

Wilmington Harbor, North Carolina Navigation Improvement Project Integrated Section 203 Study & Environmental Report

APPENDIX Q PUBLIC AND AGENCY INVOLVEMENT CORRESPONDENCE

February 2020

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1 INTRODUCTION

This report summarizes the public and agency involvement activities conducted by the North Carolina State Ports Authority (NCSPA) and the United States Army Corps of Engineers (USACE) for the Wilmington Harbor Navigation Improvement and Section 203 Feasibility and Environmental Study. During the 203 Feasibility Study development phase leading up to September 2019, early public involvement activities were conducted by the NCSPA in lieu of what would have normally been conducted by the USACE. Early in the process the USACE did not engage in public involvement because of their interpretation of restrictions imposed by the Section 203 provisions of Water Resources Development Act 2016. The USACE initiated participation in the Section 203 Study public involvement process on 13 September 2019 through the publication of a Notice of Intent to prepare an Environmental Impact Statement (EIS) pursuant to the National Environmental Policy Act (NEPA). Although currently a nonfederal study, the NCSPA has developed this Feasibility Study and Environmental Report in accordance with USACE planning and environmental compliance guidelines to facilitate the USACE's ongoing development of a Draft EIS (DEIS) for the 203 Study. The purpose of public involvement and outreach was to notify and inform the stakeholders and the public about the scope of the analysis and process and begin discussions on relevant environmental issues.

2 SUMMARY OF SECTION 203 ACTIVITIES

2.1 Public Notification of Study

A notification of initiation of the study was published on the NCSPA's website on 20 June 2018 and in the Wilmington Star News newspaper on 1 July 2018. A copy of this notice is provided below. This notice described the scope of the study and the study process.

2.2 Public Notification of Stakeholder Information Meeting

Stakeholders were informed of the scheduled Public Information meeting, held on 8 August 2018, through notice in the Wilmington Star News newspaper on 1 July 2018 and on the NCSPA's website. Notices are provided in Appendix A. Interviews were performed by port staff with the Wilmington Star News, Coastal Carolina Review and the State Port Pilot.

2.3 Public Information Meeting

The public information meeting was held on 8 August 2018 at the Coastline Convention Center from 5:00 to 7:00 pm as an informal workshop, with boards serving to illustrate the study process, alternatives and environmental issues to be assessed. A copy of the boards presented is provided in Appendix A

2.4 Agency Engagement Meeting

Through coordination with the North Carolina Department of Environmental Quality (NCDEQ) Division of Coastal Management (NCDCM), an interagency coordination meeting was held on 9 August 2018 at the Wilmington NCDCM office at 10:00 am to inform the state and federal agencies of the key technical aspects of the effects analysis, and the range of alternatives to be considered. The NCDCM coordinated the date and time of the meeting with all involved to ensure good attendance. Included below is the outline of the elements that were proposed to be included in the Section 203 Feasibility Study during the agency engagement meeting.

3 SUMMARY OF PUBLIC AND AGENCY COMMENTS RECEIVED

3.1 Public Comments Received

A total of 30 people attended the public information meeting held on 8 August 2019 (Table 1) and other than the project team and port staff, attendees included two agency personnel, five members of local non-profit organizations, six local government officials, and eight members of the public.

Due to the informal nature of the workshop, no one provided written comments at the meeting. General comments received verbally at the meeting related to understanding the study process, alternatives being considered, whether the port planned on developing the Southport property and the project schedule. Emails of two comments received are summarized in Table 2 below and provided in full in Appendix A.

Table 1
Wilmington Harbor Study Public Information Meeting List of Attendees

Name	Address	Affiliation	Email
Kit Adcock	9 Dowitcher Tr. Box 3044 Bald Head Island, NC	Village of Bald Head Island	kadcock@villagebhi.org
Jenn Allen	605 N. Gate Morehead City, NC	Coastal Review Online	jennifera@nccoast.org
Todd Walton	PO Box 9002 Wilmington, NC 28402	NCSPA	WH203study@ncports.com
Anne Terry	402 Mainship Ct. Carolina Beach, NC 28428	Cape Fear River Watch (CFRW)	annebterry113@gmail.com
Doug Huggett		NCDCM	doug.huggett@ncdenr.gov
Heather Coats		NCDCM	heather.coats@ncdenr.gov
Greg Finch		Land Management Group	gfinch@lmgroup.net
Michael Rice	2012 Bonner Bussells Dr Southport, NC 28461	Save the Cape	mike@savethecape.org
Frank Yelverton	617 Sunny St. Wilmington, NC 28401	CFRW	frank@cfrw.us
Kerri Allen	744 Antler Dr. Wilmington, NC	North Carolina Coastal Federation	kerria@nccoast.org
Julia Berger	4709 College Acres Dr. #2 Wilmington, NC	CZR Inc.	jberger@czr-inc.com
Karen Mosteller	310 N. Atlantic Ave Southport, NC 28461	City of Southport	
Chris McCall	PO Box 3009 Bald Head Island, NC 28461	Village of Bald Head Island	cmccall@villagebhi.org

Table 1 (concluded)

Name	Address	Affiliation	Email
Paul Masten		AECOM	paul.masten@aecom.com
Carrie Moffeet	PO Box 3030 Bald Head Island, NC 28461	Bald Head Association	carrie@baldheadassociation .com
Charles Baldwin		Village of Bald Head Island	cbaldwin@brookspierce.co <u>m</u>
Andy Sayre		Village of Bald Head Island	andy@wwpbaldhead.com
Debbie Maurer		The Nature Conservancy	dmaurer@tnc.org
Phillip Todd		Atlantic Reef Maker	ptodd@atlanticreefmaker.c om
Paul Lawler		City of Wilmington	paul.lawler@wilmingtonnc.
Brayton Willis	Leland	Resident	shoesand@ec.rr.com
Robert Neal	Wilmington	Moffatt and Nichol	rneal@moffattnichol.com
Lora Sharkey	Southport	Resident	lsharkey63@gmail.com

Table 2
Comments Received from the Public Following the Public Workshop

Source / Affiliation	Specific Request
Maria Farmer / citizen	Access to other reports and information
Dr Robert Parr / citizen	Requesting access to other information and to be added to future mailing list

3.2 Agency Meeting Summary

The agencies in attendance included state agency staff from the NCDCM, North Carolina Division of Marine Fisheries, and North Carolina Water Resources Commission (NCWRC) and federal staff from the National Marine Fisheries Service (NMFS), United States Fish and Wildlife Service (USFWS), United States Environmental Protection Agency (USEPA), and the United States Coast Guard. The Bureau of Ocean Energy Management could not attend, but was provided supporting agenda and a copy of the presentation. The USACE did not attend the meeting, other than a representative from the Regulatory Division, since they have not been authorized by the Assistant Secretary of the Army's office to participate. A list of attendees is provided in Table 3 below. A presentation was made first and followed by discussion of topical items included in the agenda. Comments provided verbally are summarized below, in terms of recommendations from those attending (Table 4).

Table 3
Wilmington Harbor Study Interagency Meeting List of Attendees

Ŭ ,	Phone	Email
NCDEQ-Department of Environmental Assistance and Customer Service	910-796-7265	Cameron.Weaver@ncdenr.gov
USEPA	404-562-9531	Holliman.Daniel@epa.gov
NCDCM	252-808-2808	Doug.Huggett@ncdenr.gov
NCSPA	910-251-5678	Todd.Walton@ncports.com
NCDCM	910-796-7302	Heather.Coats@ncdenr.gov
NCDCM	910-796-7266	Debra.Wilson@ncdenr.gov
NCDCM	910-796-7270	Brooks.Surgan@ncdenr.gov
North Carolina Division of Water Resources-401	910-796-7379	Chad.Coburn@ncdenr.gov
NCDCM-Fisheries	252-808-2808	Curt.Weychert@ncdenr.gov
National Oceanic and Atmospheric Administration- NMFS	727 824-5312	andrew.herndon@noaa.gov
USFWS	919-856-4520 x 26	John_Ellis@fws.gov
NCWRC	252-948-3842	Maria.Dunn@ncdenr.gov
Dial Cordy and Associates Inc.	910-251-9790	SDial@DialCordy.com
Dial Cordy and Associates Inc.	910-251-9790	KWalls@DialCordy.com
United States Coast Guard	910-772-2221	Matthew.I.Tyson@uscg.mil
United States Coast Guard	910-772-2227	Joshua.P.ORourke@uscg.mil
United States Coast Guard	910-772-2227	Thomas.P.Dunn@uscg.mil
Moffatt & Nichol Engineers	919-781-4626	JShelden@MoffattNichol.com
USACE	910-251-4049	Sarah.E.Hair@usace.army.mil
Dial Cordy and Associates Inc.	910-228-0212	RIngle@DialCordy.com
Dial Cordy and Associates Inc.	704-914-6174	JHargrove@DialCordy.com
NMFS	727-824-5301	Fritz.Rohde@noaa.gov
	NCDEQ-Department of Environmental Assistance and Customer Service USEPA NCDCM NCSPA NCDCM NCDCM NCDCM NCDCM NCDCM NOTH Carolina Division of Water Resources-401 NCDCM-Fisheries National Oceanic and Atmospheric Administration-NMFS USFWS NCWRC Dial Cordy and Associates Inc. United States Coast Guard United States Coast Guard Moffatt & Nichol Engineers USACE Dial Cordy and Associates Inc. Dial Cordy and Associates Inc.	NCDEQ-Department of Environmental Assistance and Customer Service 910-796-7265 USEPA 404-562-9531 NCDCM 252-808-2808 NCSPA 910-251-5678 NCDCM 910-796-7302 NCDCM 910-796-7266 NCDCM 910-796-7270 North Carolina Division of Water Resources-401 910-796-7379 NCDCM-Fisheries 252-808-2808 National Oceanic and Atmospheric Administration-NMFS 727 824-5312 USFWS 919-856-4520 x 26 NCWRC 252-948-3842 Dial Cordy and Associates Inc. 910-251-9790 United States Coast Guard 910-772-2221 United States Coast Guard 910-772-2227 United States Coast Guard 910-772-2227 Moffatt & Nichol Engineers 919-781-4626 USACE 910-251-4049 Dial Cordy and Associates Inc. 910-228-0212 Dial Cordy and Associates Inc. 910-228-0212 Dial Cordy and Associates Inc. 704-914-6174

Table 4
Summary of Comments from State and Federal Agencies

Resource Area /Topic	Issue or Concern
Navigation/Coast Guard ATON's	Moved and or replaced and paid by Port
	Avoid MOTSU buoys and channels
	Advance notice needed
Alternatives/Widening	Justification for widening and how much
_	Assess effects on Primary Nursery Area and
	minimize effects
Alternative/Blasting	Concern for how much blasting needed and
	effects on fish.
Protected resources/Ship strikes	Effects on sturgeon within critical habitat
Fish and fisheries/Models	Concern for site specific application of Habitat
	Suitability Index models
Sand management/ Beneficial use	Revisit 2001 Sand Management Plan, especially
	for beneficial use and for Bald Head /Oak Island
Shoreline erosion/Vessel wakes	Need to evaluate erosional threats to area
	influenced
Groundwater/Dredging effects	Need to evaluate effects of dredging on
	groundwater aquifer
Fish and fisheries/Effects of dredging	Need thorough evaluation of effects
Secondary and cumulative effects/All	Need complete analysis on all resources
resources	
Transportation/Change in vessel frequency and	Assess effects on changes in transportation
truck and train frequency	frequency
Construction/Timing and environmental	Address ability to meet environmental windows
windows	for turtles and anadromous species
Mitigation requirements/Timing of mitigation	Upfront mitigation concurrent with construction
Congressional approval/Timing and probability	Understand process and probability of
of support	congressional approval
Study process/Cooperating federal agency	Can port consider a cooperating agency
	agreement

4 TECHNICAL WORKING GROUPS

The purpose of the technical working groups (TWGs) is to assemble the applicable experts from the agencies who can offer technical guidance towards assessing the effects of the proposed project on tidal freshwater wetlands, fish and fisheries habitat, and to provide concepts for the beneficial use of dredged material. The overall framework of the TWGs was to 1) review available data sources for baseline conditions, 2) concur on assessment methods to be used, 3) provide technical review and input on the existing conditions and effects analysis for wetland and fish/fisheries habitat, and 4) discuss applicable options for mitigating any adverse effects. For the Beneficial Use TWG, the overall goal was to identify potential uses for future dredged material including beach placement, bird islands, marine resource restoration/enhancement, etc. that can be further assessed by our team for suitability and cost. The working group meetings were informal and held locally in the Wilmington NCDCM office. Each meeting lasted about two hours. Each committee was chaired by a member of the port consultant team and other team members were brought in as needed for review of modeling results, alternatives, engineering analysis, etc. The overall goal was preparation of a technical report which describes the effected resources, methods used, effects analysis comments and consensus, ranked mitigation options for each resource (wetland and fish/fisheries habitat).

4.1 Schedule and Topics for Meetings

The TWG meetings began in December 2018 with the most recent occurring in December 2019. A total of six TWG meetings have occurred to date. Additional coordination and stakeholder engagement will be conducted through the USACE, as IRT meetings to ensure compliance with the NEPA process. Discussions for each TWG are outlined below:

4.1.1 Wetland Working Group

20 December 2018 - Discussed proposed project alternatives [existing, Future without Project (FWOP) and Tentatively Selected Plan (TSP) alternative]; new wetland mapping of the Cape Fear River; proposed assessment methodology for direct, indirect and cumulative effects analysis; functional assessment for determining mitigation requirements, and summary of existing conditions and mapping efforts completed. Attendance of this TWG is listed in Table 5.

10 April 2019 - Reviewed assessment approach with updated mapping of the lower Cape Fear River tidal wetland communities; provided a summary of GIS modeling results with a selection of modeled scenarios for salinity isopleth shifts and the associated wetland effects, with specific attention towards tidal creeks; examined the wetland shifts and effects of projected sea level rise over the next 50 years during typical and dry years. Attendance of this TWG is listed in Table 6.

14 August 2019 - Reviewed more detailed modeling efforts with predicted salinity isopleths shifts to describe the wetland effects; described the DELFT 3D salinity model that was used to provide baseline data for the salinity isopleths; defined river channel salinity isopleths (salinity zone boundaries) as follows: 0.5 parts per thousand (ppt) Oligohaline-Freshwater, 5.0 ppt Mesohaline-oligohaline, 18.0 ppt polyhaline-mesohaline; describe how the model was calibrated and displayed GIS maps that showed agreement with the modeled salinity isopleths and the

Table 5 Wilmington Harbor Improvement Section 203 Study Wetland Technical Working Group 20 December 2018

	Moderator: Rahlff Ingle
Name	Affiliation
Mike Wicker	USFWS, Raleigh
Anne Deaton	NCDEQ- DMR Wilmington
Courtney Spears	NCDEQ- DCM Wilmington
Maria Dunn	NCWRC -Raleigh
Twyla Cheatwood	NMFS, NC
Curt Weichert	NCDEQ-DMF
Casey Knight	NCDEQ-DMF
Dan Holliman	USEPA
Invited Agency Guests	
Jenny Owens	USACE
Attending Consultants	
Keith Walls	Dial Cordy and Associates Inc.
Jeff Shelden	Moffatt & Nichol
Steve Dial	Dial Cordy and Associates Inc.
Rahlff Ingle	Dial Cordy and Associates Inc.
Attending Port Staff	
Todd Walton	NCSPA

Table 6
Wilmington Harbor Improvement Section 203 Study
Wetland and Fish and Fish Habitat Technical Working Group 10 April 2019

Name	Affiliation
Casey Knight	DMF
Maria Dunn	NCWRC -Raleigh
Curt Weychert	DMF
Mike Wicker	USFWS - Raleigh
Courtney Spears	DCM
Attending Consultants	
Steve Dial	Dial Cordy and Associates Inc.
Jeff Shelden	Moffatt & Nichol
Keith Walls	Dial Cordy and Associates Inc.
Rahlff Ingle	Dial Cordy and Associates Inc.
Attending Port Staff	
Todd Walton	NCSPA

existing conditions of the oligohaline-freshwater boundary where transition of marsh to freshwater swamp forest occurs; described potential wetland effects based on salinity isopleth shifts through extrapolation of river salinity across tidal flood plain during normal and dry years for the FWOP and FWP conditions. Began discussion of determining compensatory mitigation options and available assessments [Uniform Mitigation Assessment Method (UMAM) for and North Carolina Wetland Assessment Method (NCWAM)]. Finished meeting with a discussion of next steps. Attendance of this TWG is listed in Table 7.

8 October 2019 - Recapped potential effects to composition and function of wetlands based on model outputs; discussed assessing mitigation requirements based on risk and uncertainty from salinity driven wetland effects; discussion of conversion of wetland type (functional tidal swamp forest → functional tidal freshwater marsh and functional tidal freshwater marsh → functional tidal brackish marsh), but no overall loss of wetlands; discussed potential loss and gains of community-specific wetland functions and possible mitigation options for freshwater wetlands and Alligator Creek tidal creek/tidal marsh restoration; discussed next steps including USACE takeover of TWG and for USACE-led IRT process. Attendance of this TWG is listed in Table 8.

Table 7 Wilmington Harbor Improvement Section 203 Study Wetland Technical Working Group 14 August 2019

Name	Affiliation
Casey Knight	DMF
Cameron Weaver	NCDEQ-DEACS
Curt Weychert	DMF
Mike Wicker	USFWS - Raleigh
Courtney Spears	DCM
Fritz Rohde	NMFS
Dan Holliman	USEPA
Emily Hughes	USACE
Attending Consultants	
Steve Dial	Dial Cordy and Associates Inc.
Jeff Shelden	Moffatt & Nichol
Jerry Diamantides	DMA
Keith Walls	Dial Cordy and Associates Inc.
Rahlff Ingle	Dial Cordy and Associates Inc.
James Hargrove	Dial Cordy and Associates Inc.
Attending Port Staff	
Todd Walton	NCSPA

Table 8
Wilmington Harbor Improvement Section 203 Study
Wetland and Fish and Fish Technical Working Group 8 October 2019

Name	Affiliation
Casey Knight	DMF
Andy Herron	NMFS
Curt Weychert	DMF
Mike Wicker	USFWS - Raleigh
Cameron Weaver	NCDEQ-DEACS
Fritz Rohde	NMFS
Maria Dunn	NCWRC
Emily Hughes	USACE
Attending Consultants	
Steve Dial	Dial Cordy and Associates Inc.
Jeff Shelden	Moffatt & Nichol
Keith Walls	Dial Cordy and Associates Inc.
Rahlff Ingle	Dial Cordy and Associates Inc.
James Hargrove	Dial Cordy and Associates Inc.
Attending Port Staff	
Todd Walton	NCSPA

4.1.2 Fish and Fish Habitat Working Group

20 December 2018 - Reviewed overall goals, objectives and schedule for TWG meetings; discussed proposed project conditions to be evaluated (existing, FWOP and TSP alternative); discussed data collection and hydrodynamic modeling results; the resources to be assessed, method(s) to be used to quantify effects on selected species and habitats, and available data for running Habitat Suitability Index (HSI) models were discussed; selected species to be used in HSI modeling were determined. Attendance of this TWG is listed in Table 9.

10 April 2019 - Reviewed draft HSI modeling; discussed effects analysis on targeted species and habitats, approach to qualitative evaluation of effects on sturgeon species and critical habitat Essential Fish Habitat/Habitat Areas of Particular Concern, and Primary Nursery Area resources; discussed blasting effects and monitoring, mitigation options for project effects. Attendance of this TWG is listed in Table 6.

14 August 2019 - Reviewed calibrated HSI model and discussed changes to results on indirect effects to target species; reviewed effects analysis on Primary Nursery Area, Essential Fish Habitat and Habitat Areas of Particular Concern analysis; discussed mitigation options available and rank mitigation options. Attendance of this TWG is listed in Table 10.

08 October 2019 - Recapped previous meeting discussion involving HSI calibration and proposed the use of the Habitat Evaluation Procedures (HEP) Analysis for indirect effects to fisheries; discussed monitoring program and funding concerns. Attendance of this TWG is listed in Table 8.

Table 9
Wilmington Harbor Improvement Section 203 Study
Fish and Fish Habitat Technical Working Group 20 December 2018

	Moderator: Keith Walls
Name	Affiliation
Mike Wicker	
	USFWS, Raleigh
Fritz Rohde	NMFS, NC
Anne Deaton	NCDEQ- DMR Wilmington
Maria Dunn	NCWRC -Raleigh
Curt Weichert	NCDEQ-DMF
Casey Knight	NCDEQ-DMF
Kyle Rachels	NCWRC -Raleigh
Andy Herndon	NMFS St Pete
Attending Consultants	
Keith Walls	Dial Cordy and Associates Inc.
Jeff Shelden	Moffatt & Nichol
Steve Dial	Dial Cordy and Associates Inc.
James Hargrove	Dial Cordy and Associates Inc.
Attending Port Staff	
Todd Walton	NCSPA

Table 10
Wilmington Harbor Improvement Section 203 Study
Fish and Fish Habitat Technical Working Group 14 August 2019

Name	Affiliation
Casey Knight	DMF
Andrew Herndon	NOAA - Fisheries
Curt Weychert	DMF
Mike Wicker	USFWS - Raleigh
Courtney Spears	DCM
Fritz Rohde	NMFS
Dan Holliman	USEPA
Twyla Cheatwood	NMFS
Emily Hughes	USACE
Attending Consultants	
Steve Dial	Dial Cordy and Associates Inc.
Jeff Shelden	Moffatt & Nichol
Keith Walls	Dial Cordy and Associates Inc.
Rahlff Ingle	Dial Cordy and Associates Inc.
James Hargrove	Dial Cordy and Associates Inc.
Attending Port Staff	
Todd Walton	NCSPA

10 December 2019 - Reviewed preliminary results of the HEP analysis; discussed the use of the UMAM direct effects to fisheries and habitat related to the TSP; discussed the conceptual plan for the Alligator Creek Restoration project to be evaluated as mitigation. Attendance of this TWG is listed in Table 11.

Table 11
Wilmington Harbor Improvement Section 203 Study
Fish and Fisheries Technical Working Group 10 December 2019

Name	Affiliation
Casey Knight	DMF
Robb Mairs	DWR
Curt Weychert	DMF
Mike Wicker	USFWS - Raleigh
Jenny Owens	USACE
Chris Braymar	USACE
Maria Dunn	NCWRC
Emily Hughes	USACE
Twyla Cheatwood	NOAA
Attending Consultants	
Rahlff Ingle	Dial Cordy and Associates Inc.
James Hargrove	Dial Cordy and Associates Inc.
Attending Port Staff	
Todd Walton	NCSPA

4.1.3 Beneficial Use of Dredged Material Working Group

February 2018 - Review of goals, objectives and schedule for TWG; proposed project alternatives (existing, FWOP and TSP alternative), quantity and quality of sediment available, past and present regional uses of sediment, identify new options for sediment use that provides sustainable ecological benefits, review available reports and sources of information, review lower Cape Fear River regional actions by agencies and non-profit organizations for resource enhancement and restoration. Attendance of this TWG is listed in Table 12.

Table 12 Wilmington Harbor Improvement Section 203 Study Beneficial Use Technical Working Group 19 February 2019

Beneficial Use Technical Working Group 19 February 2019		
	Moderator: Steve Dial	
Name	Affiliation	
Mike Wicker	USFWS, Raleigh	
Anne Deaton	NCDEQ- DMR Wilmington	
Heather Coats	NCDEQ- DCM Wilmington	
Maria Dunn	NCWRC -Raleigh	
Twyla Cheatwood	NMFS, NC	
Curt Weichert	NCDEQ-DMF	
Andy Herndon	NMFS St Pete	
Dan Holliman	USEPA	
Walker Golder	NC Audubon	
Attending Consultants		
Keith Walls	Dial Cordy and Associates Inc.	
	•	
Steve Dial	Dial Cordy and Associates Inc.	
Attending Port Staff		
Todd Walton	NCSPA	

5 WILMINGTON DISTRICT USACE PUBLIC AND AGENCY INVOLVEMENT

The USACE initiated participation in the 203 Study process on 13 September 2019 through the publication in the Federal Register of a NOI to prepare an EIS pursuant to the NEPA (Federal Register/Vol. 84, No. 177/Thursday, September 12, 2019/Notices). Concurrently with the NOI, the USACE published a scoping meeting letter initiating the scoping process. Currently the USACE has conducted one scoping meeting and two stakeholder group meetings. The scoping meeting occurred on 26 September 2019. The first stakeholder meeting occurred on 20 November 2019 and the second stakeholder meeting was held on 18 December 2019. The USACE has summarized their meetings with meeting minutes and sign-in sheets, along with comments received for this project. Additional stakeholder meetings will occur in February and potentially March, 2020.

All information regarding the public and agency involvement from the USACE can be found at the link below.

https://www.saw.usace.army.mil/Missions/Navigation/Dredging/Wilmington-Harbor/WHNIP_203_Study/

APPENDIX A

PUBLIC INVOLVEMENT CORRESPONDENCE AND NOTICES



June 12, 2018

Public Notice

Wilmington Harbor Improvement Project Section 203 Study

The North Carolina State Ports Authority (NCSPA) has initiated the Wilmington Harbor Improvement Project (WHIP) feasibility study of potential improvements to the federal channels that access the Port of Wilmington, NC, under the authority of Section 203 of the Water Resources Development Act, 1986 (WRDA), as amended by Section 1014 of WRRDA 2014. Section 203 states (in part) that "A non-federal interest may on its own undertake a feasibility study of a proposed harbor or inland harbor project and submit it to the Secretary of the Army." The feasibility study is being funded by NCSPA operating revenues.

The purpose of the feasibility study is to evaluate modifications to the federal channel at Wilmington Harbor to accommodate larger, more fully laden deep draft vessels and provide net positive local, state, and federal economic benefit, while protecting our nation's environment. The objectives of the NCSPA is to prepare a Section 203 Report that fully complies with all federal laws and regulations applicable to navigation project General Investigation feasibility studies, and to enable the Assistant Secretary of the Army for Civil Works [ASA (CW)] to make appropriate recommendations to Congress regarding authorization of the federal navigation improvements project for the Port of Wilmington.

The feasibility study will consider effects on marine resources, protected species, water quality, fish and wildlife resources, cultural resources, essential fish habitat, socio-economics resources, coastal processes, aesthetics and recreation, and other effects to be identified through public involvement and agency coordination. To this end, Interagency Technical Working Groups will be established to provide input into the various environmental resource effects analyses being performed for the feasibility study.

The NCSPA believes that an Environmental Impact Statement (EIS) will be required under the National Environmental Policy Act (NEPA). The United States Army Corps of Engineers (USACE) will be the lead federal agency should the ASA (CW) approve the feasibility study. USACE implementation guidance for Section 203 prohibits the USACE from participating in development of the NEPA document until the feasibility study has been adopted by the federal government. The USACE will perform its National Environmental Policy Act responsibilities after the report is approved by the ASA (CW). A letter from the USACE Wilmington District



Deputy District Engineer explaining the USACE role in the Section 203 feasibility study is attached.

Informational meetings will be held to encourage federal, state, and local agencies and public collaboration to define the resources (or topical elements) and alternatives to be addressed in the feasibility study. All parties are invited to participate in the informational process by identifying any additional concerns on issues, studies needed, alternatives, procedures, and other matters related to the feasibility level investigations.

The NCSPA looks forward to working with all agencies and the public on the Section 203 study of needed improvements to Wilmington Harbor. This project is vital to the economy of North Carolina and to our port customers.

To request additional information please contact WH203@ncports.com or write to us at:

North Carolina State Ports Authority

Attn: Wilmington Harbor 203

PO Box 9002

Wilmington NC 28402

Paul J. Cozza

Executive Director



June 12, 2018

Public Notice

Wilmington Harbor Improvement Project Section 203 Study

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The purpose of the feasibility study is to evaluate modifications to the federal channel at Wilmington Harbor to accommodate larger, more fully laden deep draft vessels and provide net positive local, state, and federal economic benefit, while protecting our nation's environment. The objectives of the NCSPA is to prepare a Section 203 Report that fully complies with all federal laws and regulations applicable to navigation project General Investigation feasibility studies, and to enable the Assistant Secretary of the Army for Civil Works [ASA (CW)] to make appropriate recommendations to Congress regarding authorization of the federal navigation improvements project for the Port of Wilmington.

The feasibility study will consider effects on marine resources, protected species, water quality, fish and wildlife resources, cultural resources, essential fish habitat, socio-economics resources, coastal processes, aesthetics and recreation, and other effects to be identified through public involvement and agency coordination. To this end, Interagency Technical Working Groups will be established to provide input into the various environmental resource effects analyses being performed for the feasibility study.

The NCSPA believes that an Environmental Impact Statement (EIS) will be required under the National Environmental Policy Act (NEPA). The United States Army Corps of Engineers (USACE) will be the lead federal agency should the ASA (CW) approve the feasibility study. USACE implementation guidance for Section 203 prohibits the USACE from participating in development of the NEPA document until the feasibility study has been adopted by the federal government. The USACE will perform its National Environmental Policy Act responsibilities after the report is approved by the ASA (CW).

Informational meetings will be held to encourage federal, state, and local agencies and public collaboration to define the resources (or topical elements) and alternatives to be addressed in the



feasibility study. All parties are invited to participate in the informational process by identifying any additional concerns on issues, studies needed, alternatives, procedures, and other matters related to the feasibility level investigations.

The NCSPA looks forward to working with all agencies and the public on the Section 203 study of needed improvements to Wilmington Harbor. This project is vital to the economy of North Carolina and to our port customers.

A Public Information Meeting will be held at 5:00pm -7:00pm on August 8, 2018 at the Coastline Conference and Event Center located at 503 Nutt Street, Wilmington, NC. 28401

To request additional information please contact <u>WH203@ncports.com</u> or write to us at:

North Carolina State Ports Authority Attn: Wilmington Harbor 203 PO Box 9002 Wilmington NC 28402



DEPARTMENT OF THE ARMY WILMINGTON DISTRICT, CORPS OF ENGINEERS 69 DARLINGTON AVENUE WILMINGTON, NORTH CAROLINA 28403-1343

June 5, 2018

Mr. Paul Cozza 2202 Burnett Boulevard PO Box 9002 Wilmington, NC 28402

Dear Mr. Cozza,

We understand that the North Carolina State Ports Authority (NCSPA) is pursuing its own study of the potential deepening and/or widening of Wilmington Harbor pursuant to Section 203 of the Water Resources Development Act (WRDA) of 1986. That authority, commonly known as the Section 203 authority, allows non-Federal interests to undertake feasibility studies of proposed water resources development projects for submission to the Assistant Secretary of the Army for Civil Works (ASA(CW)). The Section 203 authority, as amended, allows the U.S. Army Corps of Engineers (USACE), upon request, to provide limited technical assistance to non-Federal interests. Pursuant to the Memorandum of Agreement (MOA) between the Department of the Army and the North Carolina State Ports Authority (NCSPA) for Technical Assistance Related to Navigation Improvements at Wilmington Harbor, North Carolina, dated October 23, 2017, the Wilmington District has begun to provide limited technical assistance as allowed under Section 203. At the first coordination meeting on May 10, 2018, your staff requested a letter from the Corps summarizing the Section 203 authority and clarifying the role of the Corps under this authority for use by the NCSPA as you coordinate with stakeholders and the interested public in the development of your feasibility study. This letter serves to provide that information.

Under Section 203 of the Water Resources Development Act (WRDA) of 1986, a non-Federal interest may develop its own feasibility report for submittal directly to the Assistant Secretary of the Army for Civil Works (ASA(CW)) for approval. Although WRDA 2016 amended Section 203 to allow (but not require) the Corps to provide technical assistance to the non-Federal interest in the development of its study, this technical assistance is limited to discrete work efforts involving analysis or services for which Corps has special expertise. Subsequent to your request that the Corps provide the NCSPA with technical assistance in the development of your feasibility study, we executed the above-referenced MOA and are refining the specific scope of these technical services.

Implementation guidance received from Corps Headquarters has clarified that this technical assistance cannot consist of services that are readily available to you outside

the Government, as the feasibility report is considered a non-Federal work product. Accordingly, we cannot provide document reviews, participate on Technical Advisory Working Groups, or assist with National Environmental Policy Act (NEPA) documentation or consultation. Services we can provide include the provision of readily available technical information, clarification of existing technical guidance, and the running of models (like ship simulation and Harbor Sym). If your report is recommended for approval by ASA(CW), we would conduct NEPA and other applicable Federal compliance activities at that time.

We understand that you would like to conduct coordination with applicable resource agencies and stakeholders as you formulate your proposed actions and consider alternate measures to meet your identified purpose and need. Please be clear with those agencies that the study you are undertaking is not a USACE study, and this agency is neither providing guidance nor direction to the NCSPA, nor are we accepting comments related to your proposed measures. If your study is approved by ASA (CW), we will conduct appropriate coordination and consultation at that time.

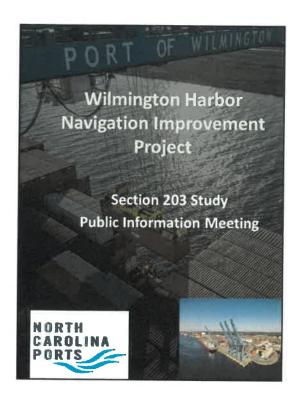
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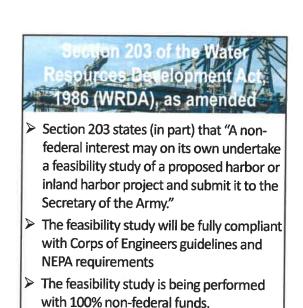
Sincerely,

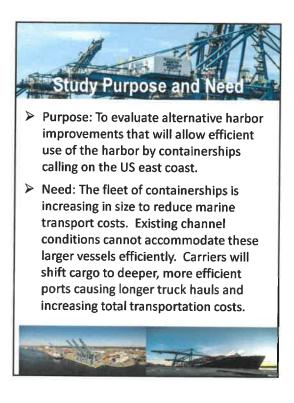
Christine M. Brayman

Deputy District Engineer for

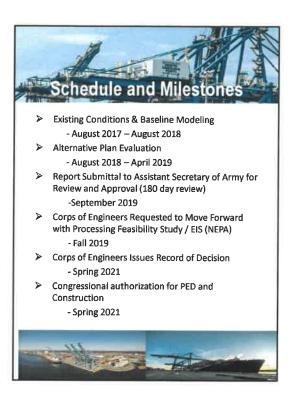
Programs and Project Management

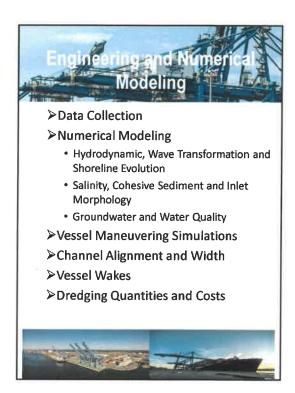






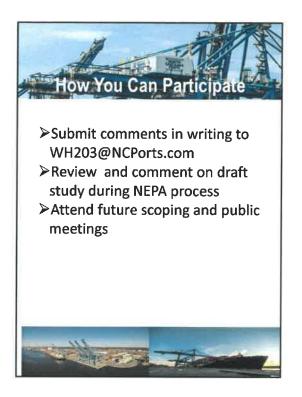




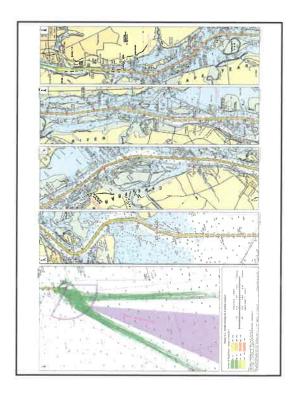
















Steve Dial

From:

walton, todd <todd.walton@ncports.com>

Sent:

Monday, August 27, 2018 9:40 AM

To:

Steve Dial

Subject:

emails in relation to 203 public info meeting

[External] Wilmington Harbor Study

E

farmgrl@bellsouth.net

Reply all

Wed 8/15, 7:20 AM

Study, WH

Inbox

To help protect your privacy, some content in this message has been blocked. To re-enable the blocked features, click here. To always show content from this sender, click here.

You replied on 8/15/2018 7:57 AM.

CAUTION: External email. Do not click links or open attachments unless verified. Send all suspicious email as an attachment to Report Spam.

I read the August 14 Coastal Review article "Wilmington Port Looks to Lure Bigger Ships"

(https://www.coastalreview.org/2018/08/wilmington-port-looks-to-lure-bigger-ships/ and would like to better understand what makes up Wilmington Harbor. A quick google search showed the term used in several sites, but lacked a clear definition.

I had opportunity to participate in a tour of the Wilmington facility in the past year or so and have found the port's role, management and future plans in our area to be interesting. If you could provide links to COE that would be appreciated too. Any information would be for personal interest only as I am not affiliated with any political or environmental group.

Thank you and Best Regards, Mary Farmer

[External] Proposed Wilmington Harbor/Cape Fear River Dredging Project

RP

robert a parr <rparr@ec.rr.com>

Study, WH Inbox

You replied on 8/22/2018 11:15 AM.

CAUTION: External email. Do not click links or open attachments unless verified. Send all suspicious email as an attachment to Report Spam.<mailto:report.spam@nc.gov>

Please add my name to interested parties in this matter.

Please send my the links to any already completed reports, future reports and any meetings that are scheduled on this topic.

Thank you,

Dr. Robert Parr

Todd Walton

NORTH CAROLINA PORTS
Senior Environmental Analyst

251-5678 Direct 800-336-2405 Toll Free

ncports.com

Email to and from this address is public record and may be disclosed to authorized third parties.

APPENDIX B

INTERAGENCY MEETING CORRESPONDENCE AND NOTICES

Steve Dial

From: Steve Dial

Sent: Monday, July 2, 2018 3:31 PM

To: Weaver, Cameron; Coats, Heather; doug.huggett@ncdenr.gov Cc:

Rahlff Ingle; walton, todd; Jerry Diamantides; Shelden, Jeff

(JShelden@moffattnichol.com); Blake, Mark

Subject: Wilmington Harbor Improvement Project Section 203 Study Agency Coordination

Attachments: Scoping Meeting Request 7.2.18.pdf; WHIP Section 203 Study Public Notice 6.12.18.pdf;

Wilmington District Letter 6-2018.pdf; Wilmington Harbor Section 203 Study Outline

6.12.18.pdf

Cameron, attached please find the completed scoping form, the NCSPA Pubic Notice for the Study and a letter from the Wilmington District, as to their involvement. I would suggest passing all of these along to the agencies.

Since we are already scheduled for a Public Information meeting on the evening of August 8th, it would be convenient to also schedule this interagency meeting for either the morning of August 8th or anytime on the 7th or 9th. I know this is not always possible, but thought I would let you know as to our preference.

Please advise if you need anything else. I would also suggest sending to EPA, Pace Wilber at NMFS, and the NC State archeologist at Ft Fisher, if not on your mailing list. You can send to Pam, Elden and Jenny at the Wilmington District and also include all those copied on this email.

We appreciate your assistance in getting this scheduled. I also assume you can host the meeting in your office? If not, we can use the ports conference room, but I am unsure at present as to availability for that week.

Regards,

R. Steve Dial President

Dial Cordy and Associates Inc. 201 N Front St. Suite 307 Wilmington NC 28401 904-568-5406 Mobile 910-251-9790 Office www.dialcordv.com

North Carolina Department of Environmental Quality SCOPING MEETING REQUEST

Please complete all the information below. Call and email the appropriate coordinator with the completed form.

- Asheville Region Alison Davidson 828-296-4698; <u>alison.davidson@ncdenr.gov</u>
- Fayetteville and Raleigh Regions David Lee 919-791-4204; david.lee@ncdenr.gov
- Mooresville and Winston-Salem Regions Marcia Allocco 704-235-2107; marcia.allocco@ncdenr.gov
- Washington Region Lyn Hardison 252-948-3842; lyn.hardison@ncdenr.gov
- Wilmington Region Cameron Weaver 910-796-7265; <u>cameron.weaver@ncdenr.gov</u>

Project Name: Wilmington Harbor Navigation Improvement Project Section 203 Study County: New Hanover and Brunswick	
Applicant: Todd Walton Company: NCSPA Address: 2202 Burnett Boulevard City: Wilmington State: NC Zip: 28401	
Phone: 910-763-1621 Fax: 910-343-6237 Email: todd.walton@ncports.com Physical Location of Project: Cape Fear River/Atlantic Ocean	
Engineer/Consultant: Steve Dial Company: Dial Cordy and Associates Inc. Address: 201 North Front St. Suite 307 City: Wilmington State: NC Zip: 28401 Phone: 910-251-9790 Fax: 910-251-9409 Email: sdial@dialcordy.com	
Please provide a DETAILED <u>project narrative</u> , pdf <u>site plan</u> and a <u>vicinity map</u> with road names along with this Request form.	
The project narrative should include the following when available:	
Existing Conditions- List of existing permits, previous project name(s) or owner name(s), existing compliance or pollution incidents, conditions or development on site, size of tract, streams or wetlands on site*, stream name and classification, historical significant property, seasonal high water table elevation, riparian buffers, areas of environmental concern, setbacks	
<u>Proposed</u> - Full scope of project with development phase plan, acreage to be disturbed, wetlands to be disturbed, waste treatment & supply proposed, soils report availability, % impervious surface, stormwater treatment and number of bmps, public or private funding. *Relative To Wetlands – Federal and coastal wetlands must be delineated by a US Army Corps Regulatory Official, Coastal Manage Field Rep or a qualified environmental consultant prior to undertaking work such as filling, excavating or land clearing. The delineated by a paper by the US Army Corps of Engineers (USACE) and/or the Division of Coastal Management. Wetland delineations are for a period not to exceed five years from date of USACE approval.	emen ations
Please provide estimated investment & expected employment numbers: \$N/A,	obs
For the scoping meeting, it is best to provide a list of questions and topics of concern. It is helpful to know what you hope to from the meeting. Please have thoughts and presentations organized as much as possible to make the best use of time.	gain
Agencies Involved: Check all agencies that may be involved with project:	
☐ Shellfish Sanitation ☐ Water Resources: (☐ 401/buffer ☐ NPDES ☐ Non-discharge ☐ Public Water Supply)	
☐ Other	

Wilmington Harbor Improvement Project Section 203 Feasibility Study Topical Element Outline and Public/Agency Coordination

The following topical outline provides an overview of the contents to be included within the preliminary draft feasibility study and environmental report. While no regulatory compliance review will be provided by the Corps of Engineers until released by the ASA's office to initiate the NEPA process, full coordination with state and federal resource agencies in the development of the study is needed. To facilitate agency and public engagement the study team will conduct a Public Information meeting (August 8, 2018), Agency Coordination meetings (no dates scheduled), and frequent coordination meetings with agencies through development of Technical Working Groups for the three major technical areas of analysis (Wetlands, Fish Habitat (including EFH, projected species, managed species and other marine resources), and Water Quality (surface and groundwater). It is anticipated the study groups will review and concur with baseline conditions, analysis methods and effects analysis prepared by the study team. A Technical Memorandum will be prepared for each study group and included as appendices in the draft document. Facilitation of each group will be provided by the study team, with consensus of opinion driving the decisions made as to the effects analysis and conclusions drawn. Models proposed to be used for wetland and fish assessments must be ones that have been accepted by the Corps of Engineers for past studies,

- 1.0 Study Information
 - 1.1. Introduction
 - 1.2. Study Authority
 - 1.3. Federal Policy and Procedures
 - 1.4. Objectives
 - 1.5. Purpose and Need
 - 1.6. Study Area
 - 1.7. Existing Project
 - 1.8. Prior Reports and Studies
 - 1.9. Report Organization
- 2.0 Existing and Future without Project Conditions/NEPA Affected Environment
 - 2.1. General Setting
 - 2.2. Economic Conditions
 - 2.2.1. Relative Trade Volume and Trends
 - 2.2.2. Existing Fleet Vessel Classes
 - 2.2.3. Existing Sailing and Design Drafts
 - 2.2.4. Port Hinterland and Clients
 - 2.3. Navigation Features
 - 2.3.1. Navigation History
 - 2.3.2. Existing Navigation Configuration and Dimensions
 - 2.3.3. Port Facilities
 - 2.3.4. Maintenance Dredging/Dredged Material Disposal
 - 2.4. Environmental Conditions
 - 2.4.1. Wind and Wave Climate
 - 2.4.2. Tides
 - 2.4.3. Currents
 - 2.4.4. Relative Sea-Level Change/Salinity Intrusion
 - 2.4.5. Geology, Soils, and Sediments
 - 2.4.6. Protected Managed Lands and Impoundments

- 2.4.7. Surface Water Quality
- 2.4.8. Groundwater
- 2.4.9. Wetlands
- 2.4.10. Hardbottom Habitat
- 2.4.11. Essential Fish Habitat
- 2.4.12. Protected Species
- 2.4.13. Marine Mammals
- 2.4.14. Fisheries
- 2.4.15. Birds
- 2.4.16. Invasive Species
- 2.4.17. Air Quality
- 2.4.18. Hazardous, Toxic, and Radioactive Waste
- 2.4.19. Noise
- 2.4.20. Coastal Barrier Resources
- 2.4.21. Cultural and Historic Resources
- 2.4.22. Aesthetics and Recreation
- 2.4.23. Socioeconomics

3.0 Plan Formulation

- 3.1. Problems, Opportunities, and Constraints
 - 3.1.1. Problems
 - 3.1.2. Opportunities
 - 3.1.3. Constraints
- 3.2. Objectives
- 3.3. Assumptions
- 3.4. Development of Management Measures
 - 3.4.1. Structural Measures
 - 3.4.2. Nonstructural Measures
 - 3.4.3. Development of Planning Segments
 - 3.4.4. Screening of Measures
 - 3.4.5. Measures Carried Forward
 - 3.4.6. Focused Array of Alternatives
- 3.5. Comparison of the Final Array of Alternatives
 - 3.5.1. National Economic Development
 - 3.5.2. Regional Economic Development
 - 3.5.3. Environmental Quality
 - 3.5.4. Other Social Effects
- 3.6. Plan Selection
 - 3.6.1. Deviation from the NED Plan Reasons for the LPP
 - 3.6.2. Recommended Plan
 - 3.6.3. Optimization of the Recommended Plan

4.0 Recommended Plan (RP)

- 4.1. Description of the Recommended Plan
 - 4.1.1. General Navigation Features
 - 4.1.2. Environmental Mitigation
- 4.2. Dredging and Dredged Material Management
 - 4.2.1. Material Placement Options
 - 4.2.2. Construction Methodology
 - 4.2.3. Type of Dredging Equipment
 - 4.2.4. Dredge Material Transport Vessels

- 4.2.5. Disposal Area Modifications
- 4.2.6. Beneficial Use of Dredged Material
- 4.2.7. Operations and Maintenance Considerations
- 4.3. Mitigation Plan
- 4.4. Lands Easements Rights of Way and Relocation Considerations
- 4.5. Detailed Cost Estimates and Benefits
 - 4.5.1. Project Costs and Cost Sharing NED Plan
 - 4.5.2. Project Schedule and Interest during Preconstruction Engineering and Design (PED)/Construction
 - 4.5.3. Operation, Maintenance, Repair, Rehabilitation, and Replacement (OMRR&R)
 - 4.5.4. Financial Analysis of Non-Federal Sponsor's Capabilities
 - 4.5.5. View of Non-Federal Sponsor
 - 4.5.6. Summary of Accounts
 - 4.5.7. Risk and Uncertainty
 - 4.5.8. With-Project Sea Level Change
 - 4.5.9. Storm Surge and Coastal Erosion

5.0 Environmental Effects of the Proposed Project

- 5.1. General Setting
- 5.2. Economic Conditions
 - 5.2.1. Trade Volume
 - 5.2.2. Port Hinterland and Clients
 - 5.2.3. Fleet Characterization
- 5.3. Navigation Environment
 - 5.3.1. Navigation History
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 - 5.4.20. Coastal Barrier Resources
 - 5.4.21. Cultural and Historic Resources
 - 5.4.22. Aesthetics and Recreation

- 5.4.23. Socioeconomics
- 5.4.24. Summary of Cumulative Impacts
- 5.4.25. Irreversible and Irretrievable Commitment of Resources
- 6.0 Environmental Compliance and Commitments
 - 6.1. Table of Compliance
 - 6.2. National Environmental Policy Act of 1969 (NEPA)
 - 6.3. Clean Water Act
 - 6.3.1. Wetlands
 - 6.3.2. Federal Coastal Zone Management Act (CZMA)
 - 6.3.3. Clean Air Act (CAA)
 - 6.3.4. US Fish and Wildlife Coordination Act
 - 6.3.5. Endangered Species Act
 - 6.3.6. Magnuson-Stevens Fishery Conservation and Management Act (MSA)
 - 6.3.7. Anadromous Fish Conservation Act
 - 6.3.8. Marine Mammal Protection Act (MMPA)
 - 6.3.9. Sections 106 and 110(f) of the National Historic Preservation Act (NHPA)
 - 6.3.10. Resource Conservation and Recovery Act (RCRA)
 - 6.3.11. Comprehensive Environmental Response, Compensation and Liability Act (CERCLA or Superfund)
 - 6.3.12. Marine Protection, Research and Sanctuaries Act
 - 6.3.13. Executive Order 11988, Floodplain Management
 - 6.3.14. Executive Order 11990, Protection of Wetlands
 - 6.3.15. Executive Order 13112, Invasive Species
 - 6.3.16. Executive Order 12898, Federal Actions to address Environmental Justice in Minority Populations and Low Income Populations
 - 6.3.17. Executive Order 13045, Protection of Children from Environmental Health Risks and Safety Risks
 - 6.3.18. Migratory Bird Treaty Act, Executive Order 13186, Responsibilities of Federal Agencies to Protect Migratory Birds
 - 6.3.19. Executive Order 13653, Preparing the United States for the Impacts of Climate Change
 - 6.3.20. Environmental Commitments
- 7.0 Public/Agency Participation and Commenting
- 8.0 List of Preparers
- 9.0 Recommendations
- 10.0 References
- 11.0 Index

Appendix A Engineering

Appendix B Geotechnical

Appendix C Economics

Appendix D Cost Engineering

Appendix E Real Estate

Appendix F Biological Assessment of Threatened and Endangered Species

Appendix G Noise Assessment

Appendix H Essential Fish Habitat Assessment

Appendix I Hardbottom Resources

Appendix J Section 103 Sediment Evaluation

Appendix K Fish Habitat Assessment
Appendix L Wetlands Impact Assessment

Appendix M 404(b)(1) Evaluation Appendix N Air Emission Inventory

Appendix O Cumulative Impact Assessment

Appendix P Mitigation, Monitoring, and Adaptive Management

Appendix Q Correspondence



DEPARTMENT OF THE ARMY WILMINGTON DISTRICT, CORPS OF ENGINEERS

69 DARLINGTON AVENUE WILMINGTON, NORTH CAROLINA 28403-1343

June 5, 2018

Mr. Paul Cozza 2202 Burnett Boulevard PO Box 9002 Wilmington, NC 28402

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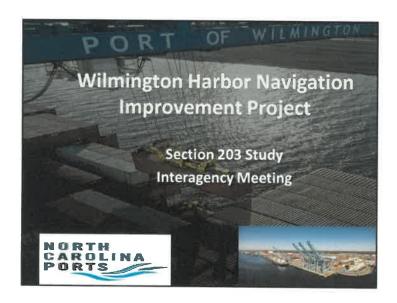
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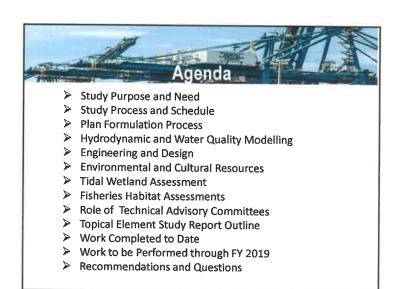
Sincerely,

Christine M. Brayma

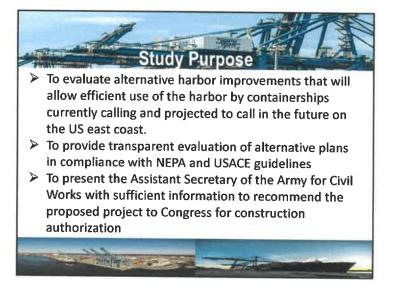
Deputy District Engineer for

Programs and Project Management







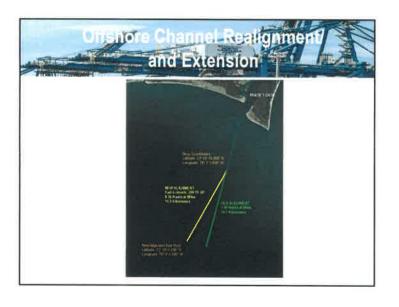


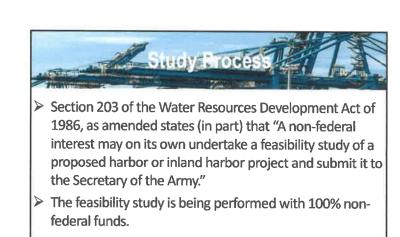


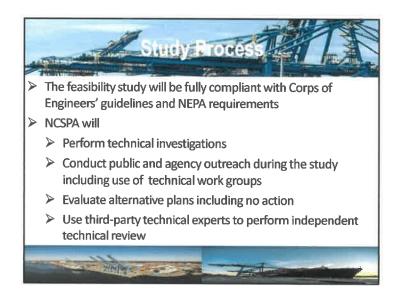


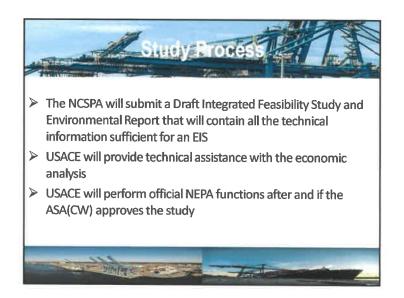




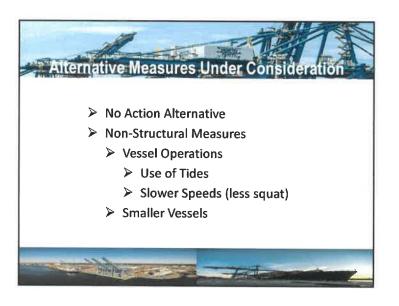




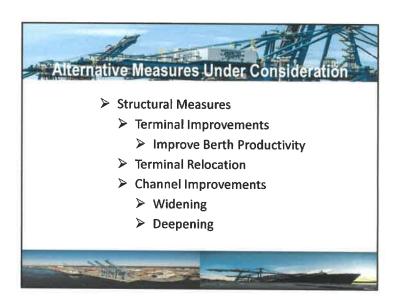




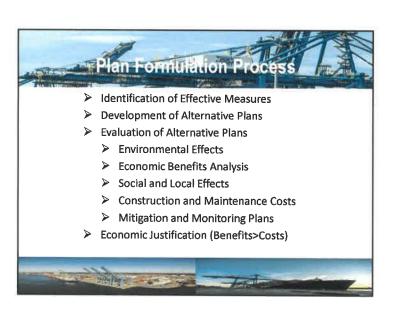


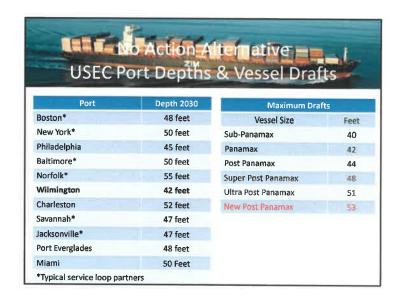


Schedule and Milestones Report Submittal to Assistant Secretary of Army for Review and Approval (180 day review) -Spring 2019 Corps of Engineers Requested to Move Forward with Processing Feasibility Study / EIS (NEPA) - Fall 2019 Corps of Engineers Issues Record of Decision - Winter 2020 Congressional authorization for PED and Construction - Spring 2021



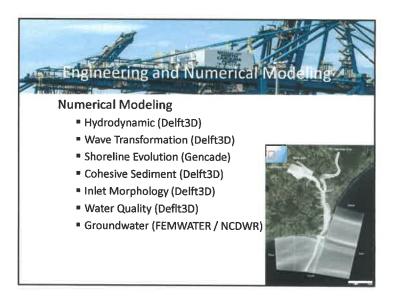




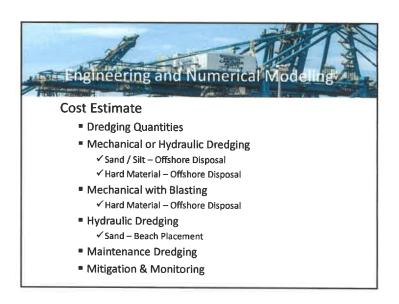


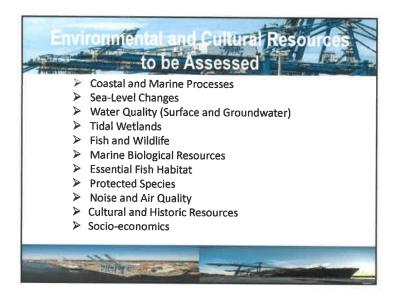




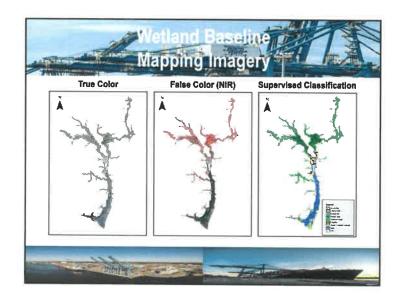


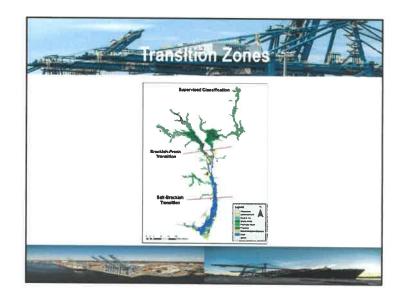












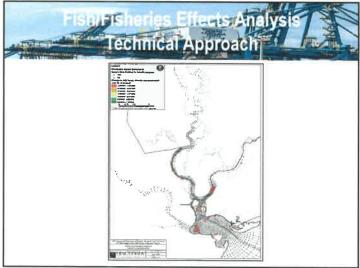


- Updated Mapping of Lower Cape Fear Tidal Wetland Communities
- > Define Community-based Assessment Reaches Salt-brackish-freshwater Wetland Zones
- Establish Wetland Baseline for each Assessment Reach Wetland Acres/Linear-river-foot
- Interpolate Modeled Salinity Changes FWP Alternatives Relative to FWOP
- Sensitivity Analysis/SLR Scenarios
- Assess and Quantify Salinity-driven Wetland Conversions (Acres) FWP Alternatives Relative to FWOP
- > Determination of Mitigation Requirements USACE-approved Functional Assessment Model









- > Application of USACE-approved Habitat Suitability Index (HSI) Models
- > HSI Models are a Component of USFWS HEPs that Were Developed to Support Impact Analyses
- Quantitative Prediction of Habitat Quality on a Scale (Index) of 0.0 to 1.0

0.0 = Unsuitable 1.0 = Optimal

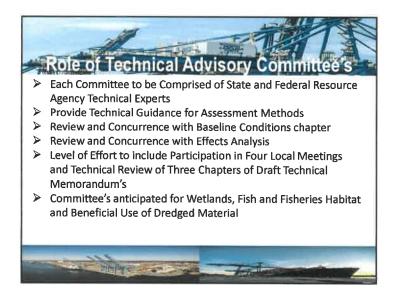
- > Model Predictions Based on Key Habitat Variables that are Easily Measured
- > HSI Models for Representative Species will be Applied to Existing Conditions, FWOP, and FWP Alternatives
- > Model Results Used to Quantify Change in Habitat Suitability

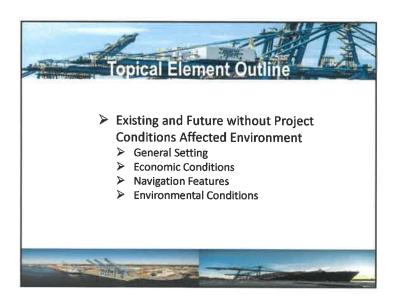
FWP Alternatives Relative to FWOP

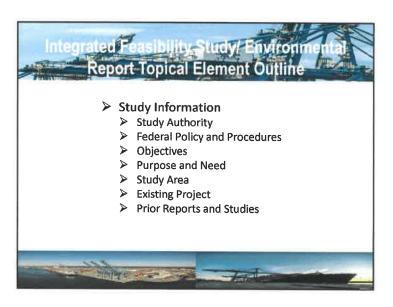


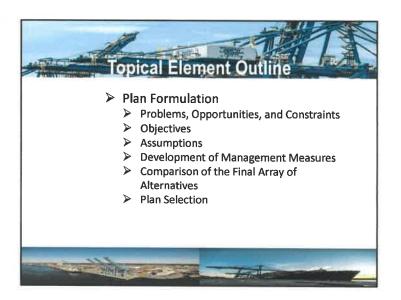
- > Atlantic Sturgeon
- > River Herring and Shad
- > Flounder
- Redfish
- Striped Bass



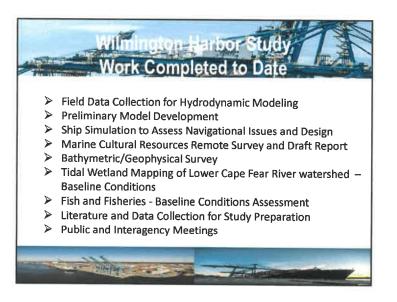












Topical Element Outline Environmental Effects of the Proposed Project General Setting Economic Conditions Navigation Environment Environmental Conditions Environmental Compliance and Commitments

Wilmington Harbor Study Proposed Work FY 18/19

- Public and Interagency Meetings Summary Report
- Hydrodynamic and Water Quality Model Runs
- > Draft Design, Plan Formulation and Cost Estimating
- > Technical Advisory Committee's Meetings (4)
- Wetland, Fish and Fish Habitat and Beneficial Use Committee's with Technical Memorandum's Prepared
- Prepare Draft Feasibility/Environmental Report and Supporting Documents
- > Mitigation, Monitoring and Adaptive Management Plan
- Draft and Final Marine Cultural Report
- Beneficial Use Evaluation Report
- Agency Coordination

