

FACT SHEET "2004-05 Brandt Island Pump-Out & Inner Harbor Maintenance" Bogue Banks, Carteret County
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PROJECT DESIGN - Shoal material dredged from the Inner Harbor is temporarily stored at the upland disposal facility of Brandt Island. The stored shoal material is subsequently "pumped-out" of Brandt Island on a decadal basis along the shorelines of Fort Macon and Atlantic Beach, known as the Base Disposal Plan Area. In general, the beach nourishment template is comprised of two fundamental elements; (1) The construction of a 170-foot wide sand berm at an elevation of approximately 7 feet above sea level, and (2) A seaward extension from the berm to the ocean at a 1 vertical to 25 horizontal slope. There is no dune construction planned for the Project.

CONSTRUCTION SUMMARY - FY 2005

Total Length of Beach:

Fort Macon (Base Disposal Plan) - 2004-05	4,543 feet	0.9 miles
Atlantic Beach (Base Disposal Plan) - 2004-05	18,000 feet	3.4 miles
	22,543 feet	4.3 miles

Estimated Sand Sources for 2005 Project:

Brandt Island (from inner harbor) - 2004-05	1,949,471 cubic yards
Brandt Island (from Port shipping docks) - 2004-05	440,529 cubic yards
Inner Harbor Maintenance Dredging (2004-05)	331,729 cubic yards
Entrance Channel/Beaufort Harbor Dredging (2004-05)	199,000 cubic yards
TOTAL	2,920,729 cubic yards

Estimated Distribution of Sand in Cubic Yards:

Fort Macon (base disposal)	525,731 cubic yards
Atlantic Beach (base disposal)	2,394,998 cubic yards
TOTAL	2,920,729 cubic yards

Cubic Yards per Linear Foot (cy/ft):

Fort Macon (Base Disposal Plan)	116 cy/ft
Atlantic Beach (Base Disposal Plan)	133 cy/ft
AVERAGE	130 cy/ft

FISCAL SUMMARY - FY 2005

Funding Requirements:

Federal Share

Base Disposal/Maintenance Dredging (100%)	\$9,600,000
Subtotal	\$9,600,000

State Share

Base Disposal (0%)	\$0
Removal of Port Material in Brandt Island (440,529 cy)	\$1,000,000
Subtotal	\$1,000,000

TOTAL	\$10,600,000
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Relative Costs:

Cost per Linear Foot (\$ 2005)	\$470
Cost per Mile (\$ 2005)	\$2,482,722