

Water Resources Development Plan

Fiscal Years 2009-2014



**Before, Kona Tressle
blocking the Toe River in
Yancey County**

**After, stream obstruction
removed**



**North Carolina
Department of Environment and Natural Resources**

Division of Water Resources

May 1, 2008

Water Resources Development Plan Fiscal Years 2009 – 2014

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Cover Photos: Stream Restoration project on the North Toe River, Yancey County. The abandoned Kona Tressel was vandalized and had collapsed into the river causing a significant obstruction and safety hazard. Project funded through the Water Resources Development Grant Program.

Project partners: Yancey County and N.C. Department of Environment and Natural Resources.

Photos courtesy: Jeff Bruton, NCDENR, Division of Water Resources.

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Water Resources Development Plan

Executive Summary

The Department of Environment and Natural Resources has prepared this statewide plan for water resources development projects. The plan lists projects for a six-year period, from July 1, 2008 through June 30, 2014, to give the Governor, the State Budget Director, members of the Advisory Budget Commission, 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 2007–2009 Biennium and whether DENR recommends it for funding, for deferral or for elimination. The final section contains specific information on each project as required.

The following tables show the projects DENR recommends for funding in FY 2008–2009. The Governor makes the final decision on which of these water resources development projects will be included in the proposed capital budget that he sends to the 2008 Session of the North Carolina General Assembly.

**Water Resources Development Project Priorities
FY 2008-2009**

A. Corps of Engineers Projects

(Amounts in Thousands)

Priority	<u>Name of Project</u>	State	Federal	Local
1	Wilmington Harbor Deepening	\$3,000	\$29,000	0
2	Wilmington Harbor Maintenance	2,000	14,000	0
3	Morehead City Harbor	50	5,000	0
4	B. Everett Jordan Lake Water Supply Storage	200	0	0
5	Neuse River Basin Study	133	200	0
6	Manteo (Shallowbag) Bay Navigation	500	4,100	0
7	Currituck Sound Environmental Restoration Study	150	150	0
8	Planning Assistance to Communities	100	200	100
9	Bogue Banks Shore Protection Study	120	232	120
10	West Onslow Beach (Topsail Beach) Study	70	200	70
11	Belhaven Harbor Feasibility (Sec 1135)	52	225	13
12	Princeville Flood Control	88	500	0
13	Surf City / North Topsail Beach Study	100	200	100
14	N.C. International Port	500	700	0
15	Concord Stream Restoration - Cabarrus Co. (Sec. 206))	1,020	2,600	1,020
16	Wilson Bay Restoration (Sec 206)	931	2,850	466
	<u>Sub-Total =</u>	\$9,014	\$60,157	\$1,889

B. State-Local Projects

(Amounts in Thousands)

Priority	Name of Project	State	Local
1	Beach and Inlet Management Study	250	0
2	Dredging Contingency Fund	4,000	1,250
3	Aquatic Plant Control, Statewide and Lake Gaston	400	548
4	Topsail Beach Emergency Beach Fill	2000	7000
5	Cane River Dam Removal Feasibility Study	8	8
6	Dam Removal Projects - Statewide	500	0
7	Mountain-to-Sea (MTS) Trail State Park	500	0
8	Swannanoa River Restoration	20	10
9	Tar River Snagging	44	22
10	Riverview Acres Navigation	465	116
11	Steele's Mill Dam Removal Project, Hitchcock Creek	50	419
12	Bear Creek Drainage	65	33
13	Autryville Drainage Phase 2	165	83
14	Mill Creek Dredging Project Phase 3	320	80
15	Carolina Beach Water Management	1,900	950
16	Elm Grove Community Water Management	33	17
17	Pine Knoll Shores Dredging Phase 2	40	10
18	Walnut Creek Culvert	83	42
19	White Sulfur Springs Stream Restoration	45	48
20	Indian Grave Creek Restoration	166	83
21	Upper Sandy Creek Restoration Project Phase 3	299	197
22	Contentnea Creek Snagging	92	46
23	Upper Watauga River Restoration	168	84
24	Stewarts Creek Snagging	170	89
25	Goshen Swamp Snagging	265	136
26	Little Fork Creek Restoration	425	110
27	Onslow County Waterway Debris Removal Project Phase 3	78	39
28	Little River Restoration	546	274
29	Briar Creek Restoration	666	333
	<u>Sub-Total =</u>	\$13,763	\$12,027

C. Natural Resources Conservation Service Projects

(Amounts in Thousands)

Priority	<u>Name of Project</u>	<u>State</u>	<u>Federal</u>	<u>Local</u>
1	Deep Creek	\$5,444	\$4,100	\$5,444
2	Swan Quarter	250	3,600	250
	Sub-Total =	\$5,694	\$7,700	\$5,694

D. Locally Sponsored Federal Reservoir Projects

None

E. Summary of Project Costs

(Amounts in Thousands)

<u>Types of Projects</u>	<u>State</u>	<u>Federal</u>	<u>Local</u>
Corps of Engineers	\$14,147	\$50,284	\$1,327
State – Local	13,763	0	12,027
Natural Resources Conservation Service	5,694	7,700	5,694
Totals =	\$33,604	\$57,984	\$19,048

Federal Budget Information

President's FY 2008-2009 Budget

The President has proposed a \$59,823,000 budget for the projects in the table on page vi that are within the Wilmington District, Corps of Engineers, in the fiscal year beginning October 1, 2008 and ending September 30, 2009. The table on page vi also shows the “target” amount, which the amount is needed to keep projects moving ahead on schedule within the limits of the amount of work that the Corps can manage effectively.

The President's proposed budget for fiscal year 2009 zeros out all North Carolina beach protection feasibility studies, construction, and maintenance. The budget follows the new federal budget policy that prohibits most federal financial assistance for beach renourishment projects.

The President's proposed budget for fiscal year 2009 also provides very limited funds for the maintenance of shallow draft navigation channels, such as the Atlantic Intracoastal Waterway, Oregon Inlet and other inlet channels and small harbors. The Office of Management and Budget has adopted a policy of **not** funding the maintenance of these shallow draft channels despite their economic and safety importance to North Carolina.

The US Congress will complete work on the Federal budget in September or October. The US Congress considers the President's budget and usually adds more projects and funds to the President's recommendation. The amount actually appropriated by Congress will probably be between the amount in the President's budget and the “target” amount.

Navigation Projects in North Carolina

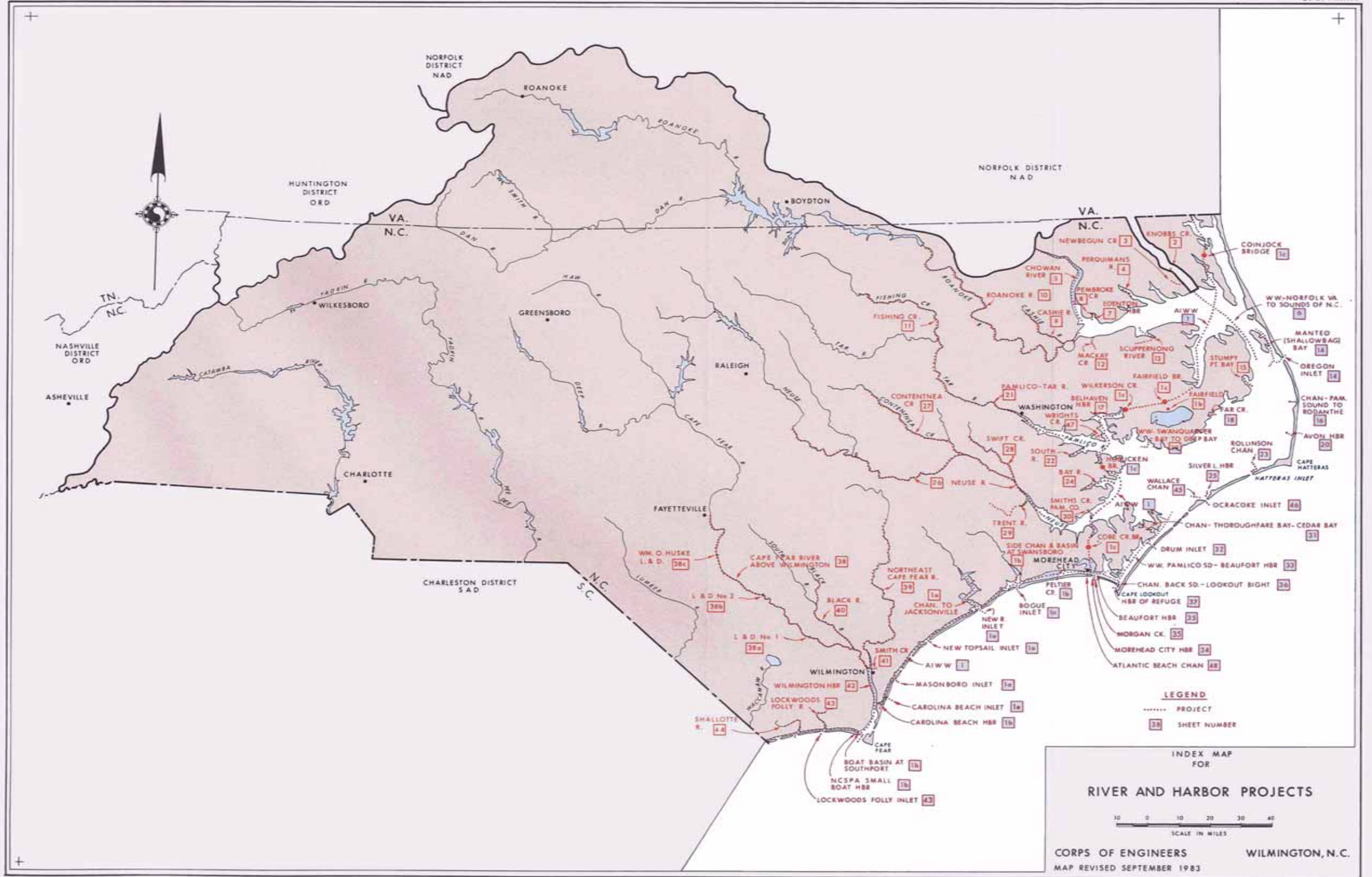
The Wilmington District is responsible for maintaining numerous navigation projects in North Carolina. These projects are shown on the map on page vii. Some of these projects require maintenance every year, some every other year, and some may go up to 3, 5, or 10 years or more without maintenance. All of these projects are important to North Carolina's economy.

**President's Budget for
Wilmington District, Corps of Engineers
Water Resources Development Projects
Fiscal Year 2008-2009**

(in thousands of dollars)

<u>Name of Project</u>	President's Budget	Target Amount
Atlantic Intracoastal Waterway Maintenance Dredging	\$900	\$9,900
B. Everett Jordan Lake O & M	1,564	2,132
Bald Head Island Shore Protection Study (Recon)	0	100
Beaufort Harbor Maintenance Dredging	0	750
Belhaven Harbor Feasibility Study (Sec 1135)	*	195
Bogue Banks Shore Protection Study	0	132
Bogue Inlet Maintenance Dredging	0	2,420
Brunswick Co Beaches – Ocean Isle	0	250
Brunswick Co Beaches GRR (Oak Island, Caswell, & Holden Beach)	0	300
Cape Fear River above Wilmington Maintenance Dredging	803	1,527
Carolina Beach Renourishment – Carolina Beach	0	320
Carolina Beach Renourishment – Carolina Beach South (Kure Beach)	0	308
Carolina Beach Inlet Maintenance Dredging	0	1,230
Concord Stream Restoration - Cabarrus Co. (Sec. 206))	*	2,930
Currituck Sound Environmental Restoration Study	150	400
Dare County Beaches (Bodie Island)	0	20,000
Deep Creek Watershed (P.L. 566)	*	5,500
Falls Lake O & M	1,770	2,260
Gum Thicket Creek (Oriental) (Sec. 205)	*	155
Inspection of Projects	250	250
John H. Kerr Dam & Reservoir (Sec 216)	300	300
John H. Kerr Dam & Reservoir Hydropower Rehab	14,000	14,000
John H. Kerr Dam & Reservoir O & M	12,083	15,827
Lockwoods Folly Inlet Maintenance Dredging	0	2,370
Manteo (Shallowbag) Bay Maintenance Dredging	4,100	14,300
Masonboro Inlet Maintenance Dredging	365	3,065
Morehead City Harbor Maintenance Dredging	5,000	12,910
NC International Port Study (Recon)	0	700
Neuse River Basin Study	200	400
New River Inlet Maintenance Dredging	800	3,600
New Topsail Inlet Maintenance Dredging	0	1,450
Project Condition Surveys	675	675
Rollinson Channel Maintenance Dredging	150	850
Silver Lake Harbor Maintenance Dredging	400	900
Surf City / North Topsail Beach Study	0	400
Swan Quarter Watershed (P.L. 566)	*	3,000
Walter Slough	*	541
W. Kerr Scott Reservoir O & M	3,313	9,371
West Cary Stream Restoration	*	104
West Onslow Beach (Topsail Beach) Study	0	400
Wilmington Harbor Deepening	0	29,000
Wilmington Harbor Maintenance Dredging	13,000	17,000
Wilson Bay Restoration	0	2,850
Wrightsville Beach Renourishment	0	300
Total =	\$59,823	\$185,372

* Projects of this type are not included as line items in the budget but are funded through a nationwide program budget



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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 Environment and Natural Resources submits the plan to the Governor each year by July 1. The Governor also provides copies of the plan to the General Assembly along with the his recommended biennial budget or the his recommended revised budget for the second year of the biennium.

D. Budget Recommendations

This report includes the recommendations of the Department of Environment and Natural Resources 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 Governor chooses which of these projects, if any, will be included in his 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 Governor identifies the water resources development projects recommended for funding.

II. Project Listing

A. Categories of Water Resources Projects

G.S. 143-215.73A(b) requires the Department of Environment and Natural Resources to list projects for a period of six years into the future under five separate categories. These categories are listed and described below.

1. *As of May 1, those Water Resources Development Projects Approved by Congress* - This category includes all projects specifically authorized by the U.S. Congress or authorized by a general authority that gives the Corps of Engineers the power to build or study such projects. These are shown in Table 1 in Part B below.

2. *As of May 1, those Water Resources Development Projects for Which Congress has Appropriated Funds* - This category includes those projects (1) approved by Congress, (2) those projects for which Congress has appropriated funds, and (3) those that are scheduled to be underway in the current fiscal year. These projects are listed in Table 2 in Part B below.

3. *As of May 1, those Water Resources Development Projects for Which Grant Applications have been Submitted Under Part 8 of Article 21 of Chapter 143 of the General Statutes* - This list includes all unfunded grant applications on hand with the Division of Water Resources for state cost-sharing of locally-sponsored water resources development projects. See Table 3 in Part B below. G.S. 143-215.70-.73 authorizes the Secretary, Department of Environment and Natural Resources to approve grants for the following purposes: general navigation, recreational navigation, water management, stream restoration, beach protection, water-based recreation, and aquatic weed control.

4. *As of May 1, those Water Resources Development Projects for Which Grant Applications have been Submitted Under Article 4 of Chapter 139 of the General Statutes* - This list includes all unfunded grant applications on hand with the Division of Soil and Water Conservation for P.L. 566 watershed projects. These projects usually involve funding from the U.S. Natural Resources Conservation Service, the state, and a local sponsor, usually a county Soil and Water Conservation District. The Soil and Water Conservation Commission sets priorities for funding each year. These projects are listed in Table 4 in Part B below.

5. *As of May 1, those 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* - This list includes federal reservoir projects that are no longer being actively planned by the Corps of Engineers and where two or more local governments are seeking to construct these projects. There are no projects listed in Table 5, shown in Part B below.

B. Project Lists

Tables 1-5 show the projects and funding proposed over the July 1, 2008 to June 30, 2014 time frame (state fiscal years 2008, 2009, 2010, 2011, 2012, 2013 and 2014). The projects are listed in alphabetical order.

Table 1: Water Resources Development Projects Approved by Congress

State Fiscal Year
(Amounts in Thousands)

Name of Project	Type	2008 - 2009		2009 - 2010		2010 - 2011		2011 - 2012		2012 - 2013		2013 - 2014	
		State	Federal	State	Federal	State	Federal	State	Federal	State	Federal	State	Federal
AIWW Snows Cut	Planning & Const.	0	0	0	100	150	300	200	400	150	300	0	400
Bald Head Island Beach Nourishment	Planning	0	0	0	100	250	500	250	500	250	500	0	0
Beaufort Harbor Maintenance Dredging	O&M (Dike Const.)	0	0	80	750	0	0	300	750	0	0	80	800
Belhaven Harbor Environmental Restoration (Sec. 1135)	Planning & Const.	52	195	612	2295	0	0	0	0	0	0	0	0
B. Everett Jordan Lake Water Supply Storage	Const.	200	0	200	0	200	0	200	0	200	0	200	0
Bogue Banks Beach Protection	Planning & Const.	120	352	50	250	75	500	12,114	30,000	12,114	30,000	12,114	30,000
Brunswick County Beaches (Oak Island, Caswell, Holden)	Const.	0	300	0	1,100	9,400	35,000	5,900	22,000	0	0	0	0
Carolina Beach Renourishment (New Hanover County)	Const. (Renourish.)	0	320	1,010	2,000	0	0	0	321	1,120	2,250	0	0
Carolina Beach-South Renourishment(Kure Beach) (New Hanover County)	Const. (Renourish.)	0	308	890	2,000	0	0	0	308	990	2,250	0	0
Concord Stream Restoration (Cabarrus County) (Sec. 206)	Planning & Const.	1,020	2,930	0	0	0	0	0	0	0	0	0	0
Currituck Sound Environmental Restoration	Planning & Const.	150	150	400	400	152	152	150	450	100	300	5,400	10,000
Dare County Beaches	Const.	8,100	20,000	16,200	40,000	6,060	15,000	0	0	0	0	0	0
Far Creek Maintenance Dredging	O&M	0	0	0	0	0	0	0	0	200	925	0	0
Gum Thicket Creek (Oriental) (Sec. 205)	Planning & Const.	55	155	660	985	15	25	15	25	112	310	0	0
John H. Kerr Dam and Reservoir (Sec. 216)	Planning & Const.	300	300	200	200	100	100	68	68	100	300	150	450
Manteo (Shallowbag) Bay Maintenance Dredging	O&M	500	4,100	50	7,800	500	8,000	50	8,300	500	8,600	50	8,900
Morehead City Harbor Dredging	O&M	50	5,000	500	10,000	50	6,900	500	10,000	50	7,400	500	10,000
Neuse River Basin	Planning & Const.	67	200	167	500	167	500	167	500	57	175	5,385	10,000
N.C. International Terminal, Southport, Brunswick County	Planning	500	700	550	550	550	550	550	550	350	350	0	0
North Carolina Oyster Habitat Restoration	Planning & Const.	0	0	30	130	30	560	10	20	10	20	10	20
Ocean Isle Beach Renourishment (Brunswick County)	Const.	0	250	1,211	3,000	0	0	0	300	1,413	3,500	0	0
Planning Assistance to North Carolina	Planning	75	200	75	200	75	200	75	200	75	200	75	200
Princeville Flood Control	Planning & Const.	0	0	175	325	87	163	7,000	13,000	0	0	0	0
Silver Lake Harbor (Ocracoke)	O&M	0	900	800	927	0	955	0	984	0	1,013	0	1,043
Surf City - North Topsail Beach Protection (Pender County)	Planning & Const.	100	200	220	500	122	279	10,500	26,000	10,500	26,000	0	0
Tar River Basin and Pamlico Sound	Planning	0	0	450	450	450	450	100	113	0	0	0	0
Walter Slough Dredging (Sec 107)	Const.	59	541	0	0	0	0	0	0	0	0	0	0
West Cary Stream Restoration (Wake County) (Sec. 206)	Const.	0	114	129	500	0	1,500	0	572	0	0	0	0
West Onslow Beach (Topsail Beach, Pender County)	Const.	80	200	120	300	8,100	20,000	0	0	0	0	0	0
White Oak River Basin	Planning	0	0	0	0	0	100	50	100	50	100	50	100
Wilmington Harbor 42-FT. Project	O&M	2000	13,000	200	14,500	200	15,000	200	15,450	200	15,900	200	16,350
Wilmington Harbor Deepening (Includes Eagle Island Disposal Site)	Const.	3000	11,000	11,300	34,000	7,000	23,000	6,700	18,000	0	0	0	0
Wilson Bay Restoration (Sec 206), Onslow County	Const.	931	2,850	0	20	0	20	0	22	0	0	0	0
Wrightsville Beach Renourishment (New Hanover Co.)	Const. (Renourishment.)	0	300	2,060	4,800	0	200	0	0	0	350	0	0
	Total	\$17,359	\$64,565	\$38,339	\$128,682	\$33,733	\$129,954	\$45,099	\$148,933	\$28,541	\$100,743	\$24,214	\$88,263

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Table 2
Water Resources Development Projects
For Which Congress Has Appropriated Funds
State Fiscal Year 2007-2008

(Amounts in Thousands)

<u>Name of Project</u>	<u>Federal</u>	<u>State</u>
AIWW Maintenance Dredging	\$5,494	\$2,012
Aquatic Plant Control Program, Lake Gaston, NC	512	200
B. Everett Jordan Dam and Lake O&M	1,681	0
Bogue Banks Protection Study	98	49
Bogue Inlet and Channel	0	0
Brunswick County Beaches Reevaluation	378	0
Cape Fear above Wilmington Maintenance Dredging	544	0
Carolina Beach Inlet	1,210	0
Currituck Sound	138	138
Falls Lake and Dam O&M	1,863	0
John H. Kerr (Major Rehabilitation)	12,792	0
John H. Kerr Dam and Reservoir Study (Section 216)	277	277
John H. Kerr Dam and Reservoir O&M	10,270	0
Lake Rogers, Creedmoor, NC (Sec. 22)	59	30
Lockwoods Folly River	458	0
Manteo (Shallowbag Bay) Maintenance Dredging	8,413	1,870
Masonboro Inlet and Connecting Channel	467	0
Morehead City Harbor Maintenance	5,088	0
Neuse River Basin Study	545	545
New River Inlet	462	0
New Topsail Inlet	841	0
Planning Assistance to Communities	200	100
Project Condition Surveys	625	0
Richmond County (Sec. 219)	295	0
Rollinson Channel Dredging	601	0
Silver Lake Harbor	832	0
Surf City/North Topsail Beach Protection Study	197	98
W. Kerr Scott Dam and Reservoir O&M	2,821	0
West Onslow Beach (Topsail Beach) Reanalysis	49	25
Wilmington Harbor Deepening Project	3,745	1,278
Wilmington Harbor Maintenance Dredging	10,362	0
Wrightsville Beach Nourishment	280	0
Total =	\$71,597	\$6,622

Table 4
Water Resources Development Projects
for Which Grant Applications have been Submitted
Under Article 4 of Chapter 139 of the General Statutes

(Amounts in Thousands)

<u>Name of Project</u>	<u>2008-09</u>	<u>2009-10</u>	<u>2010-11</u>	<u>2011-12</u>	<u>2012-13</u>	<u>2013-14</u>
Deep Creek	\$5,444	\$0	\$0	\$0	\$0	\$0
Swan Quarter	\$250	\$0	\$0	\$0	\$0	\$0
Total =	\$5,694	\$0	\$0	\$0	\$0	\$0

Table 5
Water Resources Development Projects
Planned as Federal Reservoir Projects
but for Which for no Federal Funds are Scheduled
and for Which Local Governments are Seeking State Financial Assistance

(None at this time)

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III. Priorities

A. Setting Priorities

G.S. 143-215.73A requires the Department of Environment and Natural Resources to assign a priority to each project within each of the five categories listed above, or to recommend no funding. Because of the uncertainty associated with projects planned three or more years ahead, priorities are given only to those projects scheduled for FY 2008-09. Priorities are not shown for projects in Category 2 (as of May 1, those water resources projects for which Congress has appropriated funds) because a decision on their funding has already been made.

The department set the priorities for these projects using the criteria specified in G.S. 143-215.73A:

- a) local interest in the project;
- b) cost of the project to the state;
- c) benefit of the project to the state; and
- d) environmental impact of the project.

Each project was evaluated for each of the criteria, these criteria scores were added, and then projects were ranked based on the total scores. For each project recommended for state funding, the department provides a reason for that recommendation. In certain cases, the department may recommend a funding amount that is different from what is shown in the project listing. The reason for that difference also is explained.

B. Project Priorities

Priorities for projects planned for FY 2008-2009 are shown in Tables 6, 7, 8, and 9.

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Table 6
Priority Recommendations for Water Resources Development Projects
Approved by Congress

A. Projects Recommended for Funding in FY 2008-2009

(Amounts in Thousands)

<u>Priority</u>	<u>Name of Project</u>	<u>State Funds Recommended</u>	<u>Reason</u>
1	Wilmington Harbor Deepening	\$3,000	Significant Navigation Benefits
2	Wilmington Harbor Maintenance	2,000	Significant Navigation Benefits
3	Morehead City Harbor	50	Significant Navigation Benefits
4	B. Everett Jordan Water Supply	200	Significant Water Supply Benefits
5	Neuse River Basin Study	133	Future Water Quality and Stream Habitat Benefits
6	Manteo (Shallowbag Bay)	500	Significant Navigation Benefits
7	Currituck Sound Water Management Study	150	Future Fishery and Water Quality Benefits
8	Planning Assistance to Communities	100	Flood Control and Stream Habitat Benefits
9	Bogue Banks Shore Protection Study	120	Future Beach Protection Benefits
10	West Onslow Beach (Topsail Island) Study	70	Future Beach Protection Benefits
11	Belhaven Harbor Feasibility	52	Significant Navigation Benefits
12	Princeville Flood Control	88	Future Flood Protection Benefits
13	Surf City / North Topsail Beach Study	100	Future Beach Protection Benefits
14	N.C. International Port	500	Significant Navigation, Economic Benefits
15	Concord Stream Restoration (Sec 206)	1,020	Future Water Quality and Stream Habitat Benefits
16	Wilson Bat Restoration (Sec 206)	931	Significant Navigation Benefits
	Sub-Total =	\$9,014	

**Table 6
Continued**

B. Projects Recommended for Deferral in FY 2008-2009

(None at this time)

C. Projects Recommended for Elimination in FY 2008-2009

(None at this time)

Table 7
Priority Recommendations for Water Resources Development Projects
For Which Local Governments Have Submitted
Grant Applications Under G.S. 143-215.71

A. Projects Recommended for Funding in FY 2008-2009

(Amounts in Thousands)

<u>Priority</u>	<u>Name of Project</u>	<u>State Funds Recommended</u>	<u>Reason</u>
1	Beach and Inlet Management Study	250	Beach Protection & Navigation Benefits
2	Dredging Contingency Fund	4,000	Navigation Benefits
3	Aquatic Plant Control, Statewide and Lake Gaston	400	Aquatic Habitat & Water Quality Benefits
4	Cane River Dam Removal Feasibility Study	8	Aquatic Habitat & Water Quality Benefits
5	Dam Removal Projects - Statewide	500	Aquatic Habitat & Water Quality Benefits
6	Mountain-to-Sea (MTS) Trail State Park	500	Recreational Benefits
7	Swannanoa River Restoration	20	Aquatic Habitat & Water Quality Benefits
8	Tar River Snagging	44	Flood Control & Drainage Benefits
9	Riverview Acres Navigation	465	Navigation and Water Quality Benefits
10	Steele's Mill Dam Removal Project, Hitchcock Creek	225	Aquatic Habitat & Water Quality Benefits
11	Bear Creek Drainage	65	Flood Control & Drainage Benefits
12	Autoryville Drainage Phase 2	165	Flood Control & Drainage Benefits
13	Mill Creek Dredging Project Phase 3	320	Navigation and Water Quality Benefits
14	Carolina Beach Water Management	1,900	Flood Control & Drainage Benefits
15	Elm Grove Community Water Management	33	Flood Control & Drainage Benefits
16	Pine Knoll Shores Dredging Phase 2	40	Navigation Benefits
17	Walnut Creek Culvert	83	Flood Control & Drainage Benefits
18	White Sulfur Springs Stream Restoration	45	Aquatic Habitat & Water Quality Benefits
19	Indian Grave Creek Restoration	166	Aquatic Habitat & Water Quality Benefits
20	Upper Sandy Creek Restoration Project Phase 3	299	Aquatic Habitat & Water Quality Benefits
21	Contentnea Creek Snagging	92	Flood Control & Drainage Benefits
22	Upper Watauga River Restoration	168	Aquatic Habitat & Water Quality Benefits
23	Stewarts Creek Snagging	170	Flood Control & Drainage Benefits
24	Goshen Swamp Snagging	265	Flood Control & Drainage Benefits
25	Little Fork Creek Restoration	425	Aquatic Habitat & Water Quality Benefits
26	Onslow County Waterway Debris Removal Project	78	Navigation & Recreational Benefits
27	Little River Restoration	546	Aquatic Habitat & Water Quality Benefits
28	Briar Creek Restoration	666	Aquatic Habitat & Water Quality Benefits
	Sub-Total =	\$11,938	

B. Projects Recommended for Deferral in FY 2008-2009

(None at this time)

C. **Projects Recommended for Elimination in FY 2008-2009**

(None at this time)

Table 8
Priority Recommendations for Water Resources Development Projects
For Which Grant Applications Have Been Submitted
Under G.S. 139-54

A. **Projects Recommended for Funding in FY 2008-2009**

(Amounts in Thousands)

<u>Priority</u>	<u>Name of Project</u>	<u>State Funds Recommended</u>	<u>Reason</u>
1	Deep Creek	\$5,444	Significant Water Supply and Flood Control Benefits
2	Swan Quarter	250	Significant Water Supply and Flood Control Benefits
	Sub-Total =	\$5,694	

B. **Projects Recommended for Deferral in FY 2008-2009**

(None at this time)

C. **Projects Recommended for Elimination in FY 2008-2009**

(None at this time)

Table 9
Priority Recommendations for Water Resources Development Projects
Planned as Federal Reservoir Projects but for Which Local Governments are
Seeking State Financial Assistance

A. **Projects Recommended for Funding in FY 2008-2009**

(None at this time)

B. **Projects Recommended for Deferral in FY 2008-2009**

(None at this time)

C. **Projects Recommended for Elimination in FY 2008-2009**

(None at this time)

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. This information includes the following:

- (1) Brief description;
- (2) a. Expenditures as of July 1, 2007, not including operation and maintenance costs;
b. Expenditures anticipated from July 1, 2007 through June 30, 2008;
- (3) Estimated costs from July 1, 2008, through June 30, 2014;
- (4) Source of State funds;
- (5) Status of project; and
- (6) Estimated completion date of construction phase.

Information for each project is presented on one page in alphabetical order by category.

Category 1 and 2	Pages 19 - 56
Category 3	Pages 57 - 88
Category 4	Pages 89 - 92
Category 5	Page 93

The initial page in each category contains a listing of the projects in that category and their page numbers. Additional project information can be obtained by contacting:

Division of Water Resources
N.C. Department of Environment and Natural Resources
1611 Mail Service Center
Raleigh, N.C. 27699-1611
(919) 733-4064

or by going to the Division of Water Resources Web site at <<http://www.ncwater.org/>> and by clicking Water Resources Development Plan under Reports and Publications and then by clicking on Fiscal Years 09-14.

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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, State Fiscal Year 2006-08.

<u>Project Name</u>	<u>Page No.</u>
Atlantic Intracoastal Waterway (Aiw) Maintenance Dredging	21
AIWW Snows Cut, New Hanover County	22
Bald Head Island Beach Renourishment, Brunswick County	23
Beaufort Harbor Maintenance Dredging, Dare County	24
Belhaven Harbor Environmental Improvements	25
B. Everett Jordan Lake Water Supply Storage	26
Bogue Banks Beach Protection	27
Brunswick County Beaches – Oak Island, Caswell and Holden Beaches	28
Carolina Beach Renourishment, New Hanover County	29
Carolina Beach South (Kure Beach) Renourishment, New Hanover County	30
Concord Stream Restoration, Cabarrus County, Section 206	31
Currituck Sound Environmental Restoration	32
Dare County Beaches	33
Far Creek Maintenance Dredging, Hyde County	34
Gum Thicket Creek Restoration, Oriental, Pamlico County, Section 206	35
John H. Kerr Dam and Reservoir Section 216 Study	37
Manteo Shallowbag Bay Maintenance Dredging, Dare County	38
Morehead City Harbor Dredging, Carteret County	39
Neuse River Basin Investigation	39
North Carolina International Terminal, Southport, Brunswick County	40
North Carolina Oyster Habitat Restoration	41

A. Project Information (Continued)

<u>Project Name</u>	<u>Page No.</u>
Ocean Isle Beach Renourishment, Brunswick County	42
Planning Assistance to North Carolina Communities	43
Princeville Flood Control Study	44
Silver Lake Harbor, Ocracoke, Hyde County	45
Surf City – North Topsail Beach Restoration, Pender County	46
Tar River Basin And Pamlico Sound	47
Walter Slough Navigation, Dare County	48
West Cary Stream Restoration, Wake County	49
West Onslow Beach – Topsail Beach, Pender County	50
White Oak River Basin Investigation	51
Wilmington Harbor 38-Ft. Project, New Hanover and Brunswick Counties	52
Wilmington Harbor Deepening, New Hanover and Brunswick Counties	53
Wilson Bay Restoration (Section 206), Onslow County	54
Wrightsville Beach Renourishment, New Hanover County	55

**Project Name: ATLANTIC INTRACOASTAL WATERWAY (AIWW)
MAINTENANCE DREDGING**

(1) 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. The past few years, however, 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 provided funds to the Wilmington District so that they could hire a dredging contractor to do the dredging. In Fiscal Year 2009, dredging of the following AIWW channels is needed: Lockwoods Folly Inlet and River Crossings, Shallotte Inlet and River Crossings, Snows Cut, Range 1 in Wilmington Harbor, and Southport Marina. The President's budget currently includes only \$900,000 for this dredging. As much as \$8,000,000 will be needed. The \$3,500,000 in State funds and \$500,000 in local funds will allow the Wilmington District to dredge the most severe shoals.

- (2) a. Expenditures as of 07/01/2007 (not including O&M costs):**
b. Expenditures anticipated from 07/01/2007 through 06/30/2008:

	Federal	State	Local	Total
a. \$				
b. \$				

(3) Estimated costs from 07/01/08 through 06/30/2014:

	Federal	State	Local
Feasibility Study \$			
Construction \$			
Operation and Maintenance \$	4,000,000	3,500,000	500,000

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14
Federal \$	4,000,000					
State \$	3,500,000					
Local \$	500,000					

(4) Source of State Funds:

G.S. 143-215.71 G.S. 139.54 Other _____

(5) Status of Project: Awaiting approval of federal and state funds.

(6) Estimated Completion Date of Construction Phase: NA

Project Name: AIWW-SNOW'S CUT SECTION 216 STUDY, NEW HANOVER COUNTY

(1) Description:

Construction of Snow's Creek Cut allowed salt water from Myrtle Grove Sound to enter the Cape Fear River estuary near its midpoint. This has had far reaching effects on the physical, chemical, and biological functioning of the estuary. High salt content has manifested itself with timber die-off, which is present throughout many of the freshwater swamps above Wilmington. In addition, it has resulted in increased current and projected future costs to industries in the upper estuary due to increased monitoring and modifications of their facilities in order to cope with increasing salt loads. Reduction in the amount of introduced salts, which serve to flocculate riverine sediments in the area, could also result in substantial reduction of maintenance dredging at Military Ocean Terminal Sunny Point. More study is needed on the salt water intrusion problem in the Cape Fear River estuary, of which Snow's Cut has a role.

(2) a. Expenditures as of 07/01/07 (not including O&M costs):

b. Expenditures anticipated from 07/01/07 through 06/30/08:

	Federal	State	Local	Total
a. \$				
b. \$				

(3) Estimated costs from 07/01/08 through 06/30/14:

	Federal	State	Local
Feasibility Study \$	1,000,000	1,000,000	
Construction \$	400,000		
Operation and Maintenance \$			

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14
Federal \$		100,000	300,000	400,000	300,000	400,000
State \$			300,000	400,000	300,000	
Local \$						

(4) Source of State Funds:

G.S. 143-215.71 G.S. 139.54 Other _____

(5) Status of Project:

A reconnaissance study will begin in FY 2010.

(6) Estimated Completion Date of Construction Phase: NA

Project Name: BALD HEAD ISLAND BEACH RENOURISHMENT, BRUNSWICK COUNTY

(1) Description:

The Village of Bald Head Island has requested that the Wilmington District, U.S. Army Corps of Engineers, perform a feasibility study on a shore protection project for the portions of its beach that are experiencing severe erosion. If directed by the U.S. Congress, the Wilmington District will perform a reconnaissance study, funded entirely with federal monies, in Fiscal Year 2010. If the reconnaissance study shows that there is a federal interest in doing this project, a cost-shared feasibility study will likely begin in Fiscal Year 2011.

(2) a. Expenditures as of 07/01/2007 (not including O&M costs):

b. Expenditures anticipated from 07/01/2007 through 06/30/2008:

	Federal	State	Local	Total
a. \$				
b. \$				

(3) Estimated costs from 07/01/08 through 06/30/2014:

	Federal	State	Local
Feasibility Study \$	1,500,000	750,000	750,000
Construction \$			
Operation and Maintenance \$			

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14
Federal \$		100,000	500,000	500,000	500,000	
State \$			250,000	250,000	250,000	
Local \$			250,000	250,000	250,000	

(4) Source of State Funds:

G.S. 143-215.71 G.S. 139.54 Other _____

(5) Status of Project: On hold, awaiting action by Congress

(6) Estimated Completion Date of Construction Phase: Unknown at this time.

Project Name: BEAUFORT HARBOR MAINTENANCE DREDGING, CARTERET COUNTY

(1) 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, has requested an 80 percent grant to help it pay for the dikes that need to be built in order to perform maintenance dredging.

- (2) a. Expenditures as of 07/01/07 (not including O&M costs):
 b. Expenditures anticipated from 07/01/07 through 06/30/08:

	Federal	State	Local	Total
a. \$				
b. \$				

(3) Estimated costs from 07/01/08 through 06/30/14:

	Federal	State	Local
Feasibility Study \$			
Construction \$			
Operation and Maintenance \$	2,300,000	460,000	105,000

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14
Federal \$		750,000		750,000		800,000
State \$		80,000		300,000		80,000
Local \$		20,000		75,000		20,000

(4) Source of State Funds:

G.S. 143-215.71 G.S. 139.54 Other _____

(5) Status of Project:

Next maintenance dredging will be done in FY10.

(6) Estimated Completion Date of Construction Phase: NA

**Project Name: BELHAVEN HARBOR ENVIRONMENTAL IMPROVEMENTS
(BEAUFORT COUNTY) (SECTION 1135)**

(1) Description:

The proposed project consists of a modification of the existing breakwaters that protect the harbor and waterfront of Belhaven, NC. The existing breakwaters consist of northern and southern structures, each about 1900 feet long, at the entrance to Pantego Creek, separated by a central 500 foot navigation opening. The existing structures have many openings that allow water to pass through with little abatement. The proposed modification will include removal of the aging chemically treated timber structures and replacement of those structures with concrete ones having the same basic design features. The proposed modification will also add submerged reefs in the lee (harbor side) of both breakwaters. These structures will serve to improve the estuarine habitat and also increase sheltering of the harbor from waves.

(2) a. Expenditures as of 07/01/07 (not including O&M costs):

b. Expenditures anticipated from 07/01/07 through 06/30/08:

	Federal	State	Local	Total
a. \$	100,000			100,000
b. \$	130,000	65,000	65,000	260,000

(3) Estimated costs from 07/01/08 through 06/30/14:

	Federal	State	Local
Feasibility Study \$	240,000		
Construction \$	2,490,000	664,000	323,000
Operation and Maintenance \$			

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14
Federal \$	195,000	2,295,000				
State \$	52,000	612,000				
Local \$	17,000	306,000				

(4) Source of State Funds:

G.S. 143-215.71 G.S. 139.54 Other _____

(5) Status of Project:

The Wilmington District plans to complete the feasibility study by the end of 2008 and start construction in 2009.

(6) Estimated Completion Date of Construction Phase: Spring of 2010

Project Name: B. EVERETT JORDAN LAKE WATER SUPPLY

(1) Description:

B. Everett Jordan Lake is a U.S. Army Corps of Engineers' multipurpose reservoir that became operational in 1983. The reservoir, located mostly in Chatham County, provides low-flow augmentation, flood control, recreation, fish and wildlife habitat and water supply. 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 – 32%; Chatham County – 6%; City of Durham – 10%; Town of Morrisville – 3.5%; and Wake County - RTP South – 3.5%; and Level II allocations: Town of Holly Springs – 2%; Orange County – 1%; and Orange Water & Sewer Authority – 5%. 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 (the principle), plus their share of the operation and maintenance and major rehabilitation cost. In addition, local government allocation holders using Jordan Lake water are also paying off the principle. The initial principle amount was \$4,388,000; as of May 1, 2008 the current balance is \$2,981,746.

- (2) a. *Expenditures as of 07/01/07 (not including O&M costs):*
 b. *Expenditures anticipated from 07/01/07 through 06/30/08:*

	Federal	State	Local	Total
a. \$				
b. \$		100,000		100,000

* P&I \$1,764,123; Additional Principle \$971,313

(3) Estimated costs from 07/01/08 through 06/30/14:

	Federal	State	Local
Feasibility Study \$			
Construction \$		600,000	1,500,000
Operation and Maintenance \$		600,000	600,000

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14
Federal \$						
State \$	200,000	200,000	200,000	200,000	200,000	200,000
Local \$	350,000	350,000	350,000	350,000	350,000	350,000

(4) Source of State Funds:

G.S. 143-215.71 G.S. 139.54 Other _____

(5) Status of Project:

Ongoing

(6) Estimated Completion Date of Construction Phase: NA

Project Name: BOGUE BANKS BEACH PROTECTION, CARTERET COUNTY

(1) 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 75 percent cost-sharing of the non-Federal cost of the beach nourishment project that would be done by the Corps of Engineers over the next six years. The Corps plans to complete the feasibility study in FY09, do preliminary engineering and design work in FY 10 and 11, and then do the nourishment of the beaches in FY 12, 13 and 14.

- (2) a. *Expenditures as of 07/01/07 (not including O&M costs):*
 b. *Expenditures anticipated from 07/01/07 through 06/30/08:*

	Federal	State	Local	Total
a. \$	1,852,000	872,000	872,000	3,596,000
b. \$	48,000	28,000	28,000	104,000

(3) Estimated costs from 07/01/08 through 06/30/14:

	Federal	State	Local
Feasibility Study \$	100,000	50,000	50,000
Construction \$			
Operation and Maintenance \$			

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14
Federal \$	100,000	250,000	500,000	30,000,000	30,000,000	30,000,000
State \$	50,000	50,000	75,000	12,114,000	12,114,000	12,114,000
Local \$	50,000	50,000	75,000	4,040,000	4,040,000	4,040,000

(4) Source of State Funds:

G.S. 143-215.71 G.S. 139.54 Other _____

(5) Status of Project:

The Corps is conducting a feasibility study that should be complete in FY 09. Preliminary engineering and design should begin in FY 10.

(6) Estimated Completion Date of Construction Phase: FY 2014

Project Name: BRUNSWICK COUNTY BEACHES – OAK ISLAND, CASWELL AND HOLDEN BEACHES

(1) Description:

This Corps of Engineer project will protect these beaches through the construction of continuous storm berms and dunes along their ocean shorelines. The Wilmington District is investigating what the most effective dimensions of these berms and dunes should be through the preparation of a General Re-evaluation Report (GRR). They hope to complete the GRR this Fiscal Year (2008). If that is the case, then initial construction would occur in Fiscal Year 2011, and re-nourishments would occur at three- to four-year intervals for the life of this project. The cost-sharing would initially be 65 percent Federal, 35 percent non-Federal, but then switch to 50 –50 for all re-nourishments. The costs shown below for construction and re-nourishments are general estimates.

- (2) a. Expenditures as of 07/01/07 (not including O&M costs):**
b. Expenditures anticipated from 07/01/07 through 06/30/08:

	Federal	State	Local	Total
a. \$	5,868,000	301,000		6,169,000
b. \$	378,000			378,000

(3) Estimated costs from 07/01/08 through 06/30/14:

	Federal	State	Local
Feasibility Study \$			
Construction \$	58,400,000	15,300,000	5,103,000
Operation and Maintenance \$			

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14
Federal \$	300,000	1,100,000	35,000,000	22,000,000		
State \$			9,400,000	5,900,000		
Local \$			3,133,000	1,970,000		

(4) Source of State Funds:

G.S. 143-215.71 G.S. 139.54 Other _____

(5) Status of Project:

Re-evaluation is expected to be completed in 2008; plans and specifications will be done in 2010, and initial beach nourishment is planned to occur in FY 2011 and 2012

(6) Estimated Completion Date of Construction Phase: April 30, 2060

Project Name: CAROLINA BEACH RENOURISHMENT, NEW HANOVER COUNTY

(1) 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).

The Town of Carolina Beach is the non-Federal sponsor of this project. It has requested 75 percent cost-sharing of the non-Federal cost of the project from the state, as allowed under G.S. 143-215.70-73. The town and New Hanover County will pay 25 percent.

- (2) a. *Expenditures as of 07/01/07 (not including O&M costs):*
 b. *Expenditures anticipated from 07/01/07 through 06/30/08:*

	Federal	State	Local	Total
a. \$	20,266,000	9,419,000	3,413,000	33,098,000
b. \$	0	0	0	0

(3) Estimated costs from 07/01/08 through 06/30/14:

	Federal	State	Local
Feasibility Study \$			
Construction \$	6,340,000	2,130,000	710,000
Operation and Maintenance \$			

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14
Federal \$	200,000	2,000,000		200,000	2,250,000	
State \$	90,000	920,000		90,000	1,030,000	
Local \$	30,000	307,000		30,000	343,333	

(4) Source of State Funds:

G.S. 143-215.71 G.S. 139.54 Other _____

(5) Status of Project:

Next renourishment is scheduled for the spring of 2010.

(6) Estimated Completion Date of Construction Phase: 2015

Project Name: CAROLINA BEACH SOUTH, NEW HANOVER COUNTY

(1) 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. It has requested 75 percent cost-sharing of the non-Federal cost of the project from the State, as allowed under G.S. 143-215.70-.73. The town and New Hanover County will pay 25 percent.

- (2) a. Expenditures as of 07/01/07 (not including O&M costs):**
b. Expenditures anticipated from 07/01/07 through 06/30/08:

	Federal	State	Local	Total
a. \$	14,609,000	5,628,000	2,074,000	22,311,000
b. \$	0	0	0	0

(3) Estimated costs from 07/01/08 through 06/30/14:

	Federal	State	Local
Feasibility Study \$			
Construction \$	4,650,000	1,882,000	627,000
Operation and Maintenance \$			

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14
Federal \$	200,000	2,000,000		200,000	2,250,000	
State \$	80,000	810,000		81,000	910,000	
Local \$	27,000	270,000		27,000	303,000	

(4) Source of State Funds:

G.S. 143-215.71 G.S. 139.54 Other _____

(5) Status of Project:

The next beach nourishment will be in the spring of 2010.

(6) Estimated Completion Date of Construction Phase: 2047

**Project Name: CONCORD STREAM RESTORATION (SECTION 206),
CABARRUS COUNTY**

(1) 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 proposed 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.

- (2) a. Expenditures as of 07/01/07 (not including O&M costs):**
b. Expenditures anticipated from 07/01/07 through 06/30/08:

	Federal	State	Local	Total
a. \$	175,000			
b. \$	376,000	188,000	188,000	752,000

(3) Estimated costs from 07/01/08 through 06/30/14:

	Federal	State	Local
Feasibility Study \$	2,930,000	1,020,000	510,000
Construction \$			
Operation and Maintenance \$			

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14
Federal \$	2,930,000					
State \$	1,020,000					
Local \$	510,000					

(4) Source of State Funds:

G.S. 143-215.71 G.S. 139.54 Other _____

(5) Status of Project:

Feasibility study is complete. Construction will begin in FY 2009, if funding is available.

(6) Estimated Completion Date of Construction Phase: 2010

Project Name: CURRITUCK SOUND ENVIRONMENTAL RESTORATION

(1) Description:

Currituck Sound is a 153 square mile brackish water estuary separated from the Atlantic Ocean by the Outer Banks. A recent increase in salinity levels has caused a severe decline in many freshwater fisheries (largemouth bass, black crappie, and bluegill). Also, there has been a significant loss of submerged aquatic vegetation. The Corps, in partnership with the State of North Carolina has begun an investigation to determine the specific causes of the decline in species mentioned above and the necessary actions to restore the Sound. If the study finds a feasible solution, implementation would begin in FY 12. Elizabeth City State University, the North Carolina Estuarine Research Reserve and the UNC-CH Institute of Marine Sciences are under contract to collect and process data and water quality samples for this study. The U.S. Geological Service has also completed water quality models of two watersheds, Tull Creek and West Neck Creek, which flow into Currituck Sound.

(2) a. Expenditures as of 07/01/07 (not including O&M costs):

b. Expenditures anticipated from 07/01/07 through 06/30/08:

	Federal	State	Local	Total
a. \$	510,000	484,000		944,000
b. \$	138,000	138,000		276,000

(3) Estimated costs from 07/01/08 through 06/30/14:

	Federal	State	Local
Feasibility Study \$	702,000	702,000	
Construction \$	10,750,000	5,650,000	
Operation and Maintenance \$			

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14
Federal \$	150,000	400,000	152,000	450,000	300,000	10,000,000
State \$	150,000	400,000	152,000	150,000	100,000	5,400,000
Local \$						

(4) Source of State Funds:

G.S. 143-215.71 G.S. 139.54 Other _____

(5) Status of Project:

Feasibility study is on-going.

(6) Estimated Completion Date of Construction Phase: 2014

Project Name: DARE COUNTY BEACHES

(1) Description:

The Corps of Engineers has completed a detailed feasibility study of a 20-mile long section of beach from the northern limits of Dare County to just south of Nags Head. The area, which is largely developed, has experienced erosion and damages as a result of recent storms and hurricanes. The study has located sand sources that could be used for beach nourishment. The Corps recommends that the initial nourishment be done on approximately 13.5 miles of beach in three phases over a three-year period. Dare County is requesting 75 percent cost-sharing of the non-Federal project costs from the State of North Carolina. The design cost-sharing agreement between Dare County and the Corps of Engineers was signed in July 2001. The project cooperation agreement was executed in September 2004. The lack of Federal funding has delayed the start of the project. Project is currently on hold.

- (2) a. Expenditures as of 07/01/07 (not including O&M costs):**
b. Expenditures anticipated from 07/01/07 through 06/30/08:

	Federal	State	Local	Total
a. \$	4,169,000	242,000	81,000	4,492,000
b. \$				

(3) Estimated costs from 07/01/08 through 06/30/14:

	Federal	State	Local
Feasibility Study \$			
Construction \$	75,000,000	30,360,000	10,120,000
Operation and Maintenance \$			

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14
Federal \$	20,000,000	40,000,000	15,000,000			
State \$	8,100,000	16,200,000	6,060,000			
Local \$	2,700,000	5,400,000	2,020,000			

(4) Source of State Funds:

G.S. 143-215.71 G.S. 139.54 Other _____

(5) Status of Project:

Preliminary engineering and design is on hold.

(6) Estimated Completion Date of Construction Phase: N/A

Project Name: FAR CREEK MAINTENANCE DREDGING, HYDE COUNTY

(1) 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 requesting an 80 percent cost-sharing grant from the State of North Carolina. The county, with assistance from the state, raised the dikes of the disposal site during the fall of 2007 so that the Wilmington District can perform maintenance dredging in the fall of 2008. The next maintenance dredging of the channel is expected to be required in FY 2013.

- (2) a. Expenditures as of 07/01/07 (not including O&M costs):**
b. Expenditures anticipated from 07/01/07 through 06/30/08:

	Federal	State	Local	Total
a. \$				
b. \$		180,000	36,000	216,000

(3) Estimated costs from 07/01/08 through 06/30/14:

	Federal	State	Local
Feasibility Study \$			
Construction \$			
Operation and Maintenance \$	925,000	200,000	50,000

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14
Federal \$					925,000	
State \$					200,000	
Local \$					50,000	

(4) Source of State Funds:

G.S. 143-215.71 G.S. 139.54 Other _____

(5) Status of Project: The Wilmington District of the Corps will hire a contractor that will maintain the Far Creek Channel in the Fall of 2008.

(6) Estimated Completion Date of Construction Phase: NA

Project Name: GUM THICKET CREEK RESTORATION, ORIENTAL, PAMLICO COUNTY (SECTION 206)

(1) Description:

This project will protect Gum Thicket Creek including 180 acres of brackish marsh and associated wetlands under conservation easements. It will stop erosion that is progressively removing the physical and hydrologic barrier between the Neuse River and Gum Thicket Creek which if not stopped will destroy the natural ecology and hydrology of the area. This project will also provide a net increase in habitat value through the creation, restoration, improvement, of the marsh wetlands and estuarine environment. The proposed construction of 7 acres of marsh and improved shallow water habitat will replace wetlands lost to recent erosion and restore a more natural hydrology to approximately 180 acres of conservation land including a brackish estuarine creek, and associated coastal marsh and submerged aquatic vegetation (SAV). A 3,800-foot long rock sill will be aligned parallel to, and approximately 50 feet away from the shoreline, to facilitate project construction and development and to provide long-term protection from future wave erosion.

(2) a. Expenditures as of 07/01/07 (not including O&M costs):

b. Expenditures anticipated from 07/01/07 through 06/30/08:

	Federal	State	Local	Total
a. \$				
b. \$				

(3) Estimated costs from 07/01/08 through 06/30/14:

	Federal	State	Local
Feasibility Study \$			
Construction \$	1,500,000	857,000	
Operation and Maintenance \$			

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14
Federal \$	150,000	985,000	25,000	25,000	310,000	
State \$	55,000	660,000	15,000	15,000	112,000	
Local \$						

(4) Source of State Funds:

G.S. 143-215.71 G.S. 139.54 Other _____

(5) Status of Project:

On hold, awaiting Federal funding.

(6) Estimated Completion Date of Construction Phase: July 2011, if funded in FY 2010

Project Name: JOHN H. KERR DAM AND RESERVOIR, NC & VC SECTION 216 STUDY

(1) Description:

John H. Kerr Reservoir is operated by the Corps of Engineers for flood control, by hydropower, recreation, and water releases to enhance striped bass spawning in the Roanoke River. The storage and release of water at Kerr Dam affects agriculture, forestry, wildlife, water quality, and industrial water use in the entire lower Roanoke Basin. The State of North Carolina, the Commonwealth of Virginia, and the Corps of Engineers are sponsoring a study of the operation of Kerr Lake to see if the economic and environmental benefits from the lake can be increased. At the end of the study it is anticipated that both structural and non-structural measures will be taken to improve the operation of John H. Kerr Dam. Preliminary engineering and design of these measures would begin in FY 2013.

- (2) a. *Expenditures as of 07/01/07 (not including O&M costs):*
 b. *Expenditures anticipated from 07/01/07 through 06/30/08:*

	Federal	State*	Local	Total
a. \$	1,405,000	1,230,000		2,635,000
b. \$	277,000	277,000		554,000

*Includes Commonwealth of Virginia contributions.

(3) Estimated costs from 07/01/08 through 06/30/14:

	Federal	State	Local
Feasibility Study \$	668,000	668,000	
Construction \$	750,000	250,000	
Operation and Maintenance \$			

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14
Federal \$	300,000	200,000	100,000	68,000	300,000	450,000
State \$	300,000	200,000	100,000	68,000	100,000	150,000
Local \$						

(4) Source of State Funds:

G.S. 143-215.71 G.S. 139.54 Other _____

(5) Status of Project:

The feasibility study began in April 2003 and will run until FY 2012.

(6) Estimated Completion Date of Construction Phase: NA

Project Name: MANTEO (SHALLOWBAG BAY) MAINTENANCE DREDGING, DARE COUNTY

(1) Description:

As part of the maintenance dredging of the navigation channel going from Oregon Inlet to Wanchese Harbor, the Corps of Engineers must provide environmentally sound spoil disposal sites. As the non-Federal sponsor of this channel, the state is required to pay for preparation of the spoil disposal sites, which involves the raising of dikes around a spoil disposal island (Island H). The Corps pays for 100% of the dredging costs. 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. In 2008-09, the state plans to perform maintenance on a portion of the channel from Wanchese to Manteo.

- (2) a. *Expenditures as of 07/01/07 (not including O&M costs):*
 b. *Expenditures anticipated from 07/01/07 through 06/30/08:*

	Federal	State	Local	Total
a. \$				
b. \$	7,855,000	500,000		8,355,000

(3) Estimated costs from 07/01/08 through 06/30/14:

	Federal	State	Local
Feasibility Study \$			
Construction \$			
Operation and Maintenance \$	71,100,000	900,000	

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14
Federal \$	4,100,000	7,800,000	8,000,000	8,300,000	8,600,000	8,900,000
State \$		350,000	50,000	50,000	50,000	50,000
Local \$						

(4) Source of State Funds:

G.S. 143-215.71 G.S. 139.54 Other _____

(5) Status of Project:

In 2008, the State will perform maintenance dredging of shoals in the Manteo to Wanchese Channel south of the Washington Baum Bridge.

(6) Estimated Completion Date of Construction Phase: NA

Project Name: MOREHEAD CITY HARBOR DREDGING, CARTERET COUNTY

(1) 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 sandy material from the inner channel and harbor area has been pumped to the Brandt Island disposal area. Every 8 to 10 years the sand in Brandt Island is pumped to Atlantic Beach and Fort Macon. In FY 2003-04 the municipalities of Bogue Banks, Carteret County, the State of North Carolina, and the Corps of Engineers completed the first part of a one-time sand management plan, which was called the Morehead City Harbor Section 933 Project. Under this plan sand from the outer channels was hopper dredged and then pumped ashore to nourish Indian Beach, Salter Path and part of Pine Knoll Shores and sand from Brandt Island and the inner harbor will be pipeline dredged to beaches at Fort Macon, Atlantic Beach, and the remainder of Pine Knoll Shores. The outer channel dredging was completed in March of 2004; the inner channel and Brandt Island dredging was completed in the winter of 2004-05. Because the sand in Brandt Island was finer than planned, it only nourished Fort Macon and a portion of Atlantic Beach. In the spring of 2007 the Corps used hopper-dredged sand dredged from the entrance channel to complete the 933 project. Maintenance dredging will occur using the previous methods in Fiscal Year 2008-2009.

(2) a. Expenditures as of 07/01/07 (not including O&M costs):

b. Expenditures anticipated from 07/01/07 through 06/30/08:

	Federal	State	Local	Total
a. \$				
b. \$	5,088,000			5,088,000

(3) Estimated costs from 07/01/08 through 06/30/14:

	Federal	State	Local
Feasibility Study \$			
Construction \$			
Operation and Maintenance \$	22,100,000	1,600,000	335,000

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14
Federal \$	5,000,000	10,000,000	6,900,000	10,000,000	7,400,000	10,000,000
State \$	50,000	500,000	50,000	500,000	50,000	50,000
Local \$						

(4) Source of State Funds:

G.S. 143-215.71 G.S. 139.54 Other _____

(5) Status of Project:

Ongoing.

(6) Estimated Completion Date of Construction Phase: NA

Project Name: NEUSE RIVER BASIN INVESTIGATION

(1) Description:

Recent water quality and flooding problems in the Neuse River Basin have impacted the lives and livelihood of many citizens of the Neuse River Basin. This study will focus on ways to improve water quality as well as how best to improve aquatic habitats. It focuses on three areas: (1) stream and wetland restoration; (2) removal of obsolete dams and other obstructions; and (3) restoration of oyster habitat and oysters in the Neuse River estuary. Projects recommended by this study will be done as continuing authority projects by the Corps of Engineers, if funding is available, or by the State of North Carolina, if federal funding is not available. The Gum Thicket Restoration Project in Pamlico County, also described in this plan, is one example of a project that has resulted from the Neuse River Basin Study.

(2) a. Expenditures as of 07/01/07 (not including O&M costs):

b. Expenditures anticipated from 07/01/07 through 06/30/08:

	Federal	State	Local	Total
a. \$	418,000	312,000		730,000
b. \$	554,000	554,000		1,108,000

(3) Estimated costs from 07/01/08 through 06/30/2014:

	Federal	State	Local
Feasibility Study \$	7,550,000	4,250,000	
Construction \$			
Operation and Maintenance \$			

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14
Federal \$	200,000	450,000	2,000,000	4,400,000		
State \$	67,000	150,000	1,230,000	2,370,000		
Local \$						

(4) Source of State Funds:

G.S. 143-215.71 G.S. 139.54 Other _____

(5) Status of Project:

The Corps of Engineers completed the reconnaissance phase of this investigation in December 2001. The feasibility study began in 2003 and is scheduled for completion in June 2009.

(6) Estimated Completion Date of Construction Phase: NA

**Project Name: NORTH CAROLINA INTERNATIONAL TERMINAL,
SOUTHPORT, BRUNSWICK COUNTY**

(1) Description:

The North Carolina State Ports Authority (NCSPA) is planning on the development of a new deep-water terminal near the Town of Southport in Brunswick County. The NCSPA has requested that the Wilmington District study the feasibility of deepening the 42-foot Cape Fear River navigation channel from the Atlantic Ocean to Southport to 50 or more feet. The U.S. Congress would have to include funds in the Corps budget for this study to begin in Fiscal Year 2009. An initial reconnaissance study, costing approximately \$200,000, would be paid for with federal funds. If the recon study shows that there is a federal interest in this project, then a cost-shared feasibility study with the State of North Carolina would begin later that fiscal year.

(2) a. Expenditures as of 07/01/2007 (not including O&M costs):

b. Expenditures anticipated from 07/01/2007 through 06/30/2008:

	Federal	State	Local	Total
a. \$				
b. \$				

(3) Estimated costs from 07/01/08 through 06/30/2014:

	Federal	State	Local
Feasibility Study \$	2,500,000	2,500,000	
Construction \$			
Operation and Maintenance \$			

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14
Federal \$	700,000	550,000	550,000	550,000	350,000	
State \$	500,000	550,000	550,000	550,000	350,000	
Local \$						

(4) Source of State Funds:

G.S. 143-215.71 G.S. 139.54 Other _____

(5) Status of Project: On hold, awaiting approval of federal funds

(6) Estimated Completion Date of Construction Phase: NA

Project Name: NC OYSTER HABITAT RESTORATION (SEC 206)

(1) Description:

The Wilmington District and the State of North Carolina are partnering with the North Carolina Division of Marine Fisheries (NCDMF), US Fish and Wildlife Service (USFWS), UNC-Wilmington (UNCW), NC Coastal Federation (NCCF), and the Nature Conservancy to develop a North Carolina statewide oyster habitat restoration project under Section 216. The project would include three different regional efforts addressing needs in North Carolinas’s Northern (Pamlico Oyster Sanctuary in Pamlico Sound, NC), Middle (Morehead City), and Southern Sounds (lower Cape Fear River near the Smith Island Complex).

Healthy oyster reefs are a vital part of the aquatic ecosystem providing valuable functions such as water quality improvement through filtration and increased production of benthos and fish species through the develop of estuarine habitat. These hard bottom communities have the potential to protect adjacent shorelines through the stabilization of bottom sediments and the decrease in shoreline erosion rates. However, due to over harvesting, pollution, depletion of habitat, and disease the oyster population is estimated to be only one percent of what is was just over a century ago. Preliminary restoration design includes multiple high and low relief mounds consisting of a marine limestone base top dressed with a one foot thick layer of oyster cultch. These restoration sites will be classified as oyster sanctuaries where the harvest of oysters and the use of bottom disturbing gear are prohibited, thus allowing a broodstock of oysters to develop.

Specific sites will be selected during the combined Planning and Design Analysis (PDA) phase (first six months). Some of these sites will be incorporated into ecosystem restoration projects (marsh and SAV restoration).

- (2) a. Expenditures as of 07/01/2007 (not including O&M costs):**
- b. Expenditures anticipated from 07/01/2007 through 06/30/2008:**

	Federal	State	Local	Total
a. \$				
b. \$				

(3) Estimated costs from 07/01/08 through 06/30/2014:

	Federal	State	Local
Feasibility Study \$	160,000		
Construction \$	400,000	300,000	
Operation and Maintenance \$	80,000	40,000	

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14
Federal \$		130,000	560,000	20,000	20,000	20,000
State \$		30,000	300,000	10,000	10,000	10,000
Local \$						

(4) Source of State Funds:

G.S. 143-215.71 G.S. 139.54 Other _____

(5) Status of Project:

Awaiting appropriation of Federal funds.

(6) Estimated Completion Date of Construction Phase: Initial, FY 2011

Project Name: OCEAN ISLE BEACH RENOURISHMENT, BRUNSWICK COUNTY

(1) 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. Because this project held up so well, renourishment was not done as expected in 2004. State funds were appropriated for this project in FY 2003-04 and provided to the Corps of Engineers in 2005. However, bids received for the project in 2005 were much higher than the government estimate and thus the project was delayed again. It was renourished in the fall of 2006, and is scheduled for its next renourishment in FY 2010.

(2) a. Expenditures as of 07/01/07 (not including O&M costs):

b. Expenditures anticipated from 07/01/07 through 06/30/08:

	Federal	State	Local	Total
a. \$	9,168,000	3,053,000	819,000	13,040,000
b. \$				

(3) Estimated costs from 07/01/08 through 06/30/2014:

	Federal	State	Local
Feasibility Study \$			
Construction \$	3,230,000	1,337,000	446,000
Operation and Maintenance \$			

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14
Federal \$	250,000	3,000,000		300,000	3,500,000	
State \$		1,211,000			1,413,000	
Local \$		404,000			471,000	

(4) Source of State Funds:

G.S. 143-215.71 G.S. 139.54 Other _____

(5) Status of Project:

The second renourishment of this project is scheduled to be done in FY 2010.

(6) Estimated Completion Date of Construction Phase: NA

Project Name: PLANNING ASSISTANCE TO NORTH CAROLINA COMMUNITIES

(1) 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. During the federal fiscal year 2007-2008 the Wilmington District of the Corps is or will be performing the following investigations: stormwater analyses for the City of New Bern (Craven County) and the Town of Chadbourn (Columbus County); inventory of obstructions to the migration of aquatic species (State of North Carolina, DENR); and flooding studies (Caw Caw Swamp in Brunswick County and Tar River in the City of Tarboro). For studies sponsored by units of local government, the state can provide up to 50% of the non-Federal cost, or 25% of the total cost. Some of these investigations will be continued in FY 2008-09 and new investigations will be added.

- (2) a. Expenditures as of 07/01/07 (not including O&M costs):**
b. Expenditures anticipated from 07/01/07 through 06/30/08:

	Federal	State	Local	Total
a. \$	240,000	90,000	90,000	420,000
b. \$	130,000	55,000	55,000	240,000

(3) Estimated costs from 07/01/08 through 06/30/2014:

	Federal	State	Local
Feasibility Study \$	1,200,000	450,000	450,000
Construction \$			
Operation and Maintenance \$			

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14
Federal \$	200,000	200,000	200,000	200,000	200,000	200,000
State \$	75,000	75,000	75,000	75,000	75,000	75,000
Local \$	75,000	75,000	75,000	75,000	75,000	75,000

(4) Source of State Funds:

G.S. 143-215.71 G.S. 139.54 Other _____

(5) Status of Project:

Ongoing.

(6) Estimated Completion Date of Construction Phase: NA

Project Name: PRINCEVILLE FLOOD CONTROL STUDY

(1) Description:

This Corps of Engineering study was funded by a special appropriation from Congress and requires that the State match these funds dollar for dollar. The purpose of the study is to determine what additional flood control measures to protect the Town of Princeville are feasible. The Corps has completed some preliminary work that indicates that the more expensive flood control measures, such as the construction of a flood bypass channel, the construction of upstream flood control dams, and the flood-proofing of existing structures are not feasible. The Corps is proposing to raise the height of those portions of the existing flood control levee that are less than the 100-year flood level and raise highway roadbeds around the north end of the Town to provide additional protection. Homes that lie outside of this northern levee will be flood-proofed. In addition, the N.C. Division of Emergency Management is preparing flood forecasting and flood warning systems to assist the Town of Princeville to know when to evacuate its citizens. This alternative will not raise flood heights of the Tar River.

(2) a. Expenditures as of 07/01/07 (not including O&M costs):

b. Expenditures anticipated from 07/01/07 through 06/30/08:

	Federal	State	Local	Total
a. \$	1,500,000	860,000		2,360,000
b. \$		100,000		100,000

(3) Estimated costs from 07/01/08 through 06/30/2014:

	Federal	State	Local
Feasibility Study \$	0	0	
Construction \$	13,488,000	7,262,000	
Operation and Maintenance \$			

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14
Federal \$		325,000	163,000	13,000,000		
State \$		175,000	87,000	7,000,000		
Local \$						

(4) Source of State Funds:

G.S. 143-215.71 G.S. 139.54 Other _____

(5) Status of Project:

Feasibility study is well underway and will be completed by end of 2009. Work on plans and specifications and rights-of-way will begin in FY 2010.

(6) Estimated Completion Date of Construction Phase: FY 2012

Project Name: SILVER LAKE HARBOR MAINTENANCE DREDGING, OCRACOKE, HYDE COUNTY

(1) 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 and should last for 5 to 10 years

- (2) a. Expenditures as of 07/01/07 (not including O&M costs):**
b. Expenditures anticipated from 07/01/07 through 06/30/08:

	Federal	State	Local	Total
a. \$	832,000			832,000
b. \$				

(3) Estimated costs from 07/01/08 through 06/30/2014:

	Federal	State	Local
Feasibility Study \$			
Construction \$			
Operation and Maintenance \$	5,821,000	800,000	0

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14
Federal \$	900,000	927,000	955,000	984,000	1,012,000	1,043,000
State \$		800,000				
Local \$		200,000				

(4) Source of State Funds:

G.S. 143-215.71 G.S. 139.54 Other _____

(5) Status of Project:

Ongoing.

(6) Estimated Completion Date of Construction Phase: NA

**Project Name: SURF CITY – NORTH TOPSAIL BEACH PROTECTION,
PENDER COUNTY**

(1) 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. If this project is found feasible, construction would likely begin in FY 2012.

- (2) a. Expenditures as of 07/01/07 (not including O&M costs):**
b. Expenditures anticipated from 07/01/07 through 06/30/08:

	Federal	State	Local	Total
a. \$	1,512,000	710,000	710,000	2,932,000
b. \$	197,000	98,000	99,000	394,000

(3) Estimated costs from 07/01/08 through 06/30/2014:

	Federal	State	Local
Feasibility Study \$	479,000	242,000	241,000
Construction \$	52,500,000	21,200,000	7,000,067
Operation and Maintenance \$			

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14
Federal \$	200,000	500,000	279,000	26,000,000	26,000,000	
State \$	100,000	220,000	122,000	10,500,000	10,500,000	
Local \$	100,000	140,000	68,000	3,500,000	3,500,000	

(4) Source of State Funds:

G.S. 143-215.71 G.S. 139.54 Other _____

(5) Status of Project:

Feasibility study began in February 2002. It is scheduled to be completed in FY 2010.

(6) Estimated Completion Date of Construction Phase: NA

Project Name: TAR RIVER BASIN AND PAMLICO SOUND

(1) Description:

The Wilmington District, Corps of Engineers, would study the need for additional flood protection, water supply and stream restoration in the Tar River Basin and the need for wetland restoration and drainage in the lands draining to Pamlico Sound. This study would identify feasible alternatives that could be implemented to provide flood damage reduction, water supply storage, land drainage, and stream and wetland restoration. Upon approval by the U.S. Congress, the Corps will perform a reconnaissance study to determine if there is a federal interest. If so, then it would start a three-year feasibility study in conjunction with the State of North Carolina, the non-federal sponsor of this study.

(2) a. Expenditures as of 07/01/2007 (not including O&M costs):

b. Expenditures anticipated from 07/01/2007 through 06/30/2008:

	Federal	State	Local	Total
a. \$				
b. \$				

(3) Estimated costs from 07/01/08 through 06/30/2014:

	Federal	State	Local
Feasibility Study \$	1,100,000	1,000,000	
Construction \$			
Operation and Maintenance \$			

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14
Federal \$		550,000	450,000	100,000		
State \$		450,000	450,000	100,000		
Local \$						

(4) Source of State Funds:

G.S. 143-215.71 G.S. 139.54 Other _____

(5) Status of Project: On hold, awaiting approval by Congress.

(6) Estimated Completion Date of Construction Phase: NA

Project Name: WALTER SLOUGH NAVIGATION, DARE COUNTY

(1) Description:

This navigation channel runs from the U.S. Coast Guard Station and the Oregon Inlet Fishing Center to Range 17 Extension of the Manteo – Shallowbag Navigation Channel in Dare County. In the past, the State of North Carolina, Dare County, and the U.S. Coast Guard have paid to have this channel maintained to a depth of 6 feet. The Corps of Engineers has completed a feasibility study of this channel that recommends that the Corps assume maintenance dredging of this channel. The Corps plans to perform the dredging in FY 2008-09 if it receives Corps approval and Congressional funding.

- (2) a. Expenditures as of 07/01/2007 (not including O&M costs):**
b. Expenditures anticipated from 07/01/2007 through 06/30/2008:

	Federal	State	Local	Total
a. \$				
b. \$				

(3) Estimated costs from 07/01/08 through 06/30/2014:

	Federal	State	Local
Feasibility Study \$			
Construction \$	541,000	59,000	15,000
Operation and Maintenance \$			

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14
Federal \$	541,000					
State \$	59,000					
Local \$	15,000					

(4) Source of State Funds:

G.S. 143-215.71 G.S. 139.54 Other _____

(5) Status of Project: On hold, awaiting approval by the Corps and funds from Congress.

(6) Estimated Completion Date of Construction Phase: NA

Project Name: WEST CARY STREAM RESTORATION (SECTION 206), WAKE COUNTY

(1) Description:

The Wilmington District Corps of Engineers has begun a feasibility study on the restoration and preservation of various streams, including White Oak Creek and Batchelor Branch tributaries, located to the west of downtown Cary, North Carolina. This area is developing rapidly and significant deterioration of the water resources and aquatic habitat will occur unless some actions are taken. A preliminary restoration plan identified possible measures to be evaluated in the feasibility phase, including instream fish habitat structures, planting of native trees and vegetation, restoration of wetlands in the riparian areas to provide shading and restore valuable habitat values to the streams, and other measures to reduce damage and contamination of the ecosystem by urban runoff.

(2) a. Expenditures as of 07/01/07 (not including O&M costs):

b. Expenditures anticipated from 07/01/07 through 06/30/08:

	Federal	State	Local	Total
a. \$	395,000			395,000
b. \$	65,000			65,000

(3) Estimated costs from 07/01/08 through 06/30/2014:

	Federal	State	Local
Feasibility Study \$			
Construction \$	2,686,000	129,000	64,500
Operation and Maintenance \$			

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14
Federal \$	114,000	500,000	1,500,000	572,000		
State \$		129,000				
Local \$		64,500				

(4) Source of State Funds:

G.S. 143-215.71 G.S. 139.54 Other _____

(5) Status of Project:

The feasibility study received initial funding in May 2003 and is scheduled for completion in FY 2007-08.

(6) Estimated Completion Date of Construction Phase:

The construction will occur in fiscal years 2010, 2011, and 2012.

Project Name: WEST ONSLOW BEACH (TOPSAIL BEACH), PENDER COUNTY

(1) 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. The initial construction of this shore protection project could be completed by the spring of 2011, if funding is available. Periodic pumping of additional sand on the beach within the project area would occur for a period of 50 years.

(2) a. Expenditures as of 07/01/07 (not including O&M costs):

b. Expenditures anticipated from 07/01/07 through 06/30/08:

	Federal	State	Local	Total
a. \$	2,467,000	476,000	476,000	3,419,000
b. \$	49,000			49,000

(3) Estimated costs from 07/01/08 through 06/30/2014:

	Federal	State	Local
Feasibility Study \$			
Construction \$	20,433,000	7,626,000	2,625,000
Operation and Maintenance \$			

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14
Federal \$	200,000	300,000	20,000,000			
State \$	80,000	43,000	8,000,000			
Local \$	27,000	42,000	2,700,000			

(4) Source of State Funds:

G.S. 143-215.71 G.S. 139.54 Other _____

(5) Status of Project:

Corps plans to complete its reevaluation of this project in FY 2008 and initial construction in 2011.

(6) Estimated Completion Date of Construction Phase: April 30, 2058

Project Name: WHITE OAK RIVER BASIN INVESTIGATION

(1) Description:

This cooperative investigation between the state of North Carolina and the Corps of Engineers will recommend ways to reduce sedimentation and bacteria levels and increase tidal flushing of the estuary. It will determine the feasibility of dredging navigation channels in the estuary and of making changes in land management practices in the watershed. The State of North Carolina would be the non-federal sponsor of this study.

- (2) a. Expenditures as of 07/01/07 (not including O&M costs):**
b. Expenditures anticipated from 07/01/07 through 06/30/08:

	Federal	State	Local	Total
a. \$				
b. \$				

(3) Estimated costs from 07/01/08 through 06/30/2014:

	Federal	State	Local
Feasibility Study \$	400,000	300,000	
Construction \$			
Operation and Maintenance \$			

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14
Federal \$			100,000	100,000	100,000	100,000
State \$				100,000	100,000	100,000
Local \$						

(4) Source of State Funds:

G.S. 143-215.71 G.S. 139.54 Other _____

(5) Status of Project:

Awaiting federal funding.

(6) Estimated Completion Date of Construction Phase: NA

Project Name: WILMINGTON HARBOR MAINTENANCE DREDGING, 42 FT. PROJECT, NEW HANOVER COUNTY

(1) 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.

- (2) a. *Expenditures as of 07/01/07 (not including O&M costs):*
 b. *Expenditures anticipated from 07/01/07 through 06/30/08:*

	Federal	State	Local	Total
a. \$				
b. \$	10,362,000			10,362,000

(3) Estimated costs from 07/01/08 through 06/30/2014:

	Federal	State	Local
Feasibility Study \$			
Construction \$			
Operation and Maintenance \$	90,700,000	3,000,000	

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14
Federal \$	13,500,000	14,500,000	15,000,000	15,450,000	15,900,000	16,350,000
State \$	2,000,000	200,000	200,000	200,000	200,000	200,000
Local \$						

(4) Source of State Funds:

G.S. 143-215.71 G.S. 139.54 Other _____

(5) Status of Project:

Ongoing.

(6) Estimated Completion Date of Construction Phase: NA

Project Name: WILMINGTON HARBOR DEEPENING, NEW HANOVER COUNTY

(1) Description:

This project includes deepening of Wilmington Harbor, the navigation channel in the Cape Fear River from Wilmington Harbor to the Atlantic Ocean, and the Northeast Cape Fear River navigation channel. It also includes 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 will allow 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 will 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.

- (2) a. Expenditures as of 07/01/07 (not including O&M costs):**
b. Expenditures anticipated from 07/01/07 through 06/30/08:

	Federal	State	Local	Total
a. \$	251,927,000	83,941,000	1,345,000	337,213,000
b. \$	3,745,000	1,248,000		4,993,000

(3) Estimated costs from 07/01/08 through 06/30/2014:

	Federal	State	Local
Feasibility Study \$			
Construction \$	86,000,000	28,000,000	
Operation and Maintenance \$			

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14
Federal \$	11,000,000	34,000,000	23,000,000	18,000,000		
State \$	3,000,000	11,300,000	7,000,000	6,700,000		
Local						

(4) Source of State Funds:

G.S. 143-215.71 G.S. 139.54 Other _____

(5) Status of Project:

Deep water, - 42 feet, from the Atlantic Ocean to the docks of the N.C. State Ports Authority was achieved on January 9, 2004. Completion of dredging the anchorage basin and the 6.2-mile long passing lane was completed in FY 2006. Deepening of the Northeast Cape Fear River channel will begin in FY 09 and be completed in FY 11 if funded by the U.S. Congress.

(6) Estimated Completion Date of Construction Phase: FY 2011

Project Name: WILSON BAY RESTORATION (SECTION 206) , ONSLOW COUNTY

(1) Description:

Wilson Bay is a 106-acre shallow estuarine embayment of the New River within the City of Jacksonville in Onslow County. The Wilson Bay aquatic ecosystem was degraded by many years of wastewater from a sewage treatment plant and by urban non-point source runoff. This restoration project's goals are to improve water quality, restore the benthic community and the use of the Bay as a nursery area, and restore the use of the Bay for recreation and economic purposes. The City of Jacksonville has already taken several major actions to rehabilitate the Bay including the decommissioning of the wastewater treatment plant, installing three water column aeration units, planting oysters in the bay, and planting wetlands along the shoreline. The Wilmington District Corps of Engineers has designed a project to help the City's project become self-sustaining. It will purchase and operate three additional aerators, restore wetlands and creeks within the Wilson Bay urban watershed, plant additional oysters and submerged aquatic vegetation, and install bio-swales and rain gardens.

(2) a. Expenditures as of 07/01/2007 (not including O&M costs):

b. Expenditures anticipated from 07/01/2007 through 06/30/2008:

	Federal	State	Local	Total
a. \$	975,000			975,000
b. \$				

(3) Estimated costs from 07/01/08 through 06/30/2014:

	Federal	State	Local
Feasibility Study \$			
Construction \$	2,912,000	931,000	486,000
Operation and Maintenance \$			

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14
Federal \$	2,850,000	20,000	20,000	22,000		
State \$	931,000					
Local \$	486,000					

(4) Source of State Funds:

G.S. 143-215.71 G.S. 139.54 Other _____

(5) Status of Project:

Now in design stage

(6) Estimated Completion Date of Construction Phase: FY 2010

Project Name: WRIGHTSVILLE BEACH RENOURISHMENT, NEW HANOVER COUNTY

(1) 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.

- (2) a. Expenditures as of 07/01/07 (not including O&M costs):**
b. Expenditures anticipated from 07/01/07 through 06/30/08:

	Federal	State	Local	Total
a. \$	\$8,297,000	3,749,000	1,229,000	13,275,000
b. \$	280,000			280,000

(3) Estimated costs from 07/01/08 through 06/30/2014:

	Federal	State	Local
Feasibility Study \$			
Construction \$	5,650,000	2,060,000	687,000
Operation and Maintenance \$			

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14
Federal \$	300,000	4,800,000	200,000		350,000	5,000,000
State \$		2,060,000				2,100,000
Local \$		687,000				700,000

(4) Source of State Funds:

G.S. 143-215.71 G.S. 139.54 Other _____

(5) Status of Project:

Next renourishment is scheduled for FY 2010.

(6) Estimated Completion Date of Construction Phase: April 30, 2036

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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

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Project Name: AQUATIC WEED CONTROL – LAKE GASTON

(1) Description:

In 1985, a survey of Lake Gaston found 15 acres infested with the aquatic weed *Hydrilla*. By the fall of 1996, the infestation had grown to over 3,250 acres. The total area of Lake Gaston that can potentially be impacted is about 5,000 acres, or all of the lake that is less than 10 feet deep. *Hydrilla* interferes with fishing, boating, swimming, and water skiing. The Division of Water Resources has assisted the Lake Gaston Weed Control Council in the following chemical and biological treatments:

Year	Total Hydrilla Acreage	Chemical Treatment (Acres)	Grass Carp Stocked	Year	Total Hydrilla Acreage	Chemical Treatment (Acres)	Grass Carp Stocked
1994	2,535	811		2001	2,337	1,830	
1995	3,102	647	20,000	2002	3,234	900	
1996	3,250	685	680	2003	3,150	1,175	25,000
1997	3,200	922		2004	2,909	1033	
1998	3,266	775		2005	3,863	906	
1999	3,000	1,415	5,000	2006	3,100	985	7,200
2000	2,600	1,175		2007	1,235	1,564	7,720

Each year the Weed Council also receives \$200,000 for *Hydrilla* control from the City of Virginia Beach.

- (2) a. **Expenditures as of 07/01/07 (not including O&M costs):**
 b. **Expenditures anticipated from 07/01/07 through 06/30/08:**

	Federal	State*	Local	Total
a. \$		1,459,375	348,000	1,807,000
b. \$		200,000	348,000	548,000

* Includes the State of NC only.

(3) Estimated costs from 07/01/08 through 06/30/14:

	Federal	State	Local
Feasibility Study \$			
Construction \$		1,200,000	1,644,000
Operation and Maintenance \$			

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14
Federal \$						
State \$	200,000	200,000	200,000	200,000	200,000	200,000
Local \$	348,000	348,000	348,000	200,000	200,000	200,000

(4) Source of State Funds:

G.S. 143-215.71 G.S. 139.54 Other _____

(5) Status of Project: Treatment of *Hydrilla* with both chemicals and grass carp will continue.

(6) Estimated Completion Date of Construction Phase: NA

Project Name: AQUATIC WEED CONTROL - STATEWIDE

(1) Description:

The N.C. Division of Water Resources provides technical and financial assistance to local governments in the evaluation and treatment of aquatic weed infestations. Some weed problems are eligible for Federal assistance and these can receive cost-sharing through the U.S. Army Corps of Engineers. However, Corps funding of aquatic weed control has been reduced, and Federal cost-sharing funds are not available in North Carolina at this time. State financial assistance (50% cost-sharing) for local weed control projects is still available. During the 2007 treatment season, DWR worked with local government and utility sponsors in the treatment of 415 acres of aquatic weeds. In 2008 that number is projected to increase to over 650 acres spanning 80 different projects having a total cost of \$383,265.

- (2) a. Expenditures as of 07/01/07 (not including O&M costs):**
b. Expenditures anticipated from 07/01/07 through 06/30/08:

	Federal	State	Local	Total
a. \$	512,000	1,096,678	871,255	2,479,933
b. \$		150,000	150,000	300,000

(2) Estimated costs from 07/01/08 through 06/30/14:

	Federal	State	Local
Feasibility Study \$			
Construction \$		1,000,000	1,000,000
Operation and Maintenance \$			

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14
Federal \$						
State \$	200,000	150,000	150,000	150,000	150,000	150,000
Local \$	200,000	150,000	150,000	150,000	150,000	150,000

(4) Source of State Funds:

G.S. 143-215.71 G.S. 139.54 Other _____

(5) Status of Project:

On-going

(6) Estimated Completion Date of Construction Phase: NA

Project Name: **AUTRYVILLE DRAINAGE PHASE 2 PROJECT, SAMPSON COUNTY**

(1) Description:

The Town of Autryville Board of Commissioners is requesting assistance to improve drainage and alleviate flooding by upgrading their stormwater conveyance infrastructure.

- (2) a. Expenditures as of 07/01/07 (not including O&M costs):**
b. Expenditures anticipated from 07/01/07 through 06/30/08:

	Federal	State	Local	Total
a. \$		195,563	97,782	293,345
b. \$				

(3) Estimated costs from 07/01/08 through 06/30/14:

	Federal	State	Local
Feasibility Study \$			
Construction \$		165,750	82,875
Operation and Maintenance \$			

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14
Federal \$						
State \$	165,750					
Local \$	82,875					

(4) Source of State Funds:

G.S. 143-215.71 G.S. 139.54 Other _____

(5) Status of Project:

Awaiting appropriation of State funds.

(6) Estimated Completion Date of Construction Phase: June 2009

Project Name: BEACH AND INLET MANAGEMENT STUDY

(1) Description:

This study will develop a multi-year strategy for managing and protecting North Carolina beaches and inlets. The plan will document beach erosion rates, shoaling rates in navigation channels, opportunities for beach nourishment, and policy and financing options for beach and inlet management. The study report will include a preliminary beach and inlet management plan with cost estimates for each beach. This study will be done by Moffatt & Nichol under contract with the North Carolina Department of Environment and Natural Resources (DENR). The consultants will use existing information from all available sources, including the U.S. Army Corps of Engineers. The lead agencies for this study are the Divisions Water Resources and Coastal Management. The first phase of the study will be completed within an 18-month period and at a cost of \$750,000. The \$750,000 was appropriated in FY 2007 and 2008. The \$250,000 in FY 2009 will be used to perform follow-up studies and to initiate detailed planning and implementation of study recommendations.

(2) a. Expenditures as of 07/01/07 (not including O&M costs):

b. Expenditures anticipated from 07/01/07 through 06/30/08:

	Federal	State	Local	Total
a. \$				
b. \$		750,000		750,000

(3) Estimated costs from 07/01/08 through 06/30/14:

	Federal	State	Local
Feasibility Study \$		250,000	
Construction \$			
Operation and Maintenance \$			

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14
Federal \$						
State \$	250,000					
Local \$						

(4) Source of State Funds:

G.S. 143-215.71 G.S. 139.54 Other _____

(5) Status of Project:

The first phase of the study began in September 2007 and is scheduled for completion by March 2009.

(6) Estimated Completion Date of Construction Phase: N/A

Project Name: BEAR CREEK DRAINAGE PROJECT, WAYNE COUNTY

(1) Description:

The Wayne County Drainage District Number 1 is requesting assistance to make repairs to four of its seven floodwater retarding structures located within the P.L. 566 Bear Creek Watershed Project.

- (2) a. Expenditures as of 07/01/07 (not including O&M costs):**
b. Expenditures anticipated from 07/01/07 through 06/30/08:

	Federal	State	Local	Total
a. \$				
b. \$				

(3) Estimated costs from 07/01/08 through 06/30/14:

	Federal	State	Local
Feasibility Study \$			
Construction \$		65,268	32,732
Operation and Maintenance \$			

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14
Federal \$						
State \$	65,268					
Local \$	32,732					

(4) Source of State Funds:

G.S. 143-215.71 G.S. 139.54 Other _____

(5) Status of Project:

Awaiting appropriation of State funds.

(6) Estimated Completion Date of Construction Phase: June 2009

Project Name: BRIAR CREEK RESTORATION PROJECT, MECKLENBURG COUNTY

(1) Description:

The Mecklenburg Board of County Commissioners is requesting assistance to restore 5,000 linear feet of Briar Creek between Randolph and Meadowbrook Roads. The project will improve aquatic habitat and water quality, restore floodplain function, and will provide a greenway recreation trail.

- (2) a. Expenditures as of 07/01/07 (not including O&M costs):**
b. Expenditures anticipated from 07/01/07 through 06/30/08:

	Federal	State	Local	Total
a. \$				
b. \$				

(3) Estimated costs from 07/01/08 through 06/30/14:

	Federal	State	Local
Feasibility Study \$			
Construction \$		666,000	333,000
Operation and Maintenance \$			

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14
Federal \$						
State \$	666,000					
Local \$	333,000					

(4) Source of State Funds:

G.S. 143-215.71 G.S. 139.54 Other _____

(5) Status of Project:

Awaiting appropriation of State funds.

(6) Estimated Completion Date of Construction Phase: June 2009

Project Name: CANE RIVER DAM REMOVAL FEASIBILITY STUDY, YANCEY COUNTY

(1) Description:

The Yancey County Soil and Water Conservation District is requesting assistance to study the feasibility of removing an abandoned, partially breached dam located on the Cane River upstream of Burnsville. The dam is part of a former hydro-power producing structure that is in poor condition and considered a hazard to the downstream community. A breach in a lower section of the dam is a “bottleneck” that funnels flow through a 10’ x 4’ opening that falls three feet to the river’s downstream surface. High flows and debris blockages cause a backwater effect that places pressure on the weakened structure. Even though the dam is partially breached, with the vertical drop and high flow velocities, it continues to be a physical barrier to the upstream movement of local aquatic species.

- (2) a. Expenditures as of 07/01/07 (not including O&M costs):**
b. Expenditures anticipated from 07/01/07 through 06/30/08:

	Federal	State	Local	Total
a. \$				
b. \$				

(3) Estimated costs from 07/01/08 through 06/30/14:

	Federal	State	Local
Feasibility Study \$			
Construction \$		7,500	7,500
Operation and Maintenance \$			

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14
Federal \$						
State \$	7,500					
Local \$	7,500					

(4) Source of State Funds:

G.S. 143-215.71 G.S. 139.54 Other _____

(5) Status of Project:

Awaiting appropriation of State funds.

(6) Estimated Completion Date of Construction Phase: June 2009

**Project Name: CAROLINA BEACH WATER MANAGEMENT,
NEW HANOVER COUNTY**

(1) Description:

The Town of Carolina Beach Town Council requests cost-sharing assistance in the removal of sediment from Carolina Beach Lake, the construction of two stormwater treatment ponds, and the installation of two stormwater pump stations and force mains. The proposed project will accomplish three objectives: 1) manage stormwater flow into and out of the lake; 2) alleviate recurrent flooding of residences and streets and the associated damages around the lake; and 3) reduce the potential for surface water contamination in both the lake and the Atlantic ocean – the latter will reduce the need for public swim advisories. The deepening of the lake will increase its capacity from approximately 8 million gallons to over 18 million gallons. The creation of two additional stormwater treatment ponds will reduce the pollutants in stormwater prior to its discharge into the Atlantic Ocean.

(2) a. Expenditures as of 07/01/2007 (not including O&M costs):

b. Expenditures anticipated from 07/01/2007 through 06/30/2008:

	Federal	State	Local	Total
a. \$				
b. \$				

(3) Estimated costs from 07/01/08 through 06/30/2014:

	Federal	State	Local
Feasibility Study \$			
Construction \$		1,900,000	950,000
Operation and Maintenance \$			

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14
Federal \$						
State \$	1,900,000					
Local \$	950,000					

(4) Source of State Funds:

G.S. 143-215.71 G.S. 139.54 Other _____

(5) Status of Project: Awaiting appropriation of State funds.

(6) Estimated Completion Date of Construction Phase: June, 2009

Project Name: CONTENTNEA CREEK SNAGGING PROJECT, GREENE COUNTY

(1) Description:

The Greene Board of County Commissioners is requesting assistance to remove woody debris blockages from a 20 mile reach of Contentnea Creek for drainage and flood control of agricultural land, urban development, and individual residences.

- (2) a. Expenditures as of 07/01/07 (not including O&M costs):**
b. Expenditures anticipated from 07/01/07 through 06/30/08:

	Federal	State	Local	Total
a. \$				
b. \$				

(3) Estimated costs from 07/01/08 through 06/30/14:

	Federal	State	Local
Feasibility Study \$			
Construction \$		92,393	46,207
Operation and Maintenance \$			

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14
Federal \$						
State \$	92,393					
Local \$	46,207					

(4) Source of State Funds:

G.S. 143-215.71 G.S. 139.54 Other _____

(5) Status of Project:

Awaiting appropriation of State funds.

(6) Estimated Completion Date of Construction Phase: June 2009

Project Name: DAM REMOVAL PROJECTS - STATEWIDE

(1) Description:

The Division of Water Resources (DWR) recently estimated the number of made-made impoundments across the state to be greater than 94,000. Most of these dams were small structures located on small streams. The Dam Safety Program in the Division of Land Resources maintains a separate database containing information on over 5,000 of the larger dams, i.e., dams that are 15-feet or greater in height that impound a volume of 10 acre-feet or more. Many dams in North Carolina are derelict or not functioning as originally intended and present safety, navigation and environmental hazards. DWR has assisted in the removal of seven such dams over the past 10 years and is currently involved with the removal of two more dams. DWR anticipates receiving requests for the removal of an additional four dams in FY 08-09. All dam removal projects to date have involved partnering with local, state, federal and/or non-profit entities. State funds will be used to help hire contractors to remove these obsolete, hazardous dams.

- (2) a. *Expenditures as of 07/01/07 (not including O&M costs):*
- b. *Expenditures anticipated from 07/01/07 through 06/30/08:*

	Federal	State	Local	Total
a. \$				
b. \$				

(3) Estimated costs from 07/01/08 through 06/30/14:

	Federal	State	Local
Feasibility Study \$			
Construction \$		500,000	
Operation and Maintenance \$			

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14
Federal \$						
State \$	500,000					
Local \$						

(4) Source of State Funds:

G.S. 143-215.71 G.S. 139.54 Other _____

(5) Status of Project:

Awaiting appropriation of State funds.

(6) Estimated Completion Date of Construction Phase: June 2009

Project Name: DREDGING CONTINGENCY FUND

(1) Description:

For many years the Corps of Engineers has maintained by dredging all federally authorized North Carolina navigation channels. In recent years, the Corps budget for dredging has been reduced and many shallow draft channels, those less than 20 feet deep, have not been adequately maintained (dredged). During the current fiscal year, the Corps of Engineers did not have enough money to perform all the required maintenance dredging of the shallow draft navigation channels in North Carolina. Fortunately, the General Assembly provided dredging contingency funds in the current budget year that allowed the State of North Carolina, with help from local governments, to supplement federal funds to allow the Corps to perform the required dredging during this current FY. The shortfall in federal funds is expected to get worse next year. Therefore \$4,000,000 is estimated to be needed next year. We expect that these funds, along with up to \$1,250,000 in local government funding, will allow the State to keep most of our critical shallow draft navigation channels open. These channels include the Atlantic Intracoastal Waterway, navigable inlets and channels leading to small harbors and fishing villages.

(2) a. Expenditures as of 07/01/07 (not including O&M costs):

b. Expenditures anticipated from 07/01/07 through 06/30/08:

	Federal	State	Local	Total
a. \$				
b. \$		2,012,000	657,000	2,669,000

(3) Estimated costs from 07/01/08 through 06/30/14:

	Federal	State	Local
Feasibility Study \$			
Construction \$			
Operation and Maintenance \$		4,000,000	1,250,000

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14
Federal \$						
State \$	4,000,000					
Local \$	1,250,000					

(4) Source of State Funds:

G.S. 143-215.71 G.S. 139.54 Other _____

(5) Status of Project:

Awaiting appropriation of State funds.

(6) Estimated Completion Date of Construction Phase: N/A

Project Name: ELM GROVE COMMUNITY WATER MANAGEMENT PROJECT, BERTIE COUNTY

(1) Description:

The Bertie Board of County Commissioners is requesting assistance to redesign and aggressively dip-out a 4,200-foot unnamed open channel that drains to Cucklemaker Creek. The channel provides drainage, flood prevention and vector control for the Elm Grove community.

- (2) a. Expenditures as of 07/01/07 (not including O&M costs):**
b. Expenditures anticipated from 07/01/07 through 06/30/08:

	Federal	State	Local	Total
a. \$				
b. \$				

(3) Estimated costs from 07/01/08 through 06/30/14:

	Federal	State	Local
Feasibility Study \$			
Construction \$		32,900	16,450
Operation and Maintenance \$			

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14
Federal \$						
State \$	32,900					
Local \$	16,450					

(4) Source of State Funds:

G.S. 143-215.71 G.S. 139.54 Other _____

(5) Status of Project:

Awaiting appropriation of State funds.

(6) Estimated Completion Date of Construction Phase: June 2009

Project Name: GOSHEN SWAMP SNAGGING PROJECT, DUPLIN COUNTY

(1) Description:

The Duplin County Soil and Water Conservation District is requesting assistance to remove woody debris blockages from a 25.3 mile reach of Goshen Swamp for drainage and flood control of agricultural land.

- (2) a. Expenditures as of 07/01/07 (not including O&M costs):**
b. Expenditures anticipated from 07/01/07 through 06/30/08:

	Federal	State	Local	Total
a. \$				
b. \$				

(3) Estimated costs from 07/01/08 through 06/30/14:

	Federal	State	Local
Feasibility Study \$			
Construction \$		264,510	136,235
Operation and Maintenance \$			

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14
Federal \$						
State \$	264,510					
Local \$	136,235					

(4) Source of State Funds:

G.S. 143-215.71 G.S. 139.54 Other _____

(5) Status of Project:

Awaiting appropriation of State funds.

(6) Estimated Completion Date of Construction Phase: June 2009

Project Name: INDIAN GRAVE CREEK RESTORATION PROJECT, DUPLIN COUNTY

(1) Description:

The Kenansville Board of Commissioners is requesting assistance to control moderate bank erosion along a 1,600-foot reach of Indian Grave Creek to protect personal property, utilities, roadbed and mature trees. The project will use a combination of gabion gravity walls and creek bed reno mattresses to reduce erosion and reduce water velocity.

- (2) a. Expenditures as of 07/01/07 (not including O&M costs):**
b. Expenditures anticipated from 07/01/07 through 06/30/08:

	Federal	State	Local	Total
a. \$				
b. \$				

(3) Estimated costs from 07/01/08 through 06/30/14:

	Federal	State	Local
Feasibility Study \$			
Construction \$		165,750	82,875
Operation and Maintenance \$			

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14
Federal \$						
State \$	165,750					
Local \$	82,875					

(4) Source of State Funds:

G.S. 143-215.71 G.S. 139.54 Other _____

(5) Status of Project:

Awaiting appropriation of State funds.

(6) Estimated Completion Date of Construction Phase: June 2009

Project Name: **LITTLE FORK CREEK RESTORATION PROJECT, WILKES COUNTY**

(1) Description:

The NC Division of Forest Resources is requesting assistance to stabilize, enhance and restore 5,000 linear feet of Little Fork Creek that is located within Rendezvous Mountain Education State Forest. The proposed restoration well aligns with the NC Division of Water Quality’s ongoing efforts to reclassify Little Fork Creek from ‘C’ waters to ‘C;Tr’ (Trout), HQW (High Quality Waters) or ORW (Outstanding Resource Waters)’.

- (2) a. Expenditures as of 07/01/07 (not including O&M costs):**
b. Expenditures anticipated from 07/01/07 through 06/30/08:

	Federal	State	Local	Total
a. \$				
b. \$				

(3) Estimated costs from 07/01/08 through 06/30/14:

	Federal	State	Local
Feasibility Study \$			
Construction \$	25,000	425,000	110,000
Operation and Maintenance \$			

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14
Federal \$	25,000					
State \$	425,000					
Local \$	110,000					

(4) Source of State Funds:

G.S. 143-215.71 G.S. 139.54 Other _____

(5) Status of Project:

Awaiting appropriation of State funds.

(6) Estimated Completion Date of Construction Phase: June 2009

Project Name: LITTLE RIVER RESTORATION PROJECT, MONTGOMERY COUNTY

(1) Description:

The Montgomery County Soil and Water Conservation District is requesting assistance to restore 2,100 linear feet of impacted stream channels and enhance and preserve in perpetuity adjacent riparian buffers. The project includes the decommissioning and removal of four hog waste lagoons and two water retention ponds and restoring a natural channel through the reclaimed areas.

- (2) a. Expenditures as of 07/01/07 (not including O&M costs):**
b. Expenditures anticipated from 07/01/07 through 06/30/08:

	Federal	State	Local	Total
a. \$				
b. \$				

(3) Estimated costs from 07/01/08 through 06/30/14:

	Federal	State	Local
Feasibility Study \$			
Construction \$		545,900	274,000
Operation and Maintenance \$			

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14
Federal \$						
State \$	545,900					
Local \$	274,000					

(4) Source of State Funds:

G.S. 143-215.71 G.S. 139.54 Other _____

(5) Status of Project:

Awaiting appropriation of State funds.

(6) Estimated Completion Date of Construction Phase: June 2009

Project Name: MILL CREEK DREDGING PHASE 3, PENDER COUNTY

(1) Description:

Pender County is requesting financial assistance to maintenance dredge an estuarine navigation complex known as Mill Creek. The project will restore to original channel depths, nine channel reaches totaling approximately 12,000 feet and remove almost 30,000 cubic yards of silty material to an approved upland disposal area. The increased water depth and removal of the silt will increase the amount of tidal flushing and reduce levels of turbidity from prop wash. These will result in improved water quality that will increase marine life, especially crabs, and provide safe passage for more than 200 recreational and commercial watercraft that use these channels. The project sponsors will have professional water quality sampling done before and after the dredging in order to measure the effect of dredging on water quality

- (2) a. Expenditures as of 07/01/07 (not including O&M costs):**
b. Expenditures anticipated from 07/01/07 through 06/30/08:

	Federal	State	Local	Total
a. \$		35,225	8,800	44,025
b. \$		28,775	7,200	35,975

(3) Estimated costs from 07/01/08 through 06/30/14:

	Federal	State	Local
Feasibility Study \$			
Construction \$		320,000	80,000
Operation and Maintenance \$			

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14
Federal \$						
State \$	320,000					
Local \$	80,000					

(4) Source of State Funds:

G.S. 143-215.71 G.S. 139.54 Other _____

(5) Status of Project:

Awaiting appropriation of State funds.

(6) Estimated Completion Date of Construction Phase: June 2009

Project Name: MOUNTAIN-TO-SEA (MTS) TRAIL STATE PARK PROJECT

(1) Description:

The Mountains-to-Sea (MTS) Trail meanders across the state for over 1,000 miles from Clingman's Dome in the Great Smokey Mountains National Park to Jockey's Ridge State Park in Dare County. The trail, started in 1973 when the General Assembly passed the North Carolina Trails System Act, consists of a network of footpaths, roads, and state bike routes.

The MST Trail passes through 37 counties and many sections of the trail are along major waters bodies. Some of the rivers are the North Fork of the Catawba, Linville, Davidson, French Broad, Fisher, Haw, East Fork Eno, South Fork Little, Flat, Neuse and North. Waterfall areas include the Steels Creek Falls, Harper Creek Falls, North Harper Creek Falls, Widow's Creek Falls and Big Sandy Creek Falls. Major lakes and bays along the MST route are Belews Lake, Lake Brandt, Townsend Lake, Falls Lake, Jarrett Bay and Nelson Bay.

This project will provide up to 100 percent funding to units of local governments for land acquisition and facility development along those sections of the MTS Trail that provide water-based recreation opportunities.

- (2) a. Expenditures as of 07/01/07 (not including O&M costs):**
- b. Expenditures anticipated from 07/01/07 through 06/30/08:**

	Federal	State	Local	Total
a. \$				
b. \$				

(3) Estimated costs from 07/01/08 through 06/30/14:

	Federal	State	Local
Feasibility Study \$			
Construction \$		500,000	
Operation and Maintenance \$			

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14
Federal \$						
State \$	500,000					
Local \$						

(4) Source of State Funds:

G.S. 143-215.71 G.S. 139.54 Other _____

(5) Status of Project:

Awaiting appropriation of State funds.

(6) Estimated Completion Date of Construction Phase: June 2009

Project Name: ONslow COUNTY WATERWAY PHASE 3, ONslow COUNTY

(1) Description:

Onslow County is requesting financial assistance to remove obstructions from over 100 miles of waterway throughout the County. The debris accumulations reduce flow and increase flooding potential in the affected areas.

- (2) a. Expenditures as of 07/01/07 (not including O&M costs):**
b. Expenditures anticipated from 07/01/07 through 06/30/08:

	Federal	State	Local	Total
a. \$		100,000	50,000	150,000
b. \$		150,000	75,000	225,000

(3) Estimated costs from 07/01/08 through 06/30/14:

	Federal	State	Local
Feasibility Study \$			
Construction \$		78,000	39,000
Operation and Maintenance \$			

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14
Federal \$						
State \$	78,000					
Local \$	39,000					

(4) Source of State Funds:

G.S. 143-215.71 G.S. 139.54 Other _____

(5) Status of Project:

Awaiting appropriation of State funds.

(6) Estimated Completion Date of Construction Phase: June 2009

Project Name: PINE KNOLL SHORES DREDGING PHASE 2 PROJECT, CARTERET COUNTY

(1) Description:

The Town of Pine Knoll Shores is requesting assistance to improve general navigation within the Pine Knoll Waterway. The project will spot dredge five locations to a width of 40 feet and to a depth of -5 feet removing 1,338 cubic yards of material.

- (2) a. Expenditures as of 07/01/07 (not including O&M costs):**
b. Expenditures anticipated from 07/01/07 through 06/30/08:

	Federal	State	Local	Total
a. \$				
b. \$				

(3) Estimated costs from 07/01/08 through 06/30/14:

	Federal	State	Local
Feasibility Study \$			
Construction \$		40,000	10,000
Operation and Maintenance \$			

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14
Federal \$						
State \$	40,000					
Local \$	10,000					

(4) Source of State Funds:

G.S. 143-215.71 G.S. 139.54 Other _____

(5) Status of Project:

Awaiting appropriation of State funds.

(6) Estimated Completion Date of Construction Phase: June 2009

Project Name: RIVERVIEW ACRES NAVIGATION PROJECT, PASQUOTANK COUNTY

(1) Description:

The Pasquotank Board of County Commissioners is requesting assistance to maintenance dredge 10,000 cubic yards of material from 5,000 feet of canals within the Riverview community for navigation purposes and to stabilize the banks so as to reduce the amount of material that fills in these canals.

- (2) a. Expenditures as of 07/01/07 (not including O&M costs):**
b. Expenditures anticipated from 07/01/07 through 06/30/08:

	Federal	State	Local	Total
a. \$				
b. \$				

(3) Estimated costs from 07/01/08 through 06/30/14:

	Federal	State	Local
Feasibility Study \$			
Construction \$		465,520	116,380
Operation and Maintenance \$			

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14
Federal \$						
State \$	465,520					
Local \$	116,380					

(4) Source of State Funds:

G.S. 143-215.71 G.S. 139.54 Other _____

(5) Status of Project:

Awaiting appropriation of State funds.

(6) Estimated Completion Date of Construction Phase: June 2009

Project Name: STEELE'S MILL DAM REMOVAL PROJECT, HITCHCOCK CREEK, RICHMOND COUNTY

(1) Description:

The Steele's Mill Dam is the first blockage to migratory fishes on Hitchcock Creek, a tributary of the Yadkin-Pee Dee River in Richmond County. Extensive runs of anadromous and catadromous fishes, including American shad, hickory shad, striped bass, Atlantic sturgeon, the federally-listed shortnose sturgeon, and the American eel migrate up the Pee Dee River annually. Historic records indicate that American shad and American eel occurred within Hitchcock Creek. The primary objective of the removal of the center section of Steele's Mill Dam is to restore historic spawning and juvenile ranges of the above-mentioned fish species. Numerous other aquatic organisms will also benefit from the removal the obstruction such as mussel species that depend upon larval transport. The dam consists of a 100-foot long, 15-foot high stone gravity dam and a powerhouse and out-of-date generating equipment that are currently not being used. Many federal, state and local agencies and groups are cooperating to assist in the partial removal of this dam. The funds below would be the State's contribution to this effort. The City of Rockingham is the local sponsor of this project.

(2) a. Expenditures as of 07/01/07 (not including O&M costs):

b. Expenditures anticipated from 07/01/07 through 06/30/08:

	Federal	State	Local	Total
a. \$		10,000		
b. \$		181,725		

(3) Estimated costs from 07/01/08 through 06/30/14:

	Federal	State	Local
Feasibility Study \$			
Construction \$		50,000	419,000
Operation and Maintenance \$			

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14
Federal \$						
State \$	50,000					
Local \$	419,000					

(4) Source of State Funds:

G.S. 143-215.71 G.S. 139.54 Other _____

(5) Status of Project:

Awaiting appropriation of State funds.

(6) Estimated Completion Date of Construction Phase: Winter, 2008-09

Project Name: STEWARTS CREEK SNAGGING PROJECT, DUPLIN COUNTY

(1) Description:

The Duplin County Soil and Water Conservation District is requesting assistance to remove woody debris blockages from an 8.7 mile reach of Stewarts Creek for drainage and flood control of agricultural land.

- (2) a. Expenditures as of 07/01/07 (not including O&M costs):**
b. Expenditures anticipated from 07/01/07 through 06/30/08:

	Federal	State	Local	Total
a. \$				
b. \$				

(3) Estimated costs from 07/01/08 through 06/30/14:

	Federal	State	Local
Feasibility Study \$			
Construction \$		170,407	89,203
Operation and Maintenance \$			

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14
Federal \$						
State \$	170,407					
Local \$	89,203					

(4) Source of State Funds:

G.S. 143-215.71 G.S. 139.54 Other _____

(5) Status of Project:

Awaiting appropriation of State funds.

(6) Estimated Completion Date of Construction Phase: June 2009

Project Name: SWANNANOA RIVER RESTORATION PROJECT, BUNCOMBE COUNTY

(1) Description:

The Buncombe County Soil and Water Conservation District is requesting assistance to stabilize a 150 linear foot reach of the Swannanoa River to reduce sediment loading and to protect a threatened home. The project design includes returning the river channel to its original location, stabilizing the bank by constructing a “J-Hook”, and establishing a flood prone bench.

- (2) a. Expenditures as of 07/01/07 (not including O&M costs):**
b. Expenditures anticipated from 07/01/07 through 06/30/08:

	Federal	State	Local	Total
a. \$				
b. \$				

(3) Estimated costs from 07/01/08 through 06/30/14:

	Federal	State	Local
Feasibility Study \$			
Construction \$		20,000	10,000
Operation and Maintenance \$			

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14
Federal \$						
State \$	20,000					
Local \$	10,000					

(4) Source of State Funds:

G.S. 143-215.71 G.S. 139.54 Other _____

(5) Status of Project:

Awaiting appropriation of State funds.

(6) Estimated Completion Date of Construction Phase: June 2009

Project Name: TAR RIVER SNAGGING PROJECT, EDGECOMBE COUNTY

(1) Description:

The Edgecombe Board of County Commissioners is requesting assistance to remove woody debris blockages from a 12.5 mile reach of the Tar River for drainage and flood control of agricultural land, urban development, and individual residences.

- (2) a. Expenditures as of 07/01/07 (not including O&M costs):**
b. Expenditures anticipated from 07/01/07 through 06/30/08:

	Federal	State	Local	Total
a. \$				
b. \$				

(3) Estimated costs from 07/01/08 through 06/30/14:

	Federal	State	Local
Feasibility Study \$			
Construction \$		43,750	21,875
Operation and Maintenance \$			

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14
Federal \$						
State \$	43,750					
Local \$	21,875					

(4) Source of State Funds:

G.S. 143-215.71 G.S. 139.54 Other _____

(5) Status of Project:

Awaiting appropriation of State funds.

(6) Estimated Completion Date of Construction Phase: June 2009

Project Name: UPPER SANDY CREEK RESTORATION PROJECT PHASE 3, DURHAM COUNTY

(1) Description:

The Durham County Soil and Water Conservation District is requesting assistance to reduce sediment loading into an unnamed tributary to Upper Sandy Creek located on the Duke University campus. This stream eventually flows into New Hope Creek and then Jordan Lake. New Hope Creek downstream from Sandy Creek is listed by NC, DWQ as a 303 (d), Impaired Water. This project will employ natural channel design methods to restore channel pattern, dimension, and profile and thus provide a self sustaining, meandering channel that has access to its former floodplain.

- (2) a. Expenditures as of 07/01/07 (not including O&M costs):**
b. Expenditures anticipated from 07/01/07 through 06/30/08:

	Federal	State	Local	Total
a. \$		160,000	80,000	240,000
b. \$		243,636	159,968	403,604

(3) Estimated costs from 07/01/08 through 06/30/14:

	Federal	State	Local
Feasibility Study \$			
Construction \$		298,646	197,362
Operation and Maintenance \$			

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14
Federal \$						
State \$	298,646					
Local \$	197,362					

(4) Source of State Funds:

G.S. 143-215.71 G.S. 139.54 Other _____

(5) Status of Project:

Awaiting appropriation of State funds.

(6) Estimated Completion Date of Construction Phase: June 2009

Project Name: UPPER WATAUGA RIVER RESTORATION PROJECT, WATAUGA COUNTY

(1) Description:

The Watauga County Soil and Water Conservation District is requesting assistance to reduce sediment loading into a 1,500 linear foot reach of the upper Watauga River. This reach of the river is classified as “High Quality Waterway” (Class B; Trout; HQW) by the North Carolina Division of Water Quality. Adjacent property owners have agreed to permanently preserve the project riparian corridor.

- (2) a. Expenditures as of 07/01/07 (not including O&M costs):**
b. Expenditures anticipated from 07/01/07 through 06/30/08:

	Federal	State	Local	Total
a. \$				
b. \$				

(3) Estimated costs from 07/01/08 through 06/30/14:

	Federal	State	Local
Feasibility Study \$			
Construction \$		168,000	84,000
Operation and Maintenance \$			

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14
Federal \$						
State \$	168,000					
Local \$	84,000					

(4) Source of State Funds:

G.S. 143-215.71 G.S. 139.54 Other _____

(5) Status of Project:

Awaiting appropriation of State funds.

(6) Estimated Completion Date of Construction Phase: June 2009

Project Name: WALNUT CREEK CURVERT PROJECT, ROBESON COUNTY

(1) Description:

The City of Lumberton is requesting assistance to replace a box culvert under North Walnut Street at the intersection of Pole Cat Branch and relocate a gas main and waterline under the culvert. In addition, the City will clear debris and vegetation from the Pole Cat Branch channel and re-grade and rip rap 200 linear feet of stream bank.

- (2) a. Expenditures as of 07/01/07 (not including O&M costs):**
b. Expenditures anticipated from 07/01/07 through 06/30/08:

	Federal	State	Local	Total
a. \$				
b. \$				

(3) Estimated costs from 07/01/08 through 06/30/14:

	Federal	State	Local
Feasibility Study \$			
Construction \$		83,324	41,662
Operation and Maintenance \$			

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14
Federal \$						
State \$	83,324					
Local \$	41,662					

(4) Source of State Funds:

G.S. 143-215.71 G.S. 139.54 Other _____

(5) Status of Project:

Awaiting appropriation of State funds.

(6) Estimated Completion Date of Construction Phase: June 2009

Project Name: WHITE SULFUR SPRINGS STREAM RESTORATION PROJECT, SURRY COUNTY

(1) Description:

The Surry County Soil and Water Conservation District is requesting assistance to reduce sediment loading into White Sulfur Springs, a tributary to the Ararat River just north of Mount Airy. The project will stabilize 3,000 feet of eroding stream banks and re-vegetate the adjacent riparian buffers.

- (2) a. Expenditures as of 07/01/07 (not including O&M costs):**
b. Expenditures anticipated from 07/01/07 through 06/30/08:

	Federal	State	Local	Total
a. \$				
b. \$				

(3) Estimated costs from 07/01/08 through 06/30/14:

	Federal	State	Local
Feasibility Study \$			
Construction \$		45,441	48,235
Operation and Maintenance \$			

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14
Federal \$						
State \$	45,441					
Local \$	48,235					

(4) Source of State Funds:

G.S. 143-215.71 G.S. 139.54 Other _____

(5) Status of Project:

Awaiting appropriation of State funds.

(6) Estimated Completion Date of Construction Phase: June 2009

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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.

<u>Project Name</u>	<u>Page No.</u>
Deep Creek, Yadkin County	91
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Project Name: DEEP CREEK, YADKIN COUNTY

(1) Description:

The Deep Creek Watershed project will provide flood protection and a municipal and industrial water supply for Yadkin County. The design for structure 5D was completed in December 2004. USDA-NRCS has provided \$620,451 in funding to cover the federal portion of the design costs for structure 5D. State and local funds totaling approximately \$3,600,000 have been used to pay for land rights and the non-federal portion of the design costs. A federal earmark of \$4,975,000 was received for this project in 2008. The remaining project cost will be the responsibility of the local sponsor. To date, a total of \$6,550,640 has been appropriated by the state for this project. Based on the engineer's most recent probable cost estimate, completed in February 2008, \$5.44 million is needed to meet the state's share of the local sponsor costs. It is anticipated that construction will begin in 2009 and will be completed with 2-3 years.

- (2) a. Expenditures as of 07/01/07 (not including O&M costs): \$4,290,451**
b. Expenditures anticipated from 07/01/07 through 06/30/08: \$150,000

	Federal	State	Local	Total
a.	620,451	1,835,000	1,835,000	4,290,451
b.	50,000	50,000	50,000	150,000

(3) Estimated costs from 07/01/08 through 06/30/2014:

	Federal	State	Local
Feasibility Study			
Construction	4,100,000	10,100,000	10,100,000
Operation and Maintenance			

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14
Federal	2,050,000	2,050,000				
State	5,050,000	5,050,000				
Local	5,050,000	5,050,000				

(4) Source of State Funds:

G.S. 143-215.71 G.S. 139.54 Other _____

(5) Status of Project:

The design for Structure 5D is complete. Project construction is anticipated to begin in 2009.

(6) Estimated Completion Date of Construction Phase: 2011

Project Name: SWAN QUARTER, HYDE COUNTY

(1) Description:

This project provides flood control and protection from saltwater intrusion to cropland in Hyde County. A total of 2.1 miles of dike remains to be constructed to complete the project. USDA-NRCS has received \$8,010,400 for this project since 2002. The remaining federal funding required for completion of the project is estimated at \$3,600,000.

- (2) a. Expenditures as of 07/01/07 (not including O&M costs): \$5,663,300**
b. Expenditures anticipated from 07/01/07 through 06/30/08: None

	Federal	State	Local	Total
a.	5,451,300	106,000	106,000	5,663,300
b.	0	0	0	0

(3) Estimated costs from 07/01/08 through 06/30/2014:

	Federal	State	Local
Feasibility Study			
Construction	6,400,000	550,000	550,000
Operation and Maintenance			

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14
Federal	1,400,000	1,400,000	3,600,000			
State	200,000	200,000	150,000			
Local	200,000	200,000	150,000			

(4) Source of State Funds:

G.S. 143-215.71 G.S. 139.54 Other _____

(5) Status of Project:

5.1 miles of earthen dike have been completed. Design and construction of the remaining portions are ongoing. Construction of the dike around the town of Swan Quarter was completed in August of 2007. An additional \$2,534,400 in federal funding was received in 2008. To date, \$400,000 in state funds has been appropriated for the project. An additional \$250,000 is requested as cost share for local sponsor costs.

(6) Estimated Completion Date of Construction Phase: 2011

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)

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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.

APPENDIX (continued)

(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, s. 11A.119(a).)

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