

PROJECT NAME	PRIORITY	CIP NO	CONSTR. AMOUNT	CONSTRUCTION YR FUNDED/ TYPE	DESIGN % COMPLETE	STATUS AND COMMENTS
Shovel-Ready Project that PW has applied for grant money through the MDE Water Quality Program						
Sewer Pump Station-Delmarva Power PS Replacement	1A	SM0018	\$2,300,000	FY09 Bond	33%	Replace the undersized DPL pump station to accommodate the planned growth in the area.
Sewer Pump Station-Emergency Generators at Pump Stations	1	SL0007	\$900,000	FY09 Budget		Portable pumps are needed to provide bypass pumping capability at lift stations through out the collection system. This will reduce the number of CSO/SSOs.
Sewer Pump Station-Line Mill St Collection System to Prevent Infiltration	2	SL0012	\$300,000	FY10 Budget?	95%	Studies of the sewer flows in the Historic Downtown and tributary areas indicate that rehabilitation of the sewer pipes to reduce inflow and infiltration should be initiated prior to upgrading the pumping station. This work will consist of evaluation of existing system inspection data, prioritizing line segments, preparation of bid documents for repairs, initiating repairs, and system evaluation and inspections. Repairs will consist of replacement, relining, and grouting of defective pipe and repair or lining of manholes. Ongoing engineering and skilled services will be used to evaluate pipes for appropriate repair methods.
Sewer Pump Station-NSPS and SSPS Diminutors and Odor Control	21		\$1,633,500		80%	Installation of diminutors and odor control at North Side and South Side Pump Stations.
Sewer Pump Station-Parkside Replacement	3	SL0008	\$1,196,000	FY12 Capacity Fees?	3%	Upgrading the pump stations is needed to provide adequate pumping capacities due to growth. Additionally, replacing the existing station equipment as it reaches the end of its useful life. Construction is estimated at \$1,000,000 with \$196,000 for Engineering during Construction.
Sewer-Line Church St 18" & 12" Mains from E Isabella St to Truitt St to Infiltration	4		\$225,000	FY10 Budget?		The existing sewer main in Church St is the primary interceptor sewer serving the eastern part of the metro core area. This project will rehabilitate the existing 12" to 18" sewer main with a cured-in-place UV pipe liner from East Isabella St to Truitt St. The lining project will restore the pipe to its original capacity with minimal impact to traffic on Church St.
Sewer-Line W Main St 8" from Germania to Fitzwater to Prevent Infiltration	5	SM0010	\$65,000		100%	The existing sewer main in West Main Street is an 80 year old terra-cotta sewer serving the section of West Main St that flows into the Fitzwater St Pump Station. This project will rehabilitate the existing 8" sewer main with a cured-in-place UV pipe liner from Germania Circle to 200' before Fitzwater St. The lining project will restore the pipe to its original capacity and reduce or eliminate ground water infiltration into the sewer system.
Sewer Relief-Naylor Mill Rd from Northgate to Northwood	6		\$250,000		10%	Construction of a relief sewer in Naylor Mill Rd from Northgate Dr. to Northwood Dr
Sewer Relief-N Div St.Baltimore Ave. to Talbot St.	8	SM0004	\$2,100,000	FY11 Capacity Fees?	23%	The 30" S main will be a primary interceptor sewer serving the northern part of the metro core area. This project will extend from the future 42" trunk main in Isabella St to the intersection of Talbot St. and West Chester St. via N Division St. It will augment or replace the existing 18" sewer main in N. Division St and will help reduce the frequency of sewage overflows at Middle Neck
Water System Redundancy-Naylor Mill Rd 12" from Northgate to Northwood	7	WM0006	\$200,000	FY10 Budget-\$100,000 Capacity Fees-\$100,000	10%	The 12" W main will be a small part of the primary potable water transmission main from the Paleo Water Treatment Plant around the northeast quadrant of the metro core to the Route 50 East corridor. It will provide increased water pressure and flow to that part of the City and county. This project will be located within the Naylor Mill Rd right of way and will extend from Northwood Dr in the west to Northgate Drive. Total estimated cost of Construction is \$200,000 in FY10 with Engineering being performed in-house.
Water & Sewer Relief and Replacement-Isabella St Phase II from Lake to Delaware	9	WM0008 SM0008	\$790,000	FY14 Budget? FY13 Capacity Fees?	90%	The 42" S Main will be a primary interceptor sewer serving the northern part of the metro core area. The trunk main will extend from the North Side Pump Station to North Division Street via Delaware Ave and Isabella Street. Phase II will include that portion in Isabella Street from Lake Street to Delaware Ave. The existing 12"W (8"W in certain portions) in Isabella Street from Lake Street (the culvert) to Delaware requires frequent maintenance, are over 50 years old, and are scheduled for replacement in FY11.
Water System Replacement-Isabella Street from Delaware Ave to Rt 50	10	WM0013	\$210,000	FY10 Budget?	60%	The existing 12"W (8"W in certain portions) in Isabella Street from Delaware Ave to Rt. 50 requires frequent maintenance, is over 50 years old, and is scheduled for replacement in FY10. 2200 LF x \$6.50/in/ft x 12" + 20% contingency = \$210,000 for construction with 20% of construction estimated for Engineering of \$40,000.
Water-Replacement of Cast Iron Distribution Piping	11	WM0014	\$1,990,000	FY12 Budget?	N/A	This project includes replacement of cast iron piping throughout the system. Using age data for system piping, it appears that the water system includes approximately 450,000 feet of cast iron piping. The purpose of the project is to allow controlled replacement of failing water mains during street pavement improvements, improved water service, and reduction in unscheduled repairs. It is assumed that replacement would take place over a 15-year period. This project is independent of other proposed water system improvements and the timing for implementation is driven by the need to increase fire flow capabilities and reliability in the areas served by these projects.
Water-Replacement of Undersized Distribution Piping	12	WM0010	\$300,000	FY10 Budget?	N/A	This project includes replacement of 2-inch and smaller galvanized water mains throughout the system (14,000 feet). The purpose of the project is to increase pressures, reduce lead connections, and reduce unscheduled water repairs. For planning purposes, it is assumed that the City would replace approximately 10% annually. This project is independent of other proposed water system improvements and the timing for implementation should be coordinated with road repairs and other work in the City.
Water & Sewer to Replace Failing Septics-Viewfield to Mt Hermon Rd	13	WM0009 SM0009	\$165,000	FY12 Budget	0%	The 8" W main will serve two residences that are in the City limits but have private wells and septic systems, which are presently being maintained by City forces. The proposed main will be located outside the State right of way within a 15-foot easement on the north side of Mt Hermon Road and will extend approximately 900 feet from the existing system at Valleywood Drive to a point just east of Viewfield Drive.
Water Tower to Augment System-Milford Street 2MG	14	WP0028	\$4,202,000	FY12 Bond?	0%	Construct much needed elevated water storage facility to serve the Southern portions of the system. Construction is estimated at \$4,202,000 in FY12. The cost of this project is split between expansion and current customers due to the existing need of the water tower for system equalization and fire/emergency storage.
Storm Drain Replacement-Baptist St.	15	PW0029	\$120,000	FY08 Unused bond funds?		The 20" terra-cotta storm drain pipe in Baptist Street, between East Main Street and Market Street, is in need of replacement. An emergency repair was made on 1/24/07 and during that repair it was discovered that the pipe has multiple longitudinal cracks. The length of the recommended repair is 1200 feet at \$100.00 per foot. Refer to contract number 10-75-SW, 1 of 3.
Storm Drain Relief-Fitzwater Street @ Delaware Avenue	16	PW0030	\$35,000	FY11 Budget?	10%	The stormdrain located at the intersection of Fitzwater Street and Delaware Avenue has no outfall pipe and experiences severe flooding during intense storms. Public Works has developed construction drawings to reduce the flooding issue by connecting this stormdrain into the existing stormdrain system on Delaware Avenue through a 12" pipe.
Storm Drain Flood Relief-Northwood Dr @ Brewington Br	17	PW0016	\$55,000	FY11 Budget?	100%	Presently a heavy rain will flood the street, overflow the existing asphalt curb and erode the steep earthen embankment of Northwood Drive at the Brewington Branch crossing.
WTP-Hydrogeologist Analysis for Paleo Wellfield and Well No. 3 construction	18		\$3,934,000			Drill and develop new wells in the Paleo Well fields. These wells are urgently needed to ensure reliable production and to keep up with the increased expansion of the system to outlying areas. This project should begin with test wells, a site evaluation including a well field groundwater analysis, and engineering.
WWTP-Dilute Methanol Storage Tanks	22		\$1,150,000		0%	Upgrade of supplemental Carbon Storage & Feed Facility for use as a safer form of methanol.
Storm Drain-Springfield Circle Flood Relief	19	PW0017	\$32,000	FY11 Bond?	25%	Construct a storm drain system to eliminate the flooding problem at the intersection of Springfield Cir and Lincoln Ave.
Storm Drain-Vine St Flood Relief	20	PW0028	\$30,000	FY12 Budget?	25%	The Vine and Roger Street intersection is in a hole (there is no overland flood relief, drainage of the intersection depends on the capacity of the pipes that drain it) that is drained by a 36-inch storm drain pipe which is probably plenty large for the watershed it serves. However the 3 inlets that drain into the 36-inch main have connection pipes that are only 10-inch to 12-inch diameter. These pipes should be replaced with 15-inch pipes that would roughly double the drainage capacity of the system at that intersection. We should probably try to replace one of the three inlets with a larger capacity curb-type inlet with 18-inch pipe for even more capacity and as a safety factor to prevent clogging.

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Total Funding applied for through the MDE Water Quality Grant			\$19,882,500			

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Shovel-Ready Bridge and Roadway Improvement projects						
Bridge Repair-Memorial Plaza	1	BR0003	\$38,000	FY10 Budget?	100%	Place guardrails and perform minor cosmetic repairs to bridge structure.
Bridge Repair-South Division Street	2	BR0005	\$75,000	FY11 Budget?	100%	Place guardrails, repair settlement at roadway approaches and perform minor cosmetic repairs to bridge structure.
Street Reconstruction-Parsons Rd and Fitzwater St	3		\$1,418,000	FY14 Bond?	0%	Replace subbase and repave. consider soil cement to supplement existing roadway base material.
Street Reconstruction-S Division St Intersection with Onley Rd and Bateman St	4	ST0004	\$1,323,000	FY10? \$1,098,000 Bond \$225,000 Developer Contributions	25%	Revised from signalized design to a roundabout. Working with SU on easement acquisition. Fund through bond issue and developer contributions. Project has been moved up to FY10 in CIP.
Street Repaving-Burton St from Lake St to Cypress St	5	RP0004	\$45,500	FY10 budget?	N/A	Miling and repaving.
Street Repaving-Lake St from Main St to City Limits	6	RP0004	\$272,000	FY10 budget?	N/A	Miling and repaving.
Street Repaving-Rose St from Lake St to City Limits	7	RP0004	\$56,000	FY10 budget?	N/A	Miling and repaving.
Street Repaving-Ashylon St from N Division St to Rt 13	8	RP0004	\$24,500	FY11 budget?	N/A	Miling and repaving.
Street Repaving-Ellen St from William St to Broad St	9	RP0004	\$71,000	FY11 budget?	N/A	Miling and repaving.
Street Repaving-N Division St from Rt 50 to Cul-de-sac	10	RP0004	\$334,000	FY11 budget?	N/A	Miling and repaving.
Street Repaving-Naylor St from N Division St to Rt 13	11	RP0004	\$20,000	FY11 budget?	N/A	Miling and repaving.
Street Repaving-Northwood Dr from Leonard La to Arlington Rd	12	RP0004	\$334,000	FY12 budget?	N/A	Miling and repaving.
Street Repaving-Arlington Rd from Rt 13 to Northwood Dr	13	RP0004	\$71,000	FY12 budget?	N/A	Miling and repaving.
Street Repaving-Alexander Ave from Northwood Dr to Rt 13	14	RP0004	\$44,000	FY13 budget?	N/A	Miling and repaving.
Street Repaving-Asbury Pl from William St to Broad St	15	RP0004	\$19,000	FY13 budget?	N/A	Miling and repaving.
Street Repaving-Brown St from Barclay St to Truitt St	16	RP0004	\$153,000	FY13 budget?	N/A	Miling and repaving.
Street Repaving-Delaware Ave from Booth St to Isabella St	17	RP0004	\$141,000	FY13 budget?	N/A	Miling and repaving.
Street Repaving-Kent Ave from Hammond St to Priscilla St	18	RP0004	\$14,100	FY13 budget?	N/A	Miling and repaving.
Street Repaving-Booth St from City Limits to East End	19	RP0004	\$71,000	FY14 budget?	N/A	Miling and repaving.
Street Repaving-Decatur Ave from Pyle St to Division St	20	RP0004	\$158,000	FY14 budget?	N/A	Miling and repaving.
Street Repaving-Glen Ave from Main St to Long Ave	21	RP0004	\$119,000	FY14 budget?	N/A	Miling and repaving.
Street Repaving-Main St from Moss Hill La to Church St	22	RP0004	\$47,300	FY14 budget?	N/A	Miling and repaving.
Total Funding Requested for Bridge and Roadway Improvement Projects			\$4,848,400			
Shovel-Ready Dam Safety/Repair Projects						
Dam-Schumaker Pond	1	PW0009	\$50,000	FY09 Unused bond funds?	100%	Design of toewall to divert flood waters by SPW is complete, has been approved by MDE. Awaiting funding.
Dam-Citywide Safety Measures for Spillway Access	2	PW0031	\$110,000	FY10 Budget?	0%	Timber catwalks from spillways on 4 City dams to allow City personnel safe access to open and close low flow drain valves on City-owned ponds.
Total Funding Requested for Bridge and Roadway Improvement Projects			\$160,000			
Shovel-Ready Energy Conservation and Misc. Public Infrastructure Projects						
Water Tower-Lemmon Hill Lane Standpipe analysis	1		\$130,000	Grant Funding	100%	Standpipe will stay for historical purposes. Of the several suggestions for improvement, we will do concrete work now and do the rest at a later date. Working with Jay on using the existing contract with Malone & Phillips to complete this work.
Service Center-Garage Expansion	2	PW0002	\$579,000 \$1,351,000	FY10 Budget? FY10 Bond?	90%	Replacement of existing municipal vehicle maintenance and repair building, which is structurally deficient. Design of replacement building is 95% complete, funds to complete design are pending.
Zoo-Animal Health Facility	3	ZF0002	\$1,500,000	FY08 Bond-\$500,000 Grant-\$100,000 Donations-\$400,000	99%	Complete design by April, 2009. Approved \$500K for construction in FY08 bond. Grant for \$100K has been received. Received 100% design submittal for review.
Hike & Bike Trail for North East Collector	4	GR0005	\$183,000	FY08 Grant FY09 Grant Pending	99%	Design almost complete. Waiting on SHA approval. Proposed \$66,750 in FY09 funding thru unused bond proceeds is pending.
Street Lights - Sassafras Meadows, Phase I	5	PW0005	\$50,000	FY10 Budget?		Applies to Phase I which was approved as a county project without street lights.
Traffic Signal Conversion to LED Signal Heads	6		\$250,000	Grant Funding		Potential savings in energy and maintenance requirements. Details are outlined in the City's Energy Management Plan.
Total Funding Requested for Energy Conservation and Misc. Public Infrastructure Projects			\$2,113,000			
Total Funding for Shovel-Ready Projects			\$27,003,900			

Priorities are based on sewer, then water, then storm water, then roadways, then by proposed fiscal year funded and finally by the amount of design needed to become "shovel-ready."