

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 2008 – FY 2012 Capital Improvement Program focuses on four goals: 1) reducing point and nonpoint source nutrient pollution of 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 publicly owned wastewater treatment plants in operation with BNR. From 1985 levels, annual nitrogen loads have been reduced by 16.6 million pounds per year and phosphorus loads by 1.96 million pounds per year. To date, \$241 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 \$405 million, with the State's share being \$202 million. The current five-year Capital Improvement Program provides \$87 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 (reductions of 24.2 million pounds per year of nitrogen and 1.96 million pounds per year of phosphorus), 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 \$654 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

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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 2007 - FY 2011 CAPITAL IMPROVEMENT PROGRAM

Changes to FY 2008

Additions

None

Deletions

Comprehensive Flood Management Grant Program: MDE did not request FY 2008 funding for the Comprehensive Flood Management Grant Program. The Department is continuing to focus its efforts on Hurricane Isabel projects, and is utilizing the unexpended fund balance for these projects.

Changes to FY 2009 - FY 2011

None

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FY 2008 - FY 2012 Capital Improvement Program

Grants and Loans

OFFICE OF THE SECRETARY

Budget Code: UA01

Maryland Water Quality Revolving Loan Fund (Statewide)

FY 2008 Total \$110,000

The Maryland Water Quality Revolving Loan Fund provides low-interest loans to local governments to finance water quality improvement projects. Projects eligible for funding include wastewater treatment plants, failing septic systems, and non-point source projects such as urban stormwater control projects. When federal funds are used to fund these projects, they require a 20% State match. Projects may also be funded with Special Funds, Revenue Bonds, or a combination of Special Funds, Revenue Bonds, Federal Funds, and General Funds. The FY 2008 budget will fund fifteen projects in twelve jurisdictions serving approximately 590,536 residences throughout Maryland.

<u>Source</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>TOTAL</u>
General Funds	4,240	3,400	3,400	3,400	3,400	17,840
Special Funds	34,580	55,000	25,000	50,000	25,000	189,580
Federal Funds	21,180	17,000	17,000	17,000	17,000	89,180
Revenue Bonds	50,000	-	50,000	-	50,000	150,000
TOTAL	110,000	75,400	95,400	70,400	95,400	446,600

Maryland Water Quality 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 2008 Request</u>	<u>Future Request</u>	
Allegany	Grahamtown Sanitary Sewer Rehabilitation	1,000	-	500 C	-	50%
Baltimore City	Moore's Run Interceptor Sanitary Sewer Rehabilitation	30,679	-	25,443 C	-	83%
Baltimore	Back River WWTP - Gravity Sludge Thickeners	13,280	-	6,640 C	-	50%
Baltimore	Nollmeyer-Seneca Park Collection System	3,514	-	2,583 C	-	74%
Calvert	Chesapeake Beach Emergency Holding Tank	5,103	-	5,103 PC	-	100%
Calvert	Chesapeake Beach Outfall Replacement Project	780	-	780 C	-	100%
Cecil	Elkton WWTP - BNR/ENR Upgrade	36,800	-	20,799 C	-	57%
Charles	Benedict Central Sewer Collection and Treatment System	6,258	-	3,129 PC	-	50%
Charles	Mt. Carmel Woods WWTP - BNR Upgrade	1,547	-	774 C	-	50%

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Harford	Havre de Grace WWTP - Enhanced Nutrient Removal Project	38,145	-	24,545 C	-	64%
Kent	Worton WWTP - Lagoon Treatment Process	7,150	-	2,145 C	-	30%
Somerset	Ewell WWTP - Engineering Study	55	-	50 P	-	91%
St. Mary's	Leonardtown WWTP - Enhanced Nutrient Removal Project	18,737	-	13,626 C	-	73%
Washington	Boonsboro WWTP Upgrade	1,297	-	1,297 C	-	100%
Wicomico	Willards Wastewater Treatment Plant	3,387	-	2,586 C	-	76%
TOTAL		167,732	-	110,000	-	

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Enhanced Nutrient Removal Program (Statewide)

FY 2008 Total **\$80,000**

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 nutrients being discharged from sewage treatment plants into the Chesapeake Bay. The ENR Program can provide State grant funding of up to 100% of the eligible capital costs related to the planning, design, and construction of Enhanced Nutrient Removal facilities. The FY 2008 budget includes funds for ENR upgrades at 27 major wastewater treatment plants serving over 1.5 million residences throughout Maryland. The 27 projects funded by the ENR Program in FY 2008 will reduce the nitrogen load to the Chesapeake Bay by approximately 6.2 million pounds per year.

<u>Source</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>TOTAL</u>
Special Funds	30,000	49,000	3,000	-	55,000	137,000
Revenue Bonds	50,000	130,000	200,000	137,000	-	517,000
TOTAL	80,000	179,000	203,000	137,000	55,000	654,000

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 2008 Request</u>	<u>Future Request</u>	
Allegany	Cumberland Enhanced Nutrient Removal	30,500	1,000 P	14,000 P	15,500 C	100%
Allegany	George's Creek Enhanced Nutrient Removal	20,072	4,477 PC	2,800 C	723 C	40%
Anne Arundel	Annapolis Enhanced Nutrient Removal	10,710	-	1,000 P	9,710 C	100%
Anne Arundel	Broadneck Enhanced Nutrient Removal	6,400	-	500 P	5,900 PC	100%
Anne Arundel	Cox Creek Enhanced Nutrient Removal	29,910	1,000 PC	3,000 PC	25,910 C	100%
Anne Arundel	Dorsey Run Enhanced Nutrient Removal	3,900	-	400 P	3,500 C	100%
Anne Arundel	Mayo Large Communal Enhanced Nutrient Removal	3,000	300 P	1,400 C	1,300 C	100%
Calvert	Chesapeake Beach Enhanced Nutrient Removal	3,363	300 P	1,000 PC	2,000 C	98%
Dorchester	Cambridge Enhanced Nutrient Removal	1,750	100 P	650 PC	1,000 C	100%
Frederick	Ballenger Enhanced Nutrient Removal	4,800	-	480 P	4,320 C	100%
Frederick	Frederick Enhanced Nutrient Removal	29,000	5,000 PC	10,000 C	14,000 C	100%
Harford	Aberdeen Enhanced Nutrient Removal	7,000	700 P	3,100 C	3,200 C	100%

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Harford	Havre de Grace Enhanced Nutrient Removal	38,145	400 P	2,600 C	10,600 C	36%
Harford	Joppatown Enhanced Nutrient Removal	10,084	400 P	1,600 PC	8,000 C	99%
Harford	Sod Run Enhanced Nutrient Removal	61,869	5,000 PC	10,000 C	40,000 C	89%
Montgomery	Damascus Enhanced Nutrient Removal	1,050	-	100 P	900 C	95%
Montgomery	Seneca Enhanced Nutrient Removal	4,050	-	400 P	3,600 C	99%
Prince George's	Bowie Enhanced Nutrient Removal	8,200	1,200 PC	4,000 C	3,000	100%
Prince George's	Parkway Enhanced Nutrient Removal	8,360	70 P	760 P	7,480 C	99%
Prince George's	Piscataway Enhanced Nutrient Removal	2,490	100 P	140 PC	2,200 C	98%
Prince George's	Western Branch Enhanced Nutrient Removal	11,650	1,000 PC	3,000 PC	7,600 C	100%
St. Mary's	Leonardtown Enhanced Nutrient Removal	18,736	510 PC	2,300 C	2,300 C	27%
Washington	Conococheague Enhanced Nutrient Removal	5,331	-	500 P	4,700 C	98%
Washington	Hagerstown Enhanced Nutrient Removal	9,125	-	3,070 PC	5,830 C	98%
Regional	Back River Enhanced Nutrient Removal	117,000	5,000 P	5,000 P	107,000 CP	100%
Regional	Blue Plains Enhanced Nutrient Removal	507,200	-	3,200 P	260,800 CP	52%
Regional	Patapsco Enhanced Nutrient Removal	204,626	10,000 P	5,000 PC	107,000 C	60%
TOTAL		1,158,321	36,557	80,000	658,073	

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Maryland Drinking Water Revolving Loan Fund (Statewide)

FY 2008 Total \$14,000

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 2008 budget includes funding for eleven projects in six jurisdictions serving 19,490 homes throughout Maryland.

<u>Source</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>TOTAL</u>
General Funds	2,240	2,300	2,300	2,300	2,300	11,440
Special Funds	3,946	3,900	3,900	3,900	3,900	19,546
Federal Funds	7,814	7,850	7,850	7,850	7,850	39,214
TOTAL	14,000	14,050	14,050	14,050	14,050	70,200

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 2008 Request</u>	<u>Future Request</u>	
Allegany	Bowman's Addition Water Project	5,615	-	4,615 C	-	82%
Allegany	Clarysville Water Project	880	-	200 C	-	23%
Calvert	East Prince Frederick Tower and Well	1,540	-	1,000 C	-	65%
Carroll	Taneytown/Baltimore Street Water Main Replacement	2,197	-	1,447 C	-	66%
Carroll	Taneytown/Piney Creek Aquifer New Well	836	-	760 C	-	91%
Carroll	Westminster/Medford Quarry Emergency Connection	4,675	-	1,000 C	-	21%
Cecil	Chesapeake City Water Storage Tank	825	-	750 C	-	91%
Cecil	North East Water System Improvements	12,300	-	2,560 C	-	21%
Cecil	Port Deposit Water Treatment and Intake Upgrades	2,124	-	583 C	-	28%
St. Mary's	St. Clement's Shores Backup Well	150	-	150 C	-	100%
Talbot	Oxford Arsenic Removal Project	1,220	-	935 C	-	77%
TOTAL		32,362	-	14,000	-	

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Septic System Upgrade Program (Statewide)

FY 2008 Total \$6,000

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 the 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 2008 budget provides funding for approximately 500 septic system upgrades.

<u>Source</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>TOTAL</u>
Special Funds	6,000	6,000	6,000	6,000	6,000	30,000
TOTAL	6,000	6,000	6,000	6,000	6,000	30,000

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Sewer Rehabilitation Program (Statewide)

FY 2008 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 2008 budget provides funding for three projects to abate CSOs totaling \$1.35 million; six sanitary sewer rehabilitation projects totaling \$2.45 million and three inflow/infiltration correction projects totaling \$1.2 million.

<u>Source</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>TOTAL</u>
Special Funds	5,000	5,000	-	-	-	10,000
TOTAL	5,000	5,000	-	-	-	10,000

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 2008 Request</u>	<u>Future Request</u>	
Allegany	Cumberland Combined Sewer Overflow	29,840	2,000 PC	450 PC	-	8%
Allegany	Frostburg Combined Sewer Overflow Elimination Project	20,000	1,000 PC	700 C	-	9%
Allegany	Grahamtown Sanitary Sewer Rehabilitation	1,000	-	500 C	-	50%
Allegany	Westernport Combined Sewer Overflow	19,000	1,500 PC	200 PC	-	9%
Baltimore City	Baltimore City Sanitary Sewer Overflow	35,258	2,875 C	1,000 C	-	11%
Carroll	Taneytown - Baltimore Street Sanitary Sewer Replacement	1,764	-	200 C	-	11%
Dorchester	Gordon Street Lift Station Upgrade	167	-	150 C	-	90%
Harford	Havre de Grace Sewer Main Replacement	390	-	200 C	-	51%
Talbot	St. Michaels Region II Sewer Collection System Improvements	9,700	1,000 C	400 C	-	14%
Washington	Williamsport I/I Repairs	800	-	400 C	-	50%
Wicomico	Fruitland I/I Repairs	1,095	-	600 C	-	55%
Worcester	Pocomoke City I/I Repairs	350	-	200 C	-	57%
TOTAL		119,364	8,375	5,000	-	

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Hazardous Substance Clean-up Program (Statewide)

FY 2008 Total

\$850

This program is responsible for the remediation of hazardous waste contaminated sites that 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 2008 budget includes funds for four projects in four jurisdictions and for statewide site assessments.

<u>Source</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>TOTAL</u>
General Funds	850	1,000	1,000	1,000	1,000	4,850
TOTAL	850	1,000	1,000	1,000	1,000	4,850

Hazardous Substance Clean-up 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 2008 Request</u>	<u>Future Request</u>	
Anne Arundel	Harundale Well Field Assessment	400	200 PC	200 P	-	100%
Baltimore City	Chemical Metals Site - Remediation Project	753	653 P	100 C	-	100%
Baltimore	Blenheim Road Site Assessment	300	150 P	150 P	-	100%
Cecil	Montgomery Brothers - Site Improvements	250	50 P	200 C	-	100%
Statewide	Site Assessments	200	-	200 P	-	100%
TOTAL		1,903	1,053	850	-	

Subtotals for Office of the Secretary

<u>Source</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>TOTAL</u>
General Funds	7,330	6,700	6,700	6,700	6,700	34,130
Special Funds	79,526	118,900	37,900	59,900	89,900	386,126
Federal Funds	28,994	24,850	24,850	24,850	24,850	128,394
Revenue Bonds	100,000	130,000	250,000	137,000	50,000	667,000
TOTAL	215,850	280,450	319,450	228,450	171,450	1,215,650

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WATER MANAGEMENT ADMINISTRATION

Budget Code: UA04

Biological Nutrient Removal Program (Statewide)

FY 2008 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 2008 budget provides funding for BNR upgrades at seven major wastewater treatment plants, located in four jurisdictions and two regions. Proposed upgrades will help reduce nitrogen levels by approximately eight million pounds per year.

<u>Source</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>TOTAL</u>
GO Bonds	18,000	18,000	18,000	16,500	16,500	87,000
TOTAL	18,000	18,000	18,000	16,500	16,500	87,000

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 2008 Request</u>	<u>Future Request</u>	
Allegany	George's Creek Biological Nutrient Removal	20,072	3,472 PC	500 C	65 C	20%
Cecil	Elkton Biological Nutrient Removal	36,800	4,700 PC	2,000 C	662 C	20%
Cecil	Perryville Biological Nutrient Removal	13,200	200 P	2,000 PC	300 C	19%
Charles	Mattawoman Biological Nutrient Removal	29,451	9,990 PC	444 C	-	35%
Kent	Chestertown Biological Nutrient Removal	9,598	2,470 PC	575 C	-	32%
Regional	Blue Plains Biological Nutrient Removal	507,200	14,743 PC	3,500 P	55,757 PC	15%
Regional	Patapsco Biological Nutrient Removal	204,626	7,773 PC	8,981 C	24,560 C	20%
TOTAL		820,947	43,348	18,000	81,344	

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Supplemental Assistance Program (Statewide)

FY 2008 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 its 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 2008 budget provides funding for three projects for combined sewer overflow improvements (\$460,000); six projects for biological nutrient removal (\$2,300,000); two wastewater treatment plant upgrades (\$700,000); and five projects for sewer rehabilitation (\$1,540,000).

<u>Source</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</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 2008 Request</u>	<u>Future Request</u>	
Allegany	Cumberland Combined Sewer Overflow	29,840	3,881 PC	150 PC	2,969 C	24%
Allegany	Frostburg Combined Sewer Overflow Elimination Project	20,000	1,078 PC	150 PC	3,772 C	25%
Allegany	George's Creek Biological Nutrient Removal	20,072	961 PC	100 C	957 C	10%
Allegany	Westernport Combined Sewer Overflow	19,000	1,562 PC	160 PC	3,278 C	26%
Carroll	Taneytown - Baltimore Street Sanitary Sewer Replacement	1,764	-	300 C	-	17%
Cecil	Rising Sun Wastewater Treatment Plant Upgrade	9,036	-	400 C	600 C	11%
Charles	Benedict Central Sewer Collection and Treatment System	6,258	-	400 C	829 C	20%
Charles	Indian Head Biological Nutrient Removal	13,922	828 C	381 C	207 C	10%
Dorchester	Hurlock WWTP Biological Nutrient Removal	7,585	600 PC	700 C	-	17%
Frederick	Brunswick WWTP Biological Nutrient Removal	14,100	600 PC	253 C	304 C	8%
Harford	Oaklyn Manor Phase II Sewer System Installation	2,950	-	400 C	196 C	20%

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Kent	Chestertown WWTP Biological Nutrient Removal	9,598	600 PC	440 C	-	11%
Queen Anne's	Centreville WWTP Biological Nutrient Removal	9,662	1,300 PC	426 C	-	18%
Somerset	Crisfield Sewer Collection System Rehabilitation	1,109	-	200 C	-	18%
Washington	Kemp Mills Sewage Collection System	480	-	240 C	-	50%
Washington	Rolling Hills Sewage Collection System	3,202	-	300 C	1,000 C	41%
TOTAL		168,578	11,410	5,000	14,112	

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Water Supply Financial Assistance Program (Statewide)

FY 2008 Total \$3,000

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 2008 budget provides funds for thirteen projects in nine jurisdictions, which will provide safe and adequate water supplies to 13,700 homes.

<u>Source</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>TOTAL</u>
GO Bonds	3,000	2,500	2,500	2,500	2,500	13,000
TOTAL	3,000	2,500	2,500	2,500	2,500	13,000

Water Supply Financial 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 2008 Request</u>	<u>Future Request</u>	
Allegany	Bowman's Addition Water Project	5,615	-	200 C	300 C	9%
Allegany	Clarysville Water Project	880	-	300 C	-	34%
Allegany	Ridgedale Storage Tank Replacement	2,500	200 PC	100 C	700 C	40%
Caroline	Greensboro Water Line Replacement	600	-	100 C	355 C	76%
Caroline	Nelpine Heights/Jonestown Water Project	1,100	613 C	300 C	-	83%
Carroll	Union Bridge Well Rehabilitation	55	-	48 C	-	87%
Cecil	Port Deposit Water Treatment and Intake Upgrades	2,123	319 C	225 C	506 C	49%
Harford	Glen Heights - Public Water System Connection	2,200	-	500 C	500 C	46%
Talbot	Oxford Arsenic Removal Project	1,240	-	125 C	-	10%
Washington	Highfield and Sharpsburg Water Treatment Plant and Storage Tanks Rehabilitation	515	209 PC	237 C	-	87%
Washington	Mt. Aetna Water Treatment Plant - New Water Source	250	-	215 C	-	86%
Wicomico	Willards Drinking Water Facility Project	3,317	-	450 C	250 C	21%
Worcester	Newark Sanitary Service Area - New Water Tower	461	-	200 C	-	43%
TOTAL		20,856	1,341	3,000	2,611	

DEPARTMENT OF THE ENVIRONMENT

Maryland Stormwater Pollution Control Program (Statewide)

FY 2008 Total

\$750

This program provides up to 75% matching grants to local governments for stormwater management (retrofit) projects to reduce nonpoint source pollution from existing developed areas. Grantees must contribute a minimum of 25% of the total project cost. The FY 2008 budget includes funding for three projects, which will address stormwater runoff for 112 drainage acres.

<u>Source</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>TOTAL</u>
GO Bonds	750	1,000	1,000	1,000	1,000	4,750
TOTAL	750	1,000	1,000	1,000	1,000	4,750

Maryland Stormwater Pollution Control 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 2008 Request</u>	<u>Future Request</u>	
Anne Arundel	Back Creek Nature Park Stormwater Management	700	80 P,C	445 C	-	75%
Anne Arundel	South Down Shores Stormwater Management	630	-	280 C	-	44%
Baltimore City	Urban Stormwater Management Demonstration Projects	415	75 P,C	25 C	-	24%
TOTAL		1,745	155	750	-	

DEPARTMENT OF THE ENVIRONMENT

Small Creek and Estuary Restoration Program (Statewide)

FY 2008 Total

\$500

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 2008 budget includes funds for two projects that will rehabilitate 3,550 linear feet of highly eroded stream channel.

<u>Source</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>TOTAL</u>
GO Bonds	500	500	500	500	500	2,500
TOTAL	500	500	500	500	500	2,500

Small Creek and Estuary Restoration 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 2008 Request</u>	<u>Future Request</u>	
Anne Arundel	North Cypress Branch Stream Restoration	2,732	-	379 C	-	14%
Queen Anne's	Little Creek Protection Project	301	29 PC	121 C	-	50%
TOTAL		3,033	29	500	-	

DEPARTMENT OF THE ENVIRONMENT

Comprehensive Flood Management Grant Program (Statewide)

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's funds cover 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 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>TOTAL</u>
GO Bonds	-	500	500	500	500	2,000
TOTAL	-	500	500	500	500	2,000

Subtotals for Water Management Administration

<u>Source</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>TOTAL</u>
GO Bonds	27,250	27,500	27,500	26,000	26,000	134,250
TOTAL	27,250	27,500	27,500	26,000	26,000	134,250

Subtotals for Grants and Loans

<u>Source</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>TOTAL</u>
GO Bonds	27,250	27,500	27,500	26,000	26,000	134,250
General Funds	7,330	6,700	6,700	6,700	6,700	34,130
Special Funds	79,526	118,900	37,900	59,900	89,900	386,126
Federal Funds	28,994	24,850	24,850	24,850	24,850	128,394
Revenue Bonds	100,000	130,000	250,000	137,000	50,000	667,000
TOTAL	243,100	307,950	346,950	254,450	197,450	1,349,900

Total Program - Department of the Environment

<u>Source</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>TOTAL</u>
GO Bonds	27,250	27,500	27,500	26,000	26,000	134,250
General Funds	7,330	6,700	6,700	6,700	6,700	34,130
Special Funds	79,526	118,900	37,900	59,900	89,900	386,126
Federal Funds	28,994	24,850	24,850	24,850	24,850	128,394
Revenue Bonds	100,000	130,000	250,000	137,000	50,000	667,000
TOTAL	243,100	307,950	346,950	254,450	197,450	1,349,900