SNOW'S CUT SHORELINE STABILIZATION AND EROSION PROTECTION

Public Scoping Meeting Presentation

Presenter: Justin Bashaw Biologist, Env. Res. Section USACE, Wilmington District

Date: 24 June 2024, 5:00pm EDT

Locations: Carolina Beach State Park Virtual (WebEx)



U.S. ARM









INTRODUCTIONS





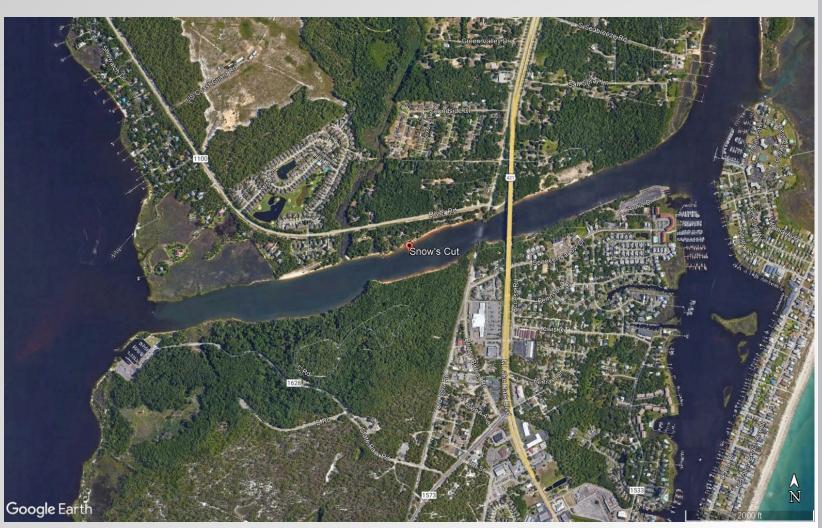
Image courtesy of USACE.







- Authorization and Funding
- Snow's Cut Land Use
- Historic Shoreline Change
- Existing Measures
- Proposed Project
- Environmental Resources and Compliance
- Project Schedule
- Comment Submittal and Questions



Map courtesy of Google Earth.



AUTHORIZATION AND FUNDING



- Authorization
 - Snow's Cut Atlantic Intracoastal Waterway (AIWW)
 - Rivers and Harbors Act of 1912 (P.L. 62-241)
 - Rivers and Harbors Act of 1927 (P.L. 69-560)
 - Rivers and Harbors Act of 1930 (P.L. 71-520)
 - Rivers and Harbors Act of 1937 (P.L. 75-392)
 - Rivers and Harbors Act of 1948 (P.L. 80-858)
- Funding
 - FY 2024 Bipartisan Infrastructure Law
 - Funds in the amount of \$15,000,000 will be used to conduct planning and design, environmental compliance, and construction to stabilize the federally-owned land adjacent to Snow's Cut, part of the Atlantic Intracoastal Waterway (AIWW), NC.

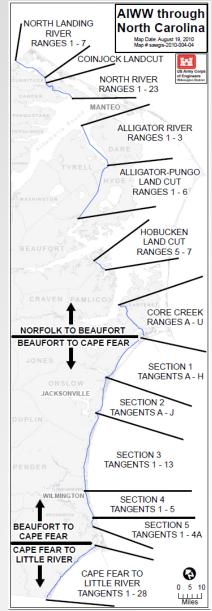


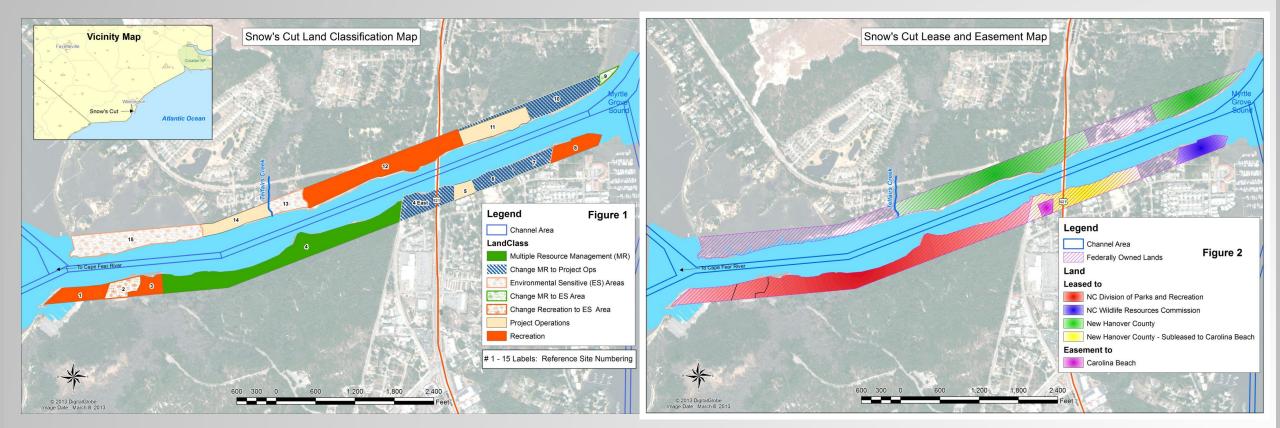
Image courtesy of USACE



SNOW'S CUT LAND USE



 Constructed between 1929-1931. Purpose is to provide safe inland navigation for both commercial and pleasure crafts moving northwardly and southwardly along the coast of North Carolina.





HISTORIC SHORELINE CHANGE



 Between 1953 and 2013, on average, 1,625 feet of bank eroded from the northern shoreline and 1,864 feet of bank eroded from the southern shoreline.

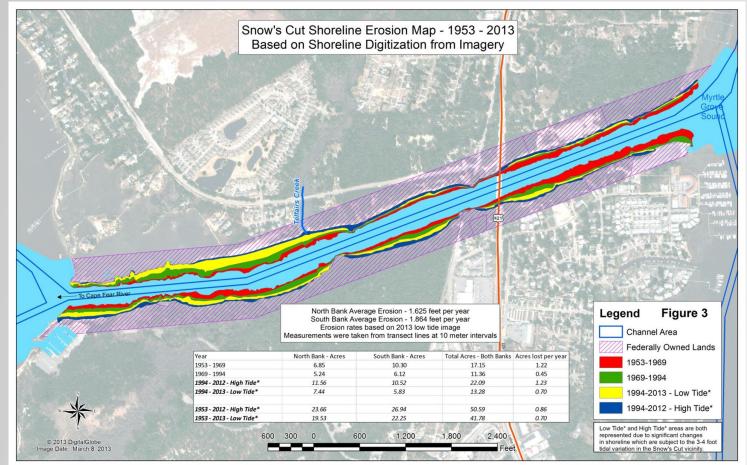


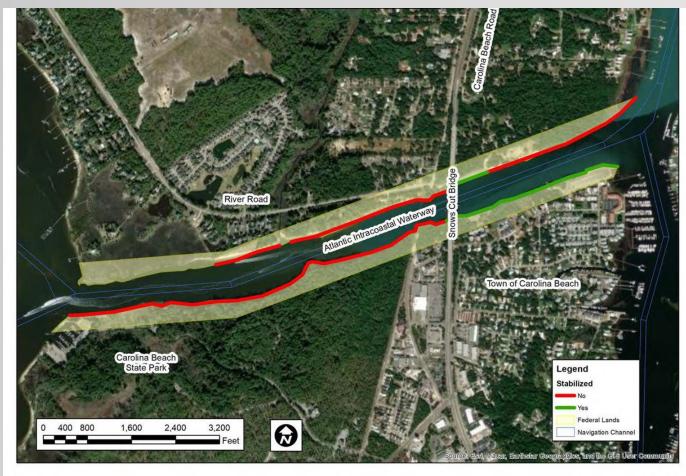
Figure 3 of <u>USACE Environmental Assessment, Master Plan Supplement, Snow's Cut</u>. Current as of 2013. Updated shoreline change map development.



EXISTING MEASURES



 USACE shoreline stabilization and erosion protection most recently occurred in March 2018, east of Snow's Cut Bridge.





PROPOSED PROJECT



- Current project will focus on four reaches:
 - Reach 1 Snow's Cut Park (closed)
 - Reach 2 Dredged Material Placement Area
 - Reach 3 Carolina Beach State park (north)
 - Reach 4 Carolina Beach State Park (south)



- REACH 1 SNOW'S CUT PARK NORTH BANK (CLOSED) PROPOSED DESIGN: 2,200 FEET OF TOE REVETMENT WITH NATURAL BANKS
- REACH 2 DREDGED MATERIAL PLACEMENT AREA PROPOSED DESIGN: 1,100 FEET OF TOE REVETMENT WITH NATURAL BANKS



REACH 3 - CAROLINA BEACH STATE PARK (NORTH) PROPOSED DESIGN: 1,600 FEET OF LIVING SHORELINE AND NATURAL BANKS



REACH 4 - CAROLINA BEACH STATE PARK (SOUTH) PROPOSED DESIGN: 2,200 FEET OF CONCRETE WAVE ATTENUATORS WITH WETLAND VEGETATION

LIVING SHORELINE ALTERNATIVE









Terrestrial and Aquatic Impacts

 For all project areas, minor vegetative clearing may be required to accommodate necessary equipment and to allow for proper construction of protective measures. Similarly, for all project areas, minor portions of open water may be permanently impacted due to placement of measures below the waterline.



USACE Photos, May 11, 2017 (left) and January 31, 2018 (right).





Common Fishes

- Bluefish (Pomatomus saltatrix), trouts (Cynoscion regalis or C. nebulosus), red drum (Sciaenops ocellatus), mullets (Mugil cephalus or M. curema), flounder (Paralichthys dentatus), croaker (Micropogonias undulatus), sheepshead (Archosargus probatocephalus) and spot (Leiostomus xanthurus).
- Essential Fish Habitat (EFH)
 - Snapper/Grouper, coastal migratory pelagics
- Habitat Areas of Particular Concern (HAPC)
 - Penaied shrimp
- Primary Nursery Areas (PNA)
 - None in project area

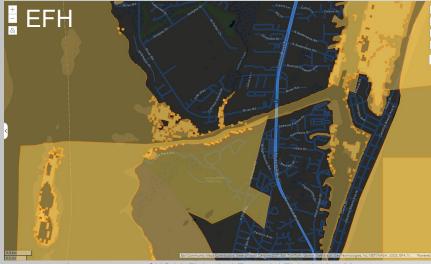


Image courtesy of NOAA Fisheries' Essential Fish Habitat Mapper.

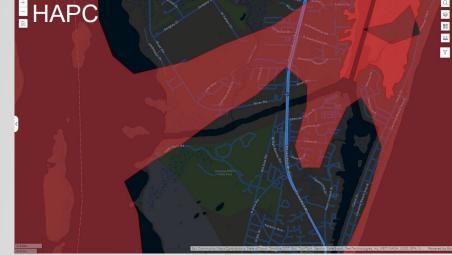
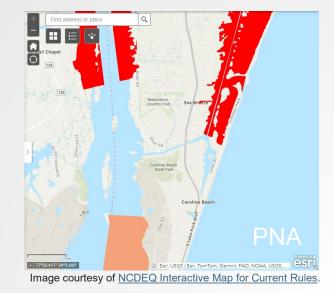


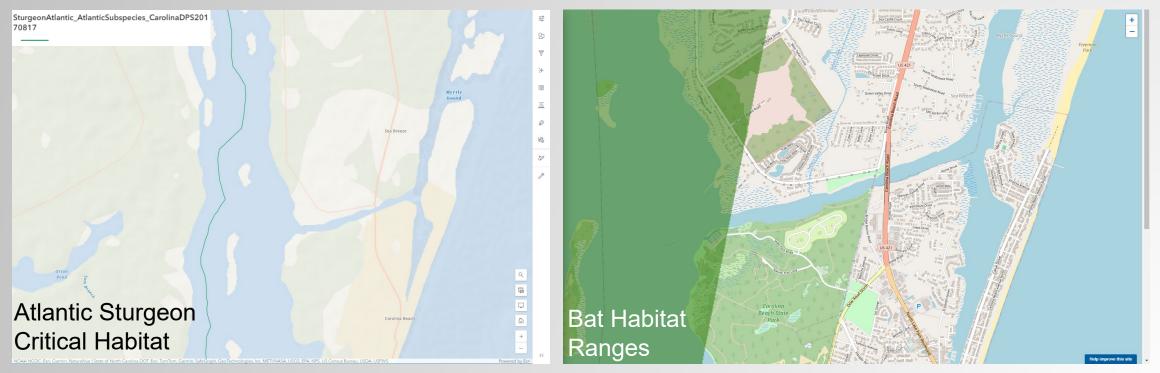
Image courtesy of NOAA Fisheries' Essential Fish Habitat Mapper.







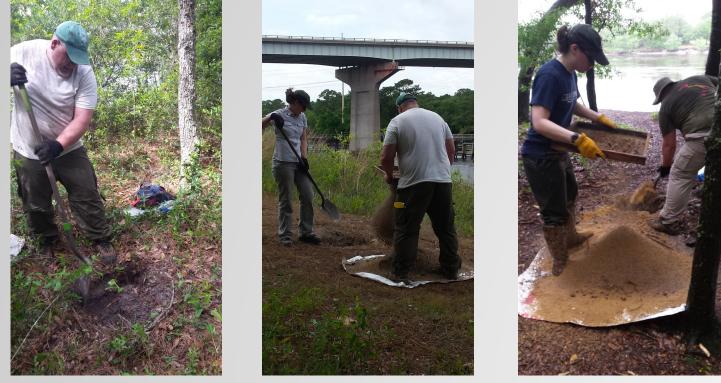
- Threatened and Endangered Species
 - West Indian Manatee
 - Found along entire southeastern United States. May be present in project area.
 - Atlantic and Shortnose Sturgeons
 - Atlantic sturgeon critical habitat may overlap with project area. No shortnose sturgeon critical habitat in project area.
 - Northern Long-eared and Tricolored Bats
 - Ranges may overlap with project area.







- Cultural Resources
 - Within or near the proposed project area are sites 31NH79, 31NH496, 31NH540, 31NH541, and 31NH542 (all unassessed with respect to National Register of Historic Places eligibility).
 - Previous surveys in the vicinity were conducted in 1981 (Baker), 2004 (Kimmel), 2007 (Kimmel), and 2017 (Hughes).



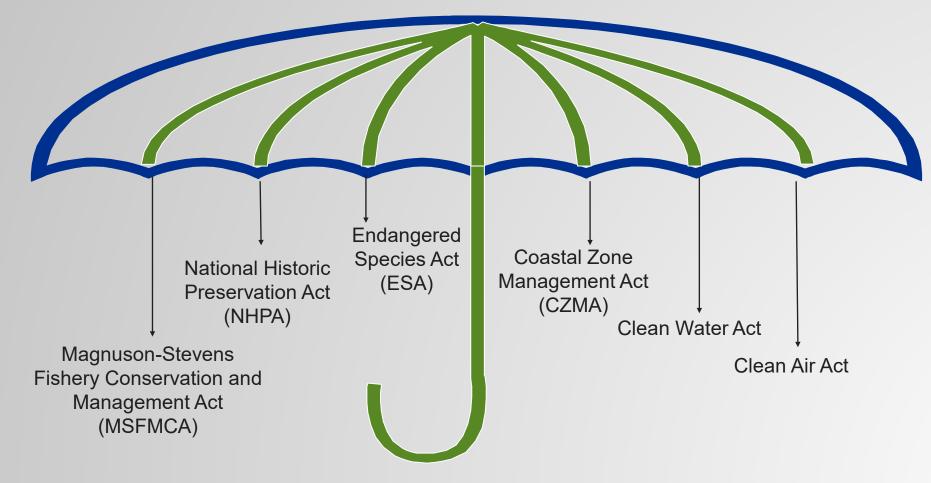
USACE Photos, May 22, 2017.



ENVIRONMENTAL COMPLIANCE



NATIONAL ENVIRONMENTAL POLICY ACT (NEPA)







- Magnuson-Stevens Fishery Conservation and Management Act (MFMCA) (Essential Fish Habitat (EFH))
 - Coordination to occur with the National Marine Fisheries Service (NMFS).
 - An EFH assessment will be included in the EA.
- National Historic Preservation Act (NHPA)
 - Coordination for shoreline stabilization and erosion protection measures constructed in 2018 coordinated with the NC State Historic Preservation Office (SHPO) in August 2017 under ER 17-1460. Previous coordination (September 2013) in the Snow's Cut vicinity occurred under ER 13-1609.
 - Coordination under ER 17-1460 to continue and may include additional surveys prior to construction.
- Endangered Species Act (ESA)
 - Coordination to occur with the US Fish and Wildlife Service (USFWS) and NMFS.
 - Informal consultation anticipated.
- Coastal Zone Management Act (CZMA)
 - A Federal Consistency Determination will be submitted to the NC Division of Coastal Management.
- Clean Water Act
 - A 401 Water Quality Application will be submitted to the NC Division of Water Resources.
 - Proposed project will be evaluated in accordance with Section 404(b)(1).
- Clean Air Act
 - The EA will address green house gas emissions associated with proposed construction activities.



PROJECT SCHEDULE



| Description | Date |
|---|-------------------------------|
| Funding Received | November 30, 2023 |
| Surface Penetrating Testing Activities | May 2024 |
| NEPA / Permitting Process | June 2024 - July 2025 |
| Scoping Period | June 7, 2024 - July 8, 2024 |
| Public Scoping Meeting / Agency Scoping Meeting | June 24, 2024 / June 25, 2024 |
| DRAFT Environmental Assessment Available for Public Review | March 2025 |
| Design Completed | June 2025 |
| Construction Contract Awarded | December 2025 |
| Begin Construction | January 2026 |
| End Construction | September 2026 |

Note: Future dates subject to change.



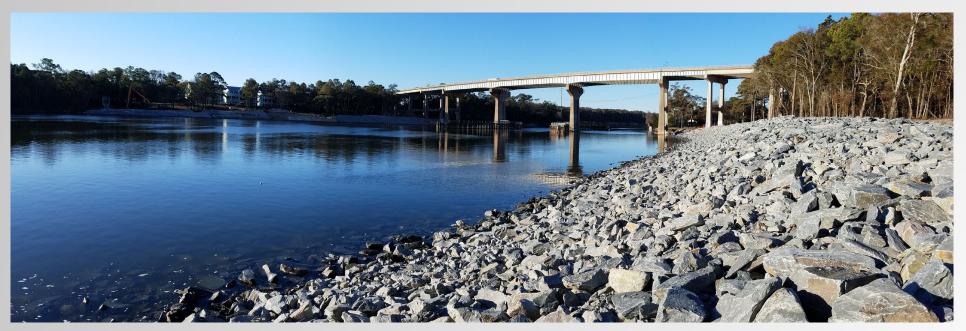
COMMENT SUBMITTAL AND QUESTIONS



THANK YOU for your interest and attention!

Please provide scoping comments to Justin Bashaw (justin.p.bashaw@usace.army.mil) by July 8, 2024.

All comments will be considered during development of the DRAFT Environmental Assessment.



USACE Photo, January 31, 2018.