Sunset Beach
North Carolina

Pre-Dredge Analysis

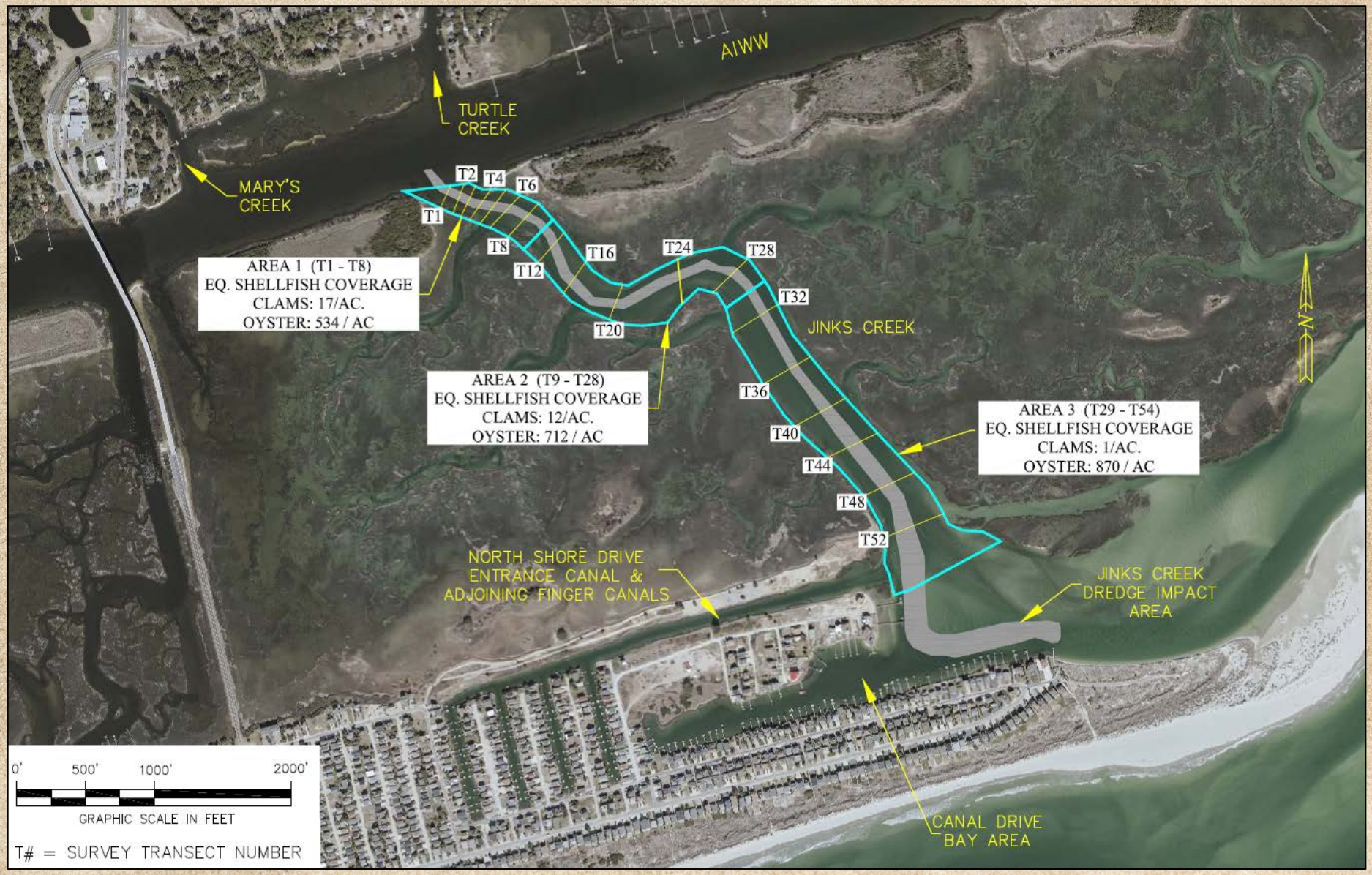
Project Update &
Revised Estimate
September 05, 2017

moffatt & nichol

Discussion Outline

- Initial Results of Jinks Creek Shellfish Survey & Agency Site Meeting (Including DCM's Request to Keep Jinks Creek Together as One (1) Permit Application.)
- Permit Submittal Status (Mary's, Turtle, Feeder, Finger Canals, & Bay Area)
- Coordination Efforts with OIB for Beneficial Use Material Placement
- Revised Construction Cost Estimate
- Discussion

Jinks Creek Shellfish Survey Results



Main Points of Discussion

- NMFS stated they supported the project and understood the navigational need through N. Jinks Creek. However, they indicated some type of minimization / mitigation (preferably on-site) would be required.
- NC DMF stated they did not see an eminent reason the permit would be denied but expressed concern over the potential impacts to shellfish (oyster).
- Agencies requested three (3) separate permit submittals as follows:
  - One permit to include Mary's & Turtle Creek.
  - One permit to include the Bay Area, the Feeder Canal, and Finger Canals A-D.
  - One Permit for Jinks Creek (North and South).

Permitting Summary

- Environmental Documentation should be complete by November 1. This includes the following:
  - Essential Fish Habitat Assessment (EFH) – Evaluates how federally managed fishery resources may respond to the project.
  - Biological Assessment (BA) – Evaluates how federally listed endangered or threatened species may respond to the project.
  - Cultural Resource Review – Identifies any reported shipwreck or cultural resource (such as Native American pottery), identified in the project area.
  - CAMA Permit Application – Provides the purpose and need, project description, permit sketches and all the documentation referenced above. **Must also include a placement area for the dredge material.**

Material Placement Site

Material Placement Site Identification would be the only remaining item to complete CAMA permit application. This includes the following:

- Authorization from property owner;
- Potentially a survey to show existing conditions and storage capacity.
- Potentially a sediment analysis to show existing material within material placement site is non-compatible.

(Existing data may be available from property owner or USACE to fulfill survey and Geotech requirements.)

*** If South Jinks Creek is included in the permit application, then a placement area for the beach compatible material will also be required as part of the permit package.**

Material Placement Site Selection

- 2 sites identified in project area.
- Significant improvements will be required for their use.

A tentative meeting with the property owner is scheduled for the week of September 5th to begin negotiations for use. Sites identified are USACE spoil islands 310 & 311. USACE manages the sites; however, they are privately owned.

Coordination Efforts with the Town of Ocean Isle Beach for Beneficial Use Material Placement

- Town officials & staff met with OIB officials on July 24th. All parties were receptive to placing material on OIB; however, a cost share agreement seemed unlikely.
- As a result of the meeting, the Town (Sunset Beach) will need to submit a request to the OIB Town council for consideration.
- OIB requested for the submittal to include a cost estimate for the beach material placement.
- OIB expressed support for the project and appreciated the update. However, they also stated they would ask for monitoring measures to help verify the project does not impact their shoreline.

Revised Cost Estimate

Table 1. Estimate of Construction Costs

Item	Unit Cost	Quantity	Cost
Mobilization[1]	LS	1	$800,000
Bonds / Insurance	LS	1	$15,000
Spoil Island Improvements	LS	1	$127,000
Dredge & Fill[2, 3] Non-Compatible Material (Inclusive of Tipping Fee)	$12.42 / CY	111,585 CY	$1,385,698
Dredge & Fill[2] Compatible Material (Beneficial Use Placement)	$12.50 / CY	68,660 CY	$858,250
Sub-Total			**$3,185,948**
Contingency (15%)			$477,900
Total			**$3,663,848**

1. Costs assume two (2) mobilizations will be required to construct the project over multiple dredge seasons.
2. Estimate include overdredge tolerances.
3. Estimates include $5/CY tipping fee.

State Cost Share

In accordance with the State cost share agreement for the project, the state will reimburse the Town for 2/3rds of the design, permitting, construction, & monitoring costs. Funds currently allocated to the project include the following:

Phase	Est. Budget	State Share	Local Share
Design	$242,106	$161,404	$80,702
Permitting	$139,384	$92,923	$46,461
Construction Oversight	$67,500	$45,000	$22,500
Construction	$3,600,000	$2,400,000	$1,200,000
Monitoring	$120,000	$80,000	$40,000
TOTAL	**$4,168,990**	**$2,779,327**	**$1,389,663**

Thank you!

Questions and Comments

Robert Neal, PE
Email: rneal@moffattnichol.com Ph: 910.218.7100