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WASTEWATER RECLAMATION AUTHORITY
CIP Project Spending

Capital Improvement Project Expenses by Year

	Total Est. Project Cost	Costs through 2005	Recomm. F06 Costs	Recomm. F07 Costs	Recomm. F08 Costs	Recomm. F09 Costs	Future Costs	
Core Projects								
wra 086	Des Moines River Outfall	45,183,192	3,523,820	6,401,906	5,979,763	5,563,012	-	23,714,691
wra 087	East 20th St. Connector	13,802,805	5,129,300	1,160,796	-	-	-	7,512,709
wra 084	Emission Reduction	(1) 6,292,782	78,014	6,214,768	-	-	-	-
wra 093	Flow Monitoring System	6,911,747	-	400,000	1,000,000	5,511,747	-	-
wra 088	Ingersoll Run Sewer	2,500,000	89,924	2,410,076	-	-	-	-
wra 074	Digester Gas System	(1) 11,682,325	-	-	-	1,500,000	10,182,325	-
wra 077	Power Generation System	(1) 5,935,879	620,245	2,278,134	-	-	-	3,037,500
wra 080	Westside Basin Interceptor	(1) 6,289,658	-	6,289,658	-	-	-	-
	Subtotal Core Projects	98,598,388	9,441,303	25,155,338	6,979,763	12,574,759	10,182,325	34,264,900
Expansion Projects								
wra 085	Ankeny Four Mile Interceptor Ext.	24,743,265	628,759	9,183,506	1,411,000	-	-	13,520,000
wra 099	FourMi Interceptor Improv.	19,310,000	-	-	1,500,000	470,000	-	17,340,000
wra 095	Little Four Mile Int. South	4,480,740	201,536	3,209,403	1,069,801	-	-	-
wra 089	Little Four Mile Int. Ext.	2,673,314	85,996	2,587,318	-	-	-	-
wra 090	Middle Creek Trunk Sewer	7,493,871	95,863	4,255,508	-	-	3,142,500	-
wra 082	WDM Outfall	16,008,394	629,513	38,881	-	3,790,000	-	11,550,000
wra 092	WDM Outfall Ext.	8,597,522	-	1,017,522	3,380,000	-	-	4,200,000
	Subtotal Expansion Projects	83,307,106	1,641,667	20,292,138	7,360,801	4,260,000	3,142,500	46,610,000
wra 081	South West Area Diversion Facilities	94,999,208	482,586	12,798,803	16,016,762	-	35,096,048	30,605,009
wra 081	South West Area Diversion Facilities	94,999,208	482,586	12,798,803	16,016,762	-	35,096,048	30,605,009
Future Projects								
	WRF Nutrient Removal	25,824,409	-	-	-	-	-	25,824,409
	Mud Creek Interceptor	16,424,000	-	-	-	-	-	16,424,000
	Combined Sewer Solids Separation	39,855,755	-	-	-	3,894,108	-	35,961,647
	Subtotal Future Projects	82,104,164	-	-	-	3,894,108	-	78,210,056
	Total Bonded Project Costs	359,008,866	11,565,556	58,246,279	30,357,326	20,728,867	48,420,873	189,689,965
Non-Bonded Projects								
wra 072	Aeration Blowers	1,107,917	206,682	901,235	-	-	-	-
wra 094	Asset Management	288,500	206,983	81,517	-	-	-	-
wra 073	DeWatering System & Thickening Centrifuges	8,119,824	5,930,889	2,188,935	-	-	-	-
wra 069	Facilities Plan Update	981,120	681,321	44,799	35,000	40,000	45,000	135,000
wra 078	Facilities Rehabilitation	2,710,600	205,180	405,420	350,000	350,000	350,000	1,050,000
wra 076	Hauled Waste Receiving Station	4,759,838	1,696,350	2,763,488	300,000	-	-	-
wra 070	Process Equipment Replacement	6,032,691	2,024,988	742,703	705,000	560,000	500,000	1,500,000
wra 083	Small CIP current projects	2,780,567	1,027,844	1,752,723	-	-	-	-
wra 091	Small CIP future projects	9,420,000	-	800,000	1,200,000	1,420,000	1,500,000	4,500,000
wra 096	Transition Costs	300,000	170,121	129,879	-	-	-	-
	Funding other than Bonding for some project (1)							
	wra 074 / Digester	552,754	162,754	390,000	-	-	-	-
	wra 077 / Power	936,476	936,476	-	-	-	-	-
	wra 084 / Emmissions	400,000	400,000	-	-	-	-	-
	wra 080 / Westside	23,410	23,410	-	-	-	-	-
	Total Non-Bonded Project Costs	38,413,697	13,672,998	10,200,699	2,590,000	2,370,000	2,395,000	7,185,000
	WRA Total Expenses for Projects	397,422,563	25,238,554	68,446,978	32,947,326	23,098,867	50,815,873	196,874,965

(1) Some Core projects were started before Bonding

Summary 2007

Wastewater Reclamation Authority Capital Improvements

Col. 1 2 3 4 5 6 7 8 9 10 11 12 13

	TOTAL ESTIMATED COST	COST THROUGH F05	REVISED ESTIMATE F06	TOTAL ESTIMATED COST THROUGH F06	COST FOR SIX-YEAR PERIOD	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F12
						F07	F08	F09	F10	F11	F12	
Expenses, detail on following page	397,422,563	25,238,554	68,446,978	93,685,532	237,594,673	32,947,326	23,098,867	50,815,873	41,428,261	86,909,346	2,395,000	66,142,358
Resources:												
Beginning Balance	0	0	54,482,398	0		31,469,073	21,728,867	48,420,873	39,033,261	84,514,346	0	0
Interest Earnings	1,246,207	96,207	150,000	246,207	1,000,000	150,000	150,000	175,000	175,000	175,000	175,000	0
Renewal & Replacement Fund	13,025,762	9,112,791	5,372,971	14,485,762	(1,460,000)	(460,000)	(1,000,000)	0	0	0	0	0
Communities	22,450,447	7,050,447	2,100,000	9,150,447	13,300,000	2,200,000	2,220,000	2,220,000	2,220,000	2,220,000	2,220,000	0
SRF Drawdowns	1,694,405	1,212,905	481,500	1,694,405	0	0	0	0	0	0	0	0
Bond Proceeds *	359,005,742	62,248,602	37,329,182	99,577,784	235,534,009	21,317,120	48,420,873	39,033,261	84,514,346	0	42,248,409	23,893,949
Other	0	0	0	0	0	0	0	0	0	0	0	0
Total Resources	397,422,563	79,720,952	99,916,051	125,154,605	248,374,009	54,676,193	71,519,740	89,849,134	125,942,607	86,909,346	44,643,409	23,893,949
* Bond Proceeds, this is a preliminary amount that will be passed on to PFM for analysis												
Core	172,468,129	31,047,570	9,937,458			17,057,120	10,182,325	24,293,260	28,589,337		25,824,409	25,536,650
Expansion	147,371,573	17,919,643	11,374,962			4,260,000	3,142,500	14,740,001	25,320,000		16,424,000	54,190,467
SW	94,999,208	13,281,389	16,016,762			0	35,096,048	0	30,605,009		0	0
Estimated Bond Proceeds	414,838,910	62,248,602	37,329,182			21,317,120	48,420,873	39,033,261	84,514,346	0	42,248,409	79,727,117
PFM Analysis and Projections indicate the following Bond Proceed Amounts:												
Core	175,205,482	31,047,570	9,564,742			17,912,898	12,035,423	24,694,453	28,589,337		25,824,409	25,536,650
Expansion	141,925,489	17,919,643	11,432,710			3,683,054	3,017,032	14,453,678	22,485,348		15,183,979	53,750,045
SW	91,606,144	13,281,389	15,670,581			0	31,648,432	0	31,005,742		0	0
Estimated Bond Proceeds	408,737,115	62,248,602	36,668,033			21,595,952	46,700,887	39,148,131	82,080,427	0	41,008,388	79,286,695
Bond Issuance Costs	10,058,365	4,581,398	5,476,967									
2004B / 2006A		66,830,000	42,145,000									

Fiscal 2007/Fiscal 2012 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
Wastewater Reclamation Authority Improvements				WRA Facility Plan Update								AG267 WRA990000 WRA069	
	TOTAL ESTIMATED COST	COST THROUGH F04	ACTUAL COST IN F05	COST THROUGH F05	REVISED BUDGET F06	ESTIMATED COST THROUGH F06	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F12
							F07	F08	F09	F10	F11	F12	
Expenses	981,120	641,506	39,815	681,321	44,799	726,120	35,000	40,000	45,000	45,000	45,000	45,000	
Beginning Balance													
Interest Earnings													
Repair and Replacement Fund		40,886	14,815	55,701	(55,701)								
Communities	981,120	600,620	25,000	625,620	100,500	726,120	35,000	40,000	45,000	45,000	45,000	45,000	
SRF Drawdowns													
Bond Proceeds													
Other													
Total Resources	981,120	641,506	39,815	681,321	44,799	726,120	35,000	40,000	45,000	45,000	45,000	45,000	
ENDING BALANCE	0	0	0	0	0	0	0	0	0	0	0	0	0

Description:

This project provides for an update of the original ICA Facility Plan in anticipation of needs through the year 2020. Core projects and expansion projects are included in the facility plan. Funding in years F05 through F11 are discretionary for use in funding special studies and special assistance to the authority in implementing the facility plan.

Justification:

The original 201 and 208 studies were completed in 1978 and 1982, respectively, and current growth levels are beyond the expectations of those studies. The study will identify the needs of the WRA through 2020.

Scheduling:

The WRA Facility Plan was approved by the WRA Board and submitted to IDNR in March, 2004. Plan implementation started in F04.

Relationship to General Plan and Other Projects:

This project will identify and recommend expansion and core projects that will increase the WRA capital assets.

Operating Budget Effect:

The size and number of facilities will increase. Proportionate shares will change and the number of contributing communities will increase. Operating and Maintenance effects will vary by project.

Fiscal 2007/Fiscal 2012 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
Wastewater Reclamation Authority Improvements				WRF Process Equipment Replacement								AG267 WRA990000 WRA070	
	TOTAL ESTIMATED COST	COST THROUGH F04	ACTUAL COST IN F05	COST THROUGH F05	REVISED BUDGET F06	ESTIMATED COST THROUGH F06	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F12
							F07	F08	F09	F10	F11	F12	
Expenses	6,032,691	1,635,520	389,468	2,024,988	742,703	2,767,691	705,000	560,000	500,000	500,000	500,000	500,000	
Beginning Balance													
Interest Earnings	700,000				100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	
Repair and Replacement Fund	1,948,191	1,635,520	389,468	2,024,988	(76,797)	1,948,191							
Communities	3,384,500				719,500	719,500	605,000	460,000	400,000	400,000	400,000	400,000	
SRF Drawdowns													
Bond Proceeds													
Other													
Total Resources	6,032,691	1,635,520	389,468	2,024,988	742,703	2,767,691	705,000	560,000	500,000	500,000	500,000	500,000	
ENDING BALANCE	0	0	0	0	0	0	0	0	0	0	0	0	0

Description:

Renewal and replacement of existing process equipment.

Justification:

Process equipment installed between 1987 and 1993 is nearing the end of its useful life and will require replacement. Other major replacements are budgeted individually.

Projections beyond 2006 are second tier replacement as equipment wears out over typical fifteen year service life and the magnitude may increase with inflation.

Scheduling:

F05: Digested sludge recirculation pumps, Membrane dryer, Digester feed valve controller, Digester lobe flow pumps.

F06: Chlorinator replacement, Laboratory Air Conditioning and Humidity control, Replacement of acid digestion fume hood control and portable samplers, Gas burner system replacement, primary sludge pumps, Bldg 20/21 air dryers, Exhaust gas heat exchangers.

F07: Bldg 91 Air Compressors; Building 80-1,2,3 way valves; Limitorque for Digester Feed; replace 20,21 Air dryers; 24" RSL Flow Meters; Chlorine residual analyzer; 18" RSL flow meters; Process Air blower PLC's; Pretreatment Sampler; Grit and Lime screw conveyors, Bldg 12 Grease Process Controls

Relationship to General Plan and Other Projects:

This project will receive the first \$100,000 of interest earnings from the \$10,000,000 R&R balance up to half of the interest earnings; the remainder will be applied to WRA078.

Operating Budget Effect:

This project will maintain the current level of service and reduce operations and maintenance costs.

Fiscal 2007/Fiscal 2012 Capital Improvements Program

PROJECT CATEGORY			PROJECT TITLE								ACCOUNT		
Wastewater Reclamation Authority Improvements			WRF Aeration Blowers								AG267 WRA990000 WRA072		
	TOTAL ESTIMATED COST	COST THROUGH F04	ACTUAL COST IN F05	COST THROUGH F05	REVISED BUDGET F06	ESTIMATED COST THROUGH F06	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F12
							F07	F08	F09	F10	F11	F12	
Expenses	1,107,917	174,645	32,037	206,682	901,235	1,107,917							
Beginning Balance													
Interest Earnings													
Repair and Replacement Fund Communities	1,427,917	174,645	352,037	526,682	901,235	1,427,917							
SRF Drawdowns													
Bond Proceeds													
Other / AVAILABLE FUNDS	(320,000)		(320,000)	(320,000)		(320,000)							
Total Resources	1,107,917	174,645	32,037	206,682	901,235	1,107,917							
ENDING BALANCE	0	0	0	0	0	0	0	0	0	0	0	0	0

Description:

The study completed in 2004 concluded that replacement of any of the 2000 hp blowers was not feasible because of the mixing requirements in the basin. The study did recommend that the piping, valves and controls be replaced to provide better operator control over the air delivered to the basins. More efficient use of air will provide energy savings. F05 and F06 costs incurred will be allocated under the current allocation formula.

Justification:

Current blowers operate in the minimum range with 2000 HP motors that waste energy and prevent process control adjustments.

Scheduling:

The preliminary design was completed in F04. Final design and construction will take place in F06 .

Relationship to General Plan and Other Projects:

R&R funding for this project was determined on 7/1/04 with any change in project total transferring to Power Generation WRA077 in order to reduce future bonding amounts.

Operating Budget Effect:

This project will result in a decrease in long term operations and maintenance costs.

Fiscal 2007/Fiscal 2012 Capital Improvements Program

PROJECT CATEGORY			PROJECT TITLE								ACCOUNT		
Wastewater Reclamation Authority Improvements			WRF Dewatering and Thickening System								AG267 WRA990000 WRA073		
	TOTAL ESTIMATED COST	COST THROUGH F04	ACTUAL COST IN F05	COST THROUGH F05	REVISED BUDGET F06	ESTIMATED COST THROUGH F06	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F12
							F07	F08	F09	F10	F11	F12	
Expenses	8,119,824	810,824	5,120,065	5,930,889	2,188,935	8,119,824							
Beginning Balance													
Interest Earnings													
Repair and Replacement Fund	8,119,824	810,824	5,120,065	5,930,889	2,188,935	8,119,824							
Communities													
SRF Drawdowns													
Bond Proceeds													
Other													
Total Resources	8,119,824	810,824	5,120,065	5,930,889	2,188,935	8,119,824							
ENDING BALANCE	0	0	0	0	0	0	0	0	0	0	0	0	0

Description:

Replacement of dewatering presses and thickening centrifuges and polymer feed system with more efficient equipment. Costs incurred in F05 will be allocated under the current allocation formula.

Justification:

The belt filter presses used to dewater biosolids utilize outdated technology, require significant maintenance and do not produce the desired cake. Land application costs \$25,000 per year per percent cake solids. The current centrifuges operate at minimum speed, do not allow sufficient control, and expend additional energy. The dewatering system and thickening centrifuge replacement projects have been combined. Thickening centrifuges will be replaced with more efficient rotary drum thickeners.

Scheduling:

The study was completed in F01 (Small Capital Projects). On site equipment testing was conducted in F02 and F03. Design was completed in F04 with construction in F05 and F06.

Relationship to General Plan and Other Projects:

This project was combined with the WRF Hauled Waste Receiving Station for construction.

Operating Budget Effect:

This project will result in a decrease in long term operations and maintenance costs.

Fiscal 2007/Fiscal 2012 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT		
Wastewater Reclamation Authority Improvements				WRF Digester Improvements								AG267 WRA990000 WRA074		
	TOTAL ESTIMATED COST	COST THROUGH F04	ACTUAL COST IN F05	COST THROUGH F05	REVISED BUDGET F06	ESTIMATED COST THROUGH F06	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F12	
							F07	F08	F09	F10	F11	F12		
Expenses	12,235,079	162,754		162,754	390,000	552,754		1,500,000	10,182,325					
Beginning Balance								1,500,000	10,182,325					
Interest Earnings														
Repair and Replacement Fund	552,754	162,754		162,754	390,000	552,754								
Communities														
SRF Drawdowns														
Bond Proceeds	11,682,325						1,500,000	10,182,325						
Other														
Total Resources	12,235,079	162,754		162,754	390,000	552,754	1,500,000	11,682,325	10,182,325					
ENDING BALANCE	0	0	0	0	0	0	1,500,000	10,182,325	0	0	0	0	0	

Description:

Piping from the digesters to the engine generators was replaced in F02/F03. F04 and F05 Improvements will increase flaring capacity. F05 improvements will be funded from the R&R fund. F08 improvements will involve improving the mixing system, repairing the insulated covers, and upgrading the digester gas system.

Justification:

Digester gas contains hydrogen sulfide which corrodes components necessitating replacement. The equipment must be replaced in order to maintain the current level of service and reduce maintenance costs. This project will result in delivery of higher quality gas to the engine generators. Some improvements are necessitated by the increase in gas production that will require larger piping and appurtenances.

Scheduling:

The study and design are scheduled for F05 with construction in F06 through F08. A project to replace the piping from the digesters to the power generation building was designed and constructed in F02 and F03. F04 and F05 efforts will focus on the flaring system. Design will start in F08 with construction in F09 and F10.

Relationship to General Plan and Other Projects:

None

Operating Budget Effect:

This project will result in a decrease in long term operations and maintenance costs with potential increased revenues.

Fiscal 2007/Fiscal 2012 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT		
Wastewater Reclamation Authority Improvements				WRF Hauled Waste Receiving Station								AG267 WRA990000 WRA076		
	TOTAL ESTIMATED COST	COST THROUGH F04	ACTUAL COST IN F05	COST THROUGH F05	REVISED BUDGET F06	ESTIMATED COST THROUGH F06	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F12	
							F07	F08	F09	F10	F11	F12		
Expenses	4,759,838	621,838	1,074,512	1,696,350	2,763,488	4,459,838	300,000							
Beginning Balance					2,581,988		300,000							
Interest Earnings	44,247	6,693	37,554	44,247		44,247								
Repair and Replacement Fund														
Communities	3,021,186	2,924,413	96,773	3,021,186		3,021,186								
SRF Drawdowns #7	1,694,405	284,200	928,705	1,212,905	481,500	1,694,405								
Bond Proceeds														
Other														
Total Resources	4,759,838	3,215,306	1,063,032	4,278,338	3,063,488	4,759,838	300,000							
ENDING BALANCE	0	2,593,468	(11,480)	2,581,988	300,000	300,000	0	0	0	0	0	0	0	0

Description:

This project will increase the efficiency and make necessary safety improvements for waste loads brought into the WRF by industrial and municipal customers. The project includes facilities for septic haulers and industrial tank trucks. Costs incurred in F05 will be allocated under the current allocation formula.

Justification:

Improvements to these facilities have the potential to increase revenues and will improve the safety of employees and industrial customers.

Scheduling:

Design in F04. Construction in F05 and F06.

Relationship to General Plan and Other Projects:

This project was combined with the WRF Dewatering and Thickening Improvements for construction

Operating Budget Effect:

Will result in increased revenues and decreased costs.

Fiscal 2007/Fiscal 2012 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT		
Wastewater Reclamation Authority Improvements				WRF Power Generation System								AG267 WRA990000 WRA077		
	TOTAL ESTIMATED COST	COST THROUGH F04	ACTUAL COST IN F05	COST THROUGH F05	REVISED BUDGET F06	ESTIMATED COST THROUGH F06	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F12	
							F07	F08	F09	F10	F11	F12		
Expenses	6,872,355	1,325,857	230,864	1,556,721	2,278,134	3,834,855				3,037,500				
Beginning Balance					1,135,634				3,037,500					
Interest Earnings														
Repair and Replacement Fund Communities	616,476	1,325,857	(709,381)	616,476		616,476								
SRF Drawdowns														
Bond Proceeds	5,935,879		1,755,879	1,755,879	1,142,500	2,898,379			3,037,500					
Other (WRA072)	320,000		320,000	320,000		320,000								
Total Resources	6,872,355	1,325,857	1,366,498	2,692,355	2,278,134	3,834,855			3,037,500	3,037,500				
ENDING BALANCE	0	0	1,135,634	1,135,634	0	0	0	0	3,037,500	0	0	0	0	0

Description:

F03 and F04 expenditures are for overhauling the engine drive system and replacing controls and heat recovery improvements. F05 expenditures are for adding an additional generator. The cost allocation for the F05 improvements will be in accordance with the existing cost allocation. F10 improvements will be funded with R&R funds.

Justification:

The engines burn the by-product gas produced by the digesters to produce electricity saving more than \$300,000 annually. New technology offers lower O&M cost and produce more electricity. Engine overhauls are required every 25,000 hours. An additional generator will allow electrical production to continue during periodic maintenance shutdowns.

Scheduling:

Conduct a study in F01 with design in F03 and construction in F04-F05. F10 costs are for replacement of the three superior generators.

The completed study will provide more information on project implementation.

Relationship to General Plan and Other Projects:

The costs in F06 are included in the facility plan; costs in F04, F05, and F10 will be added to future bond issues (above the bonding in the facility plan).

Operating Budget Effect:

This project will result in a decrease in long-term operations and maintenance costs.

Fiscal 2007/Fiscal 2012 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
Wastewater Reclamation Authority Improvements				WRF Facilities Rehabilitation								AG267 WRA990000 WRA078	
	TOTAL ESTIMATED COST	COST THROUGH F04	ACTUAL COST IN F05	COST THROUGH F05	REVISED BUDGET F06	ESTIMATED COST THROUGH F06	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F12
							F07	F08	F09	F10	F11	F12	
Expenses	2,710,600	72,913	132,267	205,180	405,420	610,600	350,000	350,000	350,000	350,000	350,000	350,000	
Beginning Balance													
Interest Earnings	450,000				50,000	50,000	50,000	50,000	75,000	75,000	75,000	75,000	
Repair and Replacement Fund	360,600	72,913	132,267	205,180	155,420	360,600							
Communities	1,900,000				200,000	200,000	300,000	300,000	275,000	275,000	275,000	275,000	
SRF Drawdowns													
Bond Proceeds													
Other													
Total Resources	2,710,600	72,913	132,267	205,180	405,420	610,600	350,000	350,000	350,000	350,000	350,000	350,000	
ENDING BALANCE	0	0	0	0	0	0	0	0	0	0	0	0	0

Description:

These projects are for non-process repair and replacement projects at the WRF and off-site WRA facilities.

Justification:

As buildings and infrastructure age, capital projects will be required to preserve facilities in a serviceable condition.

Scheduling:

F05: Roof Replacement on Buildings 75, 50, 51 and 52, and HVAC Improvements.

F06: Roof Replacement on Buildings 45-1,2,3,4 and 80-1,2,3 and HVAC Improvements.

F07: Roof Replacement on Building 70 and HVAC Improvements.

Relationship to General Plan and Other Projects:

This project will receive a portion of the interest earnings from the \$10,000,000 R&R balance, as will WRA070.

Operating Budget Effect:

These projects will reduce operations and maintenance costs in future years.

Fiscal 2007/Fiscal 2012 Capital Improvements Program

PROJECT CATEGORY			PROJECT TITLE					ACCOUNT					
Wastewater Reclamation Authority Improvements			WRA West Side Interceptor Basin					AG267 WRA990000 WRA080					
	TOTAL ESTIMATED COST	COST THROUGH F04	ACTUAL COST IN F05	COST THROUGH F05	REVISED BUDGET F06	ESTIMATED COST THROUGH F06	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD					COST BEYOND F12	
							F07	F08	F09	F10	F11		F12
Expenses	6,313,068	23,410		23,410	6,289,658	6,313,068							
Beginning Balance					6,289,658								
Interest Earnings	269	269		269		269							
Repair and Replacement Fund Communities /pre 7/1/04	23,141	23,141		23,141		23,141							
SRF Drawdowns													
Bond Proceeds	6,289,658		6,289,658	6,289,658		6,289,658							
Other													
Total Resources	6,313,068	23,410	6,289,658	6,313,068	6,289,658	6,313,068							
ENDING BALANCE	0	0	6,289,658	6,289,658	0	0	0	0	0	0	0	0	0

Description:
 This is a WRA core project. The project will increase the capacity of the pump station from 20 mgd to 35 mgd and replace controls and associated equipment.

Justification:
 The existing equipment is aging and has been exposed to harsh operating conditions. The capacity of the pump station needs to be increased to equal the capacity of the downstream sewer.

Scheduling:
 Variable Frequency Drive replaced in F03, Increased pumping capacity design in F06, construction in F06 and F07.

Relationship to General Plan and Other Projects:
 This project is included in the WRA Facility Plan Update.

Operating Budget Effect:
 Increase revenues and operations and maintenance costs.

Fiscal 2007/Fiscal 2012 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT
Wastewater Reclamation Authority Improvements				Southwest Area Diversion Facilities								AG267 WRA990000 WRA081
	TOTAL ESTIMATED COST	COST THROUGH F04	ACTUAL COST IN F05	COST THROUGH F05	REVISED BUDGET F06	ESTIMATED COST THROUGH F06	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD					COST BEYOND F12
							F07	F08	F09	F10	F11	
Expenses	94,999,208	401,923	80,663	482,586	12,798,803	13,281,389	16,016,762		35,096,048		30,605,009	
Beginning Balance					8,532,043		16,016,762		35,096,048		30,605,009	
Interest Earnings												
Repair and Replacement Fu		401,923	(401,923)									
Communities												
SRF Drawdowns												
Bond Proceeds	94,999,208		13,281,389	13,281,389	16,016,762	29,298,151		35,096,048		30,605,009		
Other / Loans			(4,266,760)	(4,266,760)	4,266,760							
Total Resources	94,999,208	401,923	8,612,706	9,014,629	28,815,565	29,298,151	16,016,762	35,096,048	35,096,048	30,605,009	30,605,009	
ENDING BALANCE	0	0	8,532,043	8,532,043	16,016,762	16,016,762	0	35,096,048	0	30,605,009	0	0

Description: This is a core/expansion project. Two thirds of the facilities support core communities and one third supports expansion communities. This project will divert flows from the Southwest Outfall Interceptor Sewer during wet weather and store in an equalization facility. Peak wet weather flows will be stored and then treated during low flow periods. Equalization will reduce the impact of wet weather events at the WRF. This project will also provide a connection for the City of Norwalk.

Justification:

This project is necessary to provide flow equalization at the wastewater reclamation facility and a connection to the WRA system for the City of Norwalk.

Scheduling:

The time sensitive reach will be designed in F04/05 and constructed in F06. The North River Interceptor will be designed in F05/06 and constructed in F06/07. The diversion sewer will be will be constructed in F09 and F10. The pump station, force main, flow equalization and interceptors will be constructed in F09, F10, and F11.

Relationship to General Plan and Other Projects:

This project is included in the WRA Facility Plan Update. This project will have available cash flow that may be utilized by expansion projects until the next bonding proceeds are available.

Operating Budget Effect:

This project will increase revenues and operations and maintenance costs.

Fiscal 2007/Fiscal 2012 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
Wastewater Reclamation Authority Improvements				West Des Moines Outfall								AG267 WRA990000 WRA082	
	TOTAL ESTIMATED COST	COST THROUGH F04	ACTUAL COST IN F05	COST THROUGH F05	REVISED BUDGET F06	ESTIMATED COST THROUGH F06	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F12
							F07	F08	F09	F10	F11	F12	
Expenses	16,008,394	552,941	76,572	629,513	38,881	668,394		3,790,000		5,000,000			6,550,000
Beginning Balance					38,881			3,790,000		5,000,000			
Interest Earnings													
Repair and Replacement Fund Communities		552,941	(552,941)										
SRF Drawdowns													
Bond Proceeds	16,008,394		668,394	668,394		668,394	3,790,000		5,000,000			6,550,000	
Other													
Total Resources	16,008,394	552,941	115,453	668,394	38,881	668,394	3,790,000	3,790,000	5,000,000	5,000,000		6,550,000	
ENDING BALANCE	0	0	38,881	38,881	0	0	3,790,000	0	5,000,000	0	0	6,550,000	0

Description: Expansion Project. Phase 1: 1st Street to 4th Street, Phase 2: 4th Street to South 16th Street, Phase 3: South 16th street to S35th Street, Phase 4: South 35th Street to South 60th Street. Phases may be constructed out of order to meet service requirements. This project increases the capacity of the West Des Moines Outfall and provides service to new areas.

Justification:

As service is provided to new customers the capacity of the sewer must be increased.

Scheduling:

Phase 1: Design F04, Construction F04. Phase 2: Design F08, Construction F08. Phase 3: Design F10, Construction F10. Phase 4 Design F15, Construction F15.

Relationship to General Plan and Other Projects:

This project is included in the WRA Facility Plan Update.

Operating Budget Effect:

Revenues and operations and maintenance costs will increase as flows increase.

Fiscal 2007/Fiscal 2012 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE				ACCOUNT					
Wastewater Reclamation Authority Improvements				WRF Small Capital Projects FY05 and past				AG267 WRA990000 WRA083					
	TOTAL ESTIMATED COST	COST THROUGH F04	ACTUAL COST IN F05	COST THROUGH F05	REVISED BUDGET F06	ESTIMATED COST THROUGH F06	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F12
							F07	F08	F09	F10	F11	F12	
Expenses	2,780,567	723,767	304,077	1,027,844	1,752,723	2,780,567							
Beginning Balance					1,172,723								
Interest Earnings	48,567	14,374	34,193	48,567		48,567							
Repair and Replacement Fund			(580,000)	(580,000)	580,000								
Communities	2,732,000	1,882,000	850,000	2,732,000		2,732,000							
SRF Drawdowns													
Bond Proceeds													
Other													
Total Resources	2,780,567	1,896,374	304,193	2,200,567	1,752,723	2,780,567							
ENDING BALANCE	0	1,172,607	116	1,172,723	0	0	0	0	0	0	0	0	0

Description:

This project provides for certain modifications and additions to the Wastewater Reclamation Facility to improve the operations and maintenance aspects of certain equipment and processes and to provide safety improvements. Improvements for this FY include Primary effluent clarifier launder modifications, Bar Screen Discharge modifications, lighting modifications, centrifuge valve modifications, laboratory door automation, W3 extension and unanticipated needs for process and safety modifications.

Justification:

These modifications are necessary to reduce operating and maintenance costs and facilitate a safer working environment at the WRF.

Scheduling:

Relationship to General Plan and Other Projects:

Operating Budget Effect:

Fiscal 2007/Fiscal 2012 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE				ACCOUNT					
Wastewater Reclamation Authority Improvements				WRF Emission Reduction				AG267 WRA990000 WRA084					
	TOTAL ESTIMATED COST	COST THROUGH F04	ACTUAL COST IN F05	COST THROUGH F05	REVISED BUDGET F06	ESTIMATED COST THROUGH F06	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F12
							F07	F08	F09	F10	F11	F12	
Expenses	6,692,782	38,025	439,989	478,014	6,214,768	6,692,782							
Beginning Balance					4,865,986								
Interest Earnings	3,124	149	2,975	3,124		3,124							
Repair and Replacement Fund													
Communities	400,000	400,000		400,000		400,000							
SRF Drawdowns													
Bond Proceeds	6,289,658		6,289,658	6,289,658		6,289,658							
Other			(1,348,782)	(1,348,782)	1,348,782								
Total Resources	6,692,782	400,149	4,943,851	5,344,000	6,214,768	6,692,782							
ENDING BALANCE	0	362,124	4,503,862	4,865,986	0	0	0	0	0	0	0	0	0

Description: Core Project This project is for emission reduction at the WRF to comply with local, state and federal regulations. The study and design will be completed in F05. Construction of the facilities will begin in F06. Capital costs will include facilities to convey and reduce odorous emissions from certain processes at the WRF. Some control measures may take place in the conveyance system.

Justification:

The WRF must comply with regulations regarding emissions

Scheduling:

Design F05. Construction will be scheduled in F06.

Relationship to General Plan and Other Projects:

This project is included in the WRA Facility Plan Update.

Operating Budget Effect:

This project will increase the operating budget.

Fiscal 2007/Fiscal 2012 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
Wastewater Reclamation Authority Improvements				WRA Four Mile Interceptor Extension								AG267 WRA990000 WRA085	
	TOTAL ESTIMATED COST	COST THROUGH F04	ACTUAL COST IN F05	COST THROUGH F05	REVISED BUDGET F06	ESTIMATED COST THROUGH F06	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F12
							F07	F08	F09	F10	F11	F12	
Expenses	24,743,265	324,853	303,906	628,759	9,183,506	9,812,265	1,411,000					13,520,000	
Beginning Balance					9,183,506		1,411,000					13,520,000	
Interest Earnings													
Repair and Replacement Fund Communities		324,853	(324,853)										
SRF Drawdowns													
Bond Proceeds	24,743,265		9,812,265	9,812,265	1,411,000	11,223,265				13,520,000			
Other													
Total Resources	24,743,265	324,853	9,487,412	9,812,265	10,594,506	11,223,265	1,411,000			13,520,000		13,520,000	
ENDING BALANCE	0	0	9,183,506	9,183,506	1,411,000	1,411,000	0	0	0	13,520,000	0	0	0

Description: Expansion Project.

Phase 1: Broadway to NE 29th Street south of Oralabor Road.

Phase 2: NE 29th Street south of Oralabor Road to Southeast Waster Pollution Control Plant north of Magazine Road and Williams Street to Broadway.

Justification:

This project is necessary to provide service to the City of Ankeny.

Scheduling:

Phase 1: Design-F04/05, Construction-F05/06. Phase 2: Design-F10, Construction-F10.

Relationship to General Plan and Other Projects:

The Four Mile Interceptor Improvements will provide a full size downstream connection for this facility. This project is included in the WRA Facility Plan Update.

Operating Budget Effect:

Revenues and operations and maintenance costs will increase.

Fiscal 2007/Fiscal 2012 Capital Improvements Program

PROJECT CATEGORY		PROJECT TITLE										ACCOUNT	
Wastewater Reclamation Authority Improvements					Des Moines River Outfall							AG267 WRA990000 WRA086	
	TOTAL ESTIMATED COST	COST THROUGH F04	ACTUAL COST IN F05	COST THROUGH F05	REVISED BUDGET F06	ESTIMATED COST THROUGH F06	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F12
							F07	F08	F09	F10	F11	F12	
Expenses	45,183,192	909,831	2,613,989	3,523,820	6,401,906	9,925,726	5,979,763	5,563,012		3,542,627	10,340,824		9,831,240
Beginning Balance					6,150,688		5,879,763	6,563,012		3,542,627	10,340,824		
Interest Earnings													
Repair and Replacement Fund Communities		909,831	(909,831)		1,000,000	1,000,000		(1,000,000)					
SRF Drawdowns													
Bond Proceeds	45,183,192		8,325,726	8,325,726	6,479,763	14,805,489	6,663,012		3,542,627	10,340,824			9,831,240
Other / Loan			1,348,782	1,348,782	(1,348,782)								
Total Resources	45,183,192	909,831	8,764,677	9,674,508	12,281,669	15,805,489	12,542,775	5,563,012	3,542,627	13,883,451	10,340,824		9,831,240
ENDING BALANCE	0	0	6,150,688	6,150,688	5,879,763	5,879,763	6,563,012	0	3,542,627	10,340,824	0	0	0

Description: Core Project.

This project provides for construction of a large outfall sewer along the west side of the Des Moines River from 3rd Street and Watson Powell Drive to south of Elm Street and along the east side of the Des Moines River from Raccoon Street to the south side of Scott Avenue, a river crossing from the west side to the east side of the Des Moines River, and a new combined sewer overflow structure with a pump station. This will help to meet the nine minimum requirements in the current NPDES permit. Phase 4 will include solids separation. Funds expended prior to F05 will be reimbursed by the WRA.

Justification:

This project is included in the long term control plan presented to the IDNR.

Scheduling:

Phase 1: Design-F04, Construction F04/05. Phase 2: Design-F05, Construction-F06. Phase 3: Design F06, Construction-F07. Phase 4: Design-F07, Construction-F08.

Relationship to General Plan and Other Projects:

This project is included in the WRA Facility Plan Update.

Operating Budget Effect:

None.

Fiscal 2007/Fiscal 2012 Capital Improvements Program

PROJECT CATEGORY			PROJECT TITLE									ACCOUNT	
Wastewater Reclamation Authority Improvements			East 20th Street Connector									AG267 WRA990000 WRA087	
	TOTAL ESTIMATED COST	COST THROUGH F04	ACTUAL COST IN F05	COST THROUGH F05	REVISED BUDGET F06	ESTIMATED COST THROUGH F06	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F12
							F07	F08	F09	F10	F11	F12	
Expenses	13,802,805	301,817	4,827,483	5,129,300	1,160,796	6,290,096							7,512,709
Beginning Balance					1,160,796								
Interest Earnings													
Repair and Replacement Fund Communities		301,817	(301,817)										
SRF Drawdowns													
Bond Proceeds	13,802,805		6,290,096	6,290,096		6,290,096							7,512,709
Other													
Total Resources	13,802,805	301,817	5,988,279	6,290,096	1,160,796	6,290,096							7,512,709
ENDING BALANCE	0	0	1,160,796	1,160,796	0	0	0	0	0	0	0	0	0

Description: Core Project.
 This project provides for construction of approximately 7,000 feet of 66-inch and 3,100 feet of 36-inch sanitary trunk sewer in the area from East 20th Street, north of Dean Avenue to the Wastewater Reclamation Facility at Southeast 30th Street and Vandalia Road. This will direct separate sanitary sewer flow from the East 20th Street Interceptor to the Wastewater Reclamation Authority, which should reduce basement backups in the Logan area and the amount and frequency of discharges from the combined sewer overflows.

Justification:
 Needed to conform to NPDES requirements and reduce wet weather events at the WRF.

Scheduling:
 Design-F04, Construction-F05/06.

Relationship to General Plan and Other Projects:
 This project is included in the WRA Facility Plan Update.

Operating Budget Effect:
 Will reduce wet weather flows at the wastewater reclamation facility.

Fiscal 2007/Fiscal 2012 Capital Improvements Program

PROJECT CATEGORY		PROJECT TITLE										ACCOUNT	
Wastewater Reclamation Authority Improvements		Ingersoll Run Combined Sewer										AG267 WRA990000 WRA088	
	TOTAL ESTIMATED COST	COST THROUGH F04	ACTUAL COST IN F05	COST THROUGH F05	REVISED BUDGET F06	ESTIMATED COST THROUGH F06	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F12
							F07	F08	F09	F10	F11	F12	
Expenses	2,500,000	11,511	78,413	89,924	2,410,076	2,500,000							
Beginning Balance					2,006,629		400,000						
Interest Earnings													
Repair and Replacement Fund Communities		11,511	(11,511)		400,000	400,000	(400,000)						
SRF Drawdowns													
Bond Proceeds	2,500,000		2,096,553	2,096,553	403,447	2,500,000							
Other													
Total Resources	2,500,000	11,511	2,085,042	2,096,553	2,810,076	2,900,000							
ENDING BALANCE	0	0	2,006,629	2,006,629	400,000	400,000	0	0	0	0	0	0	0

Description: Core Project.
 This project provides for the relocation of a combined sewer overflow in the 2100 block of High Street in the Ingersoll Run Combined Sewer System. This will provide adequate sewer capacity in this reach of the combined sewer system to eventually eliminate the combined sewer overflow in the area of Eighth Street and Keo Way to help meet the minimum requirements included in the current NPDES permit, which was issued to the City of Des Moines in December of 2001.

Justification:
 Needed to conform to NPDES requirements.

Scheduling:
 Design-F06, Construction-F07.

Relationship to General Plan and Other Projects:
 This project is included in the WRA Facility Plan Update.

Operating Budget Effect:
 None.

Fiscal 2007/Fiscal 2012 Capital Improvements Program

PROJECT CATEGORY		PROJECT TITLE										ACCOUNT	
Wastewater Reclamation Authority Improvements		Little Four Mile Interceptor Extension										AG267 WRA990000 WRA089	
	TOTAL ESTIMATED COST	COST THROUGH F04	ACTUAL COST IN F05	COST THROUGH F05	REVISED BUDGET F06	ESTIMATED COST THROUGH F06	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F12
							F07	F08	F09	F10	F11	F12	
Expenses	2,673,314		85,996	85,996	2,587,318	2,673,314							
Beginning Balance					2,666,004								
Interest Earnings													
Repair and Replacement Fund Communities													
SRF Drawdowns													
Bond Proceeds	2,673,314		1,677,000	1,677,000	996,314	2,673,314							
Other			1,075,000	1,075,000	(1,075,000)								
Total Resources	2,673,314		2,752,000	2,752,000	2,587,318	2,673,314							
ENDING BALANCE	0	0	2,666,004	2,666,004	0	0	0	0	0	0	0	0	0

Description: Expansion Project.

This project will provide service to the Altoona Wastewater Treatment Plant. The project starts at the Little Four Mile Interceptor east of highway 65 and North of 27th Avenue and continues to the Altoona Wastewater Treatment Plant.

Justification:

This will provide the primary WRA connection for the City of Altoona.

Scheduling:

Design:F05, Construction:F06.

Relationship to General Plan and Other Projects:

This project is included in the WRA Facility Plan Update.

Operating Budget Effect:

Revenues and operations and maintenance costs will increase.

Fiscal 2007/Fiscal 2012 Capital Improvements Program

PROJECT CATEGORY		PROJECT TITLE										ACCOUNT	
Wastewater Reclamation Authority Improvements					Middle Creek Trunk Sewer Extension							AG267 WRA990000 WRA090	
	TOTAL ESTIMATED COST	COST THROUGH F04	ACTUAL COST IN F05	COST THROUGH F05	REVISED BUDGET F06	ESTIMATED COST THROUGH F06	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F12
							F07	F08	F09	F10	F11	F12	
Expenses	7,493,871		95,863	95,863	4,255,508	4,351,371			3,142,500				
Beginning Balance					4,532,082				3,142,500				
Interest Earnings													
Repair and Replacement Fund Communities													
SRF Drawdowns													
Bond Proceeds	7,493,871		2,374,000	2,374,000	1,977,371	4,351,371		3,142,500					
Other			2,253,945	2,253,945	(2,253,945)								
Total Resources	7,493,871		4,627,945	4,627,945	4,255,508	4,351,371		3,142,500	3,142,500				
ENDING BALANCE	0	0	4,532,082	4,532,082	0	0	0	3,142,500	0	0	0	0	0

Description: Expansion project.

Phase 1: This project extends service from the existing Southern Tier Interceptor east of Highway 28 to 50th Street in Warren County.

Phase 2: Extends WRA service west to the City of Cumming.

Justification:

This project will increase the service area for Norwalk and Cumming.

Scheduling:

Phase 1: Design, F05. Construction, F06.

Relationship to General Plan and Other Projects:

This project is included in the WRA Facility Plan Update.

Operating Budget Effect:

Revenues and operations and maintenance costs will increase.

Fiscal 2007/Fiscal 2012 Capital Improvements Program

PROJECT CATEGORY		PROJECT TITLE											ACCOUNT
Wastewater Reclamation Authority Improvements					WRF Small Capital Projects							AG267 WRA990000 WRA091	
	TOTAL ESTIMATED COST	COST THROUGH F04	ACTUAL COST IN F05	COST THROUGH F05	REVISED BUDGET F06	ESTIMATED COST THROUGH F06	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F12
							F07	F08	F09	F10	F11	F12	
Expenses	9,420,000				800,000	800,000	1,200,000	1,420,000	1,500,000	1,500,000	1,500,000	1,500,000	
Beginning Balance													
Interest Earnings													
Repair and Replacement Fund Communities	9,420,000				800,000	800,000	1,200,000	1,420,000	1,500,000	1,500,000	1,500,000	1,500,000	
SRF Drawdowns													
Bond Proceeds													
Other													
Total Resources	9,420,000				800,000	800,000	1,200,000	1,420,000	1,500,000	1,500,000	1,500,000	1,500,000	
ENDING BALANCE	0	0	0	0	0	0	0	0	0	0	0	0	0

Description:

This funds are utilized for process and safety improvements at the WRF and WRA facilities.

Justification:

These modifications are necessary to reduce operations and maintenance costs and facilitate a safer working environment.

Scheduling:

F06: Grinders for recirculation pumps; process cameras;roughing filter drive;pave levee road;redundant Ethernet; unanticipated needs.

F07: Asphalt road work at west end of plant;Bed B storage Shed;Electric Cart Storage Shed;Scum Valve Controllers;VFD's for PAB; Unanticipated Needs

Relationship to General Plan and Other Projects:

Operating Budget Effect:

Fiscal 2007/Fiscal 2012 Capital Improvements Program

PROJECT CATEGORY							PROJECT TITLE						ACCOUNT
Wastewater Reclamation Authority Improvements							West Des Moines Outfall Extension						AG267 WRA990000 WRA092
	TOTAL ESTIMATED COST	COST THROUGH F04	ACTUAL COST IN F05	COST THROUGH F05	REVISED BUDGET F06	ESTIMATED COST THROUGH F06	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F12
							F07	F08	F09	F10	F11	F12	
Expenses	8,597,522				1,017,522	1,017,522	3,380,000					4,200,000	
Beginning Balance					1,017,522		3,380,000					4,200,000	
Interest Earnings													
Repair and Replacement Fund Communities													
SRF Drawdowns													
Bond Proceeds	8,597,522		1,017,522	1,017,522	3,380,000	4,397,522				4,200,000			
Other													
Total Resources	8,597,522		1,017,522	1,017,522	4,397,522	4,397,522	3,380,000			4,200,000	4,200,000		
ENDING BALANCE	0	0	1,017,522	1,017,522	3,380,000	3,380,000	0	0	0	4,200,000	0	0	0

Description: Expansion Project.
 This project will increase the service area and capacity of the West Des Moines Outfall.
 Phase 1-60th Street to 74th Street.
 Phase 2-South 35th Street to 60th Street.
 Phase 3-74th Street to Interstate 80.

Justification:
 Development From 60th Street to 74th requires increasing the service area and capacity.

Scheduling:
 Phase 1: Design-F04, Construction-F04. Phase 2: Design-F07, Construction-F07. Phase 3: Design-F10, Construction-F10.

Relationship to General Plan and Other Projects:

This project is included in the WRA Facility Plan Update.

Operating Budget Effect:
 Revenues and operations and maintenance costs will increase as flows increase.

Fiscal 2007/Fiscal 2012 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT		
Wastewater Reclamation Authority Improvements				WRA Flow Monitoring System Improvements								AG267 WRA990000 WRA093		
	TOTAL ESTIMATED COST	COST THROUGH F04	ACTUAL COST IN F05	COST THROUGH F05	REVISED BUDGET F06	ESTIMATED COST THROUGH F06	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F12	
							F07	F08	F09	F10	F11	F12		
Expenses	6,911,747				400,000	400,000	1,000,000	5,511,747						
Beginning Balance							1,511,747	5,511,747						
Interest Earnings														
Repair and Replacement Fund Communities														
SRF Drawdowns														
Bond Proceeds	6,911,747				1,911,747	1,911,747	5,000,000							
Other														
Total Resources	6,911,747				1,911,747	1,911,747	6,511,747	5,511,747						
ENDING BALANCE	0	0	0	0	1,511,747	1,511,747	5,511,747	0	0	0	0	0	0	0

Description: Core Project. This project will upgrade the existing system and implement new meters for flow metering and real time operational control. Flow meters will be used for flow allocation to communities and for operating the collection system during wet weather events.

Justification:

Existing flow monitors will be in operation for fifteen years when replaced. New meters will be required as existing meters are not supported by the manufacturer.

Scheduling:

Replacement to begin in F06 and continue through F08.

This project is included in the WRA Facility Plan Update. Real time flow information will be required to operate the Southwest Outfall Diversion Facilities

Relationship to General Plan and Other Projects:

Operating Budget Effect:

None.

Fiscal 2007/Fiscal 2012 Capital Improvements Program

PROJECT CATEGORY		PROJECT TITLE										ACCOUNT	
Wastewater Reclamation Authority Improvements					WRA Asset Management							AG267	
												WRA990000	
												WRA094	
	TOTAL ESTIMATED COST	COST THROUGH F04	ACTUAL COST IN F05	COST THROUGH F05	REVISED BUDGET F06	ESTIMATED COST THROUGH F06	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F12
							F07	F08	F09	F10	F11	F12	
Expenses	288,500		206,983	206,983	81,517	288,500							
Beginning Balance					41,517								
Interest Earnings													
Repair and Replacement Fund													
Communities	288,500		248,500	248,500	40,000	288,500							
SRF Drawdowns													
Bond Proceeds													
Other													
Total Resources	288,500		248,500	248,500	81,517	288,500							
ENDING BALANCE	0	0	41,517	41,517	0	0	0	0	0	0	0	0	0

Description: Implementation of asset management for Wastewater Reclamation Authority assets. Phase 1 will implement asset management at the wastewater reclamation facility. Phase 2 will implement the collection system, pump stations and equalization facilities. The asset management will utilize an existing module within the Datastream software.

Justification:
This project will provide cost and replacement data for more effective management of WRA assets.

Scheduling:
Phase 1: F05, Phase 2: F06

Relationship to General Plan and Other Projects:
None.

Operating Budget Effect:
None.

Fiscal 2007/Fiscal 2012 Capital Improvements Program

PROJECT CATEGORY		PROJECT TITLE										ACCOUNT		
Wastewater Reclamation Authority Improvements		Little Four Mile Interceptor-South Branch										AG267 WRA990000 WRA095		
	TOTAL ESTIMATED COST	COST THROUGH F04	ACTUAL COST IN F05	COST THROUGH F05	REVISED BUDGET F06	ESTIMATED COST THROUGH F06	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F12	
							F07	F08	F09	F10	F11	F12		
Expenses	4,480,740		201,536	201,536	3,209,403	3,410,939	1,069,801							
Beginning Balance					3,106,741		1,069,801							
Interest Earnings														
Repair and Replacement Fu														
Communities														
SRF Drawdowns														
Bond Proceeds	4,480,740		2,370,462	2,370,462	2,110,278	4,480,740								
Other			937,815	937,815	(937,815)									
Total Resources	4,480,740		3,308,277	3,308,277	4,279,204	4,480,740	1,069,801							
ENDING BALANCE	0	0	3,106,741	3,106,741	1,069,801	1,069,801	0	0	0	0	0	0	0	0

Description: Expansion project.

This project will provide a connection to the Little Four Mile Interceptor near NE 27th Avenue on the east side of Highway 65. The sewer will extend easterly along a draw located northerly of the NE 27th Avenue corridor. The east end of the sewer will be located west of NE 80th Street. The Mud Creek sewer will start at the eastern terminus of the Little Four Mile Interceptor-South Branch.

Justification:

Required to provide capacity for the Mud Creek area in Altoona and as a connection to the Little Four Mile Sewer.

Scheduling:

Phase 1: Design-F05, Construction begins in F06.

Relationship to General Plan and Other Projects:

This project is included in the WRA Facility Plan Update.

Operating Budget Effect:

Revenues and expenses will increase as flows increase.

Fiscal 2007/Fiscal 2012 Capital Improvements Program

PROJECT CATEGORY		PROJECT TITLE										ACCOUNT	
Wastewater Reclamation Authority Improvements					WRA Transition Costs							AG267 WRA990000 WRA096	
	TOTAL ESTIMATED COST	COST THROUGH F04	ACTUAL COST IN F05	COST THROUGH F05	REVISED BUDGET F06	ESTIMATED COST THROUGH F06	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F12
							F07	F08	F09	F10	F11	F12	
Expenses	300,000	40,000	130,121	170,121	129,879	300,000							
Beginning Balance													
Interest Earnings													
Repair and Replacement Fund		40,000	130,121	170,121	(110,121)	60,000	(60,000)						
Communities	300,000				240,000	240,000	60,000						
SRF Drawdowns													
Bond Proceeds													
Other													
Total Resources	300,000	40,000	130,121	170,121	129,879	300,000							
ENDING BALANCE	0	0	0	0	0	0	0	0	0	0	0	0	0

Description:

Costs associated with property transfer to the Wastewater Reclamation Authority. These include all costs associated with transferring deeds, easements to the WRA and creating easements necessitated by the legal status change on July 1, 2004.

Justification:

The legal status of the WRA changed on July 1, 2004. The new status allows the WRA to own property. All past property interests held through the City of Des Moines and other communities must be transferred to the WRA.

Scheduling:

F05: Transfer of easements and WRF property. F06: Grant easement in public rights of way.

Relationship to General Plan and Other Projects:

Operating Budget Effect:

Fiscal 2007/Fiscal 2012 Capital Improvements Program

PROJECT CATEGORY		PROJECT TITLE										ACCOUNT	
Wastewater Reclamation Authority Improvements					Four Mile Interceptor Improvements							AG267	
												WRA990000	
												WRA0xx	
	TOTAL ESTIMATED COST	COST THROUGH F04	ACTUAL COST IN F05	COST THROUGH F05	REVISED BUDGET F06	ESTIMATED COST THROUGH F06	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F12
							F07	F08	F09	F10	F11	F12	
Expenses	19,310,000						1,500,000	470,000		9,740,000	7,600,000		
Beginning Balance							1,500,000	470,000		9,740,000	7,600,000		
Interest Earnings													
Repair and Replacement Fund													
Communities													
SRF Drawdowns													
Bond Proceeds	19,310,000				1,500,000	1,500,000	470,000		9,740,000	7,600,000			
Other													
Total Resources	19,310,000				1,500,000	1,500,000	1,970,000	470,000	9,740,000	17,340,000	7,600,000		
ENDING BALANCE	0	0	0	0	1,500,000	1,500,000	470,000	0	9,740,000	7,600,000	0	0	0

Description: Expansion Project.
 Construction of a 72" sanitary sewer from the WRF to Williams Street.

Justification:
 New communities contributing flow to the WRF will require that the capacity of the Four Mile Interceptor be increased.

Scheduling:
 Phase 1: Design-F08, Construction-F10. Phase 2: Design-F09, Construction-F11.

Relationship to General Plan and Other Projects:
 This project is included in the WRA Facility Plan Update. Phase 1 and 2 must be completed prior to completion of the Four Mile Interceptor Extension.

Operating Budget Effect:
 Revenues and operations and maintenance costs will increase.

Fiscal 2007/Fiscal 2012 Capital Improvements Program

PROJECT CATEGORY		PROJECT TITLE										ACCOUNT	
Wastewater Reclamation Authority Improvements					Combined Sewer Solids Separation							AG267	
WRA990000													
WRAXXX													
	TOTAL ESTIMATED COST	COST THROUGH F04	ACTUAL COST IN F05	COST THROUGH F05	REVISED BUDGET F06	ESTIMATED COST THROUGH F06	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F12
							F07	F08	F09	F10	F11	F12	
Expenses	39,855,755							3,894,108		17,713,134	18,248,513		
Beginning Balance								3,894,108		17,713,134	18,248,513		
Interest Earnings													
Repair and Replacement Fund Communities													
SRF Drawdowns													
Bond Proceeds	39,855,755						3,894,108		17,713,134	18,248,513			
Other													
Total Resources	39,855,755						3,894,108	3,894,108	17,713,134	35,961,647	18,248,513		
ENDING BALANCE	0	0	0	0	0	0	3,894,108	0	17,713,134	18,248,513	0	0	0

Description: Core Project

This project provides for separation and disinfection of wet weather combined sewer flow at the Wastewater Reclamation Facility. Flow will be discharged to the Des Moines River after primary treatment and disinfection.

Justification:

This project is included in the long term control plan presented to the IDNR.

Scheduling:

Design-F08 through F10, Construction F08 through F10.

Fiscal 2007/Fiscal 2012 Capital Improvements Program

Fiscal 2007/Fiscal 2012 Capital Improvements Program													
PROJECT CATEGORY							PROJECT TITLE					ACCOUNT	
Wastewater Reclamation Authority Improvements							Mud Creek Interceptor					AG267 WRA990000 WRAXXX	
	TOTAL ESTIMATED COST	COST THROUGH F04	ACTUAL COST IN F05	COST THROUGH F05	REVISED BUDGET F06	ESTIMATED COST THROUGH F06	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F12
							F07	F08	F09	F10	F11	F12	
Expenses	16,424,000												16,424,000
Beginning Balance													
Interest Earnings													
Repair and Replacement Fund Communities													
SRF Drawdowns													
Bond Proceeds	16,424,000											16,424,000	
Other													
Total Resources	16,424,000											16,424,000	
ENDING BALANCE	0	0	0	0	0	0	0	0	0	0	0	16,424,000	0

Description: Expansion project.

This project will provide service to the Mud Creek area in Altoona and eventually serve as the Bondurant connection to the WRA system.

Justification:

Required to provide capacity for the Mud Creek area in Altoona and as an outlet for Bondurant.

Scheduling:

Phase 1: Design-F13, Construction-F13/14.

Relationship to General Plan and Other Projects:

This project is included in the WRA Facility Plan Update.

Operating Budget Effect:

Revenues and expenses will increase as flows increase.

Fiscal 2007/Fiscal 2012 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
Wastewater Reclamation Authority Improvements				WRF Nutrient Removal								AG267 WRA990000 WRAXXX	
	TOTAL ESTIMATED COST	COST THROUGH F04	ACTUAL COST IN F05	COST THROUGH F05	REVISED BUDGET F06	ESTIMATED COST THROUGH F06	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F12
							F07	F08	F09	F10	F11	F12	
Expenses	25,824,409												25,824,409
Beginning Balance													
Interest Earnings													
Repair and Replacement Fun													
Communities													
SRF Drawdowns													
Bond Proceeds	25,824,409												25,824,409
Other													
Total Resources	25,824,409												25,824,409
ENDING BALANCE	0	0	0	0	0	0	0	0	0	0	0	0	0

Description: Core Project.

This project will involve removal of nutrients from the effluent as required by federal and state regulations.

Justification:

This project will be required to comply with federal regulations that limit the levels of nutrients(ammonia and phosphorous) in publicly owned treatment works effluent.

Scheduling:

As required by federal and state regulations .

Relationship to General Plan and Other Projects:

This project in included in the WRA Facility Plan Update.

Operating Budget Effect:

Operating and maintenance costs will increase with implementation of the facilities.