Short Version of 2016 Shoreline Management & Dredging Project for the Town Council

Environmental Resource Committee

Six Proposed Dredging Sites

Mary's Creek
1. Maintenance Dredging
2. 1,110 feet

Turtle's Creek
1. Maintenance Dredging
2. 1,100 feet

North Shore Drive Feeder Canal
1. Maintenance Dredging
2. 3,500 feet

North Shore Drive Adjoining Finger Canals
1. Maintenance Dredging
2. 3,600 feet

Canal Drive Bay Area
1. New dredging
2. 2,100 feet

Jinks Creek
1. New dredging
2. 6,800 feet

New Dredging: 1.7 miles or 49% of the project

Maintenance Dredging: 1.8 miles or 51% of the project

South Jinks Creek

1. Inlets move
2. Sand movement associated with flood tide delta movement
3. Kayaking at low tide
4. It is reasonable to consider the South End of Jinks Creek for dredging.

Dredging of North Jinks Creek Will Create Concerns

1. **Environmentally sensitive**
2. **Economically important**
3. **Primary Nursing Areas (PNA)**
4. **75% of animals harvested in North Carolina for sea food spend at least part of their life cycle in these nurseries.**

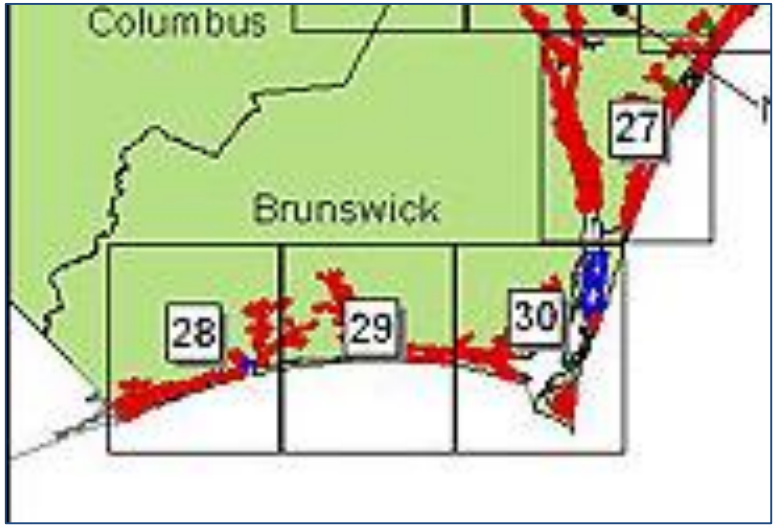
In 1970s Jinks Creek was determined not to be a PNA

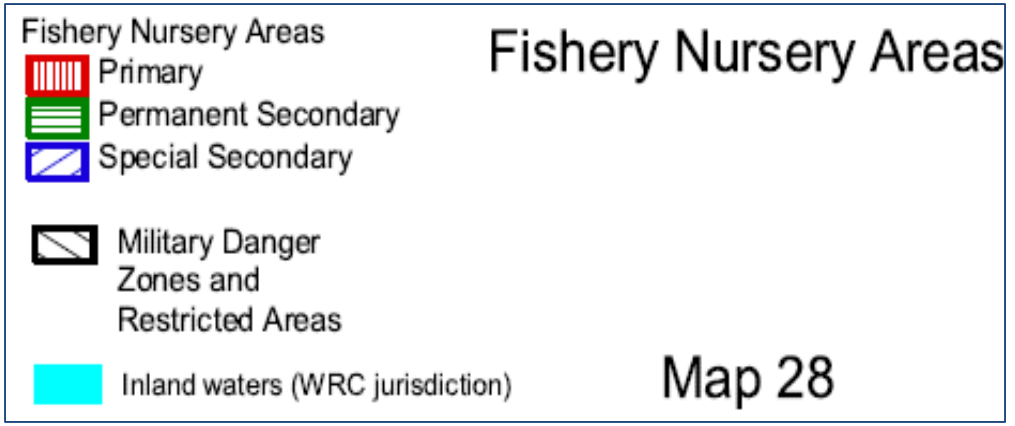
However, the current NCDENR website shows that the banks of North Jinks Creek are classified as PNA

North Jinks Channel Surroundings, Marys and Turtle Creeks, and the ICW are listed as Primary Nursery areas

Oysters beds are found from Riverside Drive to the Intracoastal Waterway

http://portal.ncdenr.org/web/mf/primary-nursery-areas





Role of Jinks Creek in the Primary Nursery System

1. Water and nutrients delivered to the PNAs by Jinks Creek

2. Major biological function of shellfish is to remove contaminates from the water

3. Removal of contaminates help maintain a functional primary nursery system

Oyster Beds In the North Jinks Creek

CAMA rules specify: "Navigation channels, canals, and boat basins shall be aligned or located so as to avoid primary, nursery areas, shellfish beds, beds of submerged aquatic vegetation."

Pollution Removal

1. **Reason for these signs is the shellfish have ingested significant amounts of pollutants to be inedible**
2. **Shellfish in Jinks Creek are doing their job**
3. **Dredging will stir up any pollutants and fine sediments and redistribute them throughout the water column and onto the marsh.**
4. **Boat wake will also stir up pollutants. Larger the boat the greater the disruption.**
5. **Dredge spoil should be carefully handled and carefully placed where there is minimal impacts to nursery grounds and habitats**

Closed Shellfish Sign posted on both side of North Jinks Creek

2016 North Carolina Coastal Habitat Protection Plan by North Carolina Department of Environmental Quality

http://portal.ncdenr.org/web/mf/habitat/chpp/downloads

1. **Sedimentation in nursery area is a primary concern.**
2. **Dredging contributes to an increase in sediment.**
3. **Shell bottom habitats are damaged by navigational dredging.**
4. **Major threat to SAV is channel dredging.**

QUESTIONS