

**NATURAL RESOURCES AND ENVIRONMENTAL CONTROL**  
**40-00-00**

**Project Summary Chart**

Project Name	STATE CAPITAL FUNDS					
	FY 2017	FY 2018	FY 2019 Request	FY 2019 Recommended	FY 2020 Request	FY 2021 Request
1. Shoreline and Waterway Management	\$3,161,921	\$2,198,191	\$5,000,000	<b>\$4,178,129</b>	\$5,000,000	\$5,000,000
2. Conservation Cost Share	1,500,000	1,500,000	2,000,000	<b>1,700,000</b>	2,000,000	2,000,000
3. Conservation Reserve Enhancement Program (CREP)	1,000,000	160,000	100,000	<b>100,000</b>	100,000	100,000
4. Clean Water State Revolving Fund	1,400,000	1,400,000	1,400,000	<b>3,000,000</b>	1,400,000	1,400,000
5. Tax Ditches	1,148,700	1,148,700	1,400,000	<b>1,148,700</b>	1,400,000	1,400,000
6. Park Facility Rehab and Public Recreational Infrastructure	3,500,000	3,500,000	6,500,000	<b>4,000,000</b>	8,500,000	8,500,000
7. Dikes/Dams	1,500,000	1,500,000	1,000,000	<b>1,000,000</b>	1,000,000	1,000,000
8. Statewide Trails and Pathways	2,500,000		2,500,000		2,500,000	2,500,000
9. Resource, Conservation and Development	3,812,800		3,000,000		3,000,000	3,000,000
10. Environmental Laboratory Relocation			1,000,000		7,000,000	
11. Permitting, Registration and Licensing			1,500,000		1,500,000	1,500,000
12. Critical Equipment for Operations			2,000,000		2,000,000	2,000,000
13. Minor Capital Improvement and Equipment			2,500,000		2,500,000	2,500,000
14. Delaware Bayshore Initiative	500,000	500,000	500,000	<b>500,000</b>	500,000	500,000
15. Killens Pond Waterpark Improvements			3,500,000		3,000,000	3,000,000
16. Redevelopment of Strategic Sites (NVF)	2,500,000	2,500,000	3,000,000	<b>2,500,000</b>	3,000,000	1,000,000
17. Cape Pier Replacement			650,000		8,000,000	7,000,000

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Project Name	STATE CAPITAL FUNDS					
	FY 2017	FY 2018	FY 2019 Request	FY 2019 Recommended	FY 2020 Request	FY 2021 Request
18. Coastal Impoundments and Water Control Structure Rehabilitation/Replacement			1,000,000		1,000,000	
19. Fort Miles Museum			500,000	<b>100,000</b>	500,000	500,000
20. Debris Pits			500,000		500,000	500,000
21. Renovation of Richardson and Robbins Building			1,300,000		1,300,000	1,300,000
22. Water Supply Monitoring Network	713,000		810,000			
23. Poplar Thicket Erosion Project			750,000		2,000,000	
24. Lukens Drive Office Purchase			1,800,000			
N/A Redevelopment of Strategic Sites (Fort DuPont)	2,000,000	2,250,000		<b>2,250,000</b>		
N/A Biden Center Renovations				<b>1,300,000</b>	5,500,000	
<b>TOTAL</b>	<b>\$25,236,421</b>	<b>\$16,656,891</b>	<b>\$44,210,000</b>	<b>\$21,776,829</b>	<b>\$63,200,000</b>	<b>\$44,700,000</b>

### 1. Shoreline and Waterway Management

#### PROJECT DESCRIPTION

Funding is requested to carry out the State's Beach Preservation program along the Atlantic Ocean coast and Delaware Bay shoreline, the Delaware Inland Bays sediment management, Indian River Bypass Project and University of Delaware Citizen Monitoring program efforts.

Under the State's Beach Preservation program, work typically includes beach nourishment, structural erosion control measures, public dune maintenance and emergency storm repair and cleanup. Work is done only on publicly accessible beaches and may involve cost sharing with federal and local governments. Under plans prepared by the U.S. Army Corps of Engineers, federal cost-shared beach nourishment projects are undertaken on a three to five-year cycle for 50 years. Funding is

requested to provide a match for federal funds to nourish Rehoboth, Dewey and Lewes beaches.

The funds requested will support the implementation of phase one of the 10-year Delaware Bay Beach Management Plan.

Utilizing state resources and private contractors, the Delaware Inland Bays sediment management multi-year plan includes emphasis on waterway management projects and operations, and environmental restoration initiatives in and near the State's Inland Bays. Funding is requested to construct a beneficial reuse/island restoration dredging project in the federally-authorized channel in Massey's Ditch. Funding is also requested to perform ongoing waterway management operations in the State's Inland Bays by: placing navigational aids properly marking channels for the boating public; removing nuisance accumulations of macro algae from near shore and shoreline areas; and removing abandoned vessels and derelict structures from waterways, to ensure safe navigation. The University of Delaware provides training for volunteers to monitor macro algae

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accumulations and water quality improvements resulting from restoration activities.

## CAPITAL REQUEST

### FUNDING

	STATE	FEDERAL	OTHER*
FY 2017	\$3,161,921	\$1,400,000	\$3,225,000
FY 2018	2,198,191	1,400,000	3,800,000
FY 2019	5,000,000	20,990,000	3,800,000
FY 2020	5,000,000	7,740,000	3,800,000
FY 2021	5,000,000	11,740,000	3,800,000

**TOTAL**                      **ONGOING**                      **ONGOING**                      **ONGOING**  
 \*The sources of Other funds are the Public Accommodation Tax and Waterway Management Fund.

## 2. Conservation Cost Share

### PROJECT DESCRIPTION

Funding is requested to expand the Conservation Cost Share program. This program is the State's principal financial support mechanism for the design and installation costs of practices that provide water quality improvements; provide wildlife habitat; and protect human health, natural resources, water supplies and Delaware's farmland soils. The program provides funds as incentives to landowners or users for the public benefit. Landowners that receive benefits must pay a portion of the cost to locate, design, install and maintain conservation practices and systems. Of the amount needed for this program, 70 percent will be divided equally among the three counties to expand their programs. The remaining balance will be directed toward nutrient management efforts statewide.

## CAPITAL REQUEST

### FUNDING

	STATE	FEDERAL	OTHER
FY 2017	\$1,500,000	\$2,000,000	\$0
FY 2018	1,500,000	2,000,000	0
FY 2019	2,000,000	2,000,000	0
FY 2020	2,000,000	2,000,000	0
FY 2021	2,000,000	2,000,000	0
<b>TOTAL</b>	<b>ONGOING</b>	<b>ONGOING</b>	<b>\$0</b>

## 3. CREP

### PROJECT DESCRIPTION

Funding is requested for the renewal of approximately 1,000 acres of marginal agriculture land currently protected by expiring CREP contracts. The state share of these contract renewals varies from 27 percent to 36 percent, depending on the conservation practice. The stream buffers and restored wetlands, established through CREP, reduce nutrient and sediment loadings; improve water temperature and levels of dissolved oxygen, which are necessary to support biology and wildlife; increase upland wildlife habitat; and create wildlife corridors.

## CAPITAL REQUEST

### FUNDING

	STATE	FEDERAL	OTHER
FY 2017	\$1,000,000	\$2,000,000	\$0
FY 2018	160,000	1,000,000	0
FY 2019	100,000	1,000,000	0
FY 2020	100,000	1,000,000	0
FY 2021	100,000	1,000,000	0
<b>TOTAL</b>	<b>ONGOING</b>	<b>ONGOING</b>	<b>\$0</b>

## 4. Clean Water State Revolving Fund

### PROJECT DESCRIPTION

Funding is requested to provide state matching funds for the Federal Clean Water State Revolving Fund Capitalization grant. It is anticipated that Delaware's 2019 federal grant will be approximately \$7.0 million, which requires a 20 percent state match. This funding request will support the Water Infrastructure Advisory Council and its 2018 Intended-Use Plan for facility projects.

## CAPITAL REQUEST

### FUNDING

	STATE	FEDERAL	OTHER
FY 2017	\$1,400,000	\$6,525,000	\$0
FY 2018	1,400,000	6,474,000	0
FY 2019	1,400,000	7,000,000	0
FY 2020	1,400,000	7,000,000	0
FY 2021	1,400,000	7,000,000	0
<b>TOTAL</b>	<b>ONGOING</b>	<b>ONGOING</b>	<b>\$0</b>

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## 5. Tax Ditches

### PROJECT DESCRIPTION

Funding is requested for planning, surveying, engineering, permitting, inspecting and constructing drainage infrastructure, channels and related water management projects. Constructing environmentally-sensitive projects requires minimizing temporary and permanent disturbances to all natural resources in the project area. A portion of these funds will be used to investigate watershed and drainage resources to provide information for the completion of water management improvement projects and related construction. This funding also allows the drainage program to provide technical assistance to more than 215 tax ditch organizations, private landowners and public agencies statewide.

### CAPITAL REQUEST

#### FUNDING

	STATE	FEDERAL	OTHER
FY 2017	\$1,148,700	\$0	\$0
FY 2018	1,148,700	0	0
FY 2019	1,400,000	0	0
FY 2020	1,400,000	0	0
FY 2021	1,400,000	0	0
<b>TOTAL</b>	<b>ONGOING</b>	<b>\$0</b>	<b>\$0</b>

## 6. Park Facility Rehab and Public Recreational Infrastructure

### PROJECT DESCRIPTION

Funding is requested to rehabilitate the State's park and wildlife area systems, which currently contain more than 700 buildings in 32 public access areas on nearly 100,000 acres.

#### Facility Maintenance

Funding is requested for deferred maintenance projects and upgrades of buildings, as well as the demolition of unsafe and unneeded structures.

#### Critical Roofing

Funding is requested for the repair and replacement of several roofs on buildings in the state park system and wildlife areas.

### Road Rehabilitation

Funding is requested to begin repair of the 40-plus miles of roads within the park system and wildlife areas, which are not eligible for Department of Transportation or Federal Highway Administration funds. Inventory and assessment reports have been completed for Cape Henlopen and Killens Pond. Other park road systems will be investigated in the coming years.

### Utility Infrastructure

Funding is requested to replace aging utility and telecommunication infrastructure throughout the department's properties. These upgrades could be wholesale replacement, major maintenance, efficiency measures or installation of renewable energy systems not previously found on the property.

### Historic Building and Structure Stabilization

Funding is requested for the repair and stabilization of historic structures within the department's inventory. This funding could be used to match federal and private grants and programs for historic preservation.

### CAPITAL REQUEST

#### FUNDING

	STATE	FEDERAL	OTHER
FY 2017	\$3,500,000	\$0	\$0
FY 2018	3,500,000	2,862,500	0
FY 2019	6,500,000	2,765,000	0
FY 2020	8,500,000	750,000	0
FY 2021	8,500,000	500,000	0
<b>TOTAL</b>	<b>ONGOING</b>	<b>ONGOING</b>	<b>\$0</b>

## 7. Dikes/Dams

### PROJECT DESCRIPTION

Funding is requested to perform emergency planning and monitoring, dam engineering, maintenance repairs and general construction for state-owned dams. Major capital improvements initiated by the Department of Natural Resources and Environmental Control (DNREC) include Garrisons Lake, and Concord, Chipmans, Craigs, Trap and Mud Mill Ponds. Funding will be used for the construction of these improvements and priority will continue to be dependent on final construction estimates, environmental permitting and final designs.

A full dikes and associated structure inventory is currently underway. Fiscal Year 2018 funding is being used for engineering, designing and repairing essential apparatus for dike structures. Construction funding for dikes is requested for Fiscal Year 2019 and beyond.

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### CAPITAL REQUEST FUNDING

	STATE	FEDERAL	OTHER
FY 2017	\$1,500,000	\$0	\$0
FY 2018	1,500,000	0	0
FY 2019	1,000,000	0	0
FY 2020	1,000,000	0	0
FY 2021	1,000,000	0	0
<b>TOTAL</b>	<b>ONGOING</b>	<b>\$0</b>	<b>\$0</b>

## 8. Statewide Trails and Pathways

### PROJECT DESCRIPTION

Funding is requested for trail and pathway development to expand recreational and transportation opportunities for Delawareans and visitors. Project funding will leverage existing and new resources from state, federal and private investments to continue Delaware's national leadership in providing a world-class interconnected network of shared-use pathways and trails that will support non-motorized travel and recreational trail opportunities.

The long-term vision for trails and pathways in Delaware includes:

- Building a world-class interconnected pathway network;
- Supporting the creation of local jobs;
- Linking communities to support local sustainable economies and grow connections between neighborhoods, towns and cities;
- Developing sustainable practices in creating the network through native landscaping and natural habitats;
- Supporting healthy communities by providing affordable, active transportation choices;
- Supporting healthy families and Children in Nature;
- Maintaining Delaware's ranking in the top 10 of bicycle-friendly states; and
- Developing strategies for the ongoing maintenance and upgrades of existing facilities.

In collaboration with the Department of Transportation, Bicycle Council, Pedestrian Advisory Committee, Council on Greenways and Trails, communities and other stakeholders, the department is continuing to implement the First State Trails and Pathways Initiative.

Many of these projects are multi-phase and will be implemented in segments over the next couple years.

This request for funding will be dedicated to support implementation of those projects identified and prioritized in the plan, including essential equipment and/or systems necessary to commission these sites and structures for public use.

### CAPITAL REQUEST FUNDING

	STATE	FEDERAL	OTHER
FY 2017	\$2,500,000	\$0	\$0
FY 2018	0	850,000	0
FY 2019	2,500,000	850,000	0
FY 2020	2,500,000	850,000	0
FY 2021	2,500,000	850,000	0
<b>TOTAL</b>	<b>ONGOING</b>	<b>ONGOING</b>	<b>\$0</b>

## 9. Resource, Conservation and Development

### PROJECT DESCRIPTION

Funding is requested to continue the design and construction of Resource, Conservation and Development projects statewide.

### CAPITAL REQUEST FUNDING

	STATE	FEDERAL	OTHER
FY 2017	\$3,812,800	\$0	\$0
FY 2018	0	0	0
FY 2019	3,000,000	0	0
FY 2020	3,000,000	0	0
FY 2021	3,000,000	0	0
<b>TOTAL</b>	<b>ONGOING</b>	<b>\$0</b>	<b>\$0</b>

## 10. Environmental Laboratory Relocation

### PROJECT DESCRIPTION

Funding is requested to relocate the DNREC Environmental Laboratory Section (currently in the Richardson and Robbins Building) to adjoin the Department of Health and Social Services' Public Health Laboratory located in Smyrna. A complete review and conceptual design study has been completed by an architect. The study provides details of the costs, construction and efficiencies gained by the proposed relocation.

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Construction will include an addition onto the existing Public Health Laboratory as well as renovation of existing spaces to allow efficient uses of laboratory and office spaces. The project will include consolidation of shared laboratory functions, removal of office functions from the physical laboratories and maximization of space for laboratory operations.

DNREC's current laboratory is in need of significant upgrades and repairs to continue the environmental testing, monitoring, assessment and information services to benefit both citizens and the natural environment. By relocating the laboratory to the same location as the Public Health Laboratory, there will be significant efficiencies gained in consolidating laboratory and office spaces, consolidating certain laboratory functions, and reducing the overall footprint and square footage used.

### CAPITAL REQUEST FUNDING

	STATE	FEDERAL	OTHER
FY 2019	\$1,000,000	\$0	\$0
FY 2020	7,000,000	0	0
FY 2021	0	0	0
<b>TOTAL</b>	<b>\$8,000,000</b>	<b>\$0</b>	<b>\$0</b>

## 11. Permitting, Registration and Licensing

### PROJECT DESCRIPTION

Funding is requested to provide for the development of a department-wide Permitting, Registration and Licensing system. A modernized system will streamline the customers' experience to a single interface for licenses, tags, permits, leases and registration sales. The automated customer-centric system will encompass all sales channels and enable comprehensive tracking and reporting analysis; be compatible with all computers and mobile devices; and be compatible to English and Spanish-speaking customers.

Additionally, the new system will allow the Division of Fish and Wildlife to enter into the Interstate Wildlife Violator Compact (IWVC), as required by Delaware law. The IWVC is an interstate agreement between member states to enhance compliance with hunting, fishing and other wildlife laws of member states and to provide for the fair and impartial treatment of wildlife and fisheries violators.

The new system will also enhance compliance with other state and national entities, as follows:

- Provide an interface with Child Support Enforcement to ensure the suspension or denial of renewals of any license to ineligible citizens;
- Provide automated reporting to Delaware Criminal Justice Information System to identify stolen boats and/or determine if boats being registered are stolen; and
- Provide automated reporting to U.S. Fish and Wildlife Service and the National Marine Fisheries Service to report hunting harvest data associated with migratory bird hunting, license certifications and the number of both exempt and nonexempt anglers.

Funding is also requested to expand the department's use of EQUIS™ to streamline operating procedures and data storage/retrieval.

Funding is also requested to consolidate and cleanse DNREC's primary databases.

### CAPITAL REQUEST FUNDING

	STATE	FEDERAL	OTHER
FY 2019	\$1,500,000	\$0	\$0
FY 2020	1,500,000	0	0
FY 2021	1,500,000	0	0
<b>TOTAL</b>	<b>\$4,500,000</b>	<b>\$0</b>	<b>\$0</b>

## 12. Critical Equipment for Operations

### PROJECT DESCRIPTION

Funding is requested for the acquisition/replacement of critical equipment essential in performing environmental and natural resource operations, conservation, protection and research activities. These critical equipment assets have a useful life of more than 10 years and provide public services and infrastructure support to nearly 100,000 acres of public land, 700 buildings, 16 state parks, 16 wildlife management areas, 10 natural preserves, two national estuarine research reserve sites, 65 freshwater ponds and marine access areas, all Delaware waterways, and environmental laboratory services.



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## CAPITAL REQUEST

### FUNDING

	STATE	FEDERAL	OTHER
FY 2017	\$0	\$0	\$0
FY 2018	0	0	0
FY 2019	2,000,000	0	0
FY 2020	2,000,000	0	0
FY 2021	2,000,000	0	0
<b>TOTAL</b>	<b>ONGOING</b>	<b>\$0</b>	<b>\$0</b>

## 13. Minor Capital Improvement and Equipment

### PROJECT DESCRIPTION

Funding is requested for Minor Capital Improvement and Equipment projects for the department's public facilities. The proposed projects include building and facility repairs/rehabilitation, including, but not limited to: Delaware Seashore; Fort Delaware; Cape Henlopen; Brandywine Creek and Brandywine Zoo; Wildlife Regions 1, 2 and 3; DuPont Nature Center; Mallard Lodge; Aquatic Resources Education Center; Ted Harvey; North Bowers; Little Creek Fisheries Building; Blackbird Creek; and St. Jones.

## CAPITAL REQUEST

### FUNDING

	STATE	FEDERAL	OTHER
FY 2017	\$0	\$0	\$0
FY 2018	0	0	0
FY 2019	2,500,000	0	0
FY 2020	2,500,000	0	0
FY 2021	2,500,000	0	0
<b>TOTAL</b>	<b>ONGOING</b>	<b>\$0</b>	<b>\$0</b>

## 14. Delaware Bayshore Initiative

### PROJECT DESCRIPTION

Funding is requested for the Delaware Bayshore Initiative, which is recognized by the U.S. Department of the Interior as part of the America's Great Outdoors Initiative. Funding will leverage existing and new resources from Open Space, department fees and incentive programs, Land Conservation Funds, Penalty Funds/Coastal Zone Act Offsets, Federal Land and Water Conservation, federal grant funds, bond and private investments.

The Delaware Bayshore Initiative is aligned with efforts that focus on conservation, recreation, education and community engagement. It also supports economic growth by making the Bayshore a world-class ecotourism destination. It will improve the quality of life for residents and visitors through healthy outdoor recreation opportunities that enhance and prepare Delaware for the future.

Achieving the vision of the Delaware Bayshore becoming a premier global destination for birding, wildlife watching, hunting and outdoor recreation will require:

- Ecological restoration, including the enhancement of stream and wetland corridors and the restoration of coastal wetland, meadow and forest habitats;
- Resource protection including the installation of barriers and signage that prevent motorized vehicle access, vandalism and damage to habitat areas;
- Connections between local communities and waterways by providing trails, pathways and access areas;
- Repair and maintenance of trails and viewing areas for safe recreational experiences;
- Enhanced access to waterways by providing safe kayak and canoe access points and ensuring safe parking capacity at access points;
- Enhanced visitor engagement through the development of wildlife watching platforms, towers and blinds, trail enhancements, signage and interpretation structures, development of web and cell phone applications and interpretative guides, maps and waypoint signs and other promotional material and guides to attract regional, national and international visitors;
- Volunteer promotion by supporting opportunities for local communities and families to participate in habitat restoration projects and stewardship activities; and
- Assistance to local communities for planning and design of amenities that support public access to Bayshore resources and provide information about the culture and history of the Bayshore area.

Funding is requested to leverage federal funding in support of key habitat restoration, recreational and educational enhancement projects to improve hunting, fishing and wildlife viewing opportunities that will drive significant tourism and support local communities. Key projects include handicapped-accessible wildlife viewing structures, interpretive signs and kiosks in multiple beach communities, and canoe and kayak launch improvements.

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### FUNDING

	STATE	FEDERAL	OTHER
FY 2017	\$500,000	\$1,000,000	\$0
FY 2018	500,000	500,000	0
FY 2019	500,000	500,000	0
FY 2020	500,000	500,000	0
FY 2021	500,000	500,000	0
<b>TOTAL</b>	<b>ONGOING</b>	<b>ONGOING</b>	<b>\$0</b>

## 15. Killens Pond Waterpark Improvements

### PROJECT DESCRIPTION

Funding is requested for phase two of a four phase renovation to the Killens Pond Waterpark. Phase one, completed in Fiscal Year 2016, consists of new slides, a new entrance, decking, pumps, and mechanical and drainage work. Phase two includes a new sprayground, bathhouse, pavilion, play features and several shade structures.

Funding will support continued improvements to the pools, walkways and pool decking; bathhouses, showers and lockers; ticket and concession buildings; and pool mechanics building and infrastructure.

## CAPITAL REQUEST

### FUNDING

	STATE	FEDERAL	OTHER
FY 2019	\$3,500,000	\$0	\$0
FY 2020	3,000,000	0	0
FY 2021	3,000,000	0	0
<b>TOTAL</b>	<b>\$9,500,000</b>	<b>\$0</b>	<b>\$0</b>

## 16. Redevelopment of Strategic Sites (NVF)

### PROJECT DESCRIPTION

Funding is requested for the continued remediation and redevelopment of the former NVF facility in Yorklyn, along the Red Clay Creek. The department completed a series of acquisitions that allow for the remediation of the site, while providing open space, flood mitigation, wetland creation and economic development. Asbestos abatement, demolition and a new access road were completed. Fiscal Year 2018 funding supports renovations of an Auburn Heights office and parking lot, trail connections with historic bridges, construction of a

new amphitheater and other visitor-oriented projects. Fiscal Year 2019 funding will continue to focus on the redevelopment of the site into park amenities, open space, flood mitigation and wetland areas. The site will have several acres of flood retention capacity and will serve as the center of an expanding trail system, connecting several existing parcels of state property to local communities. Phase one of the trail system opened to the public in August 2012 and phase two of the trail system was completed in June 2017.

## CAPITAL REQUEST

### FUNDING

	STATE	FEDERAL	OTHER
FY 2017	\$2,500,000	\$0	\$0
FY 2018	2,500,000	0	0
FY 2019	3,000,000	0	0
FY 2020	3,000,000	0	0
FY 2021	1,000,000	0	0
<b>TOTAL</b>	<b>ONGOING</b>	<b>\$0</b>	<b>\$0</b>

## 17. Cape Pier Replacement

### PROJECT DESCRIPTION

Funding is requested for the design and permitting of a new Cape Henlopen State Park pier to replace the existing structure. The design and permitting process is expected to take two years.

## CAPITAL REQUEST

### FUNDING

	STATE	FEDERAL	OTHER
FY 2019	\$650,000	\$350,000	\$0
FY 2020	8,000,000	0	0
FY 2021	7,000,000	0	0
<b>TOTAL</b>	<b>\$15,650,000</b>	<b>\$350,000</b>	<b>\$0</b>

## 18. Coastal Impoundments and Water Control Structure Rehabilitation/ Replacement

### PROJECT DESCRIPTION

Funding is requested to restore and protect coastal impoundment habitats along the Delaware Bay at the Augustine, Woodland Beach, Little Creek, Ted Harvey and Assawoman Wildlife Areas from storm surge and extreme high tides. Repairs are needed to prevent loss of



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coastal impoundment wetlands to open water and to reduce flooding and damage to SR 9. Projects will help protect adjacent communities from extreme storms; support management of gradual adaptation as sea levels rise; and restore quantity, quality and stability of habitat for more than 25 species of waterfowl and more than 40 species of shorebirds, marsh birds and wading birds.

### CAPITAL REQUEST FUNDING

	STATE	FEDERAL	OTHER
FY 2018	\$0	\$1,762,500	\$0
FY 2019	1,000,000	1,500,000	0
FY 2020	1,000,000	1,500,000	0
<b>TOTAL</b>	<b>\$2,000,000</b>	<b>\$4,762,500</b>	<b>\$0</b>

## 19. Fort Miles Museum

### PROJECT DESCRIPTION

Funding is requested for improvements to the Fort Miles Museum road and parking area and renovations to the front entrance of Bunker 519.

### CAPITAL REQUEST FUNDING

	STATE	FEDERAL	OTHER
FY 2015	\$150,000	\$0	\$0
FY 2016	0	0	0
FY 2017	0	0	0
FY 2018	0	0	0
FY 2019	500,000	0	0
FY 2020	500,000	0	0
FY 2021	500,000	0	0
<b>TOTAL</b>	<b>\$1,650,000</b>	<b>\$0</b>	<b>\$0</b>

## 20. Debris Pits

### PROJECT DESCRIPTION

Funding is requested for the remediation of debris pits on private property where ground subsidence has caused significant property and/or structural damage to primary residences and appurtenances. The average cost of remediating a property is between \$30,000 to \$50,000. There are presently more than 150 properties on the waiting list for remediation, with an estimated seven to eight year wait time for remediation.

### CAPITAL REQUEST FUNDING

	STATE	FEDERAL	OTHER*
FY 2018	\$0	\$0	\$100,000
FY 2019	500,000	0	100,000
FY 2020	500,000	0	100,000
FY 2021	500,000	0	100,000
<b>TOTAL</b>	<b>ONGOING</b>	<b>\$0</b>	<b>ONGOING</b>

\*The source of Other funds is voluntary match.

## 21. Renovation of Richardson and Robbins Building

### PROJECT DESCRIPTION

Funding is requested to renovate the Richardson and Robbins Building over three years. The building accommodates approximately 350 employees within its 85,420 square feet. With movement of certain DNREC offices (Human Resources, Fiscal Management and Environmental Laboratory) to newly leased and/or constructed locations, renovations are necessary to allow the building to function adequately within the newly vacated areas. Renovations will include rearrangement of office areas to allow more efficient layouts, improvement of indoor air quality and circulation, increased use of alternate work locations and improved accessibility for the public.

### CAPITAL REQUEST FUNDING

	STATE	FEDERAL	OTHER
FY 2019	\$1,300,000	\$0	\$0
FY 2020	1,300,000	0	0
FY 2021	1,300,000	0	0
<b>TOTAL</b>	<b>\$3,900,000</b>	<b>\$0</b>	<b>\$0</b>

## 22. Water Supply Monitoring Network

### PROJECT DESCRIPTION

Funding is requested to construct and operate an expanded water supply monitoring network. Following discussions with the Governor's Water Supply Coordinating Council, work plans and budgets have been developed for two priority areas: one in central Kent County surrounding Dover and one in eastern Sussex County. These areas are undergoing significant

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population growth and are beginning to experience conflicts between water users from the agricultural, public and industrial sectors and threats of saline water intrusion due to rising sea levels. The network will augment existing ground and surface water monitoring networks.

Experience gained from long-term operation of a water supply monitoring network by the Delaware Geological Survey (DGS) found there are large areas where crucial information on the condition of the aquifers are largely unknown. In order to track the condition of water supply resources, new and replacement wells and surface water monitoring infrastructure are needed. DGS will be the lead agency in the design and installation of the network, in cooperation with DNREC and public and investor-owned water purveyors.

Information gained from this project will enable the agencies to define areas of acceptable and unacceptable water quality and quantity, ensuring a sustainable supply for future growth.

### CAPITAL REQUEST FUNDING

	STATE	FEDERAL	OTHER
FY 2017	\$713,000	\$0	\$0
FY 2018	0	0	0
FY 2019	810,000	0	0
<b>TOTAL</b>	<b>\$1,523,000</b>	<b>\$0</b>	<b>\$0</b>

## 23. Poplar Thicket Erosion Project

### PROJECT DESCRIPTION

Funding is requested to update design engineering and initiate shoreline stabilization construction in Fiscal Year 2019 and to complete construction in Fiscal Year 2020 at the Poplar Thicket property along the Indian River Bay. Shoreline stabilization is part of the agreement with The Nature Conservancy and the landowner for the transfer of the property to the State.

### CAPITAL REQUEST FUNDING

	STATE	FEDERAL	OTHER
FY 2019	\$750,000	\$0	\$0
FY 2020	2,000,000	0	0
<b>TOTAL</b>	<b>\$2,750,000</b>	<b>\$0</b>	<b>\$0</b>

## 24. Lukens Drive Office Purchase

### PROJECT DESCRIPTION

Funding is requested to purchase a portion of the land (2.72 acres) and office building (25,284 square feet) located at 391 Lukens Drive in New Castle, Delaware. The building has been leased by the Division of Waste and Hazardous Substances since 1998 and houses approximately 60 full-time staff. Of the 60 staff members, 21 are supported by the Hazardous Substance Cleanup Act (HSCA) Fund.

An appraisal was conducted in September 2017 and determined the market value of the facility at \$3.8 million. The HSCA Fund can contribute \$2.0 million toward the purchase price. Once purchased, it is estimated that maintenance and operations of the building will be approximately 25 percent of the current lease costs.

### CAPITAL REQUEST FUNDING

	STATE	FEDERAL	OTHER*
FY 2019	\$1,800,000	\$0	\$2,000,000
<b>TOTAL</b>	<b>\$1,800,000</b>	<b>\$0</b>	<b>\$2,000,000</b>

\*The source of Other funds is the HSCA Fund.

## N/A Redevelopment of Strategic Sites (Fort DuPont)

### PROJECT DESCRIPTION

Funding is requested for the continuation of the redevelopment project at the Fort DuPont complex adjacent to Delaware City. The requested funding provides for critical improvements to the site to attract investors, architectural and engineering fees, demolition costs, and other expenses.

### CAPITAL REQUEST FUNDING

	STATE	FEDERAL	OTHER
FY 2016	\$1,250,000	\$0	\$0
FY 2017	2,000,000	0	0
FY 2018	2,250,000	0	0
FY 2019	2,250,000	0	0
<b>TOTAL</b>	<b>ONGOING</b>	<b>\$0</b>	<b>\$0</b>

**NATURAL RESOURCES AND ENVIRONMENTAL CONTROL**  
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**N/A Biden Center Renovations**

**PROJECT DESCRIPTION**

Funding is requested to begin programming, conceptual design, and draft construction documents for renovations to the Biden Environmental Training Center at Cape Henlopen State Park. Renovations will include updates to bring the building into compliance with modern safety standards and accessibility requirements, and modernizing the facility to allow additional conference and training opportunities.

**CAPITAL REQUEST**

**FUNDING**

	<u>STATE</u>	<u>FEDERAL</u>	<u>OTHER</u>
FY 2019	\$1,300,000	\$0	\$0
FY 2020	5,500,000	0	0
<b>TOTAL</b>	<b>\$6,800,000</b>	<b>\$0</b>	<b>\$0</b>