

**North Carolina**  
**Department of Environmental Quality**  
**Division of Water Resources**

# **Water Resources Development Plan**

## **Fiscal Years 2018-2023**

**June 1, 2017**





**Water Resources Development Plan  
Fiscal Years 2018 – 2023**

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## Water Resources Development Plan

### Executive Summary

The Department of Environmental Quality has prepared this statewide plan for water resources development projects. The plan lists projects for a six-year period, from July 1, 2017 through June 30, 2023, to give the Governor, the State Budget Director, and the North Carolina General Assembly a long-range forecast of state funding requirements for water resources development projects. The preparation of this annual plan is required by G.S. 143-215.73A.

The plan is divided into three sections:

- 1) Project Listing;
- 2) Project Priorities and Funding Recommendations; and
- 3) Project Information.

The first section lists all known eligible water projects by major category. The second section shows the priority assigned to each project in the second year of the 2017–2019 Biennium and whether DEQ recommends it for funding, for deferral or for elimination. The final section contains specific information on each project as required.

The following table shows the projects DEQ recommends for funding in FY 2017–2018. The Governor makes the final decision on which of these water resources development projects will be included in the proposed capital budget that is sent to the 2017 Session of the North Carolina General Assembly.

**Water Resources Development Project Priorities  
FY 2017-2018**

(Amounts in Thousands)

Priority	Name of Project	State	Federal	Local
1	Morehead City Harbor Maintenance *	\$0	\$0	\$0
2	Wilmington Harbor Maintenance *	0	0	0
3	Wrightsville Beach CSDR – Cycle 12 **	3,000	3,100	3,000
4	Carolina Beach CSDR – Next cycle plans & specs **	300	0	300
5	Kure Beach CSDR - Next cycle plans & specs **	300	0	300
6	Wrightsville Beach CSDR – PACR **	135	500	135
7	State / Local Water Resource Development Grants	1,500	0	1,500
8	Eastern NC Stream Debris Removal	1,000	0	0
9	Cape Fear River Lock & Dam #2 Fish Ramp – Construction	840	0	840
10	Natural Resources Conservation Service (NRCS) EQIP Projects	2,000	3,715	0
11	Planning Assistance to Communities **	25	50	25
12	Surf City / NTB CSDR (Pre-Construction & Design) **	218	810	218
13	West Onslow CSDR (Pre-Construction & Design) **	218	810	218
14	Princeville Flood Damage Reduction (Pre-Construction & Design)	431	800	0
15	Kunz Farm Park Riverwalk	\$250	\$0	\$250
	<b>Total =</b>	<b>\$10,217</b>	<b>\$9,785</b>	<b>\$6,786</b>

\* Corps forecast that no non-Federal funding required in FY 17-18. The dynamic nature of the project could change that need over the next 18 months.

\*\* Carry forward of prior year funding in the amount of \$1,112,000 was recommended to supplement these projects:

- Wrightsville Beach CSDR – Cycle 12 - \$700,000
- Carolina Beach CSDR – Next cycle plans & specs - \$50,000
- Kure Beach CSDR - Next cycle plans & specs - \$50,000
- Wrightsville Beach CSDR – PACR - \$22,000
- Planning Assistance to Communities - \$25,000
- Surf City / NTB CSDR (Pre-Construction & Design) - \$135,000
- West Onslow CSDR (Pre-Construction & Design) - \$130,000

## Federal Budget Information

### President's FY 2017-2018 Budget

The President has proposed a \$39,320,000 budget for the projects in the table below that are within the Wilmington District, Corps of Engineers, in the fiscal year beginning October 1, 2017 and ending September 30, 2018.

The US Congress may complete work on the Federal budget in September or October. The US Congress considers the President's budget and can add more projects and funds to the President's recommendation.

### **President's Proposed Budget for Wilmington District, Corps of Engineers Water Resources Development Projects Fiscal Year 2017-2018**

(in thousands of dollars)

<b>Name of Project</b>	<b>President's Budget</b>
Atlantic Intracoastal Waterway Maintenance	\$2,812
B. Everett Jordan Lake O & M	2,385
Cape Fear River above Wilmington Maintenance Dredging	462
Falls Lake O & M	2,494
Inspection of Projects	205
Manteo (Shallowbag) Bay Maintenance Dredging	4,790
Masonboro Inlet and Connecting Channels, NC	50
Morehead City Harbor Maintenance Dredging	5,570
New River Inlet, NC	250
Project Condition Surveys	700
Rollinson Channel Maintenance Dredging	1,000
Silver Lake Harbor Maintenance Dredging	500
W. Kerr Scott Reservoir O & M	3,363
Wilmington Harbor Maintenance Dredging	\$14,739
<b>Total =</b>	<b>\$39,320</b>

# WATER RESOURCES DEVELOPMENT PLAN

## I. Introduction

### A. Authority and Purpose of Plan

General Statute 143-215.73A requires the Department of Environment and Natural Resources to prepare a statewide plan for water resources development projects. The plan lists projects proposed for a six-year period and is due by July 1 each year.

The purpose of the plan is to give the Governor and the State Budget Director a long-range forecast of state funding needs for water resources development. The Governor can then use the plan to select and recommend projects for funding in the biennial budget. The plan also gives the members of the Advisory Budget Commission and the General Assembly a long-range forecast of state funding requirements for water resources development projects. The plan will provide them with information to use in their consideration of the Governor's funding recommendations.

### B. Organization and Project Categories

The plan has been written in three parts: 1) Project Listings; 2) Project Priorities and Funding Recommendations; and 3) Project Information. The first part contains a listing of all projects grouped under the five categories specified in part (b) of G.S. 143-215.73A. The second part shows the priority assigned to each project and whether or not it is recommended for funding, for deferral, or for elimination. The final section contains specific information on each project as required under G.S. 143-215.73A(d).

### C. Distribution of the Plan

The Department of Environmental Quality submits the plan to the Director of the Budget each year by July 1. The Director of the Budget also provides copies of the plan to the General Assembly along with the recommended biennial budget or the recommended revised budget for the second year of the biennium.

### D. Budget Recommendations

This report includes the recommendations of the Department of Environmental Quality as to which projects should be funded in the next biennial budget or in the revised budget for the second year of the biennium.

The Director of the Budget chooses which of these projects, if any, will be included in the recommended biennial budget (or in the revised budget for the second year of the biennium). The budget document transmitted to the General Assembly by the Director of the Budget identifies the water resources development projects recommended for funding.

## II. Project Lists

### A. *Category 1 and Category 2: Water Resources Development Projects Approved by Congress and Projects for Which Congress has Appropriated Funds*

Investigations	Study / Project Authorized by U.S. Congress	Project which the US Congress has appropriated funding
Bogue Banks, NC	Yes	Yes
Surf City and North Topsail Beach, NC	Yes	Yes

Construction	Study / Project Authorized by U.S. Congress	Project which the US Congress has appropriated funding
Brunswick Co. Beaches CSDR (Ocean Isle), NC	Yes	Yes
Carolina Beach and Vicinity CSDR, NC (Carolina Beach)	Yes	Yes
Carolina Beach and Vicinity CSDR, NC (Area South – Kure Beach)	Yes	Yes
Princeville Flood Damage Reduction, NC	Yes	No
West Onslow Beach CSDR (Topsail Island), NC	Yes	Yes
Wilmington Harbor Deepening, NC	Yes	Yes
Wrightsville Beach CSDR, NC	Yes	Yes

Operation and Maintenance	Study / Project Authorized by U.S. Congress	Project which the US Congress has appropriated funding
Atlantic Intracoastal Waterway, NC	Yes	Yes
B. Everett Jordan Dam and Lake, NC	Yes	Yes
Beaufort Harbor, NC	Yes	Yes
Far Creek, NC	Yes	Yes
Manteo (Shallowbag) Bay, NC	Yes	Yes
Morehead City Harbor, NC	Yes	Yes
Silver Lake Harbor, NC	Yes	Yes
Stumpy Point Bay, NC	Yes	Yes
Wilmington Harbor , NC	Yes	Yes

Continuing Authorities Program	Study / Project "Named" by US Congress	Project which the US Congress has appropriated funding
Concord Streams Restoration, NC (Sec. 206)	Yes	Yes
Manteo, Old House Channel (Sec. 204)	Yes	Yes
Neuse River – Goldsboro Stream Restoration (Sec. 1135)	Yes	Yes



**B. Category 3: Water Resources Development Projects for Which Grant Applications have been Submitted Under Part 8 of Article 21 of Chapter 143 of the General Statutes**

Project	Sponsor	County
Sparta Bioretention Cell	Alleghany County SWCD	Alleghany
Avery County Aquatics Complex	Avery County	Avery
Cape Fear Lock & Dam #2 & #3 Fish Ramps	Bladen County	Bladen
Woodfin Blueway & Greenway	Town of Woodfin	Buncombe
Pinebridge Inn Stormwater Improvements	Mayland Community College	Mitchell
North Topsail Beach Shoreline Protection – Phase II	Town of North Topsail Beach	Onslow
Eastern NC Stream Debris Removal	NC DACS - DSWC	Various
Middle Fork Greenway-Section 4	Watauga County	Watauga
Ray-Cort Park Stream & Stormwater Improvements	Yancey County	Yancey

**C. Category 4: Water Resources Development Projects for Which Grant Applications have been Submitted Under Article 4 of Chapter 139 of the General Statutes**

None at this time

**D. Category 5: Water Resources Development Projects Planned as Federal Reservoir Projects but for Which no Federal Funds are Scheduled and for Which Local Governments are Seeking State Financial Assistance**

None at this time

### III. Priorities for projects planned for FY 2017-2018

- A. **Category 1 and Category 2:** Priority recommendations for Water Resources Development Projects approved by Congress and projects for which Congress has appropriated funds. No projects recommended for elimination in FY 2017-2018.

(Amounts in Thousands)

Priority	Name of Project	State Funds Recommended	Reason
1	Wrightsville Beach CSDR – Cycle 12	\$3,000	Beach Protection Benefits
2	Carolina Beach CSDR – Next cycle plans & specs	300	Beach Protection Benefits
3	Kure Beach CSDR - Next cycle plans & specs	300	Beach Protection Benefits
4	Wrightsville Beach CSDR – PACR	135	Beach Protection Benefits
5	Surf City / NTB CSDR (Pre-Const. & Design)	218	Beach Protection Benefits
6	West Onslow CSDR (Pre-Const. & Design)	218	Beach Protection Benefits
7	Princeville Flood Damage Reduction (Pre-Const. & Design)	\$431	Flood Damage Reduction
	Sub-Total =	\$4,602	

- B. **Category 3:** Priority recommendations for Water Resources Development Projects for which Local Governments have submitted grant applications under G.S. 143-215.71 \*. No projects recommended for elimination in FY 2017-2018.

(Amounts in Thousands)

Priority	Name of Project	State Funds Recommended	Reason
1	Cape Fear Lock & Dam #2 & #3 Fish Ramps	\$840	Environmental Benefits
2	Eastern NC Stream Debris Removal	1,000	Environmental Benefits
3	North Topsail Beach Shoreline Protection – Phase II	500	Environmental Benefits
4	Kunz Farm Park Riverwalk	\$250	Environmental Benefits
	Sub-Total =	\$2,590	

\* Priority projects as of June 1, 2017, list is subject to change if any additional submittals are made prior to July 1, 2017 grant application deadline. Note that there is no federal cost-share associated with these projects.

- C. **Category 4:** Water Resources Development Projects For Which Grant Applications Have Been Submitted Under G.S. 139-54

No grant applications received, no projects recommended for deferral or elimination in FY 2017-2018.

- D. **Category 5:** Water Resources Development Projects Planned as Federal Reservoir Projects but for Which Local Governments are Seeking State Financial Assistance

No request received, no projects recommended for deferral or elimination in FY 2017-2018.

#### IV. Project Information

This section of the Water Resources Development Plan contains the information required by G.S. 143-215.73A(d) for each project listed in Section II, Project Listing. Information for each project is presented in alphabetical order by category.

**A. Project Information, Categories 1 and 2, Water Resources Development Projects Approved by Congress and Water Resources Development Projects for which Congress has Appropriated Funds.**

Project Name	Page No.
Atlantic Intracoastal Waterway (AIWW) Maintenance Dredging	7
B. Everett Jordan Lake Water Supply Storage	7
Beaufort Harbor Maintenance Dredging	8
Bogue Banks CSDR, Carteret County	8
Brunswick County Beaches CSDR (Ocean Isle Beach), Brunswick County	9
Carolina Beach CSDR, New Hanover County	9
Carolina Beach South (Kure Beach) CSDR, New Hanover County	10
Concord Stream Restoration, Cabarrus County, Section 206	10
Far Creek Maintenance Dredging, Hyde County	11
Manteo Old House Channel, Dare County, Section 204	11
Manteo Shallowbag Bay Maintenance Dredging, Dare County	12
Morehead City Harbor Dredging, Carteret County	12
Neuse River – Goldsboro Ecosystem Restoration, Sec. 1135	13
Planning Assistance to North Carolina Communities	13
Princeville Flood Damage Reduction	14
Silver Lake Harbor, Ocracoke, Hyde County	14
Stumpy Point Bay Maintenance Dredging, Dare County	15
Surf City – North Topsail Beach CSDR, Pender County	15
West Onslow Beach CSDR (Topsail Beach), Pender County	16
Wilmington Harbor Deepening, New Hanover and Brunswick Counties	16
Wilmington Harbor 42-Ft. Project, New Hanover and Brunswick Counties	17
Wrightsville Beach CSDR, New Hanover County	17
Propose projects in the USACE – Wilmington District	18

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**Project Name**

**ATLANTIC INTRACOASTAL WATERWAY (AIWW) MAINTENANCE DREDGING**

**Description**

The AIWW navigation channel runs 308 miles from the Virginia state line to the South Carolina state line through Currituck, Camden, Dare, Tyrrell, Hyde, Beaufort, Pamlico, Carteret, Onslow, Pender, New Hanover, and Brunswick Counties. In the past, the Wilmington District, Corps of Engineers has had sufficient funds to keep this channel dredged to its authorized depth of -12 feet, mean low water. However, several times in the last decade, the District has not had sufficient funds to perform this dredging. In order to keep the AIWW open for both commercial and recreational boat traffic, the State of North Carolina has occasionally provided funds to the Wilmington District so that they could hire a dredging contractor to do the dredging.

**Total Cost as of June 30, 2017**

Federal*	State	Local	Total
\$ 14,481,000	\$ 3,230,650	\$ 733,736	\$ 18,445,386

\* Federal "Total Cost" is estimate for last 5 years

**Estimated costs from 07/01/2017 through 06/30/2023**

	Federal	State	Local
Feasibility	\$ -	\$ -	\$ -
Construction	\$ -	\$ -	\$ -
O & M	\$ 17,812,000	\$ -	\$ -

	Federal	State	Local
FY 2018	\$ 2,812,000	\$ -	\$ -
FY 2019	\$ 3,000,000	\$ -	\$ -
FY 2020	\$ 3,000,000	\$ -	\$ -
FY 2021	\$ 3,000,000	\$ -	\$ -
FY 2022	\$ 3,000,000	\$ -	\$ -
FY 2023	\$ 3,000,000	\$ -	\$ -

**Status of Project**

Ongoing

**Estimated Completion Date**

N/A

**Project Name**

**B. EVERETT JORDAN LAKE WATER SUPPLY**

**Description**

B. Everett Jordan Lake is a U.S. Army Corps of Engineers' multipurpose reservoir that became operational in 1983. The water supply storage in the lake was included at the request of the State of North Carolina and was done with the understanding that the actual users of the water would repay the Corps the costs of including the water supply storage and the portion of the annual operating and maintenance costs associated with that storage. The General Statute GS 143-354(a)(11) of the State of North Carolina gives the Environmental Management Commission (EMC) the authority to allocate to local governments any water supply storage held by the State in Federal reservoirs. The estimated

safe yield of the 45,800 acre-feet of water supply storage is 100 million gallons per day. As of May 2007 the EMC has allocated 63 percent of that storage as follows: Level I allocations: Towns of Cary and Apex, Chatham County, City of Durham, Town of Morrisville, and Wake County - RTP South.; and Level II allocations: Town of Holly Springs, Orange County, and Orange Water & Sewer Authority. Both the State and the local government allocation holders are paying their proportionate shares of the interest on the cost of the water supply storage, plus their share of the O&M and major rehabilitation cost.

**Total Cost as of June 30, 2017**

Federal	State	Local	Total
\$ -	\$ 3,254,273	\$ 4,973,669	\$ 8,227,942

**Estimated costs from 07/01/2017 through 06/30/2023**

	Federal	State	Local
Feasibility	\$ -	\$ -	\$ -
Construction	\$ -	\$ -	\$ -
O & M	\$ -	\$ 240,000	\$ 240,000

	Federal	State	Local
FY 2018	\$ -	\$ 40,000	\$ 40,000
FY 2019	\$ -	\$ 40,000	\$ 40,000
FY 2020	\$ -	\$ 40,000	\$ 40,000
FY 2021	\$ -	\$ 40,000	\$ 40,000
FY 2022	\$ -	\$ 40,000	\$ 40,000
FY 2023	\$ -	\$ 40,000	\$ 40,000

**Status of Project**

Ongoing

**Estimated Completion Date**

N/A

**Project Name**

**BEAUFORT HARBOR MAINTENANCE DREDGING, CARTERET COUNTY**

**Description**

This Corps of Engineers navigation project is located at the Town of Beaufort. The project consists of five segments: (1) the 15-foot deep Bulkhead Channel from the Town to Beaufort Inlet; (2) the 15-foot deep Gallants Channel from the Town north to the Newport River; (3) the 15-foot deep Taylor's Creek Channel from the Town east to the North River and Back Sound; (4) the 12-foot deep Town Creek Channel and Basin north of Beaufort; and (5) the 14-foot Morgan Creek Channel and Basin. Carteret County, the non-Federal sponsor. Due to lack of Federal funding the State and local governments have provided funding to dredge Bulkhead Channel (2011, 2013, 2014, 2015, 2016, 2017) and Taylor's Creek (2015,2016, 2017).

**Total Cost as of June 30, 2017**

Federal	State	Local	Total
	\$ 729,809	\$ 646,142	\$ 1,375,951

**Estimated costs from 07/01/2017 through 06/30/2023**

	Federal	State	Local
Feasibility	\$ -	\$ -	\$ -
Construction	\$ -	\$ -	\$ -
O & M	\$ 1,250,000	\$ -	\$ -

	Federal	State	Local
FY 2018	\$ -	\$ -	\$ -
FY 2019	\$ 250,000	\$ -	\$ -
FY 2020	\$ 250,000	\$ -	\$ -
FY 2021	\$ 250,000	\$ -	\$ -
FY 2022	\$ 250,000	\$ -	\$ -
FY 2023	\$ 250,000	\$ -	\$ -

**Status of Project**

Next maintenance scheduled for fall FY2017

**Estimated Completion Date**

N/A

**Project Name**

**BOGUE BANKS COASTAL STORM DAMAGE REDUCTION, CARTERET COUNTY**

**Description**

Bogue Banks is the barrier island in Carteret County located between Beaufort Inlet to the east and Bogue Inlet to the west. The communities of Pine Knoll Shores, Salter Path, Indian Beach, and Emerald Isle have experienced considerable erosion to the dune system and severe damage to upland structures due to recent hurricanes. Carteret County is requesting 50 percent cost-sharing of the non-Federal cost of the feasibility study for the Bogue Banks Shore Protection project that would be done by the Corps of Engineers. The Corps plans to start preliminary engineering and design work in FY 17 , and then start the nourishment of the beaches in FY 20.

**Total Cost as of June 30, 2017**

Federal	State	Local	Total
\$ 2,733,278	\$ 1,299,225	\$ 1,729,225	\$ 5,761,728

**Estimated costs from 07/01/2017 through 06/30/2023**

	Federal	State	Local
Feasibility	\$ 32,200,000	\$ 8,502,000	\$ 8,503,000
Construction	\$ -	\$ -	\$ -
O & M	\$ -	\$ -	\$ -

	Federal	State	Local
FY 2018	\$ 300,000	\$ 81,000	\$ 81,000
FY 2019	\$ 1,000,000	\$ 269,000	\$ 270,000
FY 2020	\$ 900,000	\$ 75,000	\$ 75,000
FY 2021	\$ 30,000,000	\$ 8,077,000	\$ 8,077,000
FY 2022	\$ -	\$ -	\$ -
FY 2023	\$ -	\$ -	\$ -

**Status of Project**

Preliminary engineering and design should begin in FY 2017

**Estimated Completion Date**

PED, FY 2017, if funded

**Project Name**

**BRUNSWICK COUNTY BEACHES COASTAL STORM DAMAGE REDUCTION (OCEAN ISLE), NC**

**Description**

This Corps of Engineers project is located in the Town of Ocean Isle Beach and provides for hurricane-wave protection and beach erosion control along the oceanfront. A levee consisting of a continuous vegetated dune and high beach berm stabilized by periodic nourishment has been constructed. The dune crown width is 25 feet at elevation 20 feet above mean sea level fronted by a storm berm having a width of 50 feet at elevation 15 feet above mean sea level for a distance of 28,000 feet. This project was approved as a new construction start in fiscal year 2000's budget and was constructed in 2001. Beach was renourished in FY 2014.

**Total Cost as of June 30, 2017**

Federal	State	Local	Total
\$ 19,669,141	\$ 6,836,538	\$ 3,754,538	\$ 30,260,217

**Estimated costs from 07/01/2017 through 06/30/2023**

	Federal	State	Local
Feasibility			
Construction	\$ 4,200,000	\$ 943,000	\$ 943,000
O & M			

	Federal	State	Local
FY 2018	\$ 5,700,000	\$ 1,535,000	\$ 1,535,000
FY 2019	\$ -	\$ -	\$ -
FY 2020	\$ 350,000	\$ -	\$ -
FY 2021	\$ 3,500,000	\$ 943,000	\$ 943,000
FY 2022	\$ -	\$ -	\$ -
FY 2023	\$ 350,000	\$ -	\$ -

**Status of Project**

Next scheduled renourishment in fall FY 2017. Schedule subject to change.

**Estimated Completion Date**

FY 2051

**Project Name**

**CAROLINA BEACH COASTAL STORM DAMAGE REDUCTION, NEW HANOVER COUNTY**

**Description**

This Corps of Engineers project is located in the Town of Carolina Beach, about 15 miles south of Wilmington. The project provides for restoring the dune with a base generally bordering at or near the building line. The dune dimensions are a crown width of 25 feet at an elevation of 15 feet above mean low water together with an integral beach berm with a crown width of 50 feet at elevation 12 feet. Beach fill extends about 14,000 feet from the northern to the southern limits of Carolina Beach. Along the northern 2,050 feet, the project includes a rock revetment at elevation 12 feet fronted by 130-foot wide berm at elevation 8 feet. Federal participation in the cost of beach renourishment will run for a period not to exceed 50 years from year of initial placement (1965-2015). WRDA 2015 directed the Corps to study the possible extension of this project for 15 more years. Study to began in 2015.

**Total Cost as of June 30, 2017**

Federal	State	Local	Total
\$ 47,624,142	\$ 13,649,295	\$ 8,861,937	\$ 70,135,373

**Estimated costs from 07/01/2017 through 06/30/2023**

	Federal	State	Local
Feasibility	\$ 150,000	\$ 75,000	\$ 75,000
Construction			
O & M			

	Federal	State	Local
FY 2018	\$ 300,000	\$ 150,000	\$ 150,000
FY 2019	\$ 4,265,000	\$ 1,148,000	\$ 1,149,000
FY 2020	\$ -	\$ -	\$ -
FY 2021	\$ -	\$ -	\$ -
FY 2022	\$ -	\$ -	\$ -
FY 2023	\$ -	\$ -	\$ -

**Status of Project**

One additional renourishment cycle is being scheduled, possibly for 2018.

**Estimated Completion Date**

FY 2018

**Project Name**

**CAROLINA BEACH SOUTH COASTAL STORM DAMAGE REDUCTION, NEW HANOVER COUNTY**

**Description**

This Corps of Engineers hurricane protection project is being constructed south of Carolina Beach in front of developments known as Wilmington Beach and Kure Beach. It provides for construction of a dune with a base generally bordering at or near the building line with a crown width of 25 feet at an elevation of 13.5 feet above mean low water and a beach berm 50 feet wide at elevation 9.0 feet above mean low water, extending 18,000 feet from the southern limits of Carolina Beach. Federal participation in the cost of beach nourishment will not exceed 50 years from year of initial placement, which was April of 1998. The Town of Kure Beach is the non-Federal sponsor of this project.

**Total Cost as of June 30, 2017**

Federal	State	Local	Total
\$ 28,228,997	\$ 9,125,128	\$ 6,074,948	\$ 43,429,073

**Estimated costs from 07/01/2017 through 06/30/2023**

	Federal	State	Local
Feasibility	\$ 300,000	\$ 150,000	\$ 150,000
Construction	\$ 16,700,000	\$ 4,306,000	\$ 4,308,000
O & M			

	Federal	State	Local
FY 2018	\$ 300,000	\$ 150,000	\$ 150,000
FY 2019	\$ 8,000,000	\$ 2,153,000	\$ 2,154,000
FY 2020	\$ -	\$ -	\$ -
FY 2021	\$ 350,000	\$ -	\$ -
FY 2022	\$ 8,000,000	\$ 2,153,000	\$ 2,154,000
FY 2023	\$ 350,000	\$ -	\$ -

**Status of Project**

Next scheduled renourishment being scheduled, possibly in FY 2018. Schedule subject to change.

**Estimated Completion Date**

FY 2047

**Project Name**

**CONCORD STREAM RESTORATION (SECTION 206), CABARRUS COUNTY**

**Description**

Restoration and rehabilitation are proposed for four stream segments in Concord: Three Mile Branch (approximately 8,000 feet), Afton Run (5,800 feet), Stricker Branch (approximately 5,500 feet), and Academy Center Branch (4,000 feet). The watersheds of the four streams are experiencing rapid residential and commercial development that has led to a variety of negative impacts on the subject streams, including slope failures, bank erosion, high in-stream sediment loadings, and loss of vegetated riparian buffers. The project would consist of stream channel reconstruction where feasible, restoration of riparian buffers, construction of natural marsh catchments, and purchase of existing wildlife corridors. In addition, aquatic habitat will be restored through the installation of in-stream habitat improvement structures. The City of Concord is the non-federal sponsor.

**Total Cost as of June 30, 2017**

Federal	State	Local	Total
\$ 322,000	\$ 140,000	\$ 140,000	\$ 602,000

**Estimated costs from 07/01/2017 through 06/30/2023**

	Federal	State	Local
Feasibility	\$ -	\$ -	\$ -
Construction	\$ 2,889,000	\$ 1,000,000	\$ 1,000,000
O & M	\$ -	\$ -	\$ -

	Federal	State	Local
FY 2018	\$ -	\$ -	\$ -
FY 2019	\$ 2,785,000	\$ 750,000	\$ 750,000
FY 2020	\$ 104,000	\$ 250,000	\$ 250,000
FY 2021	\$ -	\$ -	\$ -
FY 2022	\$ -	\$ -	\$ -
FY 2023	\$ -	\$ -	\$ -

**Status of Project**

Project began in FY 2011, land acquisition scheduled for FY 2017

**Estimated Completion Date**

FY 2019



**Project Name**

**FAR CREEK MAINTENANCE DREDGING, HYDE COUNTY**

**Description**

This project involves the maintenance dredging of the navigation channel in Far Creek, which runs from the village of Engelhard to Pamlico Sound. The channel is used by commercial fishing boats that dock in the basin at Engelhard. The channel is 12 feet deep and 100 feet wide. The non-Federal cost is required to prepare the dredged material disposal site. Hyde County is the non-federal sponsor of the project. The next maintenance dredging of the channel is expected to be required in FY 2018.

**Total Cost as of June 30, 2017**

Federal	State*	Local*	Total
	\$ 220,694	\$ 48,923	\$ 269,617

\*State and Local expenditures since 2004

**Estimated costs from 07/01/2017 through 06/30/2023**

	Federal	State	Local
Feasibility	\$ -	\$ -	\$ -
Construction	\$ -	\$ -	\$ -
O & M	\$ 925,000	\$ 155,000	\$ 155,000

	Federal	State	Local
FY 2018	\$ -	\$ -	\$ -
FY 2019	\$ 925,000	\$ 155,000	\$ 155,000
FY 2020	\$ -	\$ -	\$ -
FY 2021	\$ -	\$ -	\$ -
FY 2022	\$ -	\$ -	\$ -
FY 2023	\$ -	\$ -	\$ -

**Status of Project**

Next channel dredging scheduled for FY 2018, if funding available

**Estimated Completion Date**

N/A

**Project Name**

**MANTEO OLD HOUSE CHANNEL, SECTION 204, DARE COUNTY**

**Description**

The proposed project would use sandy dredged material from maintenance dredging of Old House Channel to build submerged sand mounds to be topped with cultch for oyster reefs. Sand would be placed in submerged enclosures in a depth of water where optimum oyster growing conditions are found. The submerged mounds will be located near the authorized navigation channel where submerged aquatic vegetation (SAV) or other significant resources do not exist. Creation of the submerged sand mounds would provide an environmentally sound disposal area for dredged material.

**Total Cost as of June 30, 2017**

Federal	State	Local	Total
\$ 250,000	\$ -	\$ -	\$ 250,000

**Estimated costs from 07/01/2017 through 06/30/2023**

	Federal	State	Local
Feasibility	\$ -	\$ -	\$ -
Construction	\$ 4,121,000	\$ 2,219,000	\$ -
O & M	\$ -	\$ -	\$ -

	Federal	State	Local
FY 2018	\$ -	\$ -	\$ -
FY 2019	\$ 2,485,000	\$ 1,338,100	\$ -
FY 2020	\$ 1,636,000	\$ 880,900	\$ -
FY 2021	\$ -	\$ -	\$ -
FY 2022	\$ -	\$ -	\$ -
FY 2023	\$ -	\$ -	\$ -

**Status of Project**

Project Participation Agreement awaiting execution by DEQ & USACE. Project on hold pending Federal funding.

**Estimated Completion Date**

TBD

**Project Name**

**MANTEO (SHALLOWBAG BAY) MAINTENANCE DREDGING, DARE COUNTY**

**Description**

Corps project involving the the maintenance dredging of the navigation channel of Shallowbag Bay, including Oregon Inlet, Wanchese Harbor and Old House Channel. The Corps pays for 100% of the dredging costs. However, due to Federal funding shortfalls, the State has provided some supplemental maintenance funding the last several years. In addition to the channel from Oregon Inlet to Wanchese Harbor, there are two other channels—the Manteo to Wanchese and the North—that are a part of this project. Because the Corps views these projects as primarily recreational, it has not maintained them. Because of this policy, the state has paid to keep these channels open.

**Total Cost as of June 30, 2017**

Federal	State*	Local	Total
\$ -	\$ 19,312,043	\$ 3,150,000	\$ 22,462,043

\*Estimated State expenditures since 2001

**Estimated costs from 07/01/2017 through 06/30/2023**

	Federal	State	Local
Feasibility	\$ -	\$ -	\$ -
Construction	\$ 47,790,000	\$ -	\$ -
O & M	\$ -	\$ -	\$ -

	Federal	State	Local
FY 2018	\$ 4,790,000	\$ -	\$ -
FY 2019	\$ 8,000,000	\$ -	\$ -
FY 2020	\$ 8,300,000	\$ -	\$ -
FY 2021	\$ 8,600,000	\$ -	\$ -
FY 2022	\$ 8,900,000	\$ -	\$ -
FY 2023	\$ 9,200,000	\$ -	\$ -

**Status of Project**

Ongoing

**Estimated Completion Date**

N/A

**Project Name**

**MOREHEAD CITY HARBOR DREDGING, CARTERET COUNTY**

**Description**

The deepening of Morehead City Harbor to 45 feet was completed in 1994. Maintenance dredging of this Harbor has been done in two ways: (1) sand from the outer ocean bar channels has been placed in either an ocean disposal site or a near shore site and (2) mostly non-beach compatible material from the inner channel and harbor area has been pumped to the Brandt Island disposal area. As the non-Federal sponsor of this project, the state is required to pay for preparation of the spoil disposal sites, which involves the raising of dikes and spillway repairs. The Corps pays for 100% of the dredging costs.

**Total Cost as of June 30, 2017**

Federal	State*	Local	Total
\$ -	\$ 2,213,698	\$ -	\$ 2,213,698

\*State expenditures since 2001

**Total Cost as of June 30, 2017**

	Federal	State	Local
Feasibility	\$ -	\$ -	\$ -
Construction	\$ -	\$ -	\$ -
O & M	\$ 35,570,000	\$ 2,200,000	\$ -

	Federal	State	Local
FY 2018	\$ 5,570,000	\$ 2,000,000	\$ -
FY 2019	\$ 10,500,000	\$ -	\$ -
FY 2020	\$ 7,000,000	\$ 100,000	\$ -
FY 2021	\$ 2,500,000	\$ -	\$ -
FY 2022	\$ 7,500,000	\$ 100,000	\$ -
FY 2023	\$ 2,500,000	\$ -	\$ -

**Status of Project**

Ongoing

**Estimated Completion Date**

N/A

**Project Name**

**Neuse River - Goldsboro Ecosystem Restoration, Sec. 1135**

**Description**

The Neuse-Goldsboro Section 1135 study will investigate the Federal interest in modifying the existing Federal project ( a flood control weir and cutoff channel) along the Neuse River for the purposes of ecosystem restoration, to include fish passage and restoration of overall ecological function in the Neuse mainstem. The project area is located in central Wayne County, NC, just southeast of the city of Goldsboro. The Town of Goldsboro is the non-Federal sponsor of this project. The Town has requested cost-sharing of the non-Federal cost of the project from the state, as allowed under G.S. 143-215.70-73.

**Total Cost as of June 30, 2017**

Federal	State	Local	Total
\$ 249,000	\$ 124,500	\$ 124,500	\$ 498,000

**Estimated costs from 07/01/2017 through 06/30/2023**

	Federal	State	Local
Feasibility	\$ -	\$ -	\$ -
Construction	\$ -	\$ -	\$ -
O & M	\$ -	\$ -	\$ -

	Federal	State	Local
FY 2018	\$ -	\$ -	\$ -
FY 2019	\$ -	\$ -	\$ -
FY 2020	\$ -	\$ -	\$ -
FY 2021	\$ -	\$ -	\$ -
FY 2022	\$ -	\$ -	\$ -
FY 2023	\$ -	\$ -	\$ -

**Status of Project**

Feasibility Study to started in FY 2017

**Estimated Completion Date**

TBD

**Project Name**

**PLANNING ASSISTANCE TO NORTH CAROLINA COMMUNITIES**

**Description**

Section 22 of the Water Resources Development Act of 1974 allows the Corps to assist states and local communities with preparation of comprehensive plans for the development, use, and conservation of water and related land resources. The non-Federal sponsor (state and/or local government) must provide 50% of the cost. For studies sponsored by units of local government, the state can provide up to 50% of the non-Federal cost.

**Total Cost as of June 30, 2017**

Federal	State	Local	Total
\$ 1,334,680	\$ 360,385	\$ 335,385	\$ 2,030,450

**Estimated costs from 07/01/2017 through 06/30/2023**

	Federal	State	Local
Feasibility	\$ 300,000	\$ 150,000	\$ 150,000
Construction	\$ -	\$ -	\$ -
O & M	\$ -	\$ -	\$ -

	Federal	State	Local
FY 2018	\$ 50,000	\$ 25,000	\$ 25,000
FY 2019	\$ 50,000	\$ 25,000	\$ 25,000
FY 2020	\$ 50,000	\$ 25,000	\$ 25,000
FY 2021	\$ 50,000	\$ 25,000	\$ 25,000
FY 2022	\$ 50,000	\$ 25,000	\$ 25,000
FY 2023	\$ 50,000	\$ 25,000	\$ 25,000

**Status of Project**

On-going

**Estimated Completion Date**

N/A

**Project Name**

**PRINCEVILLE FLOOD DAMAGE REDUCTION PROJECT**

**Description**

This Corps of Engineering project began with a feasibility study, funded by a special appropriation from Congress and required the State match these funds dollar for dollar. The purpose of the study was to determine what additional flood control measures to protect the Town of Princeville were feasible. The Corps completed the study in FY 2016 with the Cheif's Report signing on Feb. 23, 2016. The project is authorized for construction by Congress via WIIN Act of 2016, the next step is securing funding and signing a PPA for readying plans and specifications for the project to be constructed under the Preconstruction Engineering and Design (PED) phase. This phase would be cost shared and financed at the same rate as the project to be constructed, 65% Federal – 35% State of North Carolina. The cost of this phase is currently estimated at \$4,000,000. Project on hold, pending appropriation of State and federal dollars.

**Total Cost as of June 30, 2017**

Federal	State	Local	Total
\$ 1,500,000	\$ 1,400,000	\$ -	\$ 2,900,000

**Estimated costs from 07/01/2017 through 06/30/2023**

	Federal	State	Local
Feasibility	\$ -	\$ -	\$ -
Construction	\$ 14,000,000	\$ 7,539,000	\$ -
O & M	\$ -	\$ -	\$ -

	Federal	State	Local
FY 2018	\$ 800,000	\$ 431,000	\$ -
FY 2019	\$ -	\$ -	\$ -
FY 2020	\$ 950,000	\$ 512,000	\$ -
FY 2021	\$ 850,000	\$ 457,000	\$ -
FY 2022	\$ 11,400,000	\$ 6,139,000	\$ -
FY 2023	\$ -	\$ -	\$ -

**Status of Project**

If funds are appropriated, work on plans & specs will begin in FY 2018.

**Estimated Completion Date**

FY 2023

**Project Name**

**SILVER LAKE HARBOR MAINTENANCE DREDGING, OCRACOKE, HYDE COUNTY**

**Description**

This project includes 12-foot deep basin within Silver Lake Harbor at Ocracoke, a 60-foot wide by 12-foot deep entrance channel from the harbor to the Teaches Hole Channel, the 150-foot wide by 12-foot deep Teaches Hole Channel to Ocracoke Inlet, and 150-foot wide by 12-foot deep Big Foot Slough Channel from the Teaches Hole Channel to Pamlico Sound. Hyde County, the local sponsor, is responsible for the costs of the sand-bag dikes used in dredging the Big Foot Slough Channel. These dikes were replaced in FY 2006.

**Total Cost as of June 30, 2017**

Federal	State	Local	Total
\$ -	\$ -	\$ -	\$ -

**Estimated costs from 07/01/2017 through 06/30/2023**

	Federal	State	Local
Feasibility	\$ -	\$ -	\$ -
Construction	\$ -	\$ -	\$ -
O & M	\$ 5,500,000	\$ 250,000	\$ 250,000

	Federal	State	Local
FY 2018	\$ 500,000	\$ -	\$ -
FY 2019	\$ 1,000,000	\$ 250,000	\$ 250,000
FY 2020	\$ 1,000,000	\$ -	\$ -
FY 2021	\$ 1,000,000	\$ -	\$ -
FY 2022	\$ 1,000,000	\$ -	\$ -
FY 2023	\$ 1,000,000	\$ -	\$ -

**Status of Project**

Sandbag improvements, pending funding.

**Estimated Completion Date**

N/A

**Project Name**

**STUMPY POINT BAY MAINTENANCE DREDGING, DARE COUNTY**

**Description**

This project involves the maintenance dredging of the 3.8 mile navigation channel in Stumpy Point Bay. The channel is 10-feet deep and 75-feet wide. Material will be placed on an upland disposal site on land owned by the US Fish and Wildlife Service. Dare County is the non-federal sponsor of this project.

**Total Cost as of June 30, 2017**

Federal	State	Local	Total
\$ -	\$ -	\$ -	\$ -

**Estimated costs from 07/01/2017 through 06/30/2023**

	Federal	State	Local
Feasibility	\$ -	\$ -	\$ -
Construction	\$ -	\$ -	\$ -
O & M	\$ 1,500,000	\$ 250,000	\$ 250,000

	Federal	State	Local
FY 2018	\$ -	\$ -	\$ -
FY 2019	\$ -	\$ 250,000	\$ 250,000
FY 2020	\$ 1,500,000	\$ -	\$ -
FY 2021	\$ -	\$ -	\$ -
FY 2022	\$ -	\$ -	\$ -
FY 2023	\$ -	\$ -	\$ -

**Status of Project**

Dike raising in FY 2018, if funding is available

**Estimated Completion Date**

N/A

**Project Name**

**SURF CITY – NORTH TOPSAIL BEACH COASTAL STORM DAMAGE REDUCTION, PENDER COUNTY**

**Description**

This potential hurricane protection project began in FY 2001 with a reconnaissance study funded entirely by the Corps of Engineers. That study determined that there was a Federal interest in a beach nourishment project to protect citizens of Surf City and the southern 4-mile section of North Topsail Beach from storm damages. In February 2002, the Corps entered into an agreement with the Towns of Surf City and North Topsail Beach to conduct a feasibility study funded jointly with the two towns. The feasibility study was completed in FY 2012, PED started in FY 2013.

**Total Cost as of June 30, 2017**

Federal	State	Local	Total
\$ 2,208,966	\$ 1,090,726	\$ 1,118,240	\$ 4,417,932

**Estimated costs from 07/01/2017 through 06/30/2023**

	Federal	State	Local
Feasibility	\$ 810,000	\$ 218,000	\$ 218,000
Construction	\$ 63,000,000	\$ 14,400,000	\$ 14,400,000
O & M	\$ -	\$ -	\$ -

	Federal	State	Local
FY 2018	\$ 810,000	\$ 218,000	\$ 218,000
FY 2019	\$ -	\$ -	\$ -
FY 2020	\$ 21,000,000	\$ 3,200,000	\$ 3,200,000
FY 2021	\$ 21,000,000	\$ 5,600,000	\$ 5,600,000
FY 2022	\$ 21,000,000	\$ 5,600,000	\$ 5,600,000
FY 2023	\$ -	\$ -	\$ -

**Status of Project**

Pre-construction activities, if funding is available

**Estimated Completion Date**

FY 2070

**Project Name**

**WEST ONSLOW BEACH COASTAL STORM DAMAGE REDUCTION (TOPSAIL BEACH), PENDER COUNTY**

**Description**

This authorized Corps of Engineers shore protection project for approximately 3 miles of the oceanfront at Topsail Beach on the southern end of Topsail Island was placed in the inactive category in July 1994 due to lack of local support. The town requested the Corps reevaluate the project area plus an additional 2.5 miles. The Corps of Engineers began a general reevaluation in October 2001. Cheif's report signed in September 2009. The initial plans and specs initiated in FY 2010.

**Total Cost as of June 30, 2017**

Federal	State	Local	Total
\$ 3,821,398	\$ 703,360	\$ 703,360	\$ 5,228,118

**Estimated costs from 07/01/2017 through 06/30/2023**

	Federal	State	Local
Feasibility			
Construction	\$ 27,665,000	\$ 4,694,000	\$ 4,694,000
O & M			

	Federal	State	Local
FY 2018	\$ 810,000	\$ 218,000	\$ 218,000
FY 2019	\$ -	\$ -	\$ -
FY 2020	\$ 26,855,000	\$ 4,476,000	\$ 4,476,000
FY 2021	\$ -	\$ -	\$ -
FY 2022	\$ -	\$ -	\$ -
FY 2023	\$ -	\$ -	\$ -

**Status of Project**

Pre-construction activities, if funding is available.

**Estimated Completion Date**

FY 2070

**Project Name**

**WILMINGTON HARBOR DEEPENING, NEW HANOVER and BRUNSWICK COUNTIES**

**Description**

This project included deepening of Wilmington Harbor, the navigation channel in the Cape Fear River from Wilmington Harbor to the Atlantic Ocean. It also included the construction of a 200-foot widening of the Cape Fear River navigation channel for a distance of 6 miles (called a passing lane) and the construction of wideners at the major turns and bends of that Cape Fear channel. The deepening allows Wilmington Harbor to accommodate fully loaded container ships and other bulk cargo ships and keep shipping costs competitive with those at Norfolk, Charleston, and Savannah. The passing lane and wideners allow larger ships to navigate the Cape Fear River channel in less time and greater safety. The U.S. Congress funded a new start on this combined navigation project in 1997. This project also includes the construction of a long-term disposal site for materials dredged in the vicinity of the State Port. The raising of the dikes at Eagle Island will conclude this project. Currently project for 2017. Under the PPA, the State will begin to pay the deferred 10% of the project cost in 2018. Payments are currently estimated at \$2,723,000 for 30 years.

**Total Cost as of June 30, 2017**

Federal	State	Local	Total
\$ 270,676,589	\$ 88,978,315	\$ 1,345,000	\$ 360,999,904

**Estimated costs from 07/01/2017 through 06/30/2023**

	Federal	State	Local
Feasibility	\$ -	\$ -	\$ -
Construction	\$ -	\$ 13,615,000	\$ -
O & M	\$ -	\$ -	\$ -

	Federal	State	Local
FY 2018	\$ -	\$ -	\$ -
FY 2019	\$ -	\$ 2,723,000	\$ -
FY 2020	\$ -	\$ 2,723,000	\$ -
FY 2021	\$ -	\$ 2,723,000	\$ -
FY 2022	\$ -	\$ 2,723,000	\$ -
FY 2023	\$ -	\$ 2,723,000	\$ -

**Status of Project**

Eagle Island construction work scheduled through FY 2018, if funding is available

**Estimated Completion Date**

FY 2018, if funding is available.

**Project Name**

**WILMINGTON HARBOR MAINTENANCE DREDGING, 42 FT. PROJECT, NEW HANOVER AND BRUNSWICK COUNTIES**

**Description**

Maintenance dredging is required almost every year to keep open the channels from the Atlantic Ocean up the Cape Fear and Northeast Cape Fear rivers to Wilmington, Fayetteville, and other terminal points. The Federal government pays for the cost of dredging the sediments, while the state of North Carolina, the non-Federal sponsor, pays for the cost of dredged material disposal areas. Without this maintenance work, the exporting and importing of goods and commodities through the State Ports Authority terminal and numerous private terminals could not occur. The beach quality sand that is dredged from the navigation channel from the Atlantic Ocean to Wilmington is placed on the following beaches: Carolina Beach, Bald Head Island, Caswell Beach, and Oak Island.

**Total Cost as of June 30, 2017**

Federal	State*	Local	Total
\$ -	\$ 6,219,872	\$ -	\$ 6,219,872

\*State expenditures since 2001

**Estimated costs from 07/01/2017 through 06/30/2023**

	Federal	State	Local
Feasibility	\$ -	\$ -	\$ -
Construction	\$ -	\$ -	\$ -
O & M	\$ 87,239,000	\$ 1,000,000	\$ -

	Federal	State	Local
FY 2018	\$ 14,739,000	\$ -	\$ -
FY 2019	\$ 13,500,000	\$ 200,000	\$ -
FY 2020	\$ 14,000,000	\$ 200,000	\$ -
FY 2021	\$ 14,500,000	\$ 200,000	\$ -
FY 2022	\$ 15,000,000	\$ 200,000	\$ -
FY 2023	\$ 15,500,000	\$ 200,000	\$ -

**Status of Project**

Ongoing

**Estimated Completion Date**

N/A

**Project Name**

**WRIGHTSVILLE BEACH COASTAL STORM DAMAGE REDUCTION, NEW HANOVER COUNTY**

**Description**

This Corps of Engineers project is located at Wrightsville Beach, a barrier island about 5 miles east of Wilmington. The project provides both beach erosion and hurricane protection. It consists of a frontal dune at elevation 15-feet above mean low water and a beach berm at elevation 12-feet. The project was built to protect against hurricanes equal to that of October 15, 1954 (Hurricane Hazel). The Water Resources Development Act of 1986 provides for Federal participation in the renourishment of the project over its 50-year lifetime, until 2036. Renourishment normally occurs every four years. Limited reevaluation report to be generated in FY2016.

**Total Cost as of June 30, 2017**

Federal	State	Local	Total
\$ 17,650,001	\$ 5,362,308	\$ 2,796,308	\$ 25,808,617

**Estimated costs from 07/01/2017 through 06/30/2023**

	Federal	State	Local
Feasibility	\$ -	\$ -	\$ -
Construction	\$ 8,087,000	\$ 2,091,000	\$ 2,091,000
O & M	\$ -	\$ -	\$ -

	Federal	State	Local
0	\$ 3,737,000	\$ 1,014,000	\$ 1,014,000
0	\$ -	\$ -	\$ -
0	\$ -	\$ -	\$ -
0	\$ 350,000	\$ -	\$ -
0	\$ 4,000,000	\$ 1,077,000	\$ 1,077,000
0	\$ -	\$ -	\$ -

**Status of Project**

Next renourishment scheduled for FY 2018, if funding is available

**Estimated Completion Date**

FY 2036

**Proposed projects in USACE-Wilmington District**

**A. Continuing Authorities Programs**

Projects that are funded through the Continuing Authorities Program include: Section 204 (Beneficial use of dredged material), Section 206 (Restoration of aquatic ecosystems). These two sections have been authorized by the U.S. Congress and are annually funded by section. Projects that are "named" by the U.S. Congress receive priority for funding within that section. The Corps allocates funding to named projects first before unnamed projects.

Section	Project Name	Type	Estimated Cost		
			Federal	State	Local
204	Brandt Island, NC	Beneficial use of dredged material	\$ 3,140,000	\$ 1,610,000	TBD
204	Manteo Old House Channel, Dare County *	Oyster reef creation from dredge spoils	\$ 2,728,000	\$ 1,173,000	TBD
206	Gum Thicket Creek Restoration, Oriental, Pamlico County	Marsh creation, Shoreline stabilization	\$ 1,485,000	\$ 915,000	TBD
206	NC Oyster Habitat Restoration	Oyster habitat restoration	\$ 1,305,000	\$ 695,000	TBD
206	Gooch's Mill Dam Removal, Granville Co, NC	Dam removal to restore fish migration	\$ 573,000	\$ 278,000	TBD
206	Monkey Island Restoration, NC	Habitat creation, shoreline stabilization	\$ 885,000	\$ 455,000	TBD
206	NC Fish Passage and Dam Removals, NC	Dam removals to restore fish migration	\$ 2,575,000	\$ 1,425,000	TBD
206	Northern Currituck Sound SAV and Marsh Restoration, NC	Habitat restoration	\$ 1,825,000	\$ 975,000	TBD
206	Southern Currituck Sound SAV and Marsh Restoration, NC	Habitat restoration	\$ 1,825,000	\$ 975,000	TBD

\* Federal funds have been allocated for this project. Project have not been initiated, details can be found on page 14

**B. General Investigations**

Section 216 grants the Corps the authority to reevaluate existing Corps projects. The Corps can conduct reconnaissance and feasibility studies under Sec. 216, but authorization from the U.S. Congress is required for any construction activities.

Status	Project Name	Study Subject	Estimated Cost		
			Federal	State	Local
Inactive FY18, no funding	AIWW - Snows Cut, New Hanover County	Salt water intrusion to Cape Fear River estuary	\$ 1,300,000	\$ 600,000	\$ 600,000
Inactive FY18, no funding	Bald Head Island, NC	Shore protection	\$ 1,600,000	\$ 750,000	\$ 750,000
Inactive FY18, no funding	Cape Fear Above Wilmington, NC	Deauthorization of L&D 1,2 & 3	\$ 1,600,000	\$ 750,000	\$ 750,000

**C. Construction Projects**

Federally authorized construction project for which no Federal funding has been appropriated

Status	Project Name	Study Subject	Estimated Cost		
			Federal	State	Local
Inactive FY18, no funding	Brunswick County Beaches – Oak Island, Caswell and Holden Beachs (GRR)	Shore protection	\$ 37,650,000	\$ 9,430,000	\$ 9,430,000
Inactive FY18, no funding	Dare County Beaches	Shore protection	\$ 50,000,000	\$ 13,461,500	\$ 13,461,500



**B. Project Information, Category 3, Water Resources Development Projects for Which Grant Applications Have Been Submitted Under Part 8 of Article 21 of Chapter 143 of the General Statutes**

Priority project application status is as of June 1, 2017 and subject to change if any additional submittals are made prior to July 1, 2017 grant application deadline.

<b>Project Name</b>	<b>Page No.</b>
Sparta Bioretention Cell	21
Avery County Aquatics Complex	21
Cape Fear Lock & Dam #2 & #3 Fish Ramps	21
Woodfin Blueway & Greenway	21
Kunz Farm Park Riverwalk	22
Pinebridge Inn Stormwater Improvements	22
North Topsail Beach Shoreline Protection – Phase II	22
Eastern NC Stream Debris Removal	22
Middle Fork Greenway-Section 4	23
Ray-Cort Park Stream & Stormwater Improvements	23

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<b><u>Project Name</u></b>	<b><u>Project Sponsor</u></b>	<b><u>County</u></b>
Sparta Bioretention Cell	Alleghany County SWCD	Alleghany

**Description**

This grant would provide financial assistance to Alleghany County Soil & water Conservation District for construction of a stormwater bio-retention cell.

<b><u>Estimated Cost in FY 2018 (if funded)</u></b>			<b><u>Cost to June 30, 2017</u></b>			<b><u>State Funding Source</u></b>
State	Local	Total	State	Local	Total	G.S. 143-215.71
TBD	TBD	\$ -	\$ -	\$ -	\$ -	

<b><u>Status of Project</u></b>	<b><u>Est. Completion Date</u></b>
Partial application received. Grant manager working with applicant to finalized project scope and budget. Project will be considered for funding during reveiw for fall 2017 grant award.	TBD

<b><u>Project Name</u></b>	<b><u>Project Sponsor</u></b>	<b><u>County</u></b>
Avery County Aquatics Complex	Avery County	Avery

**Description**

This grant would provide financial assistance to Avery County for construction of a stormwater LID demonstration project including an infiltration basins, bio-retention cells, permeable pavement systems, vegetative treatment bioswales, rain gardens & a rain water harvesting system.

<b><u>Estimated Cost in FY 2018 (if funded)</u></b>			<b><u>Cost to June 30, 2017</u></b>			<b><u>State Funding Source</u></b>
State	Local	Total	State	Local	Total	G.S. 143-215.71
TBD	TBD	\$ -	\$ -	\$ -	\$ -	

<b><u>Status of Project</u></b>	<b><u>Est. Completion Date</u></b>
Partial application received. Grant manager working with applicant to finalized project scope and budget. Project will be considered for funding during reveiw for fall 2017 grant award.	TBD

<b><u>Project Name</u></b>	<b><u>Project Sponsor</u></b>	<b><u>County</u></b>
Cape Fear Lock & Dam #2 Fish Ramp	Bladen County	Bladen

**Description**

This grant would provide financial assistance to Bladen County for construction of a fish ramp at Lock & Dam #2 & #3

<b><u>Estimated Cost in FY 2018 (if funded)</u></b>			<b><u>Cost to June 30, 2017</u></b>			<b><u>State Funding Source</u></b>
State	Local	Total	State	Local	Total	G.S. 143-215.71
\$ 1,590,000	\$ 6,410,000	\$ 8,000,000	\$ -	\$ -	\$ -	

<b><u>Status of Project</u></b>	<b><u>Est. Completion Date</u></b>
Water Resources Development Grant Application under consideration for funding. Project recommended to Governor for funding.	TBD

<b><u>Project Name</u></b>	<b><u>Project Sponsor</u></b>	<b><u>County</u></b>
Woodfin Blueway & Greenway	Town of Woodfin	Buncombe

**Description**

This grant would provide financial assistance to the Town of Woodfin for construction of a Whitewater Wave structure in the French Broad River.

<b><u>Estimated Cost in FY 2018 (if funded)</u></b>			<b><u>Cost to June 30, 2017</u></b>			<b><u>State Funding Source</u></b>
State	Local	Total	State	Local	Total	G.S. 143-215.71
TBD	TBD	\$ -	\$ -	\$ -	\$ -	

<b><u>Status of Project</u></b>	<b><u>Est. Completion Date</u></b>
Partial application received. Grant manager working with applicant to finalized project scope and budget. Project will be considered for funding during reveiw for fall 2017 grant award.	TBD

<u>Project Name</u>	<u>Project Sponsor</u>	<u>County</u>
Kunz Farm Park Riverwalk	Henderson County	Henderson

**Description**

This grant would provide financial assistance to Henderson County to construct 1/3 mile scenic riverwalk and pedestrian bridge.

<u>Estimated Cost in FY 2018 (if funded)</u>			<u>Cost to June 30, 2017</u>			<u>State Funding Source</u>
State	Local	Total	State	Local	Total	
\$ 250,000	\$ 250,000	\$ 500,000	\$ -	\$ -	\$ -	G.S. 143-215.71

<u>Status of Project</u>	<u>Est. Completion Date</u>
Water Resources Development Grant Application under consideration for funding. Project recommended to Governor for funding.	TBD

<u>Project Name</u>	<u>Project Sponsor</u>	<u>County</u>
Pinebridge Inn Stormwater Improvements	Mayland Community College	Mitchell

**Description**

This grant would provide financial assistance to Mayland Community College for retrofitting of roof runoff piping and installation of three bioretention cells.

<u>Estimated Cost in FY 2018 (if funded)</u>			<u>Cost to June 30, 2017</u>			<u>State Funding Source</u>
State	Local	Total	State	Local	Total	
TBD	TBD	\$ -	\$ -	\$ -	\$ -	G.S. 143-215.71

<u>Status of Project</u>	<u>Est. Completion Date</u>
Partial application received. Grant manager working with applicant to finalized project scope and budget. Project will be considered for funding during review for fall 2017 grant award.	TBD

<u>Project Name</u>	<u>Project Sponsor</u>	<u>County</u>
North Topsail Beach Shoreline Protection – Phase II	Town of North Topsail Beach	Onslow

**Description**

This grant would provide financial assistance to the Town of North Topsail Beach for Phase II of the towns five phase shoreline protection project.

<u>Estimated Cost in FY 2018 (if funded)</u>			<u>Cost to June 30, 2017</u>			<u>State Funding Source</u>
State	Local	Total	State	Local	Total	
\$ 1,500,000	\$ 5,000,000	\$ 6,500,000	\$ -	\$ -	\$ -	G.S. 143-215.71

<u>Status of Project</u>	<u>Est. Completion Date</u>
Water Resources Development Grant Application under consideration for funding. Project recommended to Governor for funding.	TBD

<u>Project Name</u>	<u>Project Sponsor</u>	<u>County</u>
Eastern NC Stream Debris Removal	NC DACS - DSWC	Various

**Description**

This grant would provide financial assistance to the NC Division of Soil & Water Conservation to continue stream debris removal projects in various counties in eastern NC

<u>Estimated Cost in FY 2018 (if funded)</u>			<u>Cost to June 30, 2017</u>			<u>State Funding Source</u>
State	Local	Total	State	Local	Total	
\$ 1,000,000	\$ -	\$ 1,000,000	\$ -	\$ -	\$ -	G.S. 143-215.71

<u>Status of Project</u>	<u>Est. Completion Date</u>
Water Resources Development Grant Application under consideration for funding. Project recommended to Governor for funding.	TBD

<u>Project Name</u>	<u>Project Sponsor</u>	<u>County</u>
Middle Fork Greenway-Section 4	Watauga County	Watauga

**Description**

This grant would provide financial assistance to Watauga County for construction of greenway from Tweetsie Railroad to Goldmine Branch Park.

<u>Estimated Cost in FY 2018 (if funded)</u>			<u>Cost to June 30, 2017</u>			<u>State Funding Source</u>
State	Local	Total	State	Local	Total	
TBD	TBD	\$ -	\$ -	\$ -	\$ -	G.S. 143-215.71

**Status of Project**

Partial application received. Grant manager working with applicant to finalized project scope and budget. Project will be considered for funding during reveiew for fall 2017 grant award.

<u>Est. Completion Date</u>
TBD

<u>Project Name</u>	<u>Project Sponsor</u>	<u>County</u>
Ray-Cort Park Stream & Stormwater Improvements	Yancey County	Yancey

**Description**

This grant would provide financial assistance to Yancey County for construction of raingarden to retrofit existing catch basin, grass swale, and stream stabilizations.

<u>Estimated Cost in FY 2018 (if funded)</u>			<u>Cost to June 30, 2017</u>			<u>State Funding Source</u>
State	Local	Total	State	Local	Total	
TBD	TBD	\$ -	\$ -	\$ -	\$ -	G.S. 143-215.71

**Status of Project**

Partial application received. Grant manager working with applicant to finalized project scope and budget. Project will be considered for funding during reveiew for fall 2017 grant award.

<u>Est. Completion Date</u>
TBD

- C. Project Information, Category 4, Water Resources Development Projects for which grant applications have been submitted under Article 4 of Chapter 139 of the General Statutes.**

None at this time

- D. Project Information, Category 5, Water Resources Development Projects planned as federal reservoir projects but for which no federal funds are scheduled and for which Local Governments are seeking financial assistance.**

None at this time

## APPENDIX

### Part 8A. Water Resources Development Plan.

#### **§ 143-215.73A. Water Resources Development Plan.**

(a) Plan prepared. – Before 1 July in each calendar year, the Department of Environment and Natural Resources shall prepare a statewide plan for water resources development projects for a period of six years into the future. The plan shall be known as the Water Resources Development Plan. If the plan differs from the Water Resources Development Plan adopted for the preceding calendar year, the Department shall indicate the changes and the reasons for such changes. The Department shall submit the plan to the Director of the Budget for review.

(b) Projects listed. – The plan shall list the following water resources development projects based on their status as of 1 May of the year in which the plan is prepared:

- (1) Projects approved by the Congress of the United States.
- (2) Projects for which the Congress of the United States has appropriated funds.
- (3) Projects for which grant applications have been submitted under Part 8 of Article 21 of Chapter 143 of the General Statutes.
- (4) Projects for which grant applications have been submitted under Article 4 of Chapter 139 of the General Statutes.
- (5) Projects planned as federal reservoir projects but for which no federal funds are scheduled and for which local governments are seeking State financial assistance.

(c) Project priorities and funding recommendations. – The Department shall assign a priority to each project within each of the five categories listed under subsection (b) of this section either by giving the project a number, with "1" assigned to the highest priority, or by recommending no funding. The Department shall state its reasons for recommending the funding, deferral, or elimination of a project. The Department shall determine the priority of a project based on the following criteria: local interest in the project, the cost of the project to the State, the benefit of the project to the State, and the environmental impact of the project.

(d) Project information. – For each project listed under subsection (b) of this section, the Water Resources Development Plan shall:

- (1) Provide a brief description.
- (2) If federal, list the estimated cost of each of the following phases that have not been completed as of 1 July, (i) feasibility study, (ii) construction, (iii) operation and maintenance, and the amount of State funds required to match the federal funds needed.
- (3) If State or local, list the estimated cost to complete the project and amount of State funds required under G.S. 143-215.71 or G.S. 139-54.
- (4) Indicate the total cost to date and the State share of that cost.
- (5) Indicate the status.
- (6) Indicate the estimated completion date.

(e) Distribution of the plan. – The Director of the Budget shall provide copies of the plan to the members of the Advisory Budget Commission when the Advisory Budget Commission meets to deliberate on the biennial budget or on the revised budget for the second year of the biennium. The Director of the Budget shall also provide copies of the plan to the General Assembly along with the recommended biennial budget and the recommended revised budget for the second year of the biennium.

(f) Budget recommendations. – The Director of the Budget shall determine which projects, if any, will be included in the recommended biennial budget and in the recommended revised budget for the second year of the biennium. The budget document transmitted to the General Assembly shall identify the projects or types of projects recommended for funding. (1991, c. 181, s. 1; 1997-443,s11A.119(a).)

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