

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:									
Freedom District Relief Sewer No.10 (Sykesville Interceptor)	\$525,500	\$2,696,200	\$0	\$0	\$0	\$0	\$405,300	\$0	\$3,627,000
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	60,000	0	0	0	0	0	305,000	0	365,000
Pleasant Valley WWTP Rehabilitation	0	0	0	0	0	825,000	0	0	825,000
Roberts Field Pump Station Rehabilitation	198,000	0	0	0	0	0	0	0	198,000
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
South Carroll WWTP Rehabilitation	0	0	0	0	0	566,500	0	0	566,500
Standby Generator Replacement	133,350	151,000	0	192,000	211,000	39,000	0	0	726,350
Stone Manor Pump Station Rehabilitation	302,500	0	0	0	0	0	0	0	302,500
Tank Painting, Repair and Rehabilitation	275,000	322,000	1,000,000	350,000	424,000	450,000	0	0	2,821,000
Town of Sykesville Streetscape Water and Sewer Upgrades	550,000	0	0	5,145,000	0	0	0	0	5,695,000
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	335,000	352,000	370,000	389,000	408,000	428,000	489,000	800,000	3,571,000
Water Main Valve Replacements	241,500	254,000	266,000	280,000	293,500	308,000	0	0	1,643,000
Water Meters	865,000	590,000	620,000	650,000	683,000	717,000	0	0	4,125,000
Water Service Line Replacement	235,000	246,750	259,000	272,000	285,600	300,000	0	0	1,598,350
Water/Sewer Studies	0	0	0	100,000	0	0	400,000	0	500,000
Waters Edge Pump Station Rehabilitation	0	260,000	0	0	0	0	0	0	260,000
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	181,500	0	0	181,500
UTILITIES ENTERPRISE TOTAL	\$6,191,250	\$5,683,950	\$3,367,100	\$8,274,000	\$4,145,100	\$6,634,550	\$1,746,900	\$9,700,000	\$45,742,850
SOURCES OF FUNDING:									
Transfer from General Fund	\$0	\$0	\$0	\$0	\$50,000	\$748,000	\$0	\$0	\$798,000
Utilities User Fees	5,665,750	2,987,750	3,367,100	3,369,000	3,195,100	4,411,550	1,341,600	800,000	25,137,850
Maintenance Fee	85,255	437,839	0	4,905,000	900,000	1,475,000	65,817	8,900,000	16,768,911
Area Connection Charges	440,245	2,258,361	0	0	0	0	339,483	0	3,038,089
UTILITIES ENTERPRISE TOTAL	\$6,191,250	\$5,683,950	\$3,367,100	\$8,274,000	\$4,145,100	\$6,634,550	\$1,746,900	\$9,700,000	\$45,742,850

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
EXPENDITURES									
TOTAL	118,000	124,000	130,000	137,000	143,000	150,150	0	0	802,150
SOURCES OF FUNDS									
Transfer from General Fund									0
Utilities User Fees	118,000	124,000	130,000	137,000	143,000	150,150			802,150
Maintenance Fee									0
Area Connection Charges									0
PROJECTED OPERATING IMPACTS	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, 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
EXPENDITURES									
TOTAL	0	0	0	0	0	356,400	0	0	356,400
SOURCES OF FUNDS									
Transfer from General Fund									0
Utilities User Fees						356,400			356,400
Maintenance Fee									0
Area Connection Charges									0
PROJECTED OPERATING IMPACTS	0	0	0	0	0	0			

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									0
Land Acquisition									0
Site Work									0
Construction	30,000						305,000		335,000
Equipment/Furnishings									0
Other	30,000								30,000
EXPENDITURES									
TOTAL	60,000	0	0	0	0	0	305,000	0	365,000
SOURCES OF FUNDS									
Transfer from General Fund									0
Utilities User Fees	60,000						305,000		365,000
Maintenance Fee									0
Area Connection Charges									0
PROJECTED OPERATING IMPACTS	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 a 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						750,000			750,000
Equipment/Furnishings									0
Other						75,000			75,000
EXPENDITURES									
TOTAL	0	0	0	0	0	825,000	0	0	825,000
SOURCES OF FUNDS									
Transfer from General Fund									0
Utilities User Fees						825,000			825,000
Maintenance Fee									0
Area Connection Charges									0
PROJECTED OPERATING IMPACTS	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 pipes 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
EXPENDITURES									
TOTAL	433,000	455,000	477,100	501,000	526,000	553,000	0	0	2,945,100
SOURCES OF FUNDS									
Transfer from General Fund									0
Utilities User Fees	433,000	455,000	477,100	501,000	526,000	553,000			2,945,100
Maintenance Fee									0
Area Connection Charges									0
PROJECTED OPERATING IMPACTS	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 floodplain 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
EXPENDITURES									
TOTAL	222,000	233,000	245,000	258,000	271,000	285,000	0	0	1,514,000
SOURCES OF FUNDS									
Transfer from General Fund									0
Utilities User Fees	222,000	233,000	245,000	258,000	271,000	285,000			1,514,000
Maintenance Fee									0
Area Connection Charges									0
PROJECTED OPERATING IMPACTS	0	0	0	0	0	0			

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 in service in 1992. The scope will include replacement of pumps, blowers and a 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						515,000			515,000
Equipment/Furnishings									0
Other						51,500			51,500
EXPENDITURES									
TOTAL	0	0	0	0	0	566,500	0	0	566,500
SOURCES OF FUNDS									
Transfer from General Fund						566,500			566,500
Utilities User Fees									0
Maintenance Fee									0
Area Connection Charges									0
PROJECTED OPERATING IMPACTS	0	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 to continue providing 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		192,000	211,000	39,000			726,350
Other									0
EXPENDITURES									
TOTAL	133,350	151,000	0	192,000	211,000	39,000	0	0	726,350
SOURCES OF FUNDS									
Transfer from General Fund					50,000				50,000
Utilities User Fees	133,350	151,000		192,000	161,000	39,000			676,350
Maintenance Fee									0
Area Connection Charges									0
PROJECTED OPERATING IMPACTS	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	1,000,000	350,000	400,000	450,000			2,775,000
Construction									0
Equipment/Furnishings									0
Other		22,000			24,000				46,000

EXPENDITURES

TOTAL	275,000	322,000	1,000,000	350,000	424,000	450,000	0	0	2,821,000
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SOURCES OF FUNDS

Transfer from General Fund									0
Utilities User Fees	275,000	322,000	1,000,000	350,000	424,000	450,000			2,821,000
Maintenance Fee									0
Area Connection Charges									0

PROJECTED OPERATING IMPACTS	0	0	0	0	0	0			
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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	550,000								550,000
Land Acquisition									0
Site Work									0
Construction				3,675,000					3,675,000
Equipment/Furnishings									0
Other				1,470,000					1,470,000
EXPENDITURES									
TOTAL	550,000	0	0	5,145,000	0	0	0	0	5,695,000
SOURCES OF FUNDS									
Transfer from General Fund									0
Enterprise Fund - Utilities	550,000			240,000					790,000
Maintenance Fee				4,905,000					4,905,000
Area Connection Charges									0
PROJECTED OPERATING IMPACTS	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 with construction to 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
EXPENDITURES									
TOTAL	0	0	0	0	900,000	1,475,000	0	8,900,000	11,275,000
SOURCES OF FUNDS									
Transfer from General Fund									0
Utilities User Fees									0
Maintenance Fee					900,000	1,475,000		8,900,000	11,275,000
Area Connection Charges									0
PROJECTED OPERATING IMPACTS	0	0	0	0	0	0			0

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 end on 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.									0
Land Acquisition									0
Site Work									0
Construction	335,000	352,000	370,000	389,000	408,000	428,000	489,000	800,000	3,571,000
Equipment/Furnishings									0
Other									0
EXPENDITURES									

TOTAL	335,000	352,000	370,000	389,000	408,000	428,000	489,000	800,000	3,571,000
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SOURCES OF FUNDS									
Transfer from General Fund									0
Utilities User Fees	335,000	352,000	370,000	389,000	408,000	428,000	489,000	800,000	3,571,000
Maintenance Fee									0
Area Connection Charges									0

PROJECTED OPERATING IMPACTS									
	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 are needed to shut off lines in the event of water main breaks or new tapplings 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 40 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	241,500	254,000	266,000	280,000	293,500	308,000			1,643,000
Equipment/Furnishings									0
Other									0
EXPENDITURES									
TOTAL	241,500	254,000	266,000	280,000	293,500	308,000	0	0	1,643,000
SOURCES OF FUNDS									
Transfer from General Fund									0
Utilities User Fees	241,500	254,000	266,000	280,000	293,500	308,000			1,643,000
Maintenance Fee									0
Area Connection Charges									0
PROJECTED OPERATING IMPACTS	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-type water house connections to meter vault-type 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.

	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	865,000	590,000	620,000	650,000	683,000	717,000			4,125,000
Equipment/Furnishings									0
Other									0
EXPENDITURES									
TOTAL	865,000	590,000	620,000	650,000	683,000	717,000	0	0	4,125,000
SOURCES OF FUNDS									
Transfer from General Fund									0
Utilities User Fees	865,000	590,000	620,000	650,000	683,000	717,000			4,125,000
Maintenance Fee									0
Area Connection Charges									0
PROJECTED OPERATING IMPACTS	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	235,000	246,750	259,000	272,000	285,600	300,000			1,598,350
Equipment/Furnishings									0
Other									0
EXPENDITURES									
TOTAL	235,000	246,750	259,000	272,000	285,600	300,000	0	0	1,598,350
SOURCES OF FUNDS									
Transfer from General Fund									0
Utilities User Fees	235,000	246,750	259,000	272,000	285,600	300,000			1,598,350
Maintenance Fee									0
Area Connection Charges									0
PROJECTED OPERATING IMPACTS	0	0	0	0	0	0			

Water/Sewer Studies

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

6385

This project provides planned 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 conditions, 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		500,000
Land Acquisition									0
Site Work									0
Construction									0
Equipment/Furnishings									0
Other									0
EXPENDITURES									
TOTAL	0	0	0	100,000	0	0	400,000	0	500,000
SOURCES OF FUNDS									
Transfer from General Fund									0
Local Income Tax									0
Utilities User Fees				100,000			400,000		500,000
Maintenance Fee									0
PROJECTED OPERATING IMPACTS	0	0	0	0	0	0			

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		235,000							235,000
Other		25,000							25,000
EXPENDITURES									
TOTAL	0	260,000	0	0	0	0	0	0	260,000
SOURCES OF FUNDS									
Transfer from General Fund									0
Utilities User Fees		260,000							260,000
Maintenance Fee									0
Area Connection Charges									0
PROJECTED OPERATING IMPACTS	0	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
EXPENDITURES									
TOTAL	1,697,400	0	0	0	0	0	147,600	0	1,845,000
SOURCES OF FUNDS									
Transfer from General Fund									0
Utilities User Fees	1,697,400						147,600		1,845,000
Maintenance Fee									0
Area Connection Charges									0
PROJECTED OPERATING IMPACTS	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, which was 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						165,000			165,000
Other						16,500			16,500
EXPENDITURES									
TOTAL	0	0	0	0	0	181,500	0	0	181,500
SOURCES OF FUNDS									
Transfer from General Fund						181,500			181,500
Utilities User Fees									0
Maintenance Fee									0
Area Connection Charges									0
PROJECTED OPERATING IMPACTS	0	0	0	0	0	0			