**APPLICANT: MIAMI-DADE WATER & SEWER DEPARTMENT** 

DATE: February, 2007 ALTERNATIVE: A (75%)

This form provides for complete evaluation of costs to be incurred and revenues generated by the wastewater management system. This form is to be completed for each alternative and sub-alternative evaluated.

# A. Household Median Annual Income, Average Household Size, Number in the Service Area, and Population to be Served.

Population to be served is determined by the number of households multiplied by the household size. This data should be consistent with local comprehensive plan projections.

		Year 1	Year 5	Year 10	Year 15	Year 19 *
1.	Enter calendar year that corresponds Years 1, 5, 10, 15, and 20 of the analysis	2007	2011	2016	2021	2025
2.	Median household Income (\$ / year)	NA	NA	NA	NA	NA
3.	Average household size (people / household)	3.90	3.90	3.90	3.90	3.90
4.	Number of households served by the sewerage system	560,565	596,302	640,749	678,688	709,040
5.	Serviced population (people) Multiply Line 3 by Line 4)	2,183,996	2,323,232	2,496,399	2,644,213	2,762,465
6.	Total public access reuse **		14.95 MGD	32.81 MGD	51.89 MGD	63.29 MGD

<sup>\*</sup> Year 20 not available

<sup>\*\*</sup> Total number of homes served by reclaimed water not available

APPLICANT: MIAMI-DADE WATER & SEWER DEPARTMENT DATE: February, 2007
ALTERNATIVE: A (75%)

#### B. Capital Construction Costs and Amounts to be Financed

In this block list all capital construction costs to be incurred by the wastewater system/utility. This should correspond directly to the costs included in the net present value analysis as described in another section of this document. List anticipated grants and other front-end sources of funds (property tax revenues, prepaid connection fees and betterment assessments, local funds/reserves available for the project, etc.) to be used to reduce the amount to be borrowed.

#### Dollars shown in 000's

Dollars Si	Year	Project Description	C	otal Capital onstruction Costs (\$)	a	pated Grants nd other end Funds (\$)	Describe sources of grants and other front-end funds	cos	al Construction sts (\$) to be Financed
1.	2006	Pilot Study - Phase I	\$	725				\$	725
2.	2011	Pilot Study - Phase II		42,775		20,000	Will seek State and Federal assistance		22,775
3.	2011	North District Treatment Upgrades, Transmission, Pumping & Storage		20,602			r ederal assistance		20,602
4.	2011	South District Transmission, Pumping & Storage, RITs		377,526					377,526
5.	2016	North District Treatment Upgrades, Transmission, Pumping & Storage		340,065					340,065
6.	2016	Central District Treatment Upgrades, Transmission, Pumping & Storage		115,715					115,715
7.	2016	South District Treatment Upgrades, Transmission, Pumping & Storage, RITs		463,787					463,787
8.	2021	North District Treatment Upgrades, Transmission, Pumping & Storage		308,262					308,262
9.	2021	Central District Treatment Upgrades, Transmission, Pumping & Storage, RITs		697,580					697,580
10	. 2026	Central District, Transmission, Pumping & Storage, RITs		366,029					366,029
11.	. 2026	South District Treatment Upgrades, Transmission, Pumping & Storage		116,116					116,116
12	2026	Replacement of fully depreciated components installed above		180,487					180,487
Su	b-Total		\$	3,029,671	\$	20,000		\$	3,009,671
13.	2006	Capital Cost Baseline		0					-
14.	. 2011	Capital Cost Baseline		704,809					704,809
15	2016	Capital Cost Baseline		1,083,955					1,083,955
16	. 2021	Capital Cost Baseline		126,526					126,526
17.	2026	Capital Cost Baseline		406,885					406,885
Su	b-Total	Capital Cost Baseline	\$	2,322,175	\$			\$	2,322,175
То	tal		\$	5,351,846	\$	20,000		\$	5,331,846

APPLICANT: MIAMI-DADE WATER & SEWER DEPARTMENT DATE: February, 2007
ALTERNATIVE: A (75%)

## C. Financing of Capital Construction Costs

In this block, indicate what type of financing will be used (revenue bonds, general obligation bonds, etc.) Lines in this table should correspond to the lines in Block B and the costs to be financed are to agree with information in Block B. The interest rate and term (bonding period or loan period) should reflect the type of financing to be used.

llars sho	own in 000	's		Capital		Finan	cing		
			COS	onstruction sts (\$) to be		Annual Interest			nual Debt
	Year	Description	ı	Financed	Type	Rate (%)	Term (yrs)	Ser	vice (\$/yr)
1.	2006 Pi	ilot Study - Phase I	\$	725	Revenue Bonds	4.50%	30	\$	45
2.	2011 Pi	ilot Study - Phase II		22,775	Revenue Bonds	4.50%	30		1,398
3.		orth District Treatment Upgrades, ansmission, Pumping & Storage		20,602	Revenue Bonds	4.50%	30		1,265
4.		outh District Transmission, Pumping Storage, RITs		377,526	Revenue Bonds	4.50%	30		23,177
5.		orth District Treatment Upgrades, ansmission, Pumping & Storage		340,065	Revenue Bonds	4.50%	30		20,877
6.		entral District Treatment Upgrades, ansmission, Pumping & Storage		115,715	Revenue Bonds	4.50%	30		7,104
7.		outh District Treatment Upgrades, ansmission, Pumping & Storage, Ts		463,787	Revenue Bonds	4.50%	30		28,473
8.		orth District Treatment Upgrades, ansmission, Pumping & Storage		308,262	Revenue Bonds	4.50%	30		18,925
9.		entral District Treatment Upgrades, ansmission, Pumping & Storage, Ts		697,580	Revenue Bonds	4.50%	30		42,826
10.		entral District, Transmission, Imping & Storage, RITs		366,029	Revenue Bonds	4.50%	30		22,471
11.		outh District Treatment Upgrades, ansmission, Pumping & Storage		116,116	Revenue Bonds	4.50%	30		7,129
12.		eplacement of fully depreciated mponents installed above		180,487	Revenue Bonds	4.50%	30		11,080
Sub-	Total		\$	3,009,671				\$	184,768
13.	2006 Ca	apital Cost Baseline		-		-	-		-
14.	2011 Ca	apital Cost Baseline		704,809	Revenue Bonds	4.50%	30		43,269
15.	2016 Ca	apital Cost Baseline		1,083,955	Revenue Bonds	4.50%	30		66,546
16.	2021 Ca	apital Cost Baseline		126,526	Revenue Bonds	4.50%	30		7,768
17.	2026 Ca	apital Cost Baseline		406,885	Revenue Bonds	4.50%	30		24,979
Sub-		apital Cost Baseline	\$	2,322,175				\$	142,561
Tota			\$	5,331,846				\$	327,329
			<u> </u>	.,,					,,

APPLICANT: MIAMI-DADE WATER & SEWER DEPARTMENT DATE: February, 2007
ALTERNATIVE: A (75%)

#### D. Debt Service Schedule

The annual debt service shown in Block C should be distributed across the 20-year planning period. Lines in this table should correspond to lines in Block B and C. Be sure to show the debt service for each project (from Block c) only in the appropriate years. For example, facilities to be constructed in Year 12 of the analysis and financed over 20 years, would have the debt service would be shown only for years 15 and 20.

Dollars shown in 000's	Debt Service (\$/yr)										
Description	,	Year 1		Year 5	١	ear 10		Year 15	,	Year 20	
Pilot Study - Phase I	\$	45	\$	45	\$	45	\$	45	\$	45	
2. Pilot Study - Phase II				1,398		1,398		1,398		1,398	
North District Treatment Upgrades, 3. Transmission, Pumping & Storage				1,265		1,265		1,265		1,265	
South District Transmission, Pumping 4. & Storage, RITs				23,177		23,177		23,177		23,177	
North District Treatment Upgrades, 5. Transmission, Pumping & Storage						20,877		20,877		20,877	
Central District Treatment Upgrades, 6. Transmission, Pumping & Storage						7,104		7,104		7,104	
South District Treatment Upgrades, Transmission, Pumping & Storage, 7. RITs						28,473		28,473		28,473	
North District Treatment Upgrades, 8. Transmission, Pumping & Storage								18,925		18,925	
Central District Treatment Upgrades, Transmission, Pumping & Storage, 9. RITs								42,826		42,826	
Central District, Transmission, 10. Pumping & Storage, RITs										22,471	
South District Treatment Upgrades, 11. Transmission, Pumping & Storage										7,129	
Replacement of fully depreciated 12. components installed above										11,080	
Sub-Total	\$	45	\$	25,884	\$	82,338	\$	144,088	\$	184,768	
13. 2006 Capital Cost Baseline											
14. 2011 Capital Cost Baseline				43,269		43,269		43,269		43,269	
15. 2016 Capital Cost Baseline						66,546		66,546		66,546	
16. 2021 Capital Cost Baseline								7,768		7,768	
17. 2026 Capital Cost Baseline										24,979	
Sub-Total - Baseline	\$		\$	43,269	\$	109,815	\$	117,583	\$	142,561	
Total	\$	45	\$	69,154	\$	192,153	\$	261,671	\$	327,329	

APPLICANT: MIAMI-DADE WATER & SEWER DEPARTMENT

DATE: February, 2007 ALTERNATIVE: A (75%)

## E. Other Anticipated Debt which will be Repaid from Operations of the Wastewater System/Utility.

Please show the debt service associated with other anticipated debt only in appropriate years (those within the term of the loan or bond issue).

Dollar	s shown in 000's	Annual Debt Service (\$/yr)							
	Description	Debt Amount (\$)	Annual Interest Rate (%)	Year 1	Year 5	Year 1	10 Year 15	Year 20	
	1. not included								
	2.								
	3.								
	4.								
	5.								
	6.								
	Totals			\$ -	\$	- \$	- \$ -	\$ -	
F.	Existing Debt for the Wastewater System/	'Utility							
	Please show the debt service associated with	h outstanding Loans o	r bond issues or	nly in appropriate yea	rs (those within th	e term of the loan or b	oond issue).		
Dollar	s shown in 000's					Annual Debt Ser	rico (f.hr.)		
		Current	Annual	-		Allitual Debt Sei	vice (\$/yi)		
	Description	Current Debt Amount (\$)	Annual Interest Rate (%)	Year 1	Year 5			Year 20	
	Description  1. Various (for 2006 from FY 2005 - 2006 B	Debt Amount (\$)	Interest	Year 1 \$ 87,052		Year 1		Year 20 \$ 87,052	
	·	Debt Amount (\$)	Interest			Year 1	10 Year 15		
	1. Various (for 2006 from FY 2005 - 2006 E	Debt Amount (\$)	Interest			Year 1	10 Year 15		
	1. Various (for 2006 from FY 2005 - 2006 E 2.	Debt Amount (\$)	Interest			Year 1	10 Year 15		
	<ol> <li>Various (for 2006 from FY 2005 - 2006 E</li> <li>3.</li> </ol>	Debt Amount (\$)	Interest			Year 1	10 Year 15		
	1. Various (for 2006 from FY 2005 - 2006 E 2. 3.	Debt Amount (\$)	Interest			Year 1	10 Year 15		

**APPLICANT: MIAMI-DADE WATER & SEWER DEPARTMENT** 

DATE: February, 2007 ALTERNATIVE: A (75%)

## G. Annual Expenses for the Wastewater System/Utility

Please enter annual expenses for operation and maintenance, depreciation and amortization, and taxes (other than income). Do not include debt service or expenses that are reported elsewhere in Blocks, D, E, F, and H.

## Dollars shown in 000's

## 1. Existing facilities \*

	Expenses (\$/yr)												
Expense Category		Year 1		Year 5		Year 10		Year 15	Year 20				
Operating and Maintenance	\$	157,068	\$	157,068	\$	157,068	\$	157,068	\$	157,068			
Depreciation and Amortization		98,002		98,002		98,002		98,002		98,002			
Taxes Other Than Income		0		0		0		0		0			
Totals	\$	255,070	\$	255,070	\$	255,070	\$	255,070	\$	255,070			

<sup>\*</sup> Existing facility information shown from FY 2005 - 2006 Budget

#### 2. Proposed facilities associated with this alternative

	Expenses (\$/yr)												
Expense Category	Year 1			Year 5		Year 10		Year 15		Year 20			
Operating and Maintenance	\$	54	\$	35,153	\$	114,624	\$	208,767	\$	255,364			
Depreciation and Amortization		34		19,022		60,169		106,850		129,498			
Taxes Other Than Income		0		0		0		0		0			
Totals	\$	88	\$	54,175	\$	174,793	\$	315,617	\$	384,862			

## 2a. Proposed facilities associated with the baseline

	Expenses (\$/yr)											
Expense Category	Y	Year 1		Year 5		Year 10		Year 15		Year 20		
Operating and Maintenance	\$	438	\$	37,355	\$	94,805	\$	99,256	\$	103,708		
Depreciation and Amortization		514		33,093		80,601		83,981		87,361		
Taxes Other Than Income		0		0		0		0		0		
Totals	\$	952	\$	70,448	\$	175,406	\$	183,237	\$	191,069		

# 3. All existing and planned facilities (Total of 1 and 2's above)

	Expenses (\$/yr)											
Expense Category	Year 1		Year 5		Year 10		Year 15			Year 20		
Operating and Maintenance	\$	157,560	\$	229,576	\$	366,497	\$	465,091	\$	516,140		
Depreciation and Amortization		98,550		150,117		238,772		288,833		314,861		
Taxes Other Than Income		-		-		-		-		-		
Totals	\$	256,110	\$	379,693	\$	605,269	\$	753,924	\$	831,001		

## H. Other Expenses

Please list and describe any other expenses to be incurred by the wastewater system/utility during this 20-year period.

## Dollars shown in 000's

December 1		Expenses (\$/yr)           Year 1         Year 5         Year 10         Year 15         Year 20											
Description	Year 1		Year 5		Year 10		Year 15			Year 20			
All other expenses (income) from FY 2005 - 2006 Budget	\$	(10,558)	\$	(10,558)	\$	(10,558)	\$	(10,558)	\$	(10,558)			
Totals	\$	(10,558)	\$	(10,558)	\$	(10,558)	\$	(10,558)	\$	(10,558)			

Guidelines for Preparation of Reuse Feasibility Studies for Applicants having Responsibility for Wastewater Management Florida Department of Environmental Regulation, November 1991

**APPLICANT: MIAMI-DADE WATER & SEWER DEPARTMENT** 

DATE: February, 2007 ALTERNATIVE: A (75%)

## I. Total Expenses

Total expenses shown in Blocks D, E, F, G, and H - excludes depreciation

Dollars shown in 000's		Expenses (\$/yr)									
		Year 1		Year 5		Year 10		Year 15		Year 20	
Total Expenses	\$	234,098	\$	375,224	\$	635,145	\$	803,256	\$	919,964	

## J. Reclaimed Water Connection Fees

Include in this block connection fees or impact fees to be obtained as major users and residential customers are added to the reclaimed water system. Do not include contributions from major users that were previously used to offset capital construction costs.

#### Dollars shown in 000's

	Description	Y	ear 1	Year 5	 Year 10	 Year 15	 Year 20
1.	Number of new residential connections (gpd/ yr)		0	4,510,000	0	1,030,000	0
2.	Residential connection / impact fees (\$/gpd)	\$	1.00	\$ 1.00	\$ 1.00	\$ 1.00	\$ 1.00
3.	Revenue from residential connections (\$/yr) [multiply Line 1 by Line 2]	\$	-	\$ 4,510	\$ -	\$ 1,030	\$ -
4.	Number of new major users (gpd/yr)			5,880,000	1,500,000	0	0
5.	Revenues from connection fees from major users (\$/yr)			\$ 5,880	\$ 1,500	\$ -	\$ -
6.	Average major user connection fees (\$/connection) [divide Line 5 by Line 4]			\$ 1.00	\$ 1.00	n/a	n/a
7.	Total revenues from connection fees (\$/yr) [add Line 3 and Line 5]	\$	-	\$ 10,390	\$ 1,500	\$ 1,030	\$ -

APPLICANT: MIAMI-DADE WATER & SEWER DEPARTMENT

DATE: February, 2007 ALTERNATIVE: A (75%)

# K. Revenues From Sale of Reclaimed Water

Included are anticipated revenues from the sale of reclaimed water in this block. Estimates should be realistic and conservative.

# Dollars shown in 000's

	Description	Υ	ear 1	Year 5	Year 10	Year 15	Year 20
1.	Sales to major users (1,000 gal/yr)		0	3,766,800	10,486,450	15,749,750	15,768,000
2.	Revenue from sales to major users (\$/yr)	\$	-	\$ 2,551	\$ 4,833	\$ 6,149	\$ 6,154
3.	Average sale price to major users (\$/1,000 gal) [divide Line 2 by Line 1]			\$ 0.68	\$ 0.46	\$ 0.39	\$ 0.39
4.	Sales to residential customers (1,000 gal/yr)		0	1,646,150	1,719,150	2,095,100	2,095,100
5.	Revenue from sale to residential customers (\$/yr)	\$	-	\$ 1,646	\$ 1,719	\$ 2,095	\$ 2,095
6.	Average price for residential service (\$/1,000 gal) [divide Line 5 by Line 4]			\$ 1.00	\$ 1.00	\$ 1.00	\$ 1.00
7.	Total revenues from sale of reclaimed water (\$/yr) [add Line 2 and Line 5]	\$	-	\$ 4,197	\$ 6,552	\$ 8,244	\$ 8,249

APPLICANT: MIAMI-DADE WATER & SEWER DEPARTMENT

DATE: February, 2007 ALTERNATIVE: A (75%)

# L. Wastewater Connection Fees

Include connection fees, impact fees, and related one-time assessments associated with provision of wastewater management services

# Dollars shown in 000's

	Description	Y	ear 1	Year 5	Y	'ear 10	Y	'ear 15	Y	ear 20
1.	Total connection/impact fees for non-residential customers to be collected (\$/yr)									
2.	Number of new non-residential connections (connections/yr)									
3.	Average connection/impact fees for non- residential customers (\$/connection) [divide Line 1 by Line 2]									
4.	Number of new residential connections (connections/yr)									
5.	Residential connection/impact fees (\$/connection)									
6.	Residential connection fees collected (\$/yr) [multiply Line 4 by Line 5]	\$	-	\$ -	\$	-	\$	-	\$	-
7.	Total revenues from connection fees [add Line 1 and Line 6] * * "Capital Contributions" from FY 2005 - 2006	\$ Budget	24,657	\$ 30,000	\$	30,000	\$	30,000	\$	30,000

**APPLICANT: MIAMI-DADE WATER & SEWER DEPARTMENT** 

DATE: February, 2007 ALTERNATIVE: A (75%)

# M. Wastewater User Fees Dollars shown in 000's

	Description		Year 1	Year 5	Year 10		Year 15	Year 20
1.	Revenue from wastewater user/service charges for non-residential customers (\$/yr)							
2.	Wastewater from non-residential customers that is treated (1,000 gal/yr)	I	not available	not available	not available	ı	not available	not available
3.	Average user charge for non-residential customers (\$/1,000 gal) [divide Line 1 by Line 2]							
4.	Number of households served [must agree with Line 4 Block A]		560,565	596,302	640,749		678,688	709,040
5.	Revenue from residential user/service charges (\$/yr)	ļ	not available	not available	not available	I	not available	not available
6.	Average monthly residential user/service charge (\$/month/household) [divide line 5 by Line 4 by 12]		23.24	23.24	23.24		23.24	23.24
7.	Total revenues from wastewater user/service charges (\$/yr) [add Line 1 and Line 5] * *"Revenues" From FY 2005 - 2006 Budget	\$	230,343	\$ 230,343	\$ 230,343	\$	230,343	\$ 230,343

**APPLICANT: MIAMI-DADE WATER & SEWER DEPARTMENT** 

DATE: February, 2007 ALTERNATIVE: A (75%)

#### N. Other Revenues

Please list other sources of revenues anticipated to be received by the wastewater system/utility

## Dollars shown in 000's

			Other Revenue (\$/yr)		
Description	Year 1	Year 5	Year 10	Year 15	Year 20
1.					
2.					
3.					
Totals	<u> </u>	\$ -	\$ -	\$ -	\$ -

## O Total Revenues

Please add the totals from Blocks J, K, L, M, and N to obtain total revenue to be received by the system.

## Dollars shown in 000's

Description		Year 1	Year 5	 Year 10	Year 15	Y	ear 20
Total Revenue (\$/yr)	\$	255,000	\$ 274,930	\$ 268,395	\$ 269,617	\$	268,592

# P. Total Surplus or Deficit

The total costs shown in Block I are to be subtracted from the total revenues shown in Block O. The results for Years 1, 2, 10, 15, and 20 should be entered on line 1 if a surplus is indicated (revenues exceed expenses) or on line 2 if a deficit is indicated (expenses exceed revenues).

## Dollars shown in 000's

	Description	Ye	ear 1	Y	Year 5		Year 10		Year 15	Year 20	
1.	Surplus (\$/yr)	\$	20,902								
2.	Deficit (\$/yr)			\$	(100,294)	\$	(366,750)	\$	(533,639)	\$	(651,372)

APPLICANT: MIAMI-DADE WATER & SEWER DEPARTMENT DATE: February, 2007

ALTERNATIVE: A (75%)

# Q. Existing Fees and Charges

Please identify existing fees and charges for connection and sale of reclaimed water, as well as user charges for wastewater services.

# 1. Wastewater user charges

- a. Residential user charge\$ 23.24 /month/household
- b. Average residential connection fee \$ none
- c. Average residential impact fee \$ 5.60 / gpd
- d. Average user charge for non-residential customers \$ 3.79 / 1,000 gallons
- e. Non-residential customers connection/impact fees \$ 5.60 / gpd

## 2. Sale of reclaimed water

- a. Residential users \$ n/a /month/household or \$ n/a / 1,000 gallons
- b. Initial connection fees for residential users \$\_\_n/a\_\_
- c. User charges for non-residential customers \$\_\_.18\_\_/ 1,000 gallons
- d. Connection fees for non-residential customers \$ n/a

APPLICANT: MIAMI-DADE WATER & SEWER DEPARTMENT

DATE: February, 2007 ALTERNATIVE: A (75%)

# R. Summary of proposed fees and charges

1. V			 ear 1	Y	'ear 5	Y	ear 10	Year 15		Year 20	
1.	Wa	astewater user charges	 _						_		
	a.	Residential user charge (\$ /month/household) [from Line 6 Block M]	\$ 23.24	\$	23.24	\$	23.24	\$	23.24	\$	23.24
	b.	Average residential connection/impact fees (\$) [from Line 5 Block L]	\$ -	\$	-	\$	-	\$	-	\$	-
	C.	Average user charge for non-residential customers (\$/1,000 gallons) [from Line 3 Block M]]	\$ -	\$	-	\$	-	\$	-	\$	-
	d.	Non-residential customers connection/impact fees (\$) [ from Line 3 Block L]	\$ -	\$	-	\$	-	\$	-	\$	-
2.	Sa	le of reclaimed water	 ⁄ear 1		ear 5		ear 10		ear 15		ear 20
			 Cai i		Cai J		cai iu		cai is		Cai 20
	a.	Residential user charge (\$ /1,000 gallons) [from Line 6 Block K]	\$ -	\$	1.00	\$	1.00	\$	1.00	\$	1.00
	b.	Initial connection fees for residential users (\$) [from Line 2 Block J]	\$ 1.00	\$	1.00	\$	1.00	\$	1.00	\$	1.00
	C.	User charges for non-residential customers (\$ / 1,000 gallons) [from Line 3 Block K]	\$ -	\$	0.68	\$	0.46	\$	0.39	\$	0.39
	d.	Connection fees for non-residential customers (\$) [from Line 6 Block J]	0	\$	1.00	\$	1.00		n/a		n/a

**APPLICANT: MIAMI-DADE WATER & SEWER DEPARTMENT** 

DATE: February, 2007 ALTERNATIVE: B (50%)

This form provides for complete evaluation of costs to be incurred and revenues generated by the wastewater management system. This form is to be completed for each alternative and sub-alternative evaluated.

# A. Household Median Annual Income, Average Household Size, Number in the Service Area, and Population to be Served.

Population to be served is determined by the number of households multiplied by the household size. This data should be consistent with local comprehensive plan projections.

		Year 1	Year 5	Year 10	Year 15	Year 19 *
1.	Enter calendar year that corresponds Years 1, 5, 10, 15, and 20 of the analysis	2007	2011	2016	2021	2025
2.	Median household Income (\$ / year)	NA	NA	NA	NA	NA
3.	Average household size (people / household)	3.90	3.90	3.90	3.90	3.90
4.	Number of households served by the sewerage system	560,565	596,302	640,749	678,688	709,040
5.	Serviced population (people) Multiply Line 3 by Line 4)	2,183,996	2,323,232	2,496,399	2,644,213	2,762,465
6.	Total public access reuse **		14.85	30.52	40.73	50.36

<sup>\*</sup> Year 20 not available

<sup>\*\*</sup> Total number of homes served by reclaimed water not available

APPLICANT: MIAMI-DADE WATER & SEWER DEPARTMENT

DATE: February, 2007 ALTERNATIVE: B (50%)

## B. Capital Construction Costs and Amounts to be Financed

In this block list all capital construction costs to be incurred by the wastewater system/utility. This should correspond directly to the costs included in the net present value analysis as described in another section of this document. List anticipated grants and other front-end sources of funds (property tax revenues, prepaid connection fees and betterment assessments, local funds/reserves available for the project, etc.) to be used to reduce the amount to be borrowed.

#### Dollars shown in 000's

Jone	irs sno	wn in ooo s	•							
		Year	Project Description	Co	onstruction Costs (\$)	Anticipate and o Front-end I	ther	Describe sources of grants and other front-end funds	cost	Construction s (\$) to be inanced
	1.	2006 Pilo	ot Study - Phase I	\$	725				\$	725
	2.	2011 Pilo	ot Study - Phase II		42,775		20,000	Will seek State and Federal assistance		22,775
	3.		th District Treatment Upgrades, nsmission, Pumping & Storage		10,004					10,004
	4.	Sou 2011 Stor	uth District Transmission, Pumping & rage, RITs		95,576					95,576
	5.		th District Treatment Upgrades, namission, Pumping & Storage		41,507					41,507
	6.		ntral District Treatment Upgrades, nsmission, Pumping & Storage		209,337					209,337
	7.		uth District Treatment Upgrades, nsmission, Pumping & Storage, RITs		559,883					559,883
	8.		ntral District Treatment Upgrades, nsmission, Pumping & Storage, RITs		656,286					656,286
	9.		ntral District Treatment Upgrades, nsmission, Pumping & Storage, RITs		267,886					267,886
	10.		placement of fully depreciated aponents installed above		30,652					30,652
	Sub-	Total		\$	1,914,631	\$	20,000		\$	1,894,631
	11.	2006 Cap	ital Cost Baseline		0					-
	12.	2011 Cap	ital Cost Baseline		704,809					704,809
	13.	2016 Cap	ital Cost Baseline		1,083,955					1,083,955
	14.	2021 Cap	ital Cost Baseline		126,526					126,526
	15.	2026 Cap	ital Cost Baseline		406,885					406,885
	Sub-	Total Cap	ital Cost Baseline	\$	2,322,175	\$			\$	2,322,175
	Tota	ı		\$	4,236,806	\$	20,000		\$	4,216,806

APPLICANT: MIAMI-DADE WATER & SEWER DEPARTMENT DATE: February, 2007
ALTERNATIVE: B (50%)

#### C. Financing of Capital Construction Costs

In this block, indicate what type of financing will be used (revenue bonds, general obligation bonds, etc.) Lines in this table should correspond to the lines in Block B and the costs to be financed are to agree with information in Block B. The interest rate and term (bonding period or loan period) should reflect the type of financing to be used.

Dollars shown in 000's	Capita		Finan	cing	
	Construction costs (\$)		Annual Interest		Annual Debt
Year Description	Financ		Rate (%)	Term (yrs)	Service (\$/yr)
1. 2006 Pilot Study - Phase I	\$	725 Revenue Bond	s 4.50%	30	\$ 45
2. 2011 Pilot Study - Phase II	2	2,775 Revenue Bond	s 4.50%	30	1,398
North District Treatment Upgrades, 3. 2011 Transmission, Pumping & Storage	1	0,004 Revenue Bond	s 4.50%	30	614
South District Transmission, Pumping 4. 2011 & Storage, RITs	g	5,576 Revenue Bond	s 4.50%	30	5,868
North District Treatment Upgrades, 5. 2016 Transmission, Pumping & Storage	4	1,507 Revenue Bond	s 4.50%	30	2,548
Central District Treatment Upgrades, 6. 2016 Transmission, Pumping & Storage	20	9,337 Revenue Bond	s 4.50%	30	12,852
South District Treatment Upgrades, Transmission, Pumping & Storage, 7. 2016 RITs	55	9,883 Revenue Bond	s 4.50%	30	34,372
North District Treatment Upgrades, 8. 2021 Transmission, Pumping & Storage	65	6,286 Revenue Bond	s 4.50%	30	40,290
Central District Treatment Upgrades, Transmission, Pumping & Storage, 9. 2026 RITs	26	7,886 Revenue Bond	s 4.50%	30	16,446
Replacement of fully depreciated 10. 2026 components installed above	3	80,652 Revenue Bond	s 4.50%	30	1,882
Sub-Total	\$ 1,89	4,631			\$ 116,314
11. 2006 Capital Cost Baseline		-	-	-	-
12. 2011 Capital Cost Baseline	70	4,809 Revenue Bond	s 4.50%	30	43,269
13. 2016 Capital Cost Baseline	1,08	3,955 Revenue Bond	s 4.50%	30	66,546
14. 2021 Capital Cost Baseline	12	6,526 Revenue Bond	s 4.50%	30	7,768
15. 2026 Capital Cost Baseline	40	6,885 Revenue Bond	s 4.50%	30	24,979
Sub-Total Capital Cost Baseline	\$ 2,32	2,175			\$ 142,561
Total	\$ 4,21	6,806			\$ 258,875

APPLICANT: MIAMI-DADE WATER & SEWER DEPARTMENT

DATE: February, 2007 ALTERNATIVE: B (50%)

#### D. Debt Service Schedule

The annual debt service shown in Block C should be distributed across the 20-year planning period. Lines in this table should correspond to lines in Block B and C. Be sure to show the debt service for each project (from Block c) only in the appropriate years. For example, facilities to be constructed in Year 12 of the analysis and financed over 20 years, would have the debt service would be shown only for years 15 and 20.

Dollars shown in 000's						Debt Se	rvice (\$/yr)				
Descr	ription	Year 1		Ye	ar 5	Yea	ar 10	Υ	ear 15	Υ	ear 20
1. Pilot Study - Phase	\$		45	\$	45	\$	45	\$	45	\$	45
2. Pilot Study - Phase	II				1,398		1,398		1,398		1,398
North District Treatn 3. Transmission, Pump					614		614		614		614
South District Trans. 4. Storage, RITs	mission, Pumping &				5,868		5,868		5,868		5,868
North District Treatn 5. Transmission, Pump							2,548		2,548		2,548
Central District Trea 6. Transmission, Pump							12,852		12,852		12,852
South District Treatr 7. Transmission, Pump							34,372		34,372		34,372
North District Treatn 8. Transmission, Pump									40,290		40,290
Central District Trea 9. Transmission, Pump											16,446
Replacement of fully 10. components installed											1,882
Sub-Total	\$		45	\$	7,924	\$	57,696	\$	97,987	\$	116,314
11. 2006 Capital Cost Ba	aseline										
12. 2011 Capital Cost Ba	aseline				43,269		43,269		43,269		43,269
13. 2016 Capital Cost Ba	aseline						66,546		66,546		66,546
14. 2021 Capital Cost Ba	aseline								7,768		7,768
15. 2026 Capital Cost Ba	aseline										24,979
Sub-Total - Baseline	\$			\$	43,269	\$	109,815	\$	117,583	\$	142,561
Total	\$		45	\$	51,194	\$	167,511	\$	215,569	\$	258,875

APPLICANT: MIAMI-DADE WATER & SEWER DEPARTMENT

DATE: February, 2007 ALTERNATIVE: B (50%)

## E. Other Anticipated Debt which will be Repaid from Operations of the Wastewater System/Utility.

Please show the debt service associated with other anticipated debt only in appropriate years (those within the term of the loan or bond issue).

Dolla	ars shown in 000'	s						Ann	ual Debi	t Service (\$/yr)	)			
		Description	Debt Amount (\$)	Annual Interest Rate (%)		Year 1	,	Year 5	Y	ear 10	Y	ear 15	,	Year 20
	1. not included	i												
	2.													
	3.													
	4.													
	5.													
	6.													
	Totals				\$		\$		\$		\$		\$	
F.	Existing Debt f	or the Wastewater System	n/Utility											
	Please show the	e debt service associated w	ith outstanding Loans or	r bond issues or	ıly in app	propriate years	(those wi	thin the term of	the loan	or bond issue	e).			
Dolla	ars shown in 000'	s	Current	Annual				Ann	ual Debi	t Service (\$/yr	)			
		Description	Debt Amount (\$)	Interest Rate (%)		Year 1	,	Year 5	Υ	ear 10	Y	'ear 15	,	Year 20
	1. Various (for	2006 from FY 2005 - 2006	Budget)		\$	87,052	\$	87,052	\$	87,052	\$	87,052	\$	87,052
	2.													
	3.													
	4.													
	5.													
	6.													
	Totals				\$	87,052	\$	87,052	\$	87,052	\$	87,052	\$	87,052

**APPLICANT: MIAMI-DADE WATER & SEWER DEPARTMENT** 

DATE: February, 2007 ALTERNATIVE: B (50%)

## G. Annual Expenses for the Wastewater System/Utility

Please enter annual expenses for operation and maintenance, depreciation and amortization, and taxes (other than income). Do not include debt service or expenses that are reported elsewhere in Blocks, D, E, F, and H.

## Dollars shown in 000's

## 1. Existing facilities \*

	Expenses (\$/yr)											
Expense Category		Year 1		Year 5		Year 10		Year 15	Year 20			
Operating and Maintenance	\$	157,068	\$	157,068	\$	157,068	\$	157,068	\$	157,068		
Depreciation and Amortization		98,002		98,002		98,002		98,002		98,002		
Taxes Other Than Income		0		0		0		0		0		
Totals	\$	255,070	\$	255,070	\$	255,070	\$	255,070	\$	255,070		

<sup>\*</sup> Existing facility information shown from FY 2005 - 2006 Budget

#### 2. Proposed facilities associated with this alternative

	Expenses (\$/yr)											
Expense Category	Ye	Year 1		ear 5		/ear 10	Year 15		Year 20			
Operating and Maintenance	\$	54	\$	4,954	\$	61,185	\$	120,003	\$	143,927		
Depreciation and Amortization		34		4,583		38,397		67,986		79,898		
Taxes Other Than Income		0		0		0		0		0		
Totals	\$	88	\$	9,537	\$	99,582	\$	187,989	\$	223,825		

## 2a. Proposed facilities associated with the baseline

				Expen	ses (\$/yr)			
Expense Category	Ye	ear 1	 Year 5		rear 10	`	Year 15	 Year 20
Operating and Maintenance	\$	438	\$ 37,355	\$	94,805	\$	99,256	\$ 103,708
Depreciation and Amortization		514	33,093		80,601		83,981	87,361
Taxes Other Than Income		0	0		0		0	0
Totals	\$	952	\$ 70,448	\$	175,406	\$	183,237	\$ 191,069

# 3. All existing and planned facilities (Total of 1 and 2's above)

	Expenses (\$/yr)										
Expense Category		Year 1		Year 5		Year 10		Year 15		Year 20	
Operating and Maintenance	\$	157,560	\$	199,377	\$	313,058	\$	376,327	\$	404,703	
Depreciation and Amortization		98,550		135,678		217,000		249,969		265,261	
Taxes Other Than Income		-		-		-		-		-	
Totals	\$	256,110	\$	335,055	\$	530,058	\$	626,296	\$	669,964	

## H. Other Expenses

Please list and describe any other expenses to be incurred by the wastewater system/utility during this 20-year period.

## Dollars shown in 000's

	 		 ses (\$/yr)		
Description	 Year 1	 Year 5	 Year 10	 Year 15	 Year 20
All other expenses (income) from FY 2005 - 2006 Budget	\$ (10,558)	\$ (10,558)	\$ (10,558)	\$ (10,558)	\$ (10,558)
Totals	\$ (10,558)	\$ (10,558)	\$ (10,558)	\$ (10,558)	\$ (10,558)

**APPLICANT: MIAMI-DADE WATER & SEWER DEPARTMENT** 

DATE: February, 2007 ALTERNATIVE: B (50%)

## I. Total Expenses

Total expenses shown in Blocks D, E, F, G, and H - excludes depreciation

Dollars shown in 000's					Exper	nses (\$/yr)					
	Year 1			Year 5		Year 10		Year 15		Year 20	
Total Expenses	\$	234,098	\$	327,065	\$	557,064	\$	668,391	\$	740,073	

## J. Reclaimed Water Connection Fees

Include in this block connection fees or impact fees to be obtained as major users and residential customers are added to the reclaimed water system. Do not include contributions from major users that were previously used to offset capital construction costs.

#### Dollars shown in 000's

	Description	Y	ear 1	 Year 5	 Year 10	 Year 15	 Year 20
1.	Number of new residential connections (gpd/ yr)		0	4,510,000	200,000	1,030,000	0
2.	Residential connection / impact fees (\$/gpd)	\$	1.00	\$ 1.00	\$ 1.00	\$ 1.00	\$ 1.00
3.	Revenue from residential connections (\$/yr) [multiply Line 1 by Line 2]	\$	-	\$ 4,510	\$ 200	\$ 1,030	\$ -
4.	Number of new major users (gpd/yr)			5,880,000	1,300,000	0	0
5.	Revenues from connection fees from major users (\$/yr)			\$ 5,880	\$ 1,300	\$ -	\$ -
6.	Average major user connection fees (\$/connection) [divide Line 5 by Line 4]		n/a	\$ 1.00	\$ 1.00	n/a	n/a
7.	Total revenues from connection fees (\$/yr) [add Line 3 and Line 5]	\$	-	\$ 10,390	\$ 1,500	\$ 1,030	\$ -

APPLICANT: MIAMI-DADE WATER & SEWER DEPARTMENT

DATE: February, 2007 ALTERNATIVE: B (50%)

# K. Revenues From Sale of Reclaimed Water

Included are anticipated revenues from the sale of reclaimed water in this block. Estimates should be realistic and conservative.

# Dollars shown in 000's

	Description	Year	1	Year 5	 Year 10	Year 15	Year 20
1.	Sales to major users (1,000 gal/yr)		0	3,766,800	8,763,650	10,928,100	10,946,350
2.	Revenue from sales to major users (\$/yr)			\$ 2,551	\$ 4,402	\$ 4,943	\$ 4,948
3.	Average sale price to major users (\$/1,000 gal) [divide Line 2 by Line 1]			\$ 0.68	\$ 0.50	\$ 0.45	\$ 0.45
4.	Sales to residential customers (1,000 gal/yr)		0	1,646,150	1,719,150	2,095,100	2,095,100
5.	Revenue from sale to residential customers (\$/yr)	\$	-	\$ 1,646	\$ 1,719	\$ 2,095	\$ 2,095
6.	Average price for residential service (\$/1,000 gal) [divide Line 5 by Line 4]			\$ 1.00	\$ 1.00	\$ 1.00	\$ 1.00
7.	Total revenues from sale of reclaimed water (\$/yr) [add Line 2 and Line 5]	\$	-	\$ 4,197	\$ 6,121	\$ 7,038	\$ 7,043

APPLICANT: MIAMI-DADE WATER & SEWER DEPARTMENT

DATE: February, 2007 ALTERNATIVE: B (50%)

# L. Wastewater Connection Fees

Include connection fees, impact fees, and related one-time assessments associated with provision of wastewater management services

# Dollars shown in 000's

	Description	Y	ear 1	Year 5	Y	/ear 10	Y	ear 15	Y	ear 20
1.	Total connection/impact fees for non-residential customers to be collected (\$/yr)									
2.	Number of new non-residential connections (connections/yr)									
3.	Average connection/impact fees for non- residential customers (\$/connection) [divide Line 1 by Line 2]									
4.	Number of new residential connections (connections/yr)									
5.	Residential connection/impact fees (\$/connection)									
6.	Residential connection fees collected (\$/yr) [multiply Line 4 by Line 5]	\$	-	\$ -	\$	-	\$	-	\$	-
7.	Total revenues from connection fees [add Line 1 and Line 6] * * "Capital Contributions" from FY 2005 - 2006	\$ Budget	24,657	\$ 30,000	\$	30,000	\$	30,000	\$	30,000

**APPLICANT: MIAMI-DADE WATER & SEWER DEPARTMENT** 

DATE: February, 2007 ALTERNATIVE: B (50%)

# M. Wastewater User Fees Dollars shown in 000's

	Description	Year 1	Year 5	 Year 10		Year 15	 Year 20
1.	Revenue from wastewater user/service charges for non-residential customers (\$/yr)						
2.	Wastewater from non-residential customers that is treated (1,000 gal/yr)	not available	not available	not available	ı	not available	not available
3.	Average user charge for non-residential customers (\$/1,000 gal) [divide Line 1 by Line 2]						
4.	Number of households served [must agree with Line 4 Block A]	560,565	596,302	640,749		678,688	709,040
5.	Revenue from residential user/service charges (\$/yr)	not available	not available	not available	I	not available	not available
6.	Average monthly residential user/service charge (\$/month/household) [divide line 5 by Line 4 by 12]	23.24	23.24	23.24		23.24	23.24
7.	Total revenues from wastewater user/service charges (\$/yr) [add Line 1 and Line 5] * *"Revenues" From FY 2005 - 2006 Budget	\$ 230,343	\$ 230,343	\$ 230,343	\$	230,343	\$ 230,343

**APPLICANT: MIAMI-DADE WATER & SEWER DEPARTMENT** 

DATE: February, 2007 ALTERNATIVE: B (50%)

#### N. Other Revenues

Please list other sources of revenues anticipated to be received by the wastewater system/utility

## Dollars shown in 000's

	Other Revenue (\$/yr)										
Description	Year 1	Year 5	Year 10	Year 15	Year 20						
1.											
2.											
3.											
Totals		s -		\$ -	s -						

## O Total Revenues

Please add the totals from Blocks J, K, L, M, and N to obtain total revenue to be received by the system.

## Dollars shown in 000's

Description	Year 1	Year 5	 Year 10	Year 15	Y	ear 20
Total Revenue (\$/yr)	\$ 255,000	\$ 274,930	\$ 267,964	\$ 268,411	\$	267,386

# P. Total Surplus or Deficit

The total costs shown in Block I are to be subtracted from the total revenues shown in Block O. The results for Years 1, 2, 10, 15, and 20 should be entered on line 1 if a surplus is indicated (revenues exceed expenses) or on line 2 if a deficit is indicated (expenses exceed revenues).

## Dollars shown in 000's

	Description	Ye	ear 1	Y	ear 5	 Year 10	Year 15	 Year 20
1.	Surplus (\$/yr)	\$	20,902					
2.	Deficit (\$/yr)			\$	(52,135)	\$ (289,100)	\$ (399,980)	\$ (472,687)

APPLICANT: MIAMI-DADE WATER & SEWER DEPARTMENT DATE: February, 2007

ALTERNATIVE: B (50%)

# Q. Existing Fees and Charges

Please identify existing fees and charges for connection and sale of reclaimed water, as well as user charges for wastewater services.

# 1. Wastewater user charges

- a. Residential user charge\$ 23.24 /month/household
- b. Average residential connection fee \$ none
- c. Average residential impact fee \$ 5.60 / gpd
- d. Average user charge for non-residential customers \$ 3.79 / 1,000 gallons
- e. Non-residential customers connection/impact fees \$ 5.60 / gpd

## 2. Sale of reclaimed water

- a. Residential users \$ n/a /month/household or \$ n/a / 1,000 gallons
- b. Initial connection fees for residential users \$\_\_n/a\_\_
- c. User charges for non-residential customers \$\_\_.18\_\_/ 1,000 gallons
- d. Connection fees for non-residential customers \$ n/a

APPLICANT: MIAMI-DADE WATER & SEWER DEPARTMENT

DATE: February, 2007 ALTERNATIVE: B (50%)

# R. Summary of proposed fees and charges

			 Year 1	Y	ear 5	Y	ear 10	Y	ear 15	Y	ear 20
1.	Wa	astewater user charges									
	a.	Residential user charge (\$ /month/household) [from Line 6 Block M]	\$ 23.24	\$	23.24	\$	23.24	\$	23.24	\$	23.24
	b.	Average residential connection/impact fees (\$) [from Line 5 Block L]	\$ -	\$	-	\$	-	\$	-	\$	-
	C.	Average user charge for non-residential customers (\$/1,000 gallons) [from Line 3 Block M]]	\$ -	\$	-	\$	-	\$	-	\$	-
	d.	Non-residential customers connection/impact fees (\$) [ from Line 3 Block L]	\$ -	\$	-	\$	-	\$	-	\$	-
2.	Sa	le of reclaimed water	 Year 1	Y	ear 5	Y	ear 10	Y	ear 15	Y	ear 20
	a.	Residential user charge (\$ /1,000 gallons) [from Line 6 Block K]	\$ _	\$	1.00	\$	1.00	\$	1.00	\$	1.00
	b.	Initial connection fees for residential users (\$) [from Line 2 Block J]	\$ 1.00	\$	1.00	\$	1.00	\$	1.00	\$	1.00
	C.	User charges for non-residential customers (\$ / 1,000 gallons) [from Line 3 Block K]	\$ -	\$	0.68	\$	0.50	\$	0.45	\$	0.45
	d.	Connection fees for non-residential customers (\$) [from Line 6 Block J]	n/a		1		1		n/a		n/a

**APPLICANT: MIAMI-DADE WATER & SEWER DEPARTMENT** 

DATE: February, 2007 ALTERNATIVE: C (25%)

This form provides for complete evaluation of costs to be incurred and revenues generated by the wastewater management system. This form is to be completed for each alternative and sub-alternative evaluated.

# A. Household Median Annual Income, Average Household Size, Number in the Service Area, and Population to be Served.

Population to be served is determined by the number of households multiplied by the household size. This data should be consistent with local comprehensive plan projections.

		Year 1	Year 5	Year 10	Year 15	Year 19 *
	calendar year that corresponds 1, 5, 10, 15, and 20 of the s	2007	2011	2016	2021	2025
2. Mediar	n household Income (\$ / year)	NA	NA	NA	NA	NA
_	e / household size e / household)	3.90	3.90	3.90	3.90	3.90
	er of households served by the age system	560,565	596,302	640,749	678,688	709,040
	ed population (people) y Line 3 by Line 4)	2,183,996	2,323,232	2,496,399	2,644,213	2,762,465
6. Total p	ublic access reuse **		20.12	31.34	31.34	31.34

<sup>\*</sup> Year 20 not available

<sup>\*\*</sup> Total number of homes served by reclaimed water not available

APPLICANT: MIAMI-DADE WATER & SEWER DEPARTMENT

DATE: February, 2007 ALTERNATIVE: C (25%)

#### B. Capital Construction Costs and Amounts to be Financed

In this block list all capital construction costs to be incurred by the wastewater system/utility. This should correspond directly to the costs included in the net present value analysis as described in another section of this document. List anticipated grants and other front-end sources of funds (property tax revenues, prepaid connection fees and betterment assessments, local funds/reserves available for the project, etc.) to be used to reduce the amount to be borrowed.

#### Dollars shown in 000's

	Year	Project Description	Co	otal Capital construction Costs (\$)	a	pated Grants nd other end Funds (\$)	Describe sources of grants and other front-end funds	cost	Construction s (\$) to be nanced
1.	2006	Pilot Study - Phase I	\$	725				\$	725
2.	2011	Pilot Study - Phase II		42,775		20,000	Will seek State and Federal assistance		22,775
3.	2011	North District Treatment Upgrades, Transmission, Pumping & Storage		9,387					9,387
4.	2011	Central District Treatment Upgrades, Transmission, Pumping & Storage		61,011					61,011
5.	2011	South District Treatment Upgrades, Transmission, Pumping & Storage, RITs		100,574					100,574
6.	2016	North District Treatment Upgrades, Transmission, Pumping & Storage		50,856					50,856
7.	2016	Central District Treatment Upgrades, Transmission, Pumping & Storage		15,687					15,687
8.	2016	South District Treatment Upgrades, Transmission, Pumping & Storage, RITs		592,466					592,466
9.	2026	Replacement of fully depreciated components installed above		67,685					67,685
Sub-	Total		\$	941,166	\$	20,000		\$	921,166
10.	2006	Capital Cost Baseline		0					-
11.	2011	Capital Cost Baseline		704,809					704,809
12.	2016	Capital Cost Baseline		1,083,955					1,083,955
13.	2021	Capital Cost Baseline		126,526					126,526
14.	2026	Capital Cost Baseline		406,885					406,885
Sub-	Total	Capital Cost Baseline	\$	2,322,175	\$			\$	2,322,175
Tota	I		\$	3,263,341	\$	20,000		\$	3,243,341

APPLICANT: MIAMI-DADE WATER & SEWER DEPARTMENT

DATE: February, 2007 ALTERNATIVE: C (25%)

## C. Financing of Capital Construction Costs

In this block, indicate what type of financing will be used (revenue bonds, general obligation bonds, etc.) Lines in this table should correspond to the lines in Block B and the costs to be financed are to agree with information in Block B. The interest rate and term (bonding period or loan period) should reflect the type of financing to be used.

Dollars sh	nown in (	000's	Capital		Financing			
			onstruction sts (\$) to be		Annual Interest		Ann	nual Debt
	Year	Description	Financed	Туре	Rate (%)	Term (yrs)		/ice (\$/yr)
1.	2006	Pilot Study - Phase I	\$ 725	Revenue Bonds	4.50%	30	\$	45
2.	2011	Pilot Study - Phase II	22,775	Revenue Bonds	4.50%	30		1,398
3.	2011	North District Treatment Upgrades, Transmission, Pumping & Storage	9,387	Revenue Bonds	4.50%	30		576
4.	2011	Central District Treatment Upgrades, Transmission, Pumping & Storage	61,011	Revenue Bonds	4.50%	30		3,746
5.	2011	South District Treatment Upgrades, Transmission, Pumping & Storage, RITs	100,574	Revenue Bonds	4.50%	30		6,174
6.	2016	North District Treatment Upgrades, Transmission, Pumping & Storage	50,856	Revenue Bonds	4.50%	30		3,122
7.	2016	Central District Treatment Upgrades, Transmission, Pumping & Storage	15,687	Revenue Bonds	4.50%	30		963
8.	2016	South District Treatment Upgrades, Transmission, Pumping & Storage, RITs	592,466	Revenue Bonds	4.50%	30		36,372
9.	2026	Replacement of fully depreciated components installed above	 67,685	Revenue Bonds	4.50%	30		4,155
Sub	b-Total		\$ 921,166				\$	56,552
10.	2006	Capital Cost Baseline	-		-	-		-
11.	2011	Capital Cost Baseline	704,809	Revenue Bonds	4.50%	30		43,269
12.	2016	Capital Cost Baseline	1,083,955	Revenue Bonds	4.50%	30		66,546
13.	2021	Capital Cost Baseline	126,526	Revenue Bonds	4.50%	30		7,768
14.	2026	Capital Cost Baseline	 406,885	Revenue Bonds	4.50%	30		24,979
Sub	b-Total	Capital Cost Baseline	\$ 2,322,175				\$	142,561
Tot	tal		\$ 3,243,341				\$	199,113

APPLICANT: MIAMI-DADE WATER & SEWER DEPARTMENT

DATE: February, 2007 ALTERNATIVE: C (25%)

#### D. Debt Service Schedule

The annual debt service shown in Block C should be distributed across the 20-year planning period. Lines in this table should correspond to lines in Block B and C. Be sure to show the debt service for each project (from Block c) only in the appropriate years. For example, facilities to be constructed in Year 12 of the analysis and financed over 20 years, would have the debt service would be shown only for years 15 and 20.

Dollars sh	hown in 000's				Debt S	Service (\$/yr)				
	Description	,	Year 1	Year 5	Y	ear 10	,	Year 15	,	Year 20
1.	Pilot Study - Phase I	\$	45	\$ 45	\$	45	\$	45	\$	45
2.	Pilot Study - Phase II			1,398		1,398		1,398		1,398
3.	North District Treatment Upgrades, Transmission, Pumping & Storage			576		576		576		576
4.	Central District Treatment Upgrades, Transmission, Pumping & Storage			3,746		3,746		3,746		3,746
5.	South District Treatment Upgrades, Transmission, Pumping & Storage, RITs			6,174		6,174		6,174		6,174
6.	North District Treatment Upgrades, Transmission, Pumping & Storage					3,122		3,122		3,122
7.	Central District Treatment Upgrades, Transmission, Pumping & Storage					963		963		963
8.	South District Treatment Upgrades, Transmission, Pumping & Storage, RITs					36,372		36,372		36,372
9.	Replacement of fully depreciated components installed above			 						4,155
Sul	b-Total	\$	45	\$ 11,939	\$	52,397	\$	52,397	\$	56,552
9.	2006 Capital Cost Baseline									
10.	2011 Capital Cost Baseline			43,269		43,269		43,269		43,269
11.	2016 Capital Cost Baseline					66,546		66,546		66,546
12.	2021 Capital Cost Baseline							7,768		7,768
13.	2026 Capital Cost Baseline			 						24,979
Sul	b-Total - Baseline	\$		\$ 43,269	\$	109,815	\$	117,583	\$	142,561
Tot	tal	\$	45	\$ 55,208	\$	162,211	\$	169,979	\$	199,113

APPLICANT: MIAMI-DADE WATER & SEWER DEPARTMENT

DATE: February, 2007 ALTERNATIVE: C (25%)

## E. Other Anticipated Debt which will be Repaid from Operations of the Wastewater System/Utility.

Please show the debt service associated with other anticipated debt only in appropriate years (those within the term of the loan or bond issue).

Dolla	ars shown in 000'	's						Ann	ual Debi	t Service (\$/yr	)			
		Description	Debt Amount (\$)	Annual Interest Rate (%)	,	∕ear 1	Y	ear 5	Y	ear 10	Y	'ear 15	١	Year 20
	not included	d												
	2.													
	3.													
	4.													
	5.													
	6.													
	Totals				\$		\$	_	\$		\$		\$	
F.	Existing Debt f	or the Wastewater Syste	m/Utility											
	Please show the	e debt service associated v	with outstanding Loans o	r bond issues or	nly in app	ropriate years	those wit	thin the term of	the loan	or bond issue	e).			
Dolla	ars shown in 000'	's	Current	Annual				Ann	ual Deb	t Service (\$/yr	)			
		Description	Debt Amount (\$)	Interest Rate (%)	,	rear 1	Y	ear 5	Y	ear 10	Y	ear 15	١	rear 20
	1. Various (for	2006 from FY 2005 - 2006	6 Budget)		\$	87,052	\$	87,052	\$	87,052	\$	87,052	\$	87,052
	2.													
	3.													
	4.													
	5.													
	6.													

**APPLICANT: MIAMI-DADE WATER & SEWER DEPARTMENT** 

DATE: February, 2007 ALTERNATIVE: C (25%)

## G. Annual Expenses for the Wastewater System/Utility

Please enter annual expenses for operation and maintenance, depreciation and amortization, and taxes (other than income). Do not include debt service or expenses that are reported elsewhere in Blocks, D, E, F, and H.

## Dollars shown in 000's

## 1. Existing facilities \*

			Exper	ises (\$/yr)		
Expense Category	 Year 1	Year 5		Year 10	 Year 15	 Year 20
Operating and Maintenance	\$ 157,068	\$ 157,068	\$	157,068	\$ 157,068	\$ 157,068
Depreciation and Amortization	98,002	98,002		98,002	98,002	98,002
Taxes Other Than Income	0	0		0	0	0
Totals	\$ 255,070	\$ 255,070	\$	255,070	\$ 255,070	\$ 255,070

<sup>\*</sup> Existing facility information shown from FY 2005 - 2006 Budget

## 2. Proposed facilities associated with this alternative

				Expen	ses (\$/yr)		
Expense Category	Ye	ar 1	 Year 5		Year 10	 Year 15	 Year 20
Operating and Maintenance	\$	54	\$ 10,693	\$	74,704	\$ 74,704	\$ 74,704
Depreciation and Amortization		34	7,835		40,005	40,005	40,005
Taxes Other Than Income		0	0		0	0	0
Totals	\$	88	\$ 18,528	\$	114,709	\$ 114,709	\$ 114,709

## 2a. Proposed facilities associated with the baseline

				Expen	ses (\$/yr)			
Expense Category	Ye	ear 1	 Year 5		Year 10	`	Year 15	 Year 20
Operating and Maintenance	\$	438	\$ 37,355	\$	94,805	\$	99,256	\$ 103,708
Depreciation and Amortization		514	33,093		80,601		83,981	87,361
Taxes Other Than Income		0	0		0		0	0
Totals	\$	952	\$ 70,448	\$	175,406	\$	183,237	\$ 191,069

# 3. All existing and planned facilities (Total of 1 and 2's above)

			Exper	ises (\$/yr)		
Expense Category	 Year 1	 Year 5		Year 10	Year 15	 Year 20
Operating and Maintenance	\$ 157,560	\$ 205,116	\$	326,577	\$ 331,028	\$ 335,480
Depreciation and Amortization	98,550	138,930		218,608	221,988	225,368
Taxes Other Than Income	-	-		-	-	-
Totals	\$ 256,110	\$ 344,046	\$	545,185	\$ 553,016	\$ 560,848

## H. Other Expenses

Please list and describe any other expenses to be incurred by the wastewater system/utility during this 20-year period.

## Dollars shown in 000's

				 ises (\$/yr)		
Description	 Year 1		Year 5	 Year 10	 Year 15	 Year 20
All other expenses (income) from FY 2005 - 2006 Budget	\$ (10,558)	\$	(10,558)	\$ (10,558)	\$ (10,558)	\$ (10,558)
Totals	 (10,558)	<u> </u>	(10,558)	 (10,558)	 (10,558)	 (10,558)

**APPLICANT: MIAMI-DADE WATER & SEWER DEPARTMENT** 

DATE: February, 2007 ALTERNATIVE: C (25%)

## I. Total Expenses

Total expenses shown in Blocks D, E, F, G, and H - excludes depreciation

Dollars shown in 000's		Expenses (\$/yr)									
		Year 1		Year 5		Year 10		Year 15		Year 20	
Total Expenses	\$	234,098	\$	336,818	\$	565,283	\$	577,502	\$	611,087	

## J. Reclaimed Water Connection Fees

Include in this block connection fees or impact fees to be obtained as major users and residential customers are added to the reclaimed water system. Do not include contributions from major users that were previously used to offset capital construction costs.

#### Dollars shown in 000's

	Description		Year 1		Year 5		Year 10		Year 15		Year 20	
1.	Number of new residential connections (gpd/ yr)		0		5,540,000		200,000		0		0	
2.	Residential connection / impact fees (\$/gpd)	\$	1.00	\$	1.00	\$	1.00	\$	1.00	\$	1.00	
3.	Revenue from residential connections (\$/yr) [multiply Line 1 by Line 2]	\$	-	\$	5,540	\$	200	\$	-	\$	-	
4.	Number of new major users (gpd/yr)				5,880,000		1,300,000		0		0	
5.	Revenues from connection fees from major users (\$/yr)			\$	5,880	\$	1,300	\$	-	\$	-	
6.	Average major user connection fees (\$/connection) [divide Line 5 by Line 4]		n/a	\$	1.00	\$	1.00		n/a		n/a	
7.	Total revenues from connection fees (\$/yr) [add Line 3 and Line 5]	\$	-	\$	11,420	\$	1,500	\$	-	\$	-	

APPLICANT: MIAMI-DADE WATER & SEWER DEPARTMENT

DATE: February, 2007 ALTERNATIVE: C (25%)

## K. Revenues From Sale of Reclaimed Water

Included are anticipated revenues from the sale of reclaimed water in this block. Estimates should be realistic and conservative.

## Dollars shown in 000's

	Description	Y	'ear 1	Year 5	 Year 10	Year 15	 Year 20
1.	Sales to major users (1,000 gal/yr)		0	5,029,700	8,895,050	8,895,050	8,895,050
2.	Revenue from sales to major users (\$/yr)	\$	-	\$ 2,867	\$ 4,436	\$ 4,436	\$ 4,436
3.	Average sale price to major users (\$/1,000 gal) [divide Line 2 by Line 1]	\$	-	\$ 0.57	\$ 0.50	\$ 0.50	\$ 0.50
4.	Sales to residential customers (1,000 gal/yr)		0	2,022,100	2,095,100	2,095,100	2,095,100
5.	Revenue from sale to residential customers (\$/yr)	\$	-	\$ 2,022	\$ 2,095	\$ 2,095	\$ 2,095
6.	Average price for residential service (\$/1,000 gal) [divide Line 5 by Line 4]			\$ 1.00	\$ 1.00	\$ 1.00	\$ 1.00
7.	Total revenues from sale of reclaimed water (\$/yr) [add Line 2 and Line 5]	\$	-	\$ 4,889	\$ 6,531	\$ 6,531	\$ 6,531

APPLICANT: MIAMI-DADE WATER & SEWER DEPARTMENT

DATE: February, 2007 ALTERNATIVE: C (25%)

## L. Wastewater Connection Fees

Include connection fees, impact fees, and related one-time assessments associated with provision of wastewater management services

## Dollars shown in 000's

	Description	Y	ear 1	Year 5	Y	'ear 10	Y	'ear 15	Y	ear 20
1.	Total connection/impact fees for non-residential customers to be collected (\$/yr)									
2.	Number of new non-residential connections (connections/yr)									
3.	Average connection/impact fees for non- residential customers (\$/connection) [divide Line 1 by Line 2]									
4.	Number of new residential connections (connections/yr)									
5.	Residential connection/impact fees (\$/connection)									
6.	Residential connection fees collected (\$/yr) [multiply Line 4 by Line 5]	\$	-	\$ -	\$	-	\$	-	\$	-
7.	Total revenues from connection fees [add Line 1 and Line 6] * * "Capital Contributions" from FY 2005 - 2006	\$ Budget	24,657	\$ 30,000	\$	30,000	\$	30,000	\$	30,000

**APPLICANT: MIAMI-DADE WATER & SEWER DEPARTMENT** 

DATE: February, 2007 ALTERNATIVE: C (25%)

# M. Wastewater User Fees Dollars shown in 000's

ııaı s	SHOWN IN 000 S							
	Description		Year 1	Year 5	 Year 10	-	Year 15	Year 20
1.	Revenue from wastewater user/service charges for non-residential customers (\$/yr)							
2.	Wastewater from non-residential customers that is treated (1,000 gal/yr)		not available	not available	not available	1	not available	not available
3.	Average user charge for non-residential customers (\$/1,000 gal) [divide Line 1 by Line 2]							
4.	Number of households served [must agree with Line 4 Block A]		560,565	596,302	640,749		678,688	709,040
5.	Revenue from residential user/service charges (\$/yr)		not available	not available	not available	ļ	not available	not available
6.	Average monthly residential user/service charge (\$/month/household) [divide line 5 by Line 4 by 12]		23.24	23.24	23.24		23.24	23.24
7.	Total revenues from wastewater user/service charges (\$/yr) [add Line 1 and Line 5] * *"Revenues" From FY 2005 - 2006 Budget	\$	230,343	\$ 230,343	\$ 230,343	\$	230,343	\$ 230,343

**APPLICANT: MIAMI-DADE WATER & SEWER DEPARTMENT** 

DATE: February, 2007 ALTERNATIVE: C (25%)

#### N. Other Revenues

Please list other sources of revenues anticipated to be received by the wastewater system/utility

#### Dollars shown in 000's

			Other Revenue (\$/yr)		
Description	Year 1	Year 5	Year 10	Year 15	Year 20
1.					
2.					
3.					
Totals	<u> </u>	\$ -	\$ -	\$ -	\$ -

#### O Total Revenues

Please add the totals from Blocks J, K, L, M, and N to obtain total revenue to be received by the system.

#### Dollars shown in 000's

Description	Year 1	Year 5	 Year 10	 /ear 15	Y	ear 20
Total Revenue (\$/yr)	\$ 255,000	\$ 276,652	\$ 268,374	\$ 266,874	\$	266,874

## P. Total Surplus or Deficit

The total costs shown in Block I are to be subtracted from the total revenues shown in Block O. The results for Years 1, 2, 10, 15, and 20 should be entered on line 1 if a surplus is indicated (revenues exceed expenses) or on line 2 if a deficit is indicated (expenses exceed revenues).

#### Dollars shown in 000's

	Description	Ye	ear 1	Ye	ar 5	 Year 10	 Year 15	 'ear 20
1.	Surplus (\$/yr)	\$	20,902					
2.	Deficit (\$/yr)			\$	(60,166)	\$ (296,909)	\$ (310,628)	\$ (344,213)

APPLICANT: MIAMI-DADE WATER & SEWER DEPARTMENT DATE: February, 2007

ALTERNATIVE: C (25%)

# Q. Existing Fees and Charges

Please identify existing fees and charges for connection and sale of reclaimed water, as well as user charges for wastewater services.

## 1. Wastewater user charges

- a. Residential user charge\$ 23.24 /month/household
- b. Average residential connection fee \$ none
- c. Average residential impact fee \$ 5.60 / gpd
- d. Average user charge for non-residential customers \$\\_3.79\_\_ / 1,000 gallons
- e. Non-residential customers connection/impact fees \$ 5.60 / gpd

#### 2. Sale of reclaimed water

- a. Residential users \$ n/a /month/household or \$ n/a / 1,000 gallons
- b. Initial connection fees for residential users \$\_\_n/a\_\_
- c. User charges for non-residential customers \$\_\_.18\_\_/ 1,000 gallons
- d. Connection fees for non-residential customers \$ n/a

APPLICANT: MIAMI-DADE WATER & SEWER DEPARTMENT

DATE: February, 2007 ALTERNATIVE: C (25%)

# R. Summary of proposed fees and charges

			Υ	ear 1	Y	ear 5	Y	ear 10	Ye	ear 15	Y	ear 20
1.	Wastewater user charges											
	a. Residential user charge (\$ /month/household) [fro	om Line 6 Block M]	\$	23.24	\$	23.24	\$	23.24	\$	23.24	\$	23.24
	b. Average residential connection/impact fees (\$) [fr	om Line 5 Block L]	\$	-	\$	-	\$	-	\$	-	\$	-
	Average user charge for non-residential custome c. Line 3 Block M]]	rs (\$/1,000 gallons) [from	\$	-	\$	-	\$	-	\$	-	\$	-
	Non-residential customers connection/impact fee d. L]	s (\$) [ from Line 3 Block	\$	-	\$	-	\$	-	\$	-	\$	-
2.	Sale of reclaimed water			ear 1		ear 5		ear 10		ear 15		ear 20
				cai i		cai J		sai iu		ai is		5ai 20
	a. Residential user charge (\$ /1,000 gallons) [from L	ine 6 Block K]	\$	-	\$	1.00	\$	1.00	\$	1.00	\$	1.00
	b. Initial connection fees for residential users (\$) [fro	m Line 2 Block J]	\$	1.00	\$	1.00	\$	1.00	\$	1.00	\$	1.00
	User charges for non-residential customers (\$ / 1 c. 3 Block K]	,000 gallons) [from Line	\$	-	\$	0.57	\$	0.50	\$	0.50	\$	0.50
	d. Connection fees for non-residential customers (\$	) [from Line 6 Block J]	n/a			1.00		1.00	n/a		n/a	

**APPLICANT: MIAMI-DADE WATER & SEWER DEPARTMENT** 

DATE: February, 2007

**ALTERNATIVE: D (NO ACTION)** 

This form provides for complete evaluation of costs to be incurred and revenues generated by the wastewater management system. This form is to be completed for each alternative and sub-alternative evaluated.

# A. Household Median Annual Income, Average Household Size, Number in the Service Area, and Population to be Served.

Population to be served is determined by the number of households multiplied by the household size. This data should be consistent with local comprehensive plan projections.

		Year 1	Year 5	Year 10	Year 15	Year 19 *
1.	Enter calendar year that corresponds Years 1, 5, 10, 15, and 20 of the analysis	2007	2011	2016	2021	2025
2.	Median household Income (\$ / year)	NA	NA	NA	NA	NA
3.	Average household size (people / household)	3.90	3.90	3.90	3.90	3.90
4.	Number of households served by the sewerage system	560,565	596,302	640,749	678,688	709,040
5.	Serviced population (people) Multiply Line 3 by Line 4)	2,183,996	2,323,232	2,496,399	2,644,213	2,762,465
6.	Total public access reuse **		0.1 MGD	0.1 MGD	0.1 MGD	0.1 MGD

<sup>\*</sup> Year 20 not available

<sup>\*\*</sup> Total number of homes served by reclaimed water not available

**APPLICANT: MIAMI-DADE WATER & SEWER DEPARTMENT** 

DATE: February, 2007

**ALTERNATIVE: D (NO ACTION)** 

#### B. Capital Construction Costs and Amounts to be Financed

In this block list all capital construction costs to be incurred by the wastewater system/utility. This should correspond directly to the costs included in the net present value analysis as described in another section of this document. List anticipated grants and other front-end sources of funds (property tax revenues, prepaid connection fees and betterment assessments, local funds/reserves available for the project, etc.) to be used to reduce the amount to be borrowed.

#### Dollars shown in 000's

	Year	Project Description	Total Capital Construction Costs (\$)	Anticipated Grants and other Front-end Funds (\$)	Describe sources of grants and other front-end funds	cos	I Construction its (\$) to be Financed
1.	2006 Cap	oital Cost Baseline	0				-
2.	2011 Cap	oital Cost Baseline	704,809				704,809
3.	2016 Cap	oital Cost Baseline	1,083,955				1,083,955
4.	2021 Cap	oital Cost Baseline	126,526				126,526
5.	2026 Cap	oital Cost Baseline	406,885				406,885
Tota	ıl		\$ 2,322,175	\$ -		\$	2,322,175

APPLICANT: MIAMI-DADE WATER & SEWER DEPARTMENT

DATE: February, 2007

ALTERNATIVE: D (NO ACTION)

## C. Financing of Capital Construction Costs

In this block, indicate what type of financing will be used (revenue bonds, general obligation bonds, etc.) Lines in this table should correspond to the lines in Block B and the costs to be financed are to agree with information in Block B. The interest rate and term (bonding period or loan period) should reflect the type of financing to be used.

Dollars sho	own in 000's			Capital		Δ.	Financin	g	
	Year	Description	cost	nstruction s (\$) to be inanced	Туре	In	nnual terest ite (%)	Term (yrs)	Annual Debt Service (\$/yr)
1.	2006 Capital Cost B	aseline	\$	-	Revenue Bonds		4.50%	30	\$ -
2.	2011 Capital Cost B	aseline	\$	704,809	Revenue Bonds		4.50%	30	43,269
3.	2016 Capital Cost B	aseline	\$	1,083,955	Revenue Bonds		4.50%	30	66,546
4.	2021 Capital Cost B	saseline	\$	126,526	Revenue Bonds		4.50%	30	7,768
5.	2026 Capital Cost B	saseline	\$	406,885	Revenue Bonds		4.50%	30	 24,979
Tota	I		\$	2,322,175					\$ 142,562

APPLICANT: MIAMI-DADE WATER & SEWER DEPARTMENT

DATE: February, 2007

**ALTERNATIVE: D (NO ACTION)** 

#### D. Debt Service Schedule

The annual debt service shown in Block C should be distributed across the 20-year planning period. Lines in this table should correspond to lines in Block B and C. Be sure to show the debt service for each project (from Block c) only in the appropriate years. For example, facilities to be constructed in Year 12 of the analysis and financed over 20 years, would have the debt service would be shown only for years 15 and 20.

Dollars shown in 000's	Debt Service (\$/yr)											
Description	Year 1	Year 5	Year 10	Year 15	Year 20							
1. 2006 Capital Cost Baseline	\$ -	\$ -	\$ -	\$ -	\$ -							
2. 2011 Capital Cost Baseline		43,269	43,269	43,269	43,269							
3. 2016 Capital Cost Baseline			66,546	66,546	66,546							
4. 2021 Capital Cost Baseline				7,768	7,768							
5. 2026 Capital Cost Baseline					24,979							
Total	\$ -	\$ 43,269	\$ 109,815	\$ 117,583	\$ 142,562							

APPLICANT: MIAMI-DADE WATER & SEWER DEPARTMENT

DATE: February, 2007 ALTERNATIVE: D (NO ACTION)

#### E. Other Anticipated Debt which will be Repaid from Operations of the Wastewater System/Utility.

Please show the debt service associated with other anticipated debt only in appropriate years (those within the term of the loan or bond issue).

Dollar	s shown in 000's					Annual Debt Ser	vice (\$/yr)	
	Description	Debt Amount (\$)	Annual Interest Rate (%)	Year 1	Year 5	Year 1	10 Year 15	Year 20
	1. not included							
	2.							
	3.							
	4.							
	5.							
	6.							
	Totals			\$ -	\$	- \$	- \$ -	\$ -
F.	Existing Debt for the Wastewater System/	/Utility						
	Please show the debt service associated with	h outstanding Loans o	r bond issues or	nly in appropriate yea	rs (those within th	e term of the loan or b	oond issue).	
Dollar	s shown in 000's					Annual Debt Ser	rico (f.hr.)	
		Current	Annual	-		Allitual Debt Sei	vice (\$/yi)	
	Description	Current Debt Amount (\$)	Annual Interest Rate (%)	Year 1	Year 5			Year 20
	Description  1. Various (for 2006 from FY 2005 - 2006 B	Debt Amount (\$)	Interest	Year 1 \$ 87,052		Year 1		Year 20 \$ 87,052
	·	Debt Amount (\$)	Interest			Year 1	10 Year 15	
	1. Various (for 2006 from FY 2005 - 2006 E	Debt Amount (\$)	Interest			Year 1	10 Year 15	
	1. Various (for 2006 from FY 2005 - 2006 E 2.	Debt Amount (\$)	Interest			Year 1	10 Year 15	
	<ol> <li>Various (for 2006 from FY 2005 - 2006 E</li> <li>3.</li> </ol>	Debt Amount (\$)	Interest			Year 1	10 Year 15	
	1. Various (for 2006 from FY 2005 - 2006 E 2. 3.	Debt Amount (\$)	Interest			Year 1	10 Year 15	

APPLICANT: MIAMI-DADE WATER & SEWER DEPARTMENT

DATE: February, 2007

ALTERNATIVE: D (NO ACTION)

#### G. Annual Expenses for the Wastewater System/Utility

Please enter annual expenses for operation and maintenance, depreciation and amortization, and taxes (other than income). Do not include debt service or expenses that are reported elsewhere in Blocks, D, E, F, and H.

#### Dollars shown in 000's

#### 1. Existing facilities \*

Existing racinales	Expenses (\$/yr)											
Expense Category		Year 1		Year 5		Year 10		Year 15		Year 20		
Operating and Maintenance	\$	157,068	\$	157,068	\$	157,068	\$	157,068	\$	157,068		
Depreciation and Amortization		98,002		98,002		98,002		98,002		98,002		
Taxes Other Than Income		0	0		0		0		I			
Totals	\$	255,070	\$	255,070	\$	255,070	\$	255,070	\$	255,070		

<sup>\*</sup> Existing facility information shown from FY 2005 - 2006 Budget

#### 2. Proposed facilities associated with the baseline

	Expenses (\$/yr)												
Expense Category	Y	ear 1		Year 5		Year 10		Year 15	Year 20				
Operating and Maintenance	\$	438	\$	37,355	\$	94,805	\$	99,256	\$	103,708			
Depreciation and Amortization		514		33,093		80,601		83,981		87,361			
Taxes Other Than Income		0		0		0		0					
Totals	\$	952	\$	70,448	\$	175,406	\$	183,237	\$	191,069			

## 3. All existing and planned facilities (Total of 1 and 2's above)

	Expenses (\$/yr)											
Expense Category		Year 1		Year 5		Year 10		Year 15		Year 20		
Operating and Maintenance	\$	157,506	\$	194,423	\$	251,873	\$	256,324	\$	260,776		
Depreciation and Amortization	\$	98,516	\$	131,095	\$	178,603	\$	181,983	\$	185,363		
Taxes Other Than Income	\$	-	\$	-	\$	-	\$	-	\$	-		
Totals	\$	256,022	\$	325,518	\$	430,476	\$	438,307	\$	446,139		

#### H. Other Expenses

Please list and describe any other expenses to be incurred by the wastewater system/utility during this 20-year period.

#### Dollars shown in 000's

	Expenses (\$/yr)												
Description		Year 1		Year 5		Year 10		Year 15	Year 20				
All other expenses (income) from FY 2005 - 2006 Budget	\$	(10,558)	\$	(10,558)	\$	(10,558)	\$	(10,558)	\$	(10,558)			
Totals	\$	(10,558)	\$	(10,558)	\$	(10,558)	\$	(10,558)	\$	(10,558)			

**APPLICANT: MIAMI-DADE WATER & SEWER DEPARTMENT** 

DATE: February, 2007

ALTERNATIVE: D (NO ACTION)

#### I. Total Expenses

Total expenses shown in Blocks D, E, F, G, and H - excludes depreciation

Dollars shown in 000's				Expenses (\$/yr)						
<u>-</u>	 Year 1		Year 5		Year 10		Year 15		Year 20	
Total Expenses	\$ 234,000	\$	314,186	\$	438,182	\$	450,401	\$	479,832	

#### J. Reclaimed Water Connection Fees

Include in this block connection fees or impact fees to be obtained as major users and residential customers are added to the reclaimed water system. Do not include contributions from major users that were previously used to offset capital construction costs.

#### Dollars shown in 000's

	Description	Year 1	Year 5	Year 10	Year 15	Year 20
1.	Number of new residential connections (gpd/ yr)	N/A	N/A	N/A	N/A	N/A
2.	Residential connection / impact fees (\$/gpd)	N/A	N/A	N/A	N/A	N/A
3.	Revenue from residential connections (\$/yr) [multiply Line 1 by Line 2]	N/A	N/A	N/A	N/A	N/A
4.	Number of new major users (gpd/yr)	N/A	N/A	N/A	N/A	N/A
5.	Revenues from connection fees from major users (\$/yr)	N/A	N/A	N/A	N/A	N/A
6.	Average major user connection fees (\$/connection) [divide Line 5 by Line 4]	N/A	N/A	N/A	N/A	N/A
7.	Total revenues from connection fees (\$/yr) [add Line 3 and Line 5]	N/A	N/A	N/A	N/A	N/A

APPLICANT: MIAMI-DADE WATER & SEWER DEPARTMENT

DATE: February, 2007

ALTERNATIVE: D (NO ACTION)

## K. Revenues From Sale of Reclaimed Water

Included are anticipated revenues from the sale of reclaimed water in this block. Estimates should be realistic and conservative.

## Dollars shown in 000's

	Description	Year 1	Year 5	Year 10	Year 15	Year 20
1.	Sales to major users (1,00 gal/yr)	N/A	N/A	N/A	N/A	N/A
2.	Revenue from sales to major users (\$/yr)	N/A	N/A	N/A	N/A	N/A
3.	Average sale price to major users (\$/1,000 gal) [divide Line 2 by Line 1]	N/A	N/A	N/A	N/A	N/A
4.	Sales to residential customers (1,000 gal/yr)	N/A	N/A	N/A	N/A	N/A
5.	Revenue from sale to residential customers (\$/yr)	N/A	N/A	N/A	N/A	N/A
6.	Average price for residential service (\$/1,000 gal) [divide Line 5 by Line 4]	N/A	N/A	N/A	N/A	N/A
7.	Total revenues from sale of reclaimed water (\$/yr) [add Line 2 and Line 5]	N/A	N/A	N/A	N/A	N/A

APPLICANT: MIAMI-DADE WATER & SEWER DEPARTMENT

DATE: February, 2007 ALTERNATIVE: D (NO ACTION)

## L. Wastewater Connection Fees

Include connection fees, impact fees, and related one-time assessments associated with provision of wastewater management services

## Dollars shown in 000's

	Description	Y	ear 1	Year 5	Y	'ear 10	Y	'ear 15	Y	ear 20
1.	Total connection/impact fees for non-residential customers to be collected (\$/yr)									
2.	Number of new non-residential connections (connections/yr)									
3.	Average connection/impact fees for non- residential customers (\$/connection) [divide Line 1 by Line 2]									
4.	Number of new residential connections (connections/yr)									
5.	Residential connection/impact fees (\$/connection)									
6.	Residential connection fees collected (\$/yr) [multiply Line 4 by Line 5]	\$	-	\$ -	\$	-	\$	-	\$	-
7.	Total revenues from connection fees [add Line 1 and Line 6] * * "Capital Contributions" from FY 2005 - 2006	\$ Budget	24,657	\$ 30,000	\$	30,000	\$	30,000	\$	30,000

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DATE: February, 2007 ALTERNATIVE: D (NO ACTION)

## M. Wastewater User Fees Dollars shown in 000's

	Description	Y	ear 1	Year 5	Year 10		Year 15	Year 20
1.	Revenue from wastewater user/service charges for non-residential customers (\$/yr)							
2.	Wastewater from non-residential customers that is treated (1,000 gal/yr)	no	ot available	not available	not available	I	not available	not available
3.	Average user charge for non-residential customers (\$/1,000 gal) [divide Line 1 by Line 2]							
4.	Number of households served [must agree with Line 4 Block A]		560,565	596,302	640,749		678,688	709,040
5.	Revenue from residential user/service charges (\$/yr)	no	ot available	not available	not available	I	not available	not available
6.	Average monthly residential user/service charge (\$/month/household) [divide line 5 by Line 4 by 12]		23.24	23.24	23.24		23.24	23.24
7.	Total revenues from wastewater user/service charges (\$/yr) [add Line 1 and Line 5] * *"Revenues" From FY 2005 - 2006 Budget	\$	230,343	\$ 230,343	\$ 230,343	\$	230,343	\$ 230,343

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#### N. Other Revenues

Please list other sources of revenues anticipated to be received by the wastewater system/utility

#### Dollars shown in 000's

	Other Revenue (\$/yr)										
Description	Year 1	Year 5	Year 10	Year 15	Year 20						
1.											
2.											
3.											
Totals	<u> </u>	\$ -	\$ -	\$ -	\$ -						

#### O Total Revenues

Please add the totals from Blocks J, K, L, M, and N to obtain total revenue to be received by the system.

#### Dollars shown in 000's

Description	Year 1		Year 5		Year 10		Year 15		Year 20	
Total Revenue (\$/yr)	\$	255,000	\$	260,343	\$	260,343	\$	260,343	\$	260,343

## P. Total Surplus or Deficit

The total costs shown in Block I are to be subtracted from the total revenues shown in Block O. The results for Years 1, 2, 10, 15, and 20 should be entered on line 1 if a surplus is indicated (revenues exceed expenses) or on line 2 if a deficit is indicated (expenses exceed revenues).

#### Dollars shown in 000's

	Description	Year 1		Year 1 Year 5		Year 10		Year 15		Year 20	
1.	Surplus (\$/yr)	\$	21,000								
2.	Deficit (\$/yr)			\$	(53,843)	\$	(177,839)	\$	(190,058)	\$	(219,489)

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**ALTERNATIVE: D (NO ACTION)** 

# Q. Existing Fees and Charges

Please identify existing fees and charges for connection and sale of reclaimed water, as well as user charges for wastewater services.

## 1. Wastewater user charges

- a. Residential user charge\$ 23.24 /month/household
- b. Average residential connection fee \$ none
- c. Average residential impact fee \$ 5.60 / gpd
- d. Average user charge for non-residential customers \$\\_3.79\_\_ / 1,000 gallons
- e. Non-residential customers connection/impact fees \$ 5.60 / gpd

#### 2. Sale of reclaimed water

- a. Residential users \$ n/a /month/household or \$ n/a / 1,000 gallons
- b. Initial connection fees for residential users \$\_\_n/a\_\_
- c. User charges for non-residential customers \$\frac{n/a}{2}\$ 1,000 gallons
- d. Connection fees for non-residential customers \$ n/a

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ALTERNATIVE: D (NO ACTION)

# R. Summary of proposed fees and charges

				Year 1		Year 5		Year 10		Year 15		Year 20	
1.	Wa	stewater user charges											
	a.	Residential user charge (\$ /month/household) [from Line 6 Block M]	\$	23.24	\$	23.24	\$	23.24	\$	23.24	\$	23.24	
	b.	Average residential connection/impact fees (\$) [from Line 5 Block L]	\$	-	\$	-	\$	-	\$	-	\$	-	
	C.	Average user charge for non-residential customers (\$/1,000 gallons) [from Line 3 Block M]]	\$	-	\$	-	\$	-	\$	-	\$	-	
	d.	Non-residential customers connection/impact fees (\$) [ from Line 3 Block L]	\$	-	\$	-	\$	-	\$	-	\$	-	
2.	Sa	e of reclaimed water		Year 1		Year 5		Year 10		Year 15		Year 20	
				i cai i		i cai o		cai io		cai io		cai zo	
	a.	Residential user charge (\$ /1,000 gallons) [from Line 6 Block K]		N/A									
	b.	Initial connection fees for residential users (\$) [from Line 2 Block J]		N/A									
	C.	User charges for non-residential customers (\$ / 1,000 gallons) [from Line 3 Block K]		N/A									
	d.	Connection fees for non-residential customers (\$) [from Line 6 Block J]		N/A									