

COMMUNITY INVESTMENT PLAN FOR FISCAL YEARS 2017 TO 2022

	2017	2018	2019	2020	2021	2022	Prior Allocation	Balance to Complete	Total Project Cost
UTILITIES ENTERPRISE:									
Fiber Optic Line Network	\$0	\$0	\$0	\$500,000	\$523,000	\$575,000	\$0	\$0	\$1,598,000
Freedom District Relief Sewer No. 2	1,367,000	0	0	0	0	0	164,000	0	1,531,000
Freedom District Relief Sewer No. 4 (Snowden's Creek)	652,000	0	0	0	0	0	108,500	0	760,500
Freedom District Relief Sewer No.10 (Sykesville Interceptor)	415,800	3,509,000	0	0	0	0	405,300	0	4,330,100
Freedom WWTP Capacity Expansion	0	0	0	0	1,225,000	12,865,000	0	0	14,090,000
Greenmount Infrastructure	0	0	0	0	2,338,000	7,780,000	0	0	10,118,000
Hampstead WWTP Capacity Expansion	0	0	0	0	766,000	8,040,000	0	0	8,806,000
Hydrant Replacements	118,000	124,000	130,000	137,000	143,000	150,150	0	0	802,150
Patapsco Valley Pump Station Upgrade	0	0	0	0	0	356,400	0	0	356,400
Piney Run Pump Station Improvements	81,250	0	0	0	0	0	305,000	0	386,250
Pleasant Valley WWTP Rehabilitation	0	0	0	0	0	902,160	0	0	902,160
Roberts Field Pump Station Rehabilitation	164,500	0	0	0	0	0	0	0	164,500
Sewer Main Rehabilitation	433,000	455,000	477,100	501,000	526,000	553,000	0	0	2,945,100
Sewer Manhole Rehabilitation	222,000	233,000	245,000	258,000	271,000	285,000	0	0	1,514,000
Shiloh Pump Station Upgrade	0	0	0	0	91,500	788,000	0	0	879,500
South Carroll WWTP Rehabilitation	0	0	0	0	0	740,000	0	0	740,000
Standby Generator Replacement	133,350	151,000	180,300	192,000	211,000	39,000	0	0	906,650
Stone Manor Pump Station Rehabilitation	306,000	0	0	0	0	0	0	0	306,000
Tank Painting, Repair and Rehabilitation	275,000	322,000	900,000	350,000	424,000	450,000	0	0	2,721,000
Town of Sykesville Streetscape Water and Sewer Upgrades	350,000	4,900,000	0	0	0	0	0	0	5,250,000
Town of Sykesville Water and Sewer Upgrades	0	0	0	0	900,000	1,475,000	0	8,900,000	11,275,000
Water Main Loops	301,125	174,250	592,100	395,600	923,580	681,410	489,000	0	3,557,065
Water Main Valve Replacements	262,500	275,625	289,500	303,900	319,000	335,000	0	0	1,785,525
Water Meters	897,000	626,000	658,000	690,000	725,000	761,000	0	0	4,357,000
Water Service Line Replacement	240,000	246,000	268,000	320,000	335,000	353,000	0	0	1,762,000
Water/Sewer Studies	0	0	0	100,000	0	0	400,000	0	500,000
Waters Edge Pump Station Rehabilitation	0	275,000	0	0	0	0	0	0	275,000
West Hampstead Collector Sewer Main Upgrade/Repair	1,697,400	0	0	0	0	0	147,600	0	1,845,000
Winfield Pump Station Upgrade	0	0	0	0	0	204,600	0	0	204,600
<b>UTILITIES ENTERPRISE TOTAL</b>	<b>\$7,915,925</b>	<b>\$11,290,875</b>	<b>\$3,740,000</b>	<b>\$3,747,500</b>	<b>\$9,721,080</b>	<b>\$37,333,720</b>	<b>\$2,019,400</b>	<b>\$8,900,000</b>	<b>\$84,668,500</b>

# Fiber Optic Line Network

Robin Hooper, Management and Budget Project Coordinator (410) 386-2082

Proj #

This project provides planned funding for installation of fiber optic lines, and supervisory control and data acquisition system for pump stations, water tanks, and treatment facilities. The system will allow the Bureau of Utilities to securely monitor and control the infrastructure remotely and monitor and evaluate emergency alarms at any time.

	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design									0
Land Acquisition									0
Site Work									0
Construction				450,000	473,000	525,000			1,448,000
Equipment/Furnishings									0
Other				50,000	50,000	50,000			150,000
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>500,000</b>	<b>523,000</b>	<b>575,000</b>	<b>0</b>	<b>0</b>	<b>1,598,000</b>
<b>PROJECTED OPERATING IMPACTS</b>	0	0	0	0	0	0			0

# Freedom District Relief Sewer No. 2

District Location: 5

Robin Hooper, Management and Budget Project Coordinator (410) 386-2082

6374

This project provides funding for the replacement of the existing eight-inch sewer main with a sixteen-inch main in the vicinity of the Carroll Highlands and Harvest Farms developments to the Carroll Highlands Pump Station. Enlarging the main will provide relief to the sewer system, allow for increased flows resulting from in-fill development and/or major storm events, and reduction of inflow and infiltration.

	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design							164,000		<b>164,000</b>
Land Acquisition	55,000								<b>55,000</b>
Site Work	109,000								<b>109,000</b>
Construction	1,094,000								<b>1,094,000</b>
Equipment/Furnishings									<b>0</b>
Other	109,000								<b>109,000</b>
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>1,367,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>164,000</b>	<b>0</b>	<b>1,531,000</b>
<b>PROJECTED OPERATING IMPACTS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>			<b>0</b>

# Freedom District Relief Sewer No. 4 (Snowden's Creek)

District Location: 5

Robin Hooper, Management and Budget Project Coordinator (410) 386-2082

6376

This project provides funding for replacing 2,050 feet of a sewer main that parallels Snowden's Creek Road. A video camera inspection has shown numerous sags in the main that constrict flow, allowing stormwater inflow and infiltration into the system. The main was originally constructed in 1978.

	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design							108,500		<b>108,500</b>
Land Acquisition	26,000								<b>26,000</b>
Site Work	52,000								<b>52,000</b>
Construction	522,000								<b>522,000</b>
Equipment/Furnishings									<b>0</b>
Other	52,000								<b>52,000</b>
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>652,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>108,500</b>	<b>0</b>	<b>760,500</b>
<b>PROJECTED OPERATING IMPACTS</b>	0	0	0	0	0	0			0

# Freedom District Relief Sewer No.10 (Sykesville Interceptor)

District Location: 5

Robin Hooper, Management and Budget Project Coordinator (410) 386-2082

6382

This project provides funding for the installation of a new sanitary sewer main and pump station. The current gravity sewer main runs parallel to the railroad tracks and the South Branch Patapsco River. This section of sanitary sewer main was constructed in 1969 and has a history of problems with limited access. An engineering evaluation will be performed to determine the location of the new sewer line and pumping station.

	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design	326,000						79,500		<b>405,500</b>
Land Acquisition	70,000								<b>70,000</b>
Site Work							86,800		<b>86,800</b>
Construction		2,000,000					217,000		<b>2,217,000</b>
Equipment/Furnishings		1,190,000							<b>1,190,000</b>
Other	19,800	319,000					22,000		<b>360,800</b>
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>415,800</b>	<b>3,509,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>405,300</b>	<b>0</b>	<b>4,330,100</b>
<b>PROJECTED OPERATING IMPACTS</b>	0	0	0	0	0	0			0

# Freedom WWTP Capacity Expansion

District Location: 5

Robin Hooper, Management and Budget Project Coordinator (410) 386-2082

Proj #

This project provides planned funding for improvements at the Freedom Wastewater Treatment plant to increase capacity. The scope of the expansion may include an addition of two clarifiers, deepening the enhanced nutrient removal tanks, additional filtration capacity, pump upgrades and expansion of the ultra-violet chamber. After the expansion, capacity is anticipated to increase from 3.5 million gallons per day (MGD) to 4.2-4.7 MGD.

	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design					1,225,000				1,225,000
Land Acquisition									0
Site Work									0
Construction						12,865,000			12,865,000
Equipment/Furnishings									0
Other									0
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,225,000</b>	<b>12,865,000</b>	<b>0</b>	<b>0</b>	<b>14,090,000</b>
<b>PROJECTED OPERATING IMPACTS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>			<b>0</b>

# Greenmount Infrastructure

District Location: 2

Robin Hooper, Management and Budget Project Coordinator (410) 386-2082

Proj #

This project provides planned funding for the addition of two wastewater pumping stations, installation of approximately 4,200 linear feet of gravity main, and 1,000 linear feet of force main. This expansion will accommodate the additional loads anticipated from the Greenmount priority service area in the Hampstead Water/Sewer Master Plan.

	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design					778,000				<b>778,000</b>
Land Acquisition					1,560,000				<b>1,560,000</b>
Site Work									<b>0</b>
Construction						7,780,000			<b>7,780,000</b>
Equipment/Furnishings									<b>0</b>
Other									<b>0</b>
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2,338,000</b>	<b>7,780,000</b>	<b>0</b>	<b>0</b>	<b>10,118,000</b>
<b>PROJECTED OPERATING IMPACTS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>			

# Hampstead WWTP Capacity Expansion

District Location: 2

Robin Hooper, Management and Budget Project Coordinator (410) 386-2082

Proj #

This project provides planned funding for upgrades to the Hampstead WWTP to increase capacity from 0.9 million gallons per day (MGD) to 1.2 MGD. The upgrade will include an addition of enhanced nutrient removal tank, clarifier, sand filter expansion, pump upgrades, and piping.

	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design					766,000				766,000
Land Acquisition									0
Site Work									0
Construction						8,040,000			8,040,000
Equipment/Furnishings									0
Other									0
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>766,000</b>	<b>8,040,000</b>	<b>0</b>	<b>0</b>	<b>8,806,000</b>
<b>PROJECTED OPERATING IMPACTS</b>	0	0	0	0	0	0			0



# Hydrant Replacements

Robin Hooper, Management and Budget Project Coordinator (410) 386-2082

6359

This project provides ongoing funding to replace the County's 900 hydrants. The annual allocation for this project funds the replacement of approximately 25 hydrants.

	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design									0
Land Acquisition									0
Site Work									0
Construction									0
Equipment/Furnishings	118,000	124,000	130,000	137,000	143,000	150,150			802,150
Other									0
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>118,000</b>	<b>124,000</b>	<b>130,000</b>	<b>137,000</b>	<b>143,000</b>	<b>150,150</b>	<b>0</b>	<b>0</b>	<b>802,150</b>
<b>PROJECTED OPERATING IMPACTS</b>	0	0	0	0	0	0			0

# Patapsco Valley Pump Station Upgrade

District Location: 5

Robin Hooper, Management and Budget Project Coordinator (410) 386-2082

Proj #

This project provides planned funding to rehabilitate the Patapsco Valley Pump Station, which was built in 2000, with new pumps, controls, grinder, generator, roofing, bypass valving, fencing and paving repairs.

	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design									0
Land Acquisition									0
Site Work									0
Construction						324,000			324,000
Equipment/Furnishings									0
Other						32,400			32,400
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>356,400</b>	<b>0</b>	<b>0</b>	<b>356,400</b>
<b>PROJECTED OPERATING IMPACTS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>			

# Piney Run Pump Station Improvements

District Location: 5

Robin Hooper, Management and Budget Project Coordinator (410) 386-2082

6436

This project provides funding for improvements to Piney Run Pump Station. The existing pumps are experiencing mechanical problems. Modifications will be made to the pump station to install larger heavy-duty pumps in order to handle the current and projected flows.

	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design							305,000		<b>305,000</b>
Land Acquisition									<b>0</b>
Site Work									<b>0</b>
Construction	81,250								<b>81,250</b>
Equipment/Furnishings									<b>0</b>
Other									<b>0</b>
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>81,250</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>305,000</b>	<b>0</b>	<b>386,250</b>
<b>PROJECTED OPERATING IMPACTS</b>	0	0	0	0	0	0			0

# Pleasant Valley WWTP Rehabilitation

District Location: 1

Robin Hooper, Management and Budget Project Coordinator (410) 386-2082

Proj #

This project provides planned funding for the rehabilitation of the Pleasant Valley Wastewater Treatment Facility, which was put in service in 1997. The scope will include replacement of pumps, blowers and generator, as well as electrical and control upgrades, painting of the sequence batch reactor tanks, and other site improvements.

	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design									0
Land Acquisition									0
Site Work									0
Construction						902,160			902,160
Equipment/Furnishings									0
Other									0
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>902,160</b>	<b>0</b>	<b>0</b>	<b>902,160</b>
<b>PROJECTED OPERATING IMPACTS</b>	0	0	0	0	0	0			0

# Roberts Field Pump Station Rehabilitation

District Location: 2

Robin Hooper, Management and Budget Project Coordinator (410) 386-2082

Proj #

This project provides funding to rehabilitate the Roberts Field Pump Station, which was built in 1993, with new pumps, controls, grinder, generator, roofing, bypass valving, fencing and paving repairs.

	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design									0
Land Acquisition									0
Site Work									0
Construction									0
Equipment/Furnishings	164,500								164,500
Other									0
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>164,500</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>164,500</b>
<b>PROJECTED OPERATING IMPACTS</b>	0	0	0	0	0	0			

# Sewer Main Rehabilitation

Robin Hooper, Management and Budget Project Coordinator (410) 386-2082

6421

This project provides ongoing funding for the lining and/or pipe bursting of the sanitary sewer mains. Lining the pipe increases the life of the sewer mains by sealing the joints and cracks and stopping tree roots and inflow and infiltration from damaging the system. Pipe bursting is a trenchless method for replacement of sewer pipes.

	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design									0
Land Acquisition									0
Site Work									0
Construction	393,000	413,000	433,000	455,000	478,000	502,000			2,674,000
Equipment/Furnishings									0
Other	40,000	42,000	44,100	46,000	48,000	51,000			271,100
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>433,000</b>	<b>455,000</b>	<b>477,100</b>	<b>501,000</b>	<b>526,000</b>	<b>553,000</b>	<b>0</b>	<b>0</b>	<b>2,945,100</b>
<b>PROJECTED OPERATING IMPACTS</b>	0	0	0	0	0	0			0

# Sewer Manhole Rehabilitation

Robin Hooper, Management and Budget Project Coordinator (410) 386-2082

6403

This project provides ongoing funding to rehabilitate the Freedom area's 3,000 sanitary sewer manholes and Hampstead's 1,000 sanitary sewer manholes. The funding for this project will address 40 - 60 manholes annually. Repair strategies include foam injection rehabilitation, structure rehabilitation through spray-on lining, the addition of manhole risers to raise the top of structures above ground level to 100 year flood plain elevations, and replacement of existing manhole covers with sealed structures.

	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design									0
Land Acquisition									0
Site Work									0
Construction	222,000	233,000	245,000	258,000	271,000	285,000			1,514,000
Equipment/Furnishings									0
Other									0
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>222,000</b>	<b>233,000</b>	<b>245,000</b>	<b>258,000</b>	<b>271,000</b>	<b>285,000</b>	<b>0</b>	<b>0</b>	<b>1,514,000</b>
<b>PROJECTED OPERATING IMPACTS</b>	0	0	0	0	0	0			0

# Shiloh Pump Station Upgrade

District Location: 2

Robin Hooper, Management and Budget Project Coordinator (410) 386-2082

Proj #

This project provides planned funding for the rehabilitation of Shiloh Pump Station for replacement of pumps, generator and electrical system. The pumps will be upgraded in order to accommodate current flows, as well as future flows, anticipated in the Hampstead Master Plan.

	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design					91,500				91,500
Land Acquisition									0
Site Work									0
Construction						788,000			788,000
Equipment/Furnishings									0
Other									0
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>91,500</b>	<b>788,000</b>	<b>0</b>	<b>0</b>	<b>879,500</b>
<b>PROJECTED OPERATING IMPACTS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>			<b>0</b>



# South Carroll WWTP Rehabilitation

District Location: 5

Robin Hooper, Management and Budget Project Coordinator (410) 386-2082

Proj #

This project provides planned funding for the rehabilitation of the South Carroll Wastewater Treatment Facility, which was put into service in 1992. The scope will include replacement of pumps, blowers and generator, as well as electrical and control upgrades, painting of the sequence batch reactor tanks, and other site improvements.

	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design									0
Land Acquisition									0
Site Work									0
Construction									0
Equipment/Furnishings						740,000			740,000
Other									0
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>740,000</b>	<b>0</b>	<b>0</b>	<b>740,000</b>
<b>PROJECTED OPERATING IMPACTS</b>	0	0	0	0	0	0			

# Standby Generator Replacement

Robin Hooper, Management and Budget Project Coordinator (410) 386-2082

Proj #

This project provides funding for replacement of the standby generator fleet. Currently, there are a total of 24 standby generators at the wastewater pumping stations and wastewater treatment plants and a total of 4 at the water treatment facilities and water tanks. The standby generators are critical in continuing to provide water and sewer service should a power failure occur.

	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design									0
Land Acquisition									0
Site Work									0
Construction									0
Equipment/Furnishings	133,350	151,000	180,300	192,000	211,000	39,000			906,650
Other									0
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>133,350</b>	<b>151,000</b>	<b>180,300</b>	<b>192,000</b>	<b>211,000</b>	<b>39,000</b>	<b>0</b>	<b>0</b>	<b>906,650</b>
<b>PROJECTED OPERATING IMPACTS</b>	0	0	0	0	0	0			0

# Stone Manor Pump Station Rehabilitation

District Location: 5

Robin Hooper, Management and Budget Project Coordinator (410) 386-2082

6437

This project provides funding to rehabilitate the Stone Manor Pump Station, which was built in 1997, with new pumps and controls, roofing, a generator, and upgrade of the electrical system.

	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design									0
Land Acquisition									0
Site Work									0
Construction									0
Equipment/Furnishings	255,000								255,000
Other	51,000								51,000
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>306,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>306,000</b>
<b>PROJECTED OPERATING IMPACTS</b>	0	0	0	0	0	0			0

# Tank Painting, Repair and Rehabilitation

Robin Hooper, Management and Budget Project Coordinator (410) 386-2082

6332

This project provides ongoing funding for protective coatings to both interior and exterior surfaces, addressing safety concerns, performing ongoing spot maintenance on coatings to protect assets from corrosion, trimming and/or removal of trees around the tank that affect the coating, and general security maintenance upgrades of water storage tanks. The following water tank sites are planned for painting as funds become available:

Bark Hill  
Martz  
Liberty

	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design									0
Land Acquisition									0
Site Work	275,000	300,000	900,000	350,000	400,000	450,000			2,675,000
Construction									0
Equipment/Furnishings									0
Other		22,000			24,000				46,000
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>275,000</b>	<b>322,000</b>	<b>900,000</b>	<b>350,000</b>	<b>424,000</b>	<b>450,000</b>	<b>0</b>	<b>0</b>	<b>2,721,000</b>
<b>PROJECTED OPERATING IMPACTS</b>	0	0	0	0	0	0			0

# Town of Sykesville Streetscape Water and Sewer Upgrades

District Location: 5

Robin Hooper, Management and Budget Project Coordinator (410) 386-2082

6431

This project provides funding to replace the water and sewer infrastructure on Maryland Route 851. This project will coincide with the Town of Sykesville Streetscape project.

	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design	350,000								350,000
Land Acquisition									0
Site Work									0
Construction		3,500,000							3,500,000
Equipment/Furnishings									0
Other		1,400,000							1,400,000
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>350,000</b>	<b>4,900,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5,250,000</b>
<b>PROJECTED OPERATING IMPACTS</b>	0	0	0	0	0	0			0

# Town of Sykesville Water and Sewer Upgrades

District Location: 5

Robin Hooper, Management and Budget Project Coordinator (410) 386-2082

Proj #

This project provides planned funding to rehabilitate or replace the cast iron water mains and clay sanitary sewer lines in the Town of Sykesville. The Bureau of Utilities operates and maintains both the water and sewer lines in the Town, which are between 50 and 90 years old. The aging condition of lines has led to water and sanitary sewer breaks, affecting both businesses and residents. Engineering for the project is expected to start in FY 21 and construction will begin in FY 22 and continue through FY 30.

	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design					900,000				900,000
Land Acquisition									0
Site Work									0
Construction						1,475,000		8,900,000	10,375,000
Equipment/Furnishings									0
Other									0
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>900,000</b>	<b>1,475,000</b>	<b>0</b>	<b>8,900,000</b>	<b>11,275,000</b>
<b>PROJECTED OPERATING IMPACTS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>			<b>0</b>

# Water Main Loops

District Location: 5

Robin Hooper, Management and Budget Project Coordinator (410) 386-2082

6425

This project provides funding to connect various water mains in the Freedom area to provide adequate looping in the Freedom water system. Looping of water mains is the connection of dead ends of two separate water lines. Connecting these lines improves water flow throughout the system, provides for fire flow improvements, and helps maintain and improve water quality.

Projects include:

- Calvert Way and Dale Drive 8" loop (925')
- Kennard Court and Lawrence Court 8" loop (510')
- Sussex Court and Breckenridge Court 8" loop (1,650')
- Brunswick Drive and Woodridge Lane 8" loop (1,050')
- Slacks Road from Quad Lane to Macbeth Way 8" loop (1,150')
- Oklahoma Avenue (Sykesville) from Main Street to Oklahoma Avenue 8" loop (1,300')
- Ronsdale Road to Linton Road 8" loop (1,640')

	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design/Insp.	19,425	11,250	38,200	25,500	59,560	44,000	154,000		351,935
Land Acquisition	38,850	22,500	76,400	51,000	119,120	87,910	16,000		411,780
Site Work									0
Construction	194,250	112,500	382,000	255,300	596,000	439,600	292,000		2,271,650
Equipment/Furnishings									0
Other	48,600	28,000	95,500	63,800	148,900	109,900	27,000		521,700
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>301,125</b>	<b>174,250</b>	<b>592,100</b>	<b>395,600</b>	<b>923,580</b>	<b>681,410</b>	<b>489,000</b>	<b>0</b>	<b>3,557,065</b>
<b>PROJECTED OPERATING IMPACTS</b>	0	0	0	0	0	0			0

# Water Main Valve Replacements

Robin Hooper, Management and Budget Project Coordinator (410) 386-2082

6428

This project provides ongoing funding to replace the County's water line valves and blow-off valves. Water line valves provide ability to shut off lines in the event of water main breaks or new tapings into the system. Blow-off valves allow for waterline flushing to reduce the buildup of sediment and stagnant water. The planned annual allocation will fund approximately 25 valve replacements.

	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design									0
Land Acquisition									0
Site Work									0
Construction	262,500	275,625	289,500	303,900	319,000	335,000			1,785,525
Equipment/Furnishings									0
Other									0
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>262,500</b>	<b>275,625</b>	<b>289,500</b>	<b>303,900</b>	<b>319,000</b>	<b>335,000</b>	<b>0</b>	<b>0</b>	<b>1,785,525</b>
<b>PROJECTED OPERATING IMPACTS</b>	0	0	0	0	0	0			0



# Water Meters

Robin Hooper, Management and Budget Project Coordinator (410) 386-2082

6311

This project provides ongoing funding for the upgrade and replacement of the 10,000 existing meters. The upgrade will include software and hardware equipment that will enable staff to collect meter readings while driving by homes and could also include replacement of the vault and/or conversion from curb stop water house connections to meter vault connections. The conversion to meter vaults would move the meter from inside private houses to a vault located in the County right of way to allow easier maintenance and meter readings. The annual allocation for this project funds the replacement of approximately 1,000 water meters. Additional funding is included in FY 17 to replace 2,000 meters.

	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design									0
Land Acquisition									0
Site Work									0
Construction	897,000	626,000	658,000	690,000	725,000	761,000			4,357,000
Equipment/Furnishings									0
Other									0
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>897,000</b>	<b>626,000</b>	<b>658,000</b>	<b>690,000</b>	<b>725,000</b>	<b>761,000</b>	<b>0</b>	<b>0</b>	<b>4,357,000</b>
<b>PROJECTED OPERATING IMPACTS</b>	0	0	0	0	0	0			0

# Water Service Line Replacement

District Location: 5

Robin Hooper, Management and Budget Project Coordinator (410) 386-2082

6429

This project provides ongoing funding to replace water service lines in the Freedom area of the County. The service lines vary in length, but typically average 50 to 75 feet. The annual allocation for this project funds the replacement of approximately 50-60 water service lines each year.

	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design									0
Land Acquisition									0
Site Work									0
Construction	240,000	246,000	268,000	320,000	335,000	353,000			1,762,000
Equipment/Furnishings									0
Other									0
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>240,000</b>	<b>246,000</b>	<b>268,000</b>	<b>320,000</b>	<b>335,000</b>	<b>353,000</b>	<b>0</b>	<b>0</b>	<b>1,762,000</b>
<b>PROJECTED OPERATING IMPACTS</b>	0	0	0	0	0	0			

# Water/Sewer Studies

Robin Hooper, Management and Budget Project Coordinator (410) 386-2082

6385

This project provides funding for a study of the Freedom water distribution system and of the Freedom and Hampstead sewer collection systems. The studies performed will include asset conditions, expected life, capacity condition, breaches in system, etc. The study will also become a platform for follow-up studies to keep the study up to date for the budgeting and maintenance scheduling.

	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design				100,000			400,000		<b>500,000</b>
Land Acquisition									<b>0</b>
Site Work									<b>0</b>
Construction									<b>0</b>
Equipment/Furnishings									<b>0</b>
Other									<b>0</b>
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>100,000</b>	<b>0</b>	<b>0</b>	<b>400,000</b>	<b>0</b>	<b>500,000</b>
<b>PROJECTED OPERATING IMPACTS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>			<b>0</b>

# Waters Edge Pump Station Rehabilitation

District Location: 5

Robin Hooper, Management and Budget Project Coordinator (410) 386-2082

Proj #

This project provides planned funding to rehabilitate the Waters Edge Pump Station, which was built in 2001, with new pump assembly, roofing, updated electric controls, grinder, paving and fencing.

	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design									0
Land Acquisition									0
Site Work									0
Construction									0
Equipment/Furnishings		230,000							230,000
Other		45,000							45,000
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>0</b>	<b>275,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>275,000</b>
<b>PROJECTED OPERATING IMPACTS</b>	0	0	0	0	0	0			

# West Hampstead Collector Sewer Main Upgrade/Repair

District Location: 2

Robin Hooper, Management and Budget Project Coordinator (410) 386-2082

6426

This project provides funding for the upgrade, repair and/or replacement of the clay sewer main serving Carroll Street, Houcksville Road, Gill Avenue, and Shiloh Road on the west side of the Town of Hampstead. The main was originally constructed in 1968.

	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design							147,600		147,600
Land Acquisition									0
Site Work	73,800								73,800
Construction	1,476,000								1,476,000
Equipment/Furnishings									0
Other	147,600								147,600
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>1,697,400</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>147,600</b>	<b>0</b>	<b>1,845,000</b>
<b>PROJECTED OPERATING IMPACTS</b>	0	0	0	0	0	0			0

# Winfield Pump Station Upgrade

District Location: 5

Robin Hooper, Management and Budget Project Coordinator (410) 386-2082

Proj #

This project provides planned funding to rehabilitate the Winfield Pump Station, built in 1993, with new pumps, control systems, roofing, generator, bypass valving, and paving. This pump station was built by the Board of Education specifically for Winfield Elementary School on Salem Bottom Road.

	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design									0
Land Acquisition									0
Site Work									0
Construction									0
Equipment/Furnishings						186,000			186,000
Other						18,600			18,600
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>204,600</b>	<b>0</b>	<b>0</b>	<b>204,600</b>
<b>PROJECTED OPERATING IMPACTS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>			