

**COMMUNITY INVESTMENT PLAN FOR FISCAL YEARS 2009 TO 2014**

**Adopted**

	Fiscal Year						Prior Allocation	Balance to Complete	Total Project Cost
	2009	2010	2011	2012	2013	2014			
<b>UTILITIES ENTERPRISE:</b>									
Carroll Highlands Pumping Station Renovation	\$165,000	\$55,000	\$110,000	\$0	\$0	\$0	\$71,280	\$0	\$401,280
Freedom Area Groundwater System - Well House	0	0	25,000	188,500	0	0	0	0	213,500
Freedom District Hydrant Replacement	96,000	100,800	105,800	111,100	116,700	122,500	0	0	652,900
Freedom District Hydraulic Looping-Brangles Road	0	0	0	511,100	0	0	0	0	511,100
Freedom District Hydraulic Looping-Dickenson Road	5,000	22,200	0	0	0	0	0	0	27,200
Freedom District Looping-Monroe (Oklahoma to Bennett)	62,300	0	0	0	0	0	12,500	0	74,800
Freedom District-Relief Sewer No. 2	0	110,700	1,200,500	0	0	0	0	0	1,311,200
Freedom Wastewater Treatment Plant Expansion	0	0	0	0	0	165,000	0	6,000,000	6,165,000
Freedom/Hampstead - Water Meters	150,000	157,500	165,400	173,600	182,300	191,400	0	0	1,020,200
Gaither Road 8" Sewer Line	97,000	0	225,000	0	2,678,500	0	0	0	3,000,500
Gaither Road 8" Water Main	0	0	261,200	0	3,989,700	0	0	0	4,250,900
Gravity Sewer Main-Houcksville Rd to Treatment Plant	0	0	0	0	0	135,000	0	1,073,000	1,208,000
Hampstead Facility Paving	0	0	0	0	376,000	0	0	0	376,000
Hampstead Grit Removal System	0	0	0	0	0	49,000	0	324,500	373,500
Hampstead Sludge Dewatering Facility Replacement	0	0	0	165,000	451,000	0	927,000	0	1,543,000
Hampstead Waste Activated Sludge Tank Renovation	670,000	0	0	0	0	0	158,200	0	828,200
Meter Vault Replacement	40,000	42,000	44,100	46,300	48,600	51,000	0	200,000	472,000
North Carroll Farms Pump Station Rehabilitation	0	0	0	0	0	410,000	0	0	410,000
North Pump Station Wet Well & Pump Rehabilitation	0	0	0	0	0	680,000	0	0	680,000
Replace Force & Gravity Sewer Mains at North Station	111,000	26,900	497,400	0	0	0	147,025	0	782,325
Sanitary Sewer Manhole Rehabilitation	150,000	157,500	165,400	173,600	182,300	191,400	0	0	1,020,200
Sanitary Sewer Studies	0	0	0	89,300	0	0	275,000	0	364,300
Snowden's Run Wastewater Pumping Station Rehabilitation	246,000	0	0	0	0	0	352,850	0	598,850
Sykesville Interceptor-Upgrade/Repair Sewer Main	0	0	75,000	0	4,625,000	0	0	0	4,700,000
Tank Painting	47,000	47,000	47,000	47,000	47,000	47,000	0	0	282,000
Water Main Blow-off Replacements	0	0	0	0	0	125,000	0	1,300,000	1,425,000
West Hampstead Collector Sewer Main Upgrade/Repair	0	0	0	0	0	90,000	0	799,000	889,000
<b>UTILITIES ENTERPRISE TOTAL</b>	<b>\$1,839,300</b>	<b>\$719,600</b>	<b>\$2,921,800</b>	<b>\$1,505,500</b>	<b>\$12,697,100</b>	<b>\$2,257,300</b>	<b>\$1,943,855</b>	<b>\$9,696,500</b>	<b>\$33,580,955</b>

**SOURCES OF FUNDING:**

Bonds	\$0	\$0	\$0	\$0	\$0	\$0	\$1,378,093	\$0	\$1,378,093
Enterprise Fund - Utilities	1,307,820	392,640	746,860	925,979	5,981,900	955,300	209,957	3,696,500	14,216,956
Maintenance Fee	205,288	255,846	255,394	68,421	47,000	797,000	9,983	788,436	2,427,368
Area Connection Charges	326,192	71,114	1,919,546	30,000	6,668,200	505,000	345,822	5,211,564	15,077,438
Developer Funded	0	0	0	481,100	0	0	0	0	481,100
<b>UTILITIES ENTERPRISE TOTAL</b>	<b>\$1,839,300</b>	<b>\$719,600</b>	<b>\$2,921,800</b>	<b>\$1,505,500</b>	<b>\$12,697,100</b>	<b>\$2,257,300</b>	<b>\$1,943,855</b>	<b>\$9,696,500</b>	<b>\$33,580,955</b>

# Carroll Highlands Pumping Station Renovation

Freedom Sewer

6407

Larry R. Brown, Senior Budget Analyst (410) 386-2082

This project provides funding for the renovation and modernization of the Carroll Highlands Pumping Station, which was built in 1979. Some of the renovations would consist of upgrading the grinder, existing pumps and motors, piping and valves, electrical systems and controls, replacing the generator, the HVAC, ladders and landings in the wet well, site fencing and gates.

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design									0
Land Acquisition									0
Site Work									0
Construction	150,000	50,000	100,000				71,280		371,280
Equipment/Furnishings									0
Other	15,000	5,000	10,000						30,000

**EXPENDITURES**

<b>TOTAL</b>	<b>165,000</b>	<b>55,000</b>	<b>110,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>71,280</b>	<b>0</b>	<b>401,280</b>
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**SOURCES OF FUNDS**

Transfer from General Fund									0
Bonds									0
Enterprise Fund - Utilities									0
Maintenance Fee	58,608	19,536	52,386				9,983		140,513
Area Connection Charges	106,392	35,464	57,614				61,297		260,767

<b>PROJECTED OPERATING IMPACTS</b>	0	0	0	0	0	0			
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# Freedom Area Groundwater System - Well House

Freedom Water

Proj #

Larry R. Brown, Senior Budget Analyst (410) 386-2082

This project provides funding to reconstruct the well house at the Fairhaven well site. The temporary well house was to be replaced and combined with treatment of groundwater from the Springfield wells. With the development of the Fairhaven and Raincliffe wells, and the ongoing expansion of the Freedom Water Treatment Plant, the need for Springfield well development has diminished, however, this project will move forward by constructing a permanent well house for the Fairhaven well.

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design			25,000	10,000					35,000
Land Acquisition									0
Site Work									0
Construction				170,000					170,000
Equipment/Furnishings									0
Other				8,500					8,500

**EXPENDITURES**

<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>25,000</b>	<b>188,500</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>213,500</b>
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**SOURCES OF FUNDS**

Transfer from General Fund									0
Bonds									0
Enterprise Fund - Utilities			25,000	188,500					213,500
Maintenance Fee									0
Area Connection Charges									0

<b>PROJECTED OPERATING IMPACTS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>			
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# Freedom District Hydrant Replacement

Freedom Water

6359

Larry R. Brown, Senior Budget Analyst (410) 386-2082

This project provides on-going funding to replace the County's 600 hydrants. Some of these hydrants have surpassed the estimated useful life of thirty years. The annual allocation for this project funds the replacement of approximately thirty hydrants. The following list identifies the sites planned for FY 09.

- 4 hydrants - Snowdens Run Road
- 1 hydrants - Carroll Dale Road
- 2 hydrants - Oak View Drive
- 3 hydrants - Emerald Drive
- 3 hydrants - Locust Lane
- 2 hydrants - Hickory Lane
- 10 hydrants - Oak Hill Drive

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design									0
Land Acquisition									0
Site Work									0
Construction									0
Equipment/Furnishings	96,000	100,800	105,800	111,100	116,700	122,500			652,900
Other									0

**EXPENDITURES**

<b>TOTAL</b>	<b>96,000</b>	<b>100,800</b>	<b>105,800</b>	<b>111,100</b>	<b>116,700</b>	<b>122,500</b>	<b>0</b>	<b>0</b>	<b>652,900</b>
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**SOURCES OF FUNDS**

Transfer from General Fund									0
Bonds									0
Enterprise Fund - Utilities	71,190	100,800	105,800	111,100	116,700	122,500			628,090
Maintenance Fee	24,810								24,810
Area Connection Charges									0

<b>PROJECTED OPERATING IMPACTS</b>	0	0	0	0	0	0			0
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# Freedom District Hydraulic Looping-Brangles Road

Freedom Water

6417

Larry R. Brown, Senior Budget Analyst (410) 386-2082

This project provides funding to connect water mains along Brangles Road in the Freedom area to provide adequate looping in the Freedom water system. Looping mains connects dead ends in two water lines. By connecting these lines water flows more evenly throughout the system and maintains a constant water pressure.

Projected operating impacts include: maintenance costs.

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design				64,000					64,000
Land Acquisition									0
Site Work									0
Construction				406,100					406,100
Equipment/Furnishings									0
Other				41,000					41,000

**EXPENDITURES**

<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>511,100</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>511,100</b>
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**SOURCES OF FUNDS**

Bonds									0
Enterprise Fund - Utilities									0
Maintenance Fee									0
Area Connection Charges				30,000					30,000
Developer Funded				481,100					481,100

<b>PROJECTED OPERATING IMPACTS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3,850</b>	<b>4,050</b>			
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# Freedom District Hydraulic Looping-Dickenson Road

Freedom Water

6416

Larry R. Brown, Senior Budget Analyst (410) 386-2082

This project provides funding to connect water mains along Dickenson Road in the Freedom area to provide adequate looping in the Freedom water system. Looping mains connects dead ends in two water lines. By connecting these lines water flows more evenly throughout the system and maintains a constant water pressure. The timing of this project coincides with the planned extension of Dickenson Road.

Projected operating impacts include: maintenance costs.

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design	5,000	3,000							8,000
Land Acquisition									0
Site Work									0
Construction		16,000							16,000
Equipment/Furnishings									0
Other		3,200							3,200
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>5,000</b>	<b>22,200</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>27,200</b>
<b>SOURCES OF FUNDS</b>									
Transfer from General Fund									0
Bonds									0
Enterprise Fund - Utilities									0
Maintenance Fee									0
Area Connection Charges	5,000	22,200							27,200
<b>PROJECTED OPERATING IMPACTS</b>	<b>0</b>	<b>0</b>	<b>250</b>	<b>260</b>	<b>270</b>	<b>280</b>			

# Freedom District Looping-Monroe (Oklahoma to Bennett)

Freedom Water

6409

Larry R. Brown, Senior Budget Analyst (410) 386-2082

This project provides funding to connect water mains along Monroe Avenue (Oklahoma to Bennett) in the Freedom area to provide adequate looping in the Freedom water system. Looping mains connects dead ends in two water lines. By connecting these lines water flows more evenly throughout the system and maintains a constant water pressure. New developments will partially cover the cost of this project.

Projected operating impacts include: maintenance costs.

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design	1,800						12,500		14,300
Land Acquisition									0
Site Work									0
Construction	55,000								55,000
Equipment/Furnishings									0
Other	5,500								5,500
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>62,300</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>12,500</b>	<b>0</b>	<b>74,800</b>
<b>SOURCES OF FUNDS</b>									
Transfer from General Fund									0
Bonds									0
Enterprise Fund - Utilities									0
Maintenance Fee									0
Area Connection Charges	62,300						12,500		74,800
<b>PROJECTED OPERATING IMPACTS</b>	0	500	520	530	550	560			

# Freedom District-Relief Sewer No. 2

## Freedom Sewer

6374

Larry R. Brown, Senior Budget Analyst (410) 386-2082

This project provides planned funding to add a relief sewer by increasing the existing ten-inch main to a fifteen-inch main for 6,750-feet, from Johnsville Road at Bartholow Road south through Parrish Park at Piney Ridge Parkway. The project continues south to ultimately connect to an existing twelve-inch sewer main that parallels MD 32. Enlarging the main would allow for increased flows resulting from expected future development and/or major storm events.

Projected operating impacts include: maintenance costs.

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design		110,700	40,000						<b>150,700</b>
Land Acquisition									<b>0</b>
Site Work									<b>0</b>
Construction			1,055,500						<b>1,055,500</b>
Equipment/Furnishings									<b>0</b>
Other			105,000						<b>105,000</b>
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>0</b>	<b>110,700</b>	<b>1,200,500</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,311,200</b>
<b>SOURCES OF FUNDS</b>									
Transfer from General Fund									<b>0</b>
Bonds									<b>0</b>
Enterprise Fund - Utilities									<b>0</b>
Maintenance Fee		110,700	73,468						<b>184,168</b>
Area Connection Charges			1,127,032						<b>1,127,032</b>
<b>PROJECTED OPERATING IMPACTS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6,000</b>	<b>6,300</b>	<b>6,620</b>			

# Freedom Wastewater Treatment Plant Expansion

Freedom Sewer

6386

Larry R. Brown, Senior Budget Analyst (410) 386-2082

This project provides planned funding to upgrade the Freedom Wastewater Treatment Plant. The plant is currently designed to treat an average daily flow of 3.5 MGD (million gallons per day) and will need to be increased to meet the Department of Planning's projection of average wastewater flows in the Freedom District of 4.2 MGD. The Maryland Environmental Service (MES) operates and manages this facility for the County. MES is currently designing upgrades to the plant that will address the MD Department of the Environment requirements for enhanced nutrient removal. The current daily flows average 2.1 MGD. The plant expansion will not be required to take place until flows are at 80% of the allocated flows. The 80% calculated flow is 2.7MGD.

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design						165,000			165,000
Land Acquisition									0
Site Work									0
Construction								5,500,000	5,500,000
Equipment/Furnishings									0
Other								500,000	500,000
<b>EXPENDITURES</b>									6,165,000
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>165,000</b>	<b>0</b>	<b>6,000,000</b>	<b>6,165,000</b>

<b>SOURCES OF FUNDS</b>									
Transfer from General Fund									0
Bonds									0
Enterprise Fund - Utilities									0
Maintenance Fee								788,436	788,436
Area Connection Charges						165,000		5,211,564	5,376,564

<b>PROJECTED OPERATING IMPACTS</b>									
	0	0	0	0	0	0			0

# Freedom/Hampstead - Water Meters

Larry R. Brown, Senior Budget Analyst (410) 386-2082

6311

This on-going project provides funding for the enhancement and replacement of approximately 9,000 existing meters on an average sixteen-year life cycle. The enhancements will include software and hardware equipment that will enable staff to collect meter readings while driving by homes. The following priority list addresses the oldest meters first.

- 1st group - 283 meters in Hampstead
- 2nd group, Route #55 - 340 meters (Hilltop, Melstone Valley, Flanders and Carpenters Mount subdivisions)
- 3rd group, Route #15 - 302 meters (Clipper Hill and Brimfield subdivisions)
- 4th group, Route #20 - 170 meters (Oakland Mills area)
- 5th group, Route #21 - 128 meters (Oakland Road area)
- 6th group, Route #22 - 160 meters (Mineral Hill Road area)

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design									0
Land Acquisition									0
Site Work									0
Construction									0
Equipment/Furnishings	150,000	157,500	165,400	173,600	182,300	191,400			1,020,200
Other									0
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>150,000</b>	<b>157,500</b>	<b>165,400</b>	<b>173,600</b>	<b>182,300</b>	<b>191,400</b>	<b>0</b>	<b>0</b>	<b>1,020,200</b>

<b>SOURCES OF FUNDS</b>									
Transfer from General Fund									0
Bonds									0
Enterprise Fund - Utilities	75,130	78,890	82,860	152,179	182,300	191,400			762,759
Maintenance Fee	74,870	78,610	82,540	21,421					257,441
Area Connection Charges									0

<b>PROJECTED OPERATING IMPACTS</b>									
	0	0	0	0	0	0			0

# Gaither Road 8" Sewer Line

Freedom Sewer

6369

Larry R. Brown, Senior Budget Analyst (410) 386-2082

This project provides funding for approximately 3.6 miles of eight-inch sewer line along Obrecht Road and down Gaither Road to the County line, then to the existing pumping station of Patapsco Valley. Approximately 275 parcels will be connected to this sewer line along Obrecht and Gaither Roads, and connecting side streets, including Gaither Manor Apartments.

Projected operating impacts include: maintenance costs.

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design	97,000		200,000		77,000				374,000
Land Acquisition			25,000						25,000
Site Work									0
Construction					2,365,000				2,365,000
Equipment/Furnishings									0
Other					236,500				236,500
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>97,000</b>	<b>0</b>	<b>225,000</b>	<b>0</b>	<b>2,678,500</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3,000,500</b>
<b>SOURCES OF FUNDS</b>									
Transfer from General Fund									0
Bonds									0
Enterprise Fund - Utilities									0
Maintenance Fee									0
Area Connection Charges	97,000		225,000		2,678,500				3,000,500
<b>PROJECTED OPERATING IMPACTS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>28,950</b>			

# Gaither Road 8" Water Main

Freedom Water

6365

Larry R. Brown, Senior Budget Analyst (410) 386-2082

This project provides planned funding for approximately 3.6 miles of eight-inch water line to serve existing and planned development along Gaither Road and all side streets. This line would extend from Obrecht Road to the ends of Gaither Road and Patapsco Drive. Approximately 275 parcels will be connected to this water line, including Gaither Manor Apartments.

Projected operating impacts include: maintenance costs.

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design			261,200		77,000				338,200
Land Acquisition									0
Site Work									0
Construction					3,557,000				3,557,000
Equipment/Furnishings									0
Other					355,700				355,700
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>261,200</b>	<b>0</b>	<b>3,989,700</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4,250,900</b>
<b>SOURCES OF FUNDS</b>									
Transfer from General Fund									0
Bonds									0
Enterprise Fund - Utilities									0
Maintenance Fee									0
Area Connection Charges			261,200		3,989,700				4,250,900
<b>PROJECTED OPERATING IMPACTS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>28,950</b>			

# Gravity Sewer Main-Houcksville Rd to Treatment Plant

## Hampstead Sewer

Proj. #

Larry R. Brown, Senior Budget Analyst (410) 386-2082

This project provides planned funding to replace the existing 10-inch gravity sewer main that receives flows from an existing 10-inch force main near Houcksville Road and many house connections through the Roberts Fields subdivision. The gravity main carries flows to the Hampstead treatment plant. At least 50 percent of the main will need to be replaced with a larger sewer main or parallel sewer main. An alternative route along MD 88 and through farm property will also be evaluated. This project will be coordinated with the Hampstead Grit Removal system.

Projected operating impacts include: reduced maintenance costs.

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design						100,000			<b>100,000</b>
Land Acquisition						35,000			<b>35,000</b>
Site Work									<b>0</b>
Construction								975,000	<b>975,000</b>
Equipment/Furnishings									<b>0</b>
Other								98,000	<b>98,000</b>
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>135,000</b>	<b>0</b>	<b>1,073,000</b>	<b>1,208,000</b>
<b>SOURCES OF FUNDS</b>									
Transfer from General Fund									<b>0</b>
Bonds									<b>0</b>
Enterprise Fund - Utilities						135,000		1,073,000	<b>1,208,000</b>
Maintenance Fee									<b>0</b>
Area Connection Charges									<b>0</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>

# Hampstead Facility Paving

Hampstead WWTP

Proj #

Larry R. Brown, Senior Budget Analyst (410) 386-2082

This project provides planned funding for repairing and paving the existing paved surfaces at the Hampstead Treatment Facility. Several major renovation projects have been completed and others are planned for this facility. Once these improvements are completed, this work will restore the paved surfaces.

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design									0
Land Acquisition									0
Site Work									0
Construction					342,000				342,000
Equipment/Furnishings									0
Other					34,000				34,000
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>376,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>376,000</b>
<b>SOURCES OF FUNDS</b>									
Transfer from General Fund									0
Bonds									0
Enterprise Fund - Utilities					376,000				376,000
Maintenance Fee									0
Area Connection Charges									0
<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>

# Hampstead Grit Removal System

Hampstead WWTP

Proj #

Larry R. Brown, Senior Budget Analyst (410) 386-2082

This project provides planned funding to replace the grit removal system that was built in 1984. Reducing the amount of grit in the process stream will decrease wear and tear on the equipment in the plant.

Projected operating impacts include: reduced maintenance costs.

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design						49,000			<b>49,000</b>
Land Acquisition									<b>0</b>
Site Work									<b>0</b>
Construction									<b>0</b>
Equipment/Furnishings								295,000	<b>295,000</b>
Other								29,500	<b>29,500</b>
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>49,000</b>	<b>0</b>	<b>324,500</b>	<b>373,500</b>
<b>SOURCES OF FUNDS</b>									
Transfer from General Fund									<b>0</b>
Bonds									<b>0</b>
Enterprise Fund - Utilities						49,000		324,500	<b>373,500</b>
Maintenance Fee									<b>0</b>
Area Connection Charges									<b>0</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>

# Hampstead Sludge Dewatering Facility Replacement

Hampstead WWTP

6404

Larry R. Brown, Senior Budget Analyst (410) 386-2082

This project provides planned funding for Phase II replacement of the Sludge Dewatering Facility at Hampstead WWTP. Phase I, the design and replacement of the existing press, is funded and underway. Phase II consists of creating an additional sludge storage area and a complete re-evaluation of the existing facility. Currently, the County landfills dewatered sludge. Several alternatives are available to further process sludge to meet Class-B or Class-A biosolids regulations. This additional storage area will create opportunities to handle sludge without landfilling. This project will be evaluated with other landfill projects.

Projected operating impacts include: reduced maintenance costs.

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design				165,000			137,900		302,900
Land Acquisition									0
Site Work									0
Construction					410,000		399,100		809,100
Equipment/Furnishings							300,000		300,000
Other					41,000		90,000		131,000

**EXPENDITURES**

<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>165,000</b>	<b>451,000</b>	<b>0</b>	<b>927,000</b>	<b>0</b>	<b>1,543,000</b>
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**SOURCES OF FUNDS**

Transfer from General Fund									0
Bonds							847,043		847,043
Enterprise Fund - Utilities				165,000	451,000		79,957		695,957
Maintenance Fee									0
Area Connection Charges									0

<b>PROJECTED OPERATING IMPACTS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>			
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# Hampstead Waste Activated Sludge Tank Renovation

Hampstead WWTP

6413

Larry R. Brown, Senior Budget Analyst (410) 386-2082

This project provides funding to renovate tank components for sludge storage and thickening units last upgraded in 1984. The existing concrete tank structures are suitable for continued service but the majority of the tank sludge piping and valves require replacement. Upgrading this process will reduce wear on other process components.

Projected operating impacts include: reduced maintenance costs.

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design							158,200		158,200
Land Acquisition									0
Site Work									0
Construction	609,000								609,000
Equipment/Furnishings									0
Other	61,000								61,000
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>670,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>158,200</b>	<b>0</b>	<b>828,200</b>
<b>SOURCES OF FUNDS</b>									
Transfer from General Fund									0
Bonds							158,200		158,200
Enterprise Fund - Utilities	670,000								670,000
Maintenance Fee									0
Area Connection Charges									0
<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>

# Meter Vault Replacement

Freedom Water

6414

Larry R. Brown, Senior Budget Analyst (410) 386-2082

This project provides funding for the replacement of approximately 1,000 water meter vaults in the Freedom area that were installed in the late 1970s. The new vaults are made of PVC and will replace the old vaults made of bituminous coated cardboard, which are deteriorating.

Replacement areas:

Piney Ridge Village Sections 1 and 2 - 92 vaults

Oklahoma Estates - 201 vaults

Hilltop Estates - 71 vaults

Clipper Hill Estates - 145 vaults

Carrolltowne Estates - 185 vaults

Westchester Estates - 48 vaults

Carroll Dale - 26 vaults

Lexington Run Estates - 124 vaults

Hodges Road - 37 vaults

Norris Ave. - 92 vaults

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design									0
Land Acquisition									0
Site Work									0
Construction	40,000	42,000	44,100	46,300	48,600	51,000		200,000	472,000
Equipment/Furnishings									0
Other									0
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>40,000</b>	<b>42,000</b>	<b>44,100</b>	<b>46,300</b>	<b>48,600</b>	<b>51,000</b>	<b>0</b>	<b>200,000</b>	<b>472,000</b>

<b>SOURCES OF FUNDS</b>									
Transfer from General Fund									0
Bonds									0
Enterprise Fund - Utilities	40,000	42,000	44,100	46,300	48,600	51,000		200,000	472,000
Maintenance Fee									0
Area Connection Charges									0

<b>PROJECTED OPERATING IMPACTS</b>									
	0	0	0	0	0	0			0

# North Carroll Farms Pump Station Rehabilitation

## Hampstead Sewer

Proj. #

Larry R. Brown, Senior Budget Analyst (410) 386-2082

This project provides planned funding to renovate the North Pumping Station with new pumps, upgrade the outdated controls, and increase the wet well size to decrease the number of times the pumps start and stop. Although this station is newer than some of the stations in the system it is in far worse shape than others. Low flow conditions causes production of hydrogen sulfide gas at the base of the pump and deteriorates the case impellored pump castings. Plans are for two new pumps and controls, replace the current generator and upgrade the electrical system. The diesel fuel containment system will be addressed as well. Currently there is no system in place.

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design									0
Land Acquisition									0
Site Work									0
Construction									0
Equipment/Furnishings						410,000			410,000
Other									0

### EXPENDITURES

<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>410,000</b>	<b>0</b>	<b>0</b>	<b>410,000</b>
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### SOURCES OF FUNDS

Transfer from General Fund									0
Bonds									0
Enterprise Fund - Utilities									0
Maintenance Fee						410,000			410,000
Area Connection Charges									0

<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>
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# North Pump Station Wet Well & Pump Rehabilitation

Hampstead Sewer

Proj. #

Larry R. Brown, Senior Budget Analyst (410) 386-2082

This project provides planned funding to renovate the North Pumping Station with new pumps, upgrade the outdated controls, and increase the wet well size to decrease the number of times the pumps start and stop. Increasing the wet well capacity will reduce pump wear and electrical operating costs.

Projected operating impacts include: reduced maintenance costs.

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design									0
Land Acquisition									0
Site Work									0
Construction									0
Equipment/Furnishings						680,000			680,000
Other									0
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>680,000</b>	<b>0</b>	<b>0</b>	<b>680,000</b>
<b>SOURCES OF FUNDS</b>									
Transfer from General Fund									0
Bonds									0
Enterprise Fund - Utilities									0
Maintenance Fee						340,000			340,000
Area Connection Charges						340,000			340,000
<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>

# Replace Force & Gravity Sewer Mains at North Station

Hampstead Sewer

6398

Larry R. Brown, Senior Budget Analyst (410) 386-2082

This project provides funding for a replacement force main (built in 1970) and construction of a new gravity main to meet existing demand and allow for future development near the North Station facility located near the intersection of Maryland Routes 30 and 482. This project replaces the existing six-inch force main installed in 1969 with a new eight-inch force main. The new gravity main will be designed to meet the existing main near Panther Drive.

Projected operating impacts include: reduced maintenance costs.

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design	111,000		25,000						136,000
Land Acquisition		26,900							26,900
Site Work									0
Construction			429,400				147,025		576,425
Equipment/Furnishings									0
Other			43,000						43,000
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>111,000</b>	<b>26,900</b>	<b>497,400</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>147,025</b>	<b>0</b>	<b>782,325</b>
<b>SOURCES OF FUNDS</b>									
Transfer from General Fund									0
Bonds									0
Enterprise Fund - Utilities	55,500	13,450	248,700						317,650
Maintenance Fee									0
Area Connection Charges	55,500	13,450	248,700				147,025		464,675
<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>

# Sanitary Sewer Manhole Rehabilitation

Freedom/Hampstead Sewer

6403

Larry R. Brown, Senior Budget Analyst (410) 386-2082

This on-going project provides funding to rehabilitate the Freedom Area's 3,000 sanitary sewer manholes and Hampstead's 1,000 sanitary sewer manholes. A comprehensive sewer evaluation is underway to assess the condition of the existing manholes and to determine the type of repair that is the most cost effective. The funding for this project will address 25 to 40 manholes annually. Repair strategies include foam injection rehabilitation, and structure rehabilitation. Currently 58 manholes and 7 lamp lines have been replaced or repaired. Of those, 43 were in the Freedom District and 15 were in Hampstead.

Projected operating impacts include: reduced maintenance costs.

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design									0
Land Acquisition									0
Site Work									0
Construction	150,000	157,500	165,400	173,600	182,300	191,400			1,020,200
Equipment/Furnishings									0
Other									0
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>150,000</b>	<b>157,500</b>	<b>165,400</b>	<b>173,600</b>	<b>182,300</b>	<b>191,400</b>	<b>0</b>	<b>0</b>	<b>1,020,200</b>
<b>SOURCES OF FUNDS</b>									
Transfer from General Fund									0
Bonds									0
Enterprise Fund - Utilities	150,000	157,500	165,400	173,600	182,300	191,400			1,020,200
Maintenance Fee									0
Area Connection Charges									0
<b>PROJECTED OPERATING IMPACTS</b>	0	0	0	0	0	0			0

# Sanitary Sewer Studies

Freedom/Hampstead Sewer

6385

Larry R. Brown, Senior Budget Analyst (410) 386-2082

This project provides planned funding for a study of the Freedom and Hampstead sewer collection systems. The study includes suggestions for improvements in technology as well as inspecting and assessing the condition of the sewer mains and laterals.

Video camera inspection priorities are first to inspect as much of the system defined in our CIP's as we can access, then address any current problem areas, and finally perform spot inspections of the remaining lines.

Flow monitoring during the wet time of the year will provide information that can be used in modeling our system and pumping stations, as well as helping to determine needs for modifications to system capacity or efficiency. Information gathered from flow monitoring and temperature monitoring could determine how much of an Inflow & Infiltration (I & I) problem exists.

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design				89,300			275,000		364,300
Land Acquisition									0
Site Work									0
Construction									0
Equipment/Furnishings									0
Other									0
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>89,300</b>	<b>0</b>	<b>0</b>	<b>275,000</b>	<b>0</b>	<b>364,300</b>
<b>SOURCES OF FUNDS</b>									
Transfer from General Fund									0
Bonds							150,000		150,000
Enterprise Fund - Utilities				89,300					89,300
Maintenance Fee									0
Area Connection Charges							125,000		125,000
<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>

# Snowden's Run Wastewater Pumping Station Rehabilitation

Freedom Sewer

6415

Larry R. Brown, Senior Budget Analyst (410) 386-2082

This project provides funding to replace the existing underground pumps currently housed in a metal structure that is badly deteriorated. The new building will be constructed over the existing wet well, and will house the new pumps, as well as associated piping, electrical wiring, and controls. Construction began in FY 08 and will be completed in FY 09. The pumping station is located off Snowden's Run Road, next to Liberty Reservoir.

Projected operating impacts include: reduced maintenance costs.

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design							110,000		<b>110,000</b>
Land Acquisition									<b>0</b>
Site Work									<b>0</b>
Construction	246,000						130,000		<b>376,000</b>
Equipment/Furnishings							112,850		<b>112,850</b>
Other									<b>0</b>
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>246,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>352,850</b>	<b>0</b>	<b>598,850</b>
<b>SOURCES OF FUNDS</b>									
Transfer from General Fund									<b>0</b>
Bonds							222,850		<b>222,850</b>
Enterprise Fund - Utilities	246,000						130,000		<b>376,000</b>
Maintenance Fee									<b>0</b>
Area Connection Charges									<b>0</b>
<b>PROJECTED OPERATING IMPACTS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>			

# Sykesville Interceptor-Upgrade/Repair Sewer Main

Freedom Sewer

Proj #

Larry R. Brown, Senior Budget Analyst (410) 386-2082

This project provides planned funding for the upgrade and repair of the 12-inch sewer main that runs parallel to the railroad tracks and the South Branch Patapsco River, from the Schoolhouse Road area to Main Street in the Town of Sykesville. This project will be coordinated with the Gaither Road sewer line project. Included in the funding in FY 13 is a new pumping station.

Projected operating impacts include: reduced maintenance costs.

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design			75,000						75,000
Land Acquisition									0
Site Work									0
Construction					4,625,000				4,625,000
Equipment/Furnishings									0
Other									0
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>75,000</b>	<b>0</b>	<b>4,625,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4,700,000</b>
<b>SOURCES OF FUNDS</b>									
Transfer from General Fund									0
Bonds									0
Enterprise Fund - Utilities			75,000		4,625,000				4,700,000
Maintenance Fee									0
Area Connection Charges									0
<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>

# Tank Painting

## Freedom Water

6332

Larry R. Brown, Senior Budget Analyst (410) 386-2082

This project provides on-going funding to paint water tanks in the Freedom district. The next tank scheduled for painting is the Bark Hill tank. The County currently has the following tanks in service:

Tank Site	Date Built	Date Repainted
Bartholow Road	1970	2005
Martz Road	1989	
Pleasant Valley	1991	
Bark Hill	1993	
Carroll Industrial Park	1993	
Linton Springs	1998	
Liberty	1999	

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design	10,000	10,000	10,000	10,000	10,000	10,000			60,000
Land Acquisition									0
Site Work	34,000	34,000	34,000	34,000	34,000	34,000			204,000
Construction									0
Equipment/Furnishings									0
Other	3,000	3,000	3,000	3,000	3,000	3,000			18,000
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>47,000</b>	<b>47,000</b>	<b>47,000</b>	<b>47,000</b>	<b>47,000</b>	<b>47,000</b>	<b>0</b>	<b>0</b>	<b>282,000</b>

<b>SOURCES OF FUNDS</b>									
Transfer from General Fund									0
Bonds									0
Enterprise Fund - Utilities	47,000	47,000	47,000	47,000	47,000	47,000			282,000
Maintenance Fee									0
Area Connection Charges									0

<b>PROJECTED OPERATING IMPACTS</b>						
	0	0	0	0	0	0

# Water Main Blow-off Replacements

## Freedom Water

Proj. #

Larry R. Brown, Senior Budget Analyst (410) 386-2082

This project provides planned funding to replace the County's 280 end of water main blow-offs. Blow-off valves allow for the flushing of the water lines. Flushing the lines reduces the buildup of sediment and stagnant water. Some of these blow-offs have surpassed the estimated useful life of thirty years. The annual allocation for this project funds approximately twenty blow-off replacements a year. A more in-depth evaluation will determine a priority list of locations planned for FY 14.

Projected operating impacts include: reduced maintenance costs.

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design									0
Land Acquisition									0
Site Work									0
Construction						125,000		1,300,000	1,425,000
Equipment/Furnishings									0
Other									0
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>125,000</b>	<b>0</b>	<b>1,300,000</b>	<b>1,425,000</b>
<b>SOURCES OF FUNDS</b>									
Transfer from General Fund									0
Bonds									0
Enterprise Fund - Utilities						125,000		1,300,000	1,425,000
Maintenance Fee									0
Area Connection Charges									0
<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>

# West Hampstead Collector Sewer Main Upgrade/Repair

## Hampstead Sewer

Proj. #

Larry R. Brown, Senior Budget Analyst (410) 386-2082

This project provides planned funding for the upgrade, repair, and/or replacement of the clay sewer main serving Carroll Street, Gill Avenue, and Sunset Drive on the west side of the Town of Hampstead. This sewer main, built in 1970, has recently been requiring more maintenance.

Projected operating impacts include: reduced maintenance costs.

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design						90,000			90,000
Land Acquisition									0
Site Work									0
Construction								726,000	726,000
Equipment/Furnishings									0
Other								73,000	73,000
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>90,000</b>	<b>0</b>	<b>799,000</b>	<b>889,000</b>
<b>SOURCES OF FUNDS</b>									
Transfer from General Fund									0
Bonds									0
Enterprise Fund - Utilities						90,000		799,000	889,000
Maintenance Fee									0
Area Connection Charges									0
<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>