

***Natural Resources and Environmental Control
(40-00-00)***

Project Summary Chart

Project Name	STATE CAPITAL FUNDS					
	\$ Prior to FY 2004	FY 2004	FY 2005 Request	FY 2005 Recommended	FY 2006 Request	FY 2007 Request
1. Conservation Cost Share Program	\$ 2,345,000	\$ 2,345,000	\$ 2,345,000	\$ 2,345,000	\$ 2,500,000	\$ 2,500,000
2. Doxsee Site Improvements			2,100,000	2,100,000		
3. Tax/Public Ditches	800,000	800,000	800,000	800,000	800,000	800,000
4. Beach Preservation	1,000,000	1,000,000	1,000,000	1,000,000	10,200,000	1,000,000
5. Dams/Water Control Structures Rehabilitation	100,000	2,000,000	1,000,000	1,000,000	1,000,000	1,000,000
6. Park Rehabilitation	1,250,000	620,000	3,000,000		3,000,000	3,000,000
7. Minor Capital Improvement and Equipment	927,900	295,000	2,120,700	1,000,000		
N/A Blue Ball Recreational Facility			227,000	227,000		
TOTAL	\$ 6,422,900	\$ 7,060,000	\$ 12,592,700	\$ 8,472,000	\$ 17,500,000	\$ 8,300,000

NATURAL RESOURCES AND ENVIRONMENTAL CONTROL

40-00-00

1. Conservation Cost Share Program

Study

PROJECT DESCRIPTION AND JUSTIFICATION:

Funding is requested to sustain the Conservation Cost Share Program. This program is the state's principal financial support mechanism for the design and installation costs of an assortment of Best Management Practices (BMP) that will protect human health and the state's natural resources and water supplies by preventing urban and agricultural non-point source pollutants (NPS) from reaching surface and subsurface waters; protect Delaware's important farmland soils from excessive erosion; and provide wildlife habitat.

The Cost Share Program provides funds as incentives to landowners or users for the benefit of the public. Both urban and agricultural landowners that receive benefits must pay their share of the cost of the practice. Appropriated monies will be used to pay or assist in paying all costs required to locate, design, install and maintain conservation practices and systems. The 2002 Farm Bill's competitive allocation process impacts the availability of USDA cost share funds and requires states to target distribution of the funds they receive to state priority areas such as the Nanticoke or Inland Bays watersheds. Delaware has received over \$6.3 million in USDA Environmental Quality Incentives Program (EQIP) funds in the last five years; Delaware received \$3.4 million in EQIP funds for federal Fiscal Year 2003. In addition, Delaware is providing \$700,000 annually as match toward Conservation Reserve Enhancement Program funds provided by USDA.

Applications received under the state revolving loan fund program (SRF) for poultry and dairy management practices exceeded \$4.0 million in September 2003; the Agricultural SRF program started in September 1993.

The analysis of Conservation Cost Share Funds for the period Fiscal Year 1992 - 1997 revealed the following:

- The ratio of district cost share funds to total project costs is 1:0 to 1:9.
- Composting, animal waste and wildlife/ponds/forestry ratios all exceeded 1:0 to 2:2.
- Almost 75 percent (470 to 627) of all cost share requests were approved and of those approved, 86 percent (405 to 470) were completed. Sixty percent (187 to 312) of the animal waste and composting requests were approved and of those, 87 percent (162 to 187) were completed.

Of the request, a base of \$900,000 will be divided equally among the three counties to expand their programs; an additional \$1.4 million will be directed towards nutrient management efforts statewide. See Table 1.

Table 1 – FY 2005 Cost Share Program Targets

Projects	Water Quality	Erosion & Sediment Control	Water Mgmt.	Applied Research	Technical & Admin. Expenses	Repair of Failed Systems
<u>FY 2005</u>						
\$2,345,000	\$1,315,500	\$250,000	\$250,000	\$145,000	\$234,500	\$150,000

The key objective of the Conservation Cost Share Project is to prevent the introduction of non-point source pollution contaminants to Delaware's water supplies. This program, managed through the three county Conservation Districts, emphasizes voluntary use of BMPs. Concurrent with increased demand, the Conservation Districts' federal partners have made revisions to federal cost share funding programs. Overall federal cost share funds are stable at \$200.0 million nationally. Federal allocations are competitive and require states to prioritize and target environmental concerns.

NATURAL RESOURCES AND ENVIRONMENTAL CONTROL

40-00-00

Allocation awards will dictate the state's ability to use federal cost share funds outside of priority areas. Conservation Districts, with administrative help from DNREC's Divisions of Soil and Water Conservation and Water Resources have worked closely to use the State Revolving Loan Fund (SRF) to provide loans to poultry producers for manure storage and composting structures.

CAPITAL REQUEST:

	State Funds		Capital Funds From Other Sources		
	Authorized and Requested		Federal		Other *
FY 2003	\$	2,345,000	\$	2,000,000	\$ 1,100,000
FY 2004		2,345,000		2,000,000	1,100,000
FY 2005		2,345,000		2,000,000	1,100,000
FY 2006		2,500,000		2,000,000	1,100,000
FY 2007		2,500,000		2,000,000	1,100,000
TOTAL	\$	12,035,000	\$	10,000,000	\$ 5,500,000

* Funds categorized as "Other" include SRF Loans and private funds.

2. Doxsee Site Improvements

New Construction

PROJECT DESCRIPTION AND JUSTIFICATION:

Funding is requested to demolish and remove the interconnected buildings and associated concrete pads and footings, erect one 50' x 120' Butler style steel building and one 40' x 80' agricultural style pole shed at the Doxsee site and repair shoreline and replace dock (required to be moved for Fish and Wildlife boat ramp) for large dredge. The site is located on the west side of the Broadkill River adjacent to the College of Marine Studies and is zoned as light industrial (I-2). The site is improved by a vacant one-level masonry, steel, and wood clam processing plant no longer in use. The plant improvements originally comprised 17 buildings (many interconnected) containing a total of 78,732 square feet of gross building area. The roof has collapsed on one of the buildings. Other buildings have been torn down for safety reasons. Docking facilities presently exist, but need to be improved. Public water, sewer and electric are available from the City of Lewes.

The Doxsee site was purchased in Fiscal Year 1996 and provides a multi-use facility for the Department of Natural Resources and Environmental Control. This property serves as a field headquarters for the Shoreline and Waterway Management Section of the Division of Soil and Water Conservation. It provides water access for its dredging and marine based equipment and indoor storage for all of its other heavy equipment, supplies and materials. It provides shop space and serves as a repair facility for both land based and maritime equipment. Heavy overhaul of the dredges is possible in Delaware for the first time, eliminating expensive tows to the Chesapeake Bay. The Division of Parks and Recreation receives indoor storage for equipment used only in the summer season. The Division of Fish and Wildlife currently utilizes the property as a staging area for its Artificial Reef Program and plans to relocate the public boat launching facility in downtown Lewes to the eastern portion of the Doxsee property. The plan is to save costs by contracting this Doxsee Site Improvement project in conjunction with the relocation of the public boat launching facility.

NATURAL RESOURCES AND ENVIRONMENTAL CONTROL

40-00-00

FACILITY DATA:

Present Facility	Proposed Facility
Location: 901 Pilottown Road, Lewes	Location: Same
Gross # square feet: 59,151	Gross # square feet: 10,000
Age of building: Approx. 45 years	Estimated time needed to complete project: 18 mos.
Age of additions: 33 years (partially rebuilt after 1970 fire)	Estimated date of occupancy: December 2005
Year of last renovations: 1980	Estimated life of improvement: 50 years

CAPITAL REQUEST:

State Funds		Capital Funds From Other Sources		
Authorized and Requested		Federal		Other
FY 2005	\$ 2,100,000	\$	0	\$ 0
TOTAL	\$ 2,100,000	\$	0	\$ 0

COST COMPONENT:

	Cost by Item	Cost by Phase				
	Amount	Pre-Design	Property Acq.	Design	Demolition and Construction	Equipment
Pre-Design	\$500,000				\$500,000	
Total Construction Cost (TCC)	1,550,000				1,550,000	
A/E Fee (% of TCC)	50,000			\$50,000		
Total Project Cost	\$2,100,000			\$50,000	\$2,050,000	

SCHEDULE:

	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007
Pre-Design					Dec 04		
Construction						Dec 05	
Completion						Dec 05	

NATURAL RESOURCES AND ENVIRONMENTAL CONTROL

40-00-00

3. Tax/Public Ditches

Study

PROJECT DESCRIPTION AND JUSTIFICATION:

Funding is requested for the reconstruction of deteriorated drainage channels and related water control facilities. Constructing environmentally sensitive projects requires minimizing temporary and permanent disturbances to all natural resources in the project area. Existing and proposed projects are evaluated for water control structures to improve runoff water quality. These will be installed in existing projects as appropriate. Stream Corridor and wetland restoration and wetland compensation projects are included as part of channel projects to ensure the State's goal of "no net loss" for freshwater wetlands and to support the department's biodiversity initiative. A portion of these funds is used to construct highway crossings necessary for the completion of the channels and for related installation equipment.

These projects promote economic development by providing a strong agricultural base. They also provide a basis for additional best management practices to be constructed, thereby protecting the natural resources and the health and safety of Delawareans. Many towns, cities, suburbs and strip developments also depend on these projects for drainage and flood control.

The Tax/Public Ditch Program provides the basis for organizing and maintaining drainage organizations in the State to the end that the conservation of the soil, water, forest, wetlands and other resources of the State will be accomplished in a practical manner.

This request includes funds for multi-year projects. The loss of these funds would result in a delay in constructing currently planned drainage projects, thereby preventing the resolution of drainage problems and flood control for many properties statewide.

In addition, many current projects now require permit acquisition from the Army Corp of Engineers to allow construction in wetland and stream portions of the projects. These permits will be accompanied by federally mandated wetland mitigation. This federally mandated mitigation must meet strict requirements for plans, specifications, construction and future monitoring, to assure success and longevity of the mitigation area.

CAPITAL REQUEST:

	State Funds		Capital Funds From Other Sources		
	Authorized and Requested		Federal		Other *
FY 2003	\$	800,000	\$	100,000	\$ 320,000
FY 2004		800,000		100,000	320,000
FY 2005		800,000		100,000	320,000
FY 2006		800,000		100,000	320,000
FY 2007		800,000		100,000	320,000
TOTAL	\$	4,000,000	\$	500,000	\$ 1,600,000

* The source of funds categorized as "Other" is local funds.

4. Beach Preservation

Renovation

PROJECT DESCRIPTION AND JUSTIFICATION:

Funding is requested to carry out the state's beach preservation program along the Atlantic Ocean coast and Delaware Bay shoreline. Typical work includes beach nourishment, structural erosion control measures, public dune maintenance and emergency storm repair and cleanup. Work is only

NATURAL RESOURCES AND ENVIRONMENTAL CONTROL

40-00-00

done on publicly accessible beaches and may involve cost sharing with the federal and/or local governments.

Delaware's beaches are generally eroding and migrating landward in response to coastal storms and sea level rise. These projects improve protection to shorefront homes, businesses, roads and utilities and enhance the basis of the State's coastal recreation and tourism industry.

Under normal conditions it is estimated that the department will have to place one-half of the fill initially placed on the above ocean beaches approximately every three to five years to satisfactorily maintain them until federally cost shared projects are developed, authorized and implemented. The department is the local sponsor of cost shared studies with the federal government (Corps of Engineers) to develop such projects. Initial construction of the federal shore protection project at Roosevelt Inlet/Lewes Beach began in Fiscal Year 2004.

Funds requested in Fiscal Years 2005, 2006 and 2007 will be used for the non-federal share of the cost for detailed planning, engineering, and design of a federal shore protection project at Fenwick Island; the non-federal share of the cost of construction of federal shore protection projects at Rehoboth Beach/Dewey Beach, Bethany Beach/South Bethany, Fenwick Island, Port Mahon, and Broadkill Beach; state replenishment projects along the Delaware Bay shore; general dune maintenance and miscellaneous expenses required to carry out the program.

CAPITAL REQUEST:

	State Funds		Capital Funds From Other Sources		
	Authorized and Requested		Federal	Other *	
FY 2003	\$	1,000,000	\$	11,908,000	\$ 1,919,000
FY 2004		1,000,000		4,627,300	2,034,000
FY 2005		1,000,000		11,118,200	2,156,000
FY 2006		10,200,000		19,370,100	2,285,000
FY 2007		1,000,000		0	2,422,000
TOTAL	\$	14,200,000	\$	47,023,600	\$ 10,816,000

* The source of funds categorized as "Other" is Public Accommodations Tax Funds.

5. Dams/Water Control Structures Rehabilitation

New Construction

PROJECT DESCRIPTION AND JUSTIFICATION:

Funding is requested for the water control structure replacement at Haven Lake. A review of the structure has revealed that it is considered a high hazard dam and in need of replacement. Safety and property damage issues below the structures that would result from a breach or washout necessitates that the Haven Lake water control structure be given a high priority for construction.

CAPITAL REQUEST:

	State Funds		Capital Funds From Other Sources		
	Authorized and Requested		Federal	Other	
FY 2003	\$	100,000	\$	0	0
FY 2004		2,000,000		0	0
FY 2005		1,000,000		0	0
FY 2006		1,000,000		0	0
FY 2007		1,000,000		0	0
TOTAL	\$	5,100,000	\$	0	0

NATURAL RESOURCES AND ENVIRONMENTAL CONTROL

40-00-00

COST COMPONENT:

	Cost by Item	Cost by Phase				
	Amount	Pre-Design	Property Acq.	Design	Construction	Equipment
A/E Fee (% of TCC)	\$100,000			\$100,000		
Construction Monitoring (zero \$ if DAS managed)	900,000				\$900,000	
Total Project Cost	\$1,000,000			\$100,000	\$900,000	

SCHEDULE:

	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007
Design					Sept 04		
Construction					June 05		
Completion					June 05		

6. Park Rehabilitation

Renovations

PROJECT DESCRIPTION AND JUSTIFICATION:

The State Park System contains over 450 buildings in 14 parks comprising over 23,000 acres. These include a wide range of structures, facilities, trails and exhibits intended for public use, maintenance and administration. Each park unit also contains infrastructure utilities that are in need of major repair and/or replacement.

Funding is requested for major infrastructure repair/replacement to wastewater treatment and conveyance systems, water distribution as well as electrical primary distribution systems as noted below:

Wastewater

Delaware Seashore State Park	\$600,000
Lums Pond State Park	750,000
Fort duPont State Park	100,000

Water Distribution

Delaware Seashore	400,000
-------------------	---------

NATURAL RESOURCES AND ENVIRONMENTAL CONTROL

40-00-00

Electrical Distribution

Lums Pond State Park	650,000
Engineering and contract administration	500,000
Total	\$3,000,000

CAPITAL REQUEST:

	State Funds		Capital Funds From Other Sources	
	Authorized and Requested		Federal	Other
FY 2003	\$	1,250,000	\$	0
FY 2004		620,000		0
FY 2005		3,000,000		0
FY 2006		3,000,000		0
FY 2007		3,000,000		0
TOTAL	\$	10,870,000	\$	0

COST COMPONENT:

	Cost by Item	Cost by Phase				
	Amount	Pre-Design	Property Acq.	Design	Construction	Equipment
Total Construction Cost (TCC)	\$2,225,000				\$2,225,000	
A/E Fee (% of TCC)	200,000			\$200,000		
Construction Monitoring (zero \$ if DAS managed)	300,000				300,000	
Environmental /Archeological Studies	50,000	\$50,000				
Project Contingency	225,000				225,000	
Total Project Cost	\$3,000,000	\$50,000		\$200,000	\$2,750,000	

NATURAL RESOURCES AND ENVIRONMENTAL CONTROL

40-00-00

SCHEDULE:

	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007
Pre-Design					Dec 04		
Design					Mar 05		
Construction					June 05		
Completion					June 05		

7. Minor Capital Improvement and Equipment

PROJECT DESCRIPTION AND JUSTIFICATION:

Funding is requested for a variety of new and replacement equipment.

<u>Division of Fish and Wildlife</u>	\$785,500
Aquatic Aerator Systems for Kent and Sussex ponds	
Dump trucks (3)	
Farm tractors (4)	
Front-end loader	
Ultrasonic cleaning system for duty weapons	
Patrol boats (2)	
Bulldozer	
Fogger for applications (replacements)	
Heavy-duty flat bed tilt trailer	
Wolverine marsh ATV Argo	
Small equipment trailer	
<u>Division of Parks and Recreation</u>	\$341,500
35 HP tractor with loader and bucket (2 replacements)	
Mower with blower and attachments (2)	
Kawasaki Mule with blade	
Goosen Vera Vac	
Trailer 6 x 8	
Bush Chipper (replacement)	
ATVs	
Riding mowers (3 replacements)	
<u>Division of Soil and Water</u>	\$693,900
Georgetown yard improvements	
Hydraulics Excavator	
Marine Oil/Water separator	
Low D.O. Situation Response System	
DNERR renovations	
<u>Division of Water Resources</u>	\$299,800
Laboratory glassware washer/dryer	
Flow meter	
Deployable field measurement instruments	
GC/MS for VOA analyses	
GC/ECD for Pesticide PCB analyses	
Laboratory autoclave/sterilizer	
Total	\$2,120,700

NATURAL RESOURCES AND ENVIRONMENTAL CONTROL
40-00-00

CAPITAL REQUEST:

	State Funds		Capital Funds From Other Sources		
	Authorized and Requested		Federal	Other	
FY 2003	\$	927,900	\$	0	\$ 0
FY 2004		295,000		0	0
FY 2005		2,120,700		0	0
TOTAL	\$	3,343,600	\$	0	\$ 0

FISCAL YEAR 2006

1. Conservation Cost Share Program **\$2,500,000**

See Project Descriptions for FY 2005.

2. Tax/Public Ditches **\$800,000**

See Project Descriptions for FY 2005.

3. Beach Preservation **\$10,200,000**

See Project Descriptions for FY 2005.

4. Dams/Water Control Structures Rehabilitation **\$1,000,000**

See Project Descriptions for FY 2005.

5. Park Rehabilitation **\$3,000,000**

See Project Descriptions for FY 2005.

FISCAL YEAR 2007

1. Conservation Cost Share Program **\$2,500,000**

See Project Descriptions for FY 2005.

2. Tax/Public Ditches **\$800,000**

See Project Descriptions for FY 2005.

3. Beach Preservation **\$1,000,000**

See Project Descriptions for FY 2005.

NATURAL RESOURCES AND ENVIRONMENTAL CONTROL
40-00-00

4. Dams/Water Control Structures Rehabilitation **\$1,000,000**

See Project Descriptions for FY 2005.

5. Park Rehabilitation **\$3,000,000**

See Project Descriptions for FY 2005.