



Shoreline Restoration Project Update

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Agenda



- Recent Nor'easter Damage
- Alternatives Discussion
- Project Status
- New Technical Information
- EIS Update
- Q&A



Nor'easter Damage – South End Before





Nor'easter Damage – South End After





Alternatives Discussion



- Ongoing Seawall Maintenance Independent of this Project
- Three Alternatives: (all include extension to the existing seawall)
 1. Beach fill Only
 2. Beach fill and Groin
 3. Beach fill and Detached Breakwater
- Meetings on 8/3/09 and 8/4/09 with designers and ITR Team
- Technical merits and cost of all three alternatives believed to be similar
- **NASA has decided to make Beach fill only the “preferred alternative”**
- **Blackfish Bank has been removed as possibility for borrow site**
- Implementation Schedule
 - CY 2010-2011 - Seawall Extension
 - CY 2011-12 - Sand Placement



Project Status

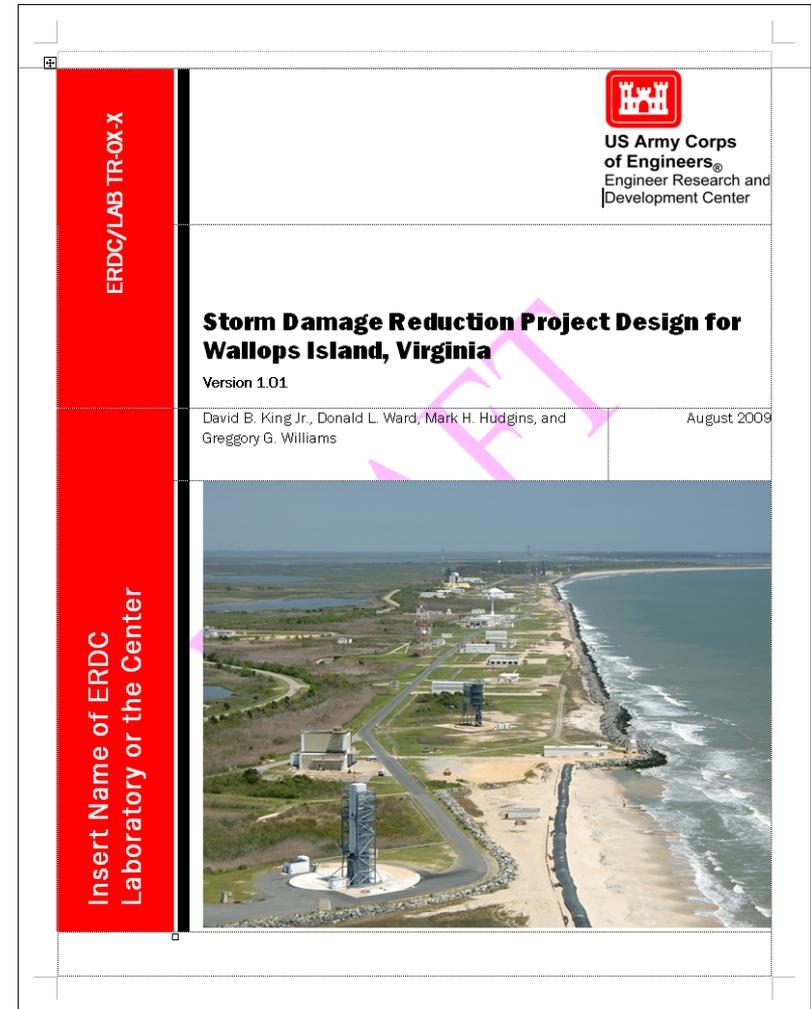


EIS

- Public update meeting – Dec 2009
- Draft EIS release – Feb 2010
- Public comment meeting – Mar 2010
- Final EIS release – Jul 2010
- Record of Decision – Aug 2010

DESIGN

- Finalize Modeling report – Dec 2009
- 30% Design – Oct 2009
- 60% Design – Jan 2010
- 90% Design – Mar 2010
- 100% Design – Jul 2010





Project Status Cont'd



Independent Technical Review (ITR) Team Retained

- Purpose:
 1. Provide an independent technical review of all documentation related to the NASA WFF, Shoreline Restoration and Protection Program
 2. Evaluate the scientific and engineering studies relative to the stakeholder comments
 3. Identify strengths and weaknesses of the proposed Program and scientific/engineering matters that need further review
- Four University Professors (3 Coastal Geologists and 1 Coastal Engineer)
- ~125 years of combined professional experience serving in the capacity of project reviewers



New Technical Information



- Net Sediment Transport is to the North – although any given year can vary

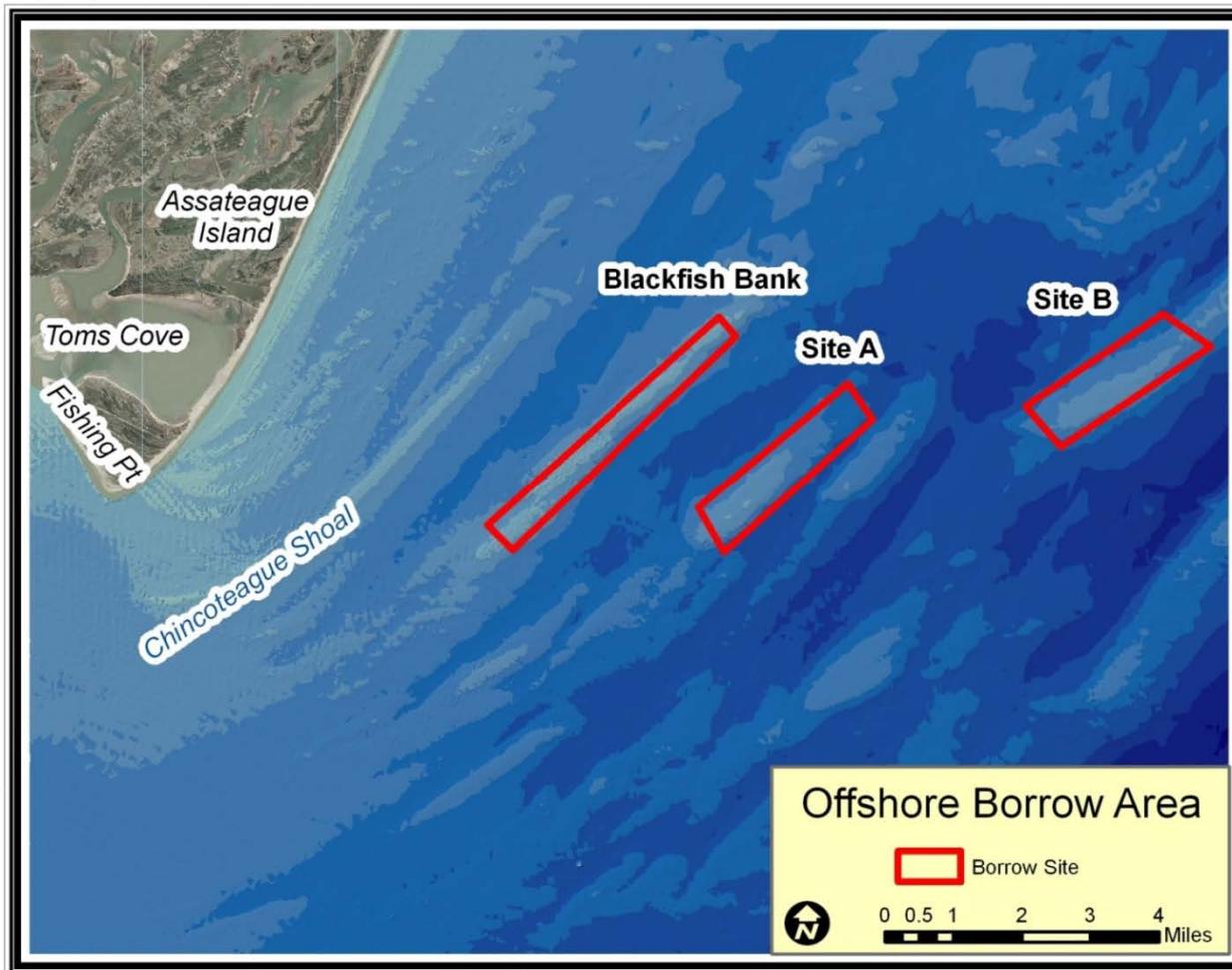




New Technical Information Cont'd



- Modeling has determined that mining sand from Blackfish Shoal could have detrimental affects on Assateague Island.
- Public concern regarding borrowing of this site was high.





Possible On-Shore Borrow Site



- Has the potential to reduce renourishment costs.
- Too early to determine if it is feasible.





EIS Update



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Scoping Concerns



1. Effects of Groin on Sand Transport
 - **Considering uncertainties of sand retention structure in EIS; no longer preferred alternative**

2. Relocation of Infrastructure
 - **Providing thorough assessment of impacts to both general public and WFF's operations in EIS**

3. Biological Impacts at Borrow Sites
 - **Removed Blackfish Bank shoal as an alternative borrow location**
 - **Providing thorough assessment of impacts and expected recovery; consulting with expert agencies**

4. Ability to Fund/Maintain Project
 - **Acknowledgement and consideration of effects of inability to guarantee funding in EIS; preferred alternative contains least risky components if funding in out-years cannot be secured**



Studies & Analyses Completed



Physical Environment

- Sediment transport analysis
- **No measurable impacts to Assateague shoreline from dredging Unnamed Shoals**

Biological Resources

- Camera/Video survey of both potential shoals
- **Both Unnamed Shoals are similar**
- Survey of north Wallops Island
- Consulting with National Marine Fisheries Service and U.S. Fish & Wildlife Service

Cultural Resources

- Surveyed 2 square mile areas on both potential shoals and nearshore sand retention structure locations
- **No potential historic resources encountered**
- Consulting with Virginia Department of Historic Resources



EIS Schedule



- Mid-February 2010: Draft EIS Release
- Mid-February – Mid April 2010: Public Review Period
- Mid-March 2010: Public Update/Comment Meeting
- July 2010: Final EIS Release
- August 2010: Record of Decision Issued
- August 2010+: Mitigation and Monitoring



Additional EIS Information



- Website to be continually updated with status
- All EIS Documents will be available :
 - http://sites.wff.nasa.gov/code250/shoreline_eis.html
 - Public Libraries
 - Chincoteague
 - Accomac
 - WFF
 - Hard Copies or CDs by Request
 - Project Info Distribution List



Open Discussion



Thank you for your interest!

Questions?



Historical Data Analysis



- Dataset
 - Hurricanes: 41 between 1854 and 2003
(149 year dataset)
 - Nor'easters: 39 between 1954 and 2003
(49 year dataset)
- Basis for Development of Alternatives

Source: Engineering Research and Development Center,
Vicksburg, MS analysis of NOAA data set



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Proposed Beach Fill Profiles

