

MARYLAND DEPARTMENT OF THE ENVIRONMENT

SUMMARY

The Maryland Department of the Environment (MDE) is the State's primary agency responsible for environmental protection. MDE's mission is to protect and restore the quality of the State's land and water resources. The Department has broad regulatory, planning, and management responsibility for water quality, air quality, solid and hazardous waste management, stormwater management, and sediment control. The FY 2007 – FY 2011 Capital Improvement Program focuses on four goals: 1) reducing point and nonpoint source nutrient pollution to the Chesapeake Bay; 2) providing for safe, reliable, and adequate water and wastewater infrastructure; 3) mitigating flood damage; and 4) remediating sites contaminated by hazardous waste which pose a threat to public health or the environment.

Point Source Nutrient Reduction Strategies: A major focus for MDE's capital program is the reduction of nutrients entering the Chesapeake Bay through employment of Biological Nutrient Removal (BNR) and Enhanced Nutrient Removal (ENR). Extensive studies have identified that excess nutrients from wastewater treatment plant discharges, activities on agricultural and developed land, and sediment runoff from farms, construction sites, and other lands contribute to the degradation of water quality and living resources in the Bay. The results of these studies led to the 1987 Chesapeake Bay Agreement among the Bay States (Maryland, Virginia, Pennsylvania, and the District of Columbia) and the U.S. Environmental Protection Agency to reduce by 40%, from 1985 levels, the controllable loads of nutrients (nitrogen and phosphorus) entering the Bay. To meet the 40% reduction goal for point source discharges (reductions of 16.7 million pounds per year for nitrogen and 1.7 million pounds per year for phosphorus), Maryland has targeted 66 major wastewater treatment facilities for nutrient removal upgrades through the use of BNR. These 66 major facilities have flows of 500,000 gallons per day or more and they contribute more than 95% of the total sewage treatment plant discharge generated in Maryland. Currently, there are 46 wastewater treatment plants in operation with BNR where, from 1985 levels, annual nitrogen loads have been reduced by 14.9 million pounds per year and phosphorus loads by 1.9 million pounds. To date, \$223 million in State capital appropriations have been provided for point source nutrient removal projects. An additional 20 plants are proposed to complete their BNR upgrades at a cost of approximately \$344 million, with the State's share being \$172 million. The current five-year capital improvement program provides \$88.5 million to complete BNR.

Subsequently, as a result of the 2000 Chesapeake Bay Agreement, additional reductions of nitrogen and phosphorus from major wastewater treatment plants were determined necessary for the Bay cleanup. To achieve these new goals (total annual reduction of nitrogen of 24.2 million pounds and of phosphorus of 1.96 million pounds), Enhanced Nutrient Removal (ENR) must be employed at the 66 major wastewater treatment facilities where feasible.

The Bay Restoration Fund was established to provide the funding necessary to upgrade wastewater treatment facilities statewide to achieve Enhanced Nutrient Removal (ENR). It will assist the efforts to further reduce nitrogen and phosphorus loading in the Bay by over 7.5 million pounds of nitrogen per year and over 260,000 pounds of phosphorus per year, which represent over one-third of Maryland's commitment under the Chesapeake Bay 2000 Agreement. The Fund, financed by wastewater treatment plant users, will be used to upgrade Maryland's 66 major wastewater treatment plants with ENR technology so they are capable of achieving wastewater effluent quality of 3 mg/l total nitrogen and 0.3 mg/l total phosphorus. The facilities discharging to the Chesapeake Bay have priority. In addition, an annual fee will be collected from each home served by an onsite septic system. Sixty percent of these funds will be used for septic system upgrades and the remaining 40 percent will be transferred to the Department of Agriculture to be used for cover crops. The current five-year capital improvement program provides \$777 million to complete ENR upgrades.

Nonpoint Source Nutrient Reduction Programs: Nonpoint source nutrient reduction programs focus on nonagricultural runoff from streets, parking lots, and other developed areas. The Stormwater Pollution Control and Small Creek and Estuary Restoration programs include construction of state-of-the-art stormwater management facilities to retrofit outdated stormwater systems and restoration of streams, creeks, estuaries, and wildlife/aquatic habitat through removal of organic-laden sediments and construction

MARYLAND DEPARTMENT OF THE ENVIRONMENT

of structural and non-structural measures to stabilize and protect surface waters and habitat from future erosion and sedimentation. Funding for the Agricultural Cost-Share Program, which provides grants to farmers to adopt best management practices to reduce agricultural run-off, is provided to the Department of Agriculture.

Water and Wastewater Infrastructure: The Department has identified many communities in Maryland with water supply problems, some with potentially serious health risks. In addition, approximately 45 groundwater systems are estimated to be under the direct influence of surface water and will require modification to meet federal Safe Drinking Water Act regulations for protection from disease-causing organisms (e.g., giardia and viruses). MDE's most recent statewide needs survey has identified some \$3.96 billion in water infrastructure improvements needed throughout Maryland. Water infrastructure projects are funded through the State's Drinking Water Quality Revolving Loan Fund and the Water Supply Assistance Programs. In addition to the pressing need for nutrient removal projects at wastewater treatment plants to effect a Chesapeake Bay cleanup, projects for the upgrade and replacement of obsolete sewage systems are needed to eliminate the discharge of raw sewage and to provide for adequate infrastructure to accommodate planned growth. The December 2001 Task Force on Upgrading Sewage Systems identified \$5.4 billion in total wastewater improvement needs throughout the State. Wastewater infrastructure projects are funded through the State's Water Quality Revolving Loan Fund, and the Nutrient Removal Cost Share, Sewer Rehabilitation, and Supplemental Assistance Grant Programs.

Flood Mitigation: Flooding is the highest natural hazard risk in Maryland. Approximately 79,000 structures are prone to flood damage and an estimated 194,000 Marylanders live or work in flood-prone areas of the State. This program provides grants to local jurisdictions for projects which reduce the risk of loss of life and property from flooding. Grant funds may be used to acquire flood-prone properties for demolition or relocation, install flood-warning systems, and construct flood control projects.

Hazardous Substance Control: The Hazardous Substance Cleanup Program provides State participation in the Federal Comprehensive Response, Compensation and Liability Act (Superfund). Funds are used for remedial action at uncontrolled sites listed on the federal "Superfund" National Priorities List. In addition, State funds are used to clean up other uncontrolled waste sites within the State which do not qualify for the federal Superfund, but which pose a substantial threat to public health and the environment. Hazardous material remediation typically involves removal or treatment of contaminated soil, treatment of contaminated water, or construction of caps or other barriers to prevent exposure to contamination. Remediation efforts typically prevent human exposure to contaminants, protect drinking water supplies by removing contamination from groundwater, and prevent the degradation of environmental resources.

CHANGES TO FY 2006 - FY 2010 CAPITAL IMPROVEMENT PROGRAM

Changes to FY 2007

None

Changes to FY 2008 - FY 2010

None

MARYLAND DEPARTMENT OF THE ENVIRONMENT

FY 2007 - FY 2011 Capital Improvement Program

Grants and Loans

OFFICE OF THE SECRETARY

Budget Code: UA01

Enhanced Nutrient Removal Program (Statewide) FY 2007 Total **\$70,000**

The Enhanced Nutrient Removal Program (ENR) provides grants to local governments to implement enhanced nutrient removal technology at the largest sewage treatment plants in Maryland. The goal of the Program is to fulfill Maryland's commitment under the multi-state Chesapeake Bay Clean Up Agreement for major reductions of the nutrients - nitrogen and phosphorus - being discharged from sewage treatment plants into the Chesapeake Bay. The FY 2007 budget includes funds for ENR upgrades at fifteen major wastewater treatment plants in ten jurisdictions and two regional facilities serving over one million residences throughout Maryland. These ENR improvements will reduce the nitrogen load to the Chesapeake Bay by almost 5 million pounds per year.

<u>Source</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>TOTAL</u>
Special Funds	70,000	30,000	107,000	49,000	51,000	307,000
Revenue Bonds	-	50,000	130,000	130,000	160,000	470,000
TOTAL	70,000	80,000	237,000	179,000	211,000	777,000

Enhanced Nutrient Removal Program Project List

<u>Subdivision</u>	<u>Project</u>	<u>State Funding</u>				<u>Total State Share</u>
		<u>Total Cost</u>	<u>Prior Auth.</u>	<u>FY 2007 Request</u>	<u>Future Reques</u>	
Anne Arundel	Cox Creek Enhanced Nutrient Removal	32,000	-	11,845 PC	20,155 C	100%
Caroline	Federalsburg Enhanced Nutrient Removal	2,273	273 PC	2,000 C	-	100%
Cecil	Perryville Enhanced Nutrient Removal	3,438	83 PC	3,355 PC	-	100%
Cecil	Elkton Enhanced Nutrient Removal	4,000	400 PC	3,600 C	-	100%
Charles	Indian Head Enhanced Nutrient Removal	3,300	800 PC	2,500 C	-	100%
Frederick	Frederick Enhanced Nutrient Removal	10,000	200 P	9,800 PC	-	100%
Frederick	Brunswick Enhanced Nutrient Removal	2,000	600 PC	1,400 C	-	100%
Kent	Chestertown Enhanced Nutrient Removal	2,000	200 PC	1,800 C	-	100%
Montgomery	Seneca Enhanced Nutrient Removal	11,500	500 PC	1,000 P	10,000 C	100%
Montgomery	Western Branch Enhanced Nutrient Removal	55,000	500 P	9,500 PC	45,000 C	100%
St. Mary's	Leonardtwn Enhanced Nutrient Removal	4,200	-	4,200 PC	-	100%
Wicomico	Delmar Enhanced Nutrient Removal	1,200	-	200 P	1,000 C	100%

MARYLAND DEPARTMENT OF THE ENVIRONMENT

Worcester	Snow Hill Enhanced Nutrient Removal	1,000	200 P	800 C	-	100%
Regional	Back River Enhanced Nutrient Removal	150,000	2,000 P	10,000 P	138,000 PC	100%
Regional	Patapsco Enhanced Nutrient Removal	100,000	-	8,000 P	92,000 CP	100%
TOTAL		381,911	5,756	70,000	306,155	

MARYLAND DEPARTMENT OF THE ENVIRONMENT

Maryland Water Quality Revolving Loan Fund (Statewide)

FY 2007 Total **\$70,000**

The Maryland Water Quality Revolving Loan Fund provides low-interest loans to local governments which finance wastewater treatment plant and other water quality improvement projects. The Clean Water Act of 1996 and annual federal appropriations set up a schedule of capitalization grants to the states to initiate their revolving funds. These grants require a 20% State match. The FY 2007 budget will fund eighteen projects in six jurisdictions serving approximately 1,115,300 residences throughout Maryland.

<u>Source</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>TOTAL</u>
General Funds	5,534	5,500	5,500	5,500	5,500	27,534
Special Funds	37,903	38,000	38,000	38,000	38,000	189,903
Federal Funds	26,563	26,500	26,500	26,500	26,500	132,563
TOTAL	70,000	70,000	70,000	70,000	70,000	350,000

Maryland Water Quality Revolving Loan Fund Project List

State Funding

<u>Subdivision</u>	<u>Project</u>	<u>Total Cost</u>	<u>Prior Auth.</u>	<u>FY 2007 Request</u>	<u>Future Reques</u>	<u>Total State Share</u>
Allegany	Jennings Run Sanitary Sewer Evaluation	450	-	450 P	-	100%
Allegany	Bedford Road Sanitary Sewer	200	-	200 P	-	100%
Allegany	Eckhart Sanitary Sewer Evaluation	325	-	325 P	-	100%
Allegany	Frostburg Combined Sewer Overflow Elimination Project	20,000	1,000 PC	1,000 PC	-	10%
Allegany	Grahamtown Sanitary Sewer Rehabilitation	1,000	-	1,000 C	-	100%
Allegany	Cumberland Combined Sewer Overflow	29,840	-	2,000 PC	-	7%
Baltimore City	Stoney Run Interceptor Phase I - Upper Section	6,711	-	6,711 C	-	100%
Baltimore City	Jones Falls Pumping Station Upgrade	10,560	-	3,843 C	-	36%
Baltimore City	Jones Falls Pumping Station Upgrade	10,560	-	6,717 C	-	64%
Baltimore City	Jones Falls Pumping Station Force Main/Pressure Sewer	14,410	-	14,410 C	-	100%
Baltimore City	Maiden Choice Interceptor Improvements	7,591	-	5,544 C	-	73%
Baltimore City	Maiden Choice Interceptor Improvements	7,591	-	2,047 C	-	27%
Cecil	Port Deposit New WWTP & Sewer Collection	4,200	-	4,000 C	-	95%
Cecil	Carpenters Point Sanitary Sewer System Phase II	1,600	-	1,600 C	-	100%

MARYLAND DEPARTMENT OF THE ENVIRONMENT

Cecil	Perryville WWTP Expansion	6,000	-	6,000 C	-	100%
Frederick	Frederick WWTP Expansion	2,000	-	2,000 C	-	100%
St. Mary's	Patuxent Park Sewer Line Repair/Replacement	489	-	289 C	-	59%
Wicomico	Salisbury BNR Upgrade and Expansion	77,000	35,000 C	11,863 C	-	61%
TOTAL		200,527	36,000	69,999	-	

MARYLAND DEPARTMENT OF THE ENVIRONMENT

Maryland Drinking Water Revolving Loan Fund (Statewide)

FY 2007 Total **\$13,171**

The Maryland Drinking Water Revolving Loan Fund provides low-interest loans to local governments, which finance water supply improvements and upgrades. The Safe Drinking Water Act of 1996 and annual federal appropriations set up a schedule of grants to states to capitalize their revolving funds. These federal grants require a 20% state match. The FY 2007 budget includes funding for twelve projects in eight jurisdictions serving 728,938 residences throughout Maryland.

<u>Source</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>TOTAL</u>
General Funds	2,290	2,300	2,300	2,300	2,300	11,490
Special Funds	2,950	3,279	3,279	3,279	3,279	16,066
Federal Funds	7,931	7,931	7,931	7,931	7,931	39,655
TOTAL	13,171	13,510	13,510	13,510	13,510	67,211

Maryland Drinking Water Revolving Loan Fund Project List

<u>Subdivision</u>	<u>Project</u>	<u>State Funding</u>				<u>Total State Share</u>
		<u>Total Cost</u>	<u>Prior Auth.</u>	<u>FY 2007 Request</u>	<u>Future Reques</u>	
Allegany	Clarysville Water Project	525	-	525 C	-	100%
Baltimore City	Montebello Filters and Chemical System Improvements	2,534	-	988 C	-	39%
Baltimore City	Montebello Filters and Chemical System Improvements	2,534	-	1,546 C	-	61%
Caroline	Federalsburg Elevated Water Storage Tank	1,654	-	371 C	-	22%
Cecil	Port Deposit Existing Water Supply Upgrades	2,989	-	905 C	-	30%
Cecil	Perryville Water Filtration Plant Upgrade	7,550	4,050 PC	3,500 C	-	100%
Cecil	Williams Mobile Home Court New Well	30	-	30 C	-	100%
St. Mary's	Lexington Park Arsenic Removal	850	-	850 C	-	100%
St. Mary's	Piney Point Water Line Replacement	188	-	188 C	-	100%
Talbot	Martingham Arsenic Removal System	380	-	380 C	-	100%
Talbot	St. Michael's Arsenic Compliance and Well Construction	1,634	-	1,634 C	-	100%
Wicomico	Fruitland Elevated Water Tank	2,500	-	2,254 C	-	90%
TOTAL		23,368	4,050	13,171	-	

MARYLAND DEPARTMENT OF THE ENVIRONMENT

Sewer Rehabilitation Program (Statewide)

FY 2007 Total \$5,000

The Sewer Rehabilitation Program provides grants to local governments for combined sewer overflow (CSO) abatement, rehabilitation of existing sewers, and upgrading conveyance systems, including pumping stations. The special funds used to finance this program are derived from a \$2.50 monthly fee charged to all wastewater system users. The FY 2007 budget provides funding for four projects to abate CSOs totaling \$2.9 million, and five sanitary sewer rehabilitation projects totaling \$2.1 million.

<u>Source</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>TOTAL</u>
Special Funds	5,000	5,000	5,000	-	-	15,000
TOTAL	5,000	5,000	5,000	-	-	15,000

Sewer Rehabilitation Program Project List

<u>Subdivision</u>	<u>Project</u>	<u>State Funding</u>				<u>Total State Share</u>
		<u>Total Cost</u>	<u>Prior Auth.</u>	<u>FY 2007 Request</u>	<u>Future Regues</u>	
Allegany	Cumberland Combined Sewer Overflow	29,840	800 PC	1,300 PC	1,900 PC	13%
Allegany	Westernport Combined Sewer Overflow	19,000	800 PC	800 PC	1,400 PC	16%
Allegany	Frostburg Combined Sewer Overflow Elimination Project	20,000	800 PC	300 PC	1,900 CP	15%
Baltimore City	Baltimore City SSO	35,258	1,575 C	1,300 C	2,600 C	16%
Caroline	Lockerman Street Lift Station	332	-	100 C	-	30%
Cecil	Port Deposit New WWTP and Sewer Collection System	4,200	-	200 C	-	5%
Dorchester	Secretary I/I Reduction Phase 2	496	-	200 C	-	40%
Frederick	Emmitsburg Sewer Rehab	1,668	-	300 C	300 C	36%
Talbot	St. Michaels Region II Sewer Collection System Improvements	9,700	500 C	500 C	1,000 C	21%
TOTAL		120,494	4,475	5,000	9,100	

MARYLAND DEPARTMENT OF THE ENVIRONMENT

Septic System Upgrade Program (Statewide) FY 2007 Total \$500

The Septic System Upgrade Program (SSUP) provides grants to septic system owners to upgrade failing systems and holding tanks with best available technology for nitrogen removal. The Bay Restoration Fund Septic fee revenue (\$30 per year per septic/holding tank) is estimated at \$12.6 million annually with 60% allocated to Maryland Department of the Environment for the Septic System Upgrade Program and the remaining 40% to the Department of Agriculture for cover crops. There are approximately 420,000 on-site septic systems in Maryland. The FY 2007 budget provides funding for approximately 100 septic system upgrades.

<u>Source</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>TOTAL</u>
Special Funds	500	6,000	6,000	6,000	6,000	24,500
TOTAL	500	6,000	6,000	6,000	6,000	24,500

Hazardous Substance Clean-up Program (Statewide) FY 2007 Total \$500

This program is responsible for the remediation of hazardous waste contaminated sites which pose a threat to public health or the environment and where there is no responsible party to perform the necessary cleanup. These remediations typically prevent human exposure to contamination, remove contamination from groundwater to protect drinking water supplies, and prevent degradation of environmental resources. The FY 2007 budget includes funds for three projects in three jurisdictions and one statewide site assessment.

<u>Source</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>TOTAL</u>
General Funds	500	1,000	1,000	1,000	1,000	4,500
TOTAL	500	1,000	1,000	1,000	1,000	4,500

Hazardous Substance Clean-up Program Project List

State Funding

<u>Subdivision</u>	<u>Project</u>	<u>Total Cost</u>	<u>Prior Auth.</u>	<u>FY 2007 Request</u>	<u>Future Reques</u>	<u>Total State Share</u>
Anne Arundel	Harundale Well Field	100	-	100 PC	-	100%
Carroll	Springfield Hospital	100	-	100 P	-	100%
Cecil	Mill Creek Perchlorate Contamination	900	700 PC	200 C	-	100%
Statewide	Site Assessments	687	87 P	100 P	500 P	100%
TOTAL		1,787	787	500	500	

Subtotals for Office of the Secretary

<u>Source</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>TOTAL</u>
General Funds	8,324	8,800	8,800	8,800	8,800	43,524
Special Funds	116,353	82,279	159,279	96,279	98,279	552,469
Federal Funds	34,494	34,431	34,431	34,431	34,431	172,218
Revenue Bonds	-	50,000	130,000	130,000	160,000	470,000
TOTAL	159,171	175,510	332,510	269,510	301,510	1,238,211

MARYLAND DEPARTMENT OF THE ENVIRONMENT

WATER MANAGEMENT ADMINISTRATION

Budget Code: UA04

Biological Nutrient Removal Program (Statewide)

FY 2007 Total \$18,000

This program provides grants to local governments for the removal of nutrients from the discharges of sewage treatment plants. On average, the State provides approximately 50% of the total project cost, with the ability to provide 100% of the cost under the Environmental Article Title 9, Section 9-348. The FY 2007 budget provides funding for BNR upgrades at five major wastewater treatment plants, located in three jurisdictions and two regions. Proposed upgrades will help reduce nitrogen levels by approximately 7.63 million pounds per year.

<u>Source</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>TOTAL</u>
GO Bonds	18,000	18,000	18,000	18,000	16,500	88,500
TOTAL	18,000	18,000	18,000	18,000	16,500	88,500

Biological Nutrient Removal Program Project List

<u>Subdivision</u>	<u>Project</u>	<u>State Funding</u>				<u>Total State Share</u>
		<u>Total Cost</u>	<u>Prior Auth.</u>	<u>FY 2007 Request</u>	<u>Future Reques</u>	
Allegany	George's Creek Biological Nutrient Removal	8,944	1,120 PC	2,472 C	880 C	50%
Cecil	Elkton Biological Nutrient Removal	7,500	900 PC	800 C	800 C	33%
Wicomico	Salisbury Biological Nutrient Removal Upgrade and Expansion	77,000	10,907 PC	3,000 C	4,228 C	24%
Regional	Blue Plains Biological Nutrient Removal	48,000	9,261 PC	6,520 C	8,219 C	50%
Regional	Patapsco Biological Nutrient Removal	150,000	12,063 P	5,208 C	57,729 C	50%
TOTAL		291,444	34,251	18,000	71,856	

MARYLAND DEPARTMENT OF THE ENVIRONMENT

Supplemental Assistance Program (Statewide) FY 2007 Total **\$5,000**

This program provides supplemental grant assistance to local governments participating in the construction of compliance-related wastewater facility improvements. Funds are targeted for two categories of projects: (1) projects where the community needs to construct improvements to their sewer system infrastructure, but is unable to afford the local share of the construction cost; and (2) projects where the community needs to construct improvements to its sewer system infrastructure, but is unable to completely afford the financing arrangements under the Maryland Water Quality Revolving Loan Fund. To achieve an affordable level of financing for grantees, the program may fund up to 100% of eligible project costs. The FY 2007 budget provides funding for four projects for combined sewer overflow improvements (\$1,250,000); one project to address inflow/infiltration (\$200,000); seven projects for biological nutrient removal (\$1,746,250); four wastewater treatment plant upgrades (\$1,078,750); and five projects for sewer rehabilitation (\$725,000).

<u>Source</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>TOTAL</u>
GO Bonds	5,000	5,000	5,000	5,000	5,000	25,000
TOTAL	5,000	5,000	5,000	5,000	5,000	25,000

Supplemental Assistance Program Project List

<u>Subdivision</u>	<u>Project</u>	<u>State Funding</u>				<u>Total State Share</u>
		<u>Total Cost</u>	<u>Prior Auth.</u>	<u>FY 2007 Request</u>	<u>Future Reques</u>	
Allegany	George's Creek Biological Nutrient Removal	8,944	500 PC	461 C	1,275 C	25%
Allegany	Westernport Combined Sewer Overflow	19,000	812 PC	350 PC	3,838 PC	26%
Allegany	Frostburg Combined Sewer Overflow Elimination Project	20,000	878 PC	200 PC	3,922 PC	25%
Allegany	Cumberland Combined Sewer Overflow	29,840	3,149 PC	500 PC	3,351 PC	24%
Caroline	Federalburg Biological Nutrient Removal	2,900	325 PC	170 C	-	17%
Caroline	Lockerman Street Lift Stations	332	-	165 C	-	50%
Cecil	Rising Sun Sewer Main Replacement	894	100 C	100 C	-	22%
Charles	Mt. Carmel Woods WWTP Upgrade	496	-	250 C	-	50%
Charles	Indian Head Biological Nutrient Removal	6,700	500 C	200 C	145 C	13%
Dorchester	Cambridge Combined Sewer Overflow Phases I-VI	7,115	1,900 PC	200 C	-	30%
Dorchester	Hurlock WWTP Biological Nutrient Removal	6,367	300 PC	300 C	869 C	23%
Dorchester	Secretary I/I Reduction Phase 2	496	-	200 C	-	40%

MARYLAND DEPARTMENT OF THE ENVIRONMENT

Frederick	Emmitsburg Sewer Rehab	1,668	-	300 C	-	18%
Frederick	Brunswick WWTP Biological Nutrient Removal	5,500	700 PC	100 C	575 C	25%
Kent	Chestertown WWTP Biological Nutrient Removal	3,970	435 PC	165 C	135 C	19%
Queen Anne's	Centreville WWTP Biological Nutrient Removal	9,662	1,045 PC	350 C	331 C	18%
Somerset	Smith Island WWTP Upgrade	2,655	670 PC	364 C	-	39%
St. Mary's	Leonardtown Collection System	90	-	25 C	-	28%
St. Mary's	Patuxent Park Sewer Line Repair/Replacement	489	-	200 C	-	41%
Wicomico	Willards WWTP Upgrade	3,026	500 PC	300 C	-	26%
Worcester	Snug Harbor Sewer	710	100 PC	100 C	-	28%
TOTAL		130,854	11,914	5,000	14,441	

MARYLAND DEPARTMENT OF THE ENVIRONMENT

Water Supply Financial Assistance Program (Statewide) FY 2007 Total **\$2,500**

This program provides grants to assist small communities in the acquisition, design, construction, and rehabilitation of publicly-owned water supply facilities throughout the State. The grant funds enable the State to continue its efforts to protect public health and enhance the quality of life. The program may fund up to 87.5% of the total eligible project cost and a minimum 12.5% local match is required. The FY 2007 budget provides funds for eleven projects in six jurisdictions, which will provide safe and adequate water supplies to 17,042 homes.

<u>Source</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>TOTAL</u>
GO Bonds	2,500	2,500	2,500	2,500	2,500	12,500
TOTAL	2,500	2,500	2,500	2,500	2,500	12,500

Water Supply Financial Assistance Program Project List

State Funding

<u>Subdivision</u>	<u>Project</u>	<u>Total Cost</u>	<u>Prior Auth.</u>	<u>FY 2007 Request</u>	<u>Future Reques</u>	<u>Total State Share</u>
Allegany	Ridgedale Reservoir Replacement	2,500	350 PC	255 C	445 C	42%
Allegany	LaVale Zone 1 Water Line Replacement	1,970	250 PC	500 C	-	38%
Allegany	Lonaconing Water Improvements-Phase IV and Phase V	5,322	313 C	300 C	387 C	19%
Caroline	Federalburg Elevated Water Storage Tank	1,654	598 PC	185 C	-	47%
Cecil	Port Deposit Existing Water Supply Upgrades	2,989	-	200 C	850 C	35%
Garrett	Table Rock Water System	1,241	-	350 C	-	28%
Garrett	Grantsville Water Main Replacement	171	-	130 C	-	76%
Kent	Edesville Water Tower Project	900	-	100 C	-	11%
Washington	Highfield and Sharpsburg Water Treatment and Storage Tanks	515	-	209 C	236 C	86%
Washington	Mt. Aetna WTP Replacement of Reservoir	400	-	200 C	-	50%
Washington	Boonsboro Route 40 Water Extension	1,185	608 PC	71 C	-	57%
TOTAL		18,847	2,119	2,500	1,918	

MARYLAND DEPARTMENT OF THE ENVIRONMENT

Small Creek and Estuary Restoration Program (Statewide) FY 2007 Total **\$1,000**

This program provides grants to local governments for water quality cleanup projects in small creeks and estuaries. Typically, projects include dredging of polluted stream beds and streambank/channel stabilization. On average, projects are funded on a 50/50 cost-share basis with local governments; however, by law, MDE may provide up to 87.5% of the total project cost. The FY 2007 budget includes funds for two projects that will rehabilitate 5,000 linear feet of stream bed.

<u>Source</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>TOTAL</u>
GO Bonds	1,000	500	500	500	500	3,000
TOTAL	1,000	500	500	500	500	3,000

Small Creek and Estuary Restoration Program Project List

State Funding

<u>Subdivision</u>	<u>Project</u>	<u>Total Cost</u>	<u>Prior Auth.</u>	<u>FY 2007 Request</u>	<u>Future Reques</u>	<u>Total State Share</u>
Allegany	Jennings Run/Woodcock Hollow Stream Restoration	800	-	500 C	-	63%
Allegany	Braddock Run Stream Restoration	800	-	500 C	-	63%
TOTAL		1,600	-	1,000	-	

Maryland Stormwater Pollution Control Program (Statewide) FY 2007 Total **\$450**

This program provides up to 75% matching grants to local governments for stormwater management (retrofit) projects to reduce non-point source pollution from existing developed areas. Grantees must contribute a minimum of 25% of the total project cost. The FY 2007 budget includes funding for two projects, which will address stormwater runoff for 285 drainage acres.

<u>Source</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>TOTAL</u>
GO Bonds	450	750	1,000	1,000	1,000	4,200
TOTAL	450	750	1,000	1,000	1,000	4,200

Maryland Stormwater Pollution Control Program Project List

State Funding

<u>Subdivision</u>	<u>Project</u>	<u>Total Cost</u>	<u>Prior Auth.</u>	<u>FY 2007 Request</u>	<u>Future Reques</u>	<u>Total State Share</u>
Baltimore City	Maiden Choice Stormwater Management	350	-	263 C	-	75%
Howard	Rockburn Commons Stormwater Management Retrofit	250	-	187 C	-	75%
TOTAL		600	-	450	-	

MARYLAND DEPARTMENT OF THE ENVIRONMENT

Comprehensive Flood Management Grant Program (Statewide) FY 2007 Total **\$250**

The Comprehensive Flood Management Grant program provides grants to local governments for flood mitigation projects which reduce the risk of loss of life and property from flooding. Grant funds may be used to acquire flood-prone properties for demolition or relocation, installation of flood warning systems, and construction of flood control projects, including engineering studies required to support design of these projects. The program funds up to 75% of the non-federal project costs and are used primarily to match funds from the Federal Emergency Management Agency and the U.S. Army Corps of Engineers. Local governments being served contribute the remaining 25% of the non-federal match.

<u>Source</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>TOTAL</u>
GO Bonds	250	500	500	500	500	2,250
TOTAL	250	500	500	500	500	2,250

Comprehensive Flood Management Grant Program Project List

<u>Subdivision</u>	<u>Project</u>	<u>State Funding</u>				<u>Total State Share</u>
		<u>Total Cost</u>	<u>Prior Auth.</u>	<u>FY 2007 Request</u>	<u>Future Regues</u>	
Talbot	Eagle Property Flood Management	418	-	100 C	-	24%
Statewide	State Share of FEMA/MEMA Hurricane Isabel Flood Control Projects	6,849	706 A	150 A	-	13%
TOTAL		7,267	706	250	-	

Subtotals for Water Management Administration

<u>Source</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>TOTAL</u>
GO Bonds	27,200	27,250	27,500	27,500	26,000	135,450
TOTAL	27,200	27,250	27,500	27,500	26,000	135,450

Subtotals for Grants and Loans

<u>Source</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>TOTAL</u>
GO Bonds	27,200	27,250	27,500	27,500	26,000	135,450
General Funds	8,324	8,800	8,800	8,800	8,800	43,524
Special Funds	116,353	82,279	159,279	96,279	98,279	552,469
Federal Funds	34,494	34,431	34,431	34,431	34,431	172,218
Revenue Bonds	-	50,000	130,000	130,000	160,000	470,000
TOTAL	186,371	202,760	360,010	297,010	327,510	1,373,661

MARYLAND DEPARTMENT OF THE ENVIRONMENT

Total Program - Maryland Department of the Environment

<u>Source</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>TOTAL</u>
GO Bonds	27,200	27,250	27,500	27,500	26,000	135,450
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Revenue Bonds	-	50,000	130,000	130,000	160,000	470,000
TOTAL	186,371	202,760	360,010	297,010	327,510	1,373,661