request \$1,500,000
- ▣ County Request \$ 500,000
- ▣ Town Portion \$1,500,000 (Beach Fund)

Eastern Channel Project

- ▣ Design, Permitting and Construction Observation Services Engineering (Design and Construction Observations) \$274,925
- ▣ Construction Costs Mob/ Demob Total Construction Costs \$2,808,000
- ▣ Contingency 15% \$462,439
- ▣ Total Project Budget \$3,545,364