

## Summary

### Wastewater Reclamation Authority Improvements

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

	TOTAL ESTIMATED COST	COST THROUGH F08	REVISED ESTIMATE F09	TOTAL ESTIMATED COST THROUGH F09	COST FOR SIX-YEAR PERIOD	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F15
						F10	F11	F12	F13	F14	F15	
<b>Expenses</b> , detail on following page	498,763,694	83,731,499	45,969,738	129,701,237	281,391,048	97,652,548	87,446,076	39,476,216	41,104,450	8,287,323	7,424,435	87,671,409
<b>Resources:</b>												
Beginning Balance	0	0	54,156,583	0		47,506,591	106,768,492	37,606,666	33,379,450	4,000,000	(0)	0
Interest Earnings	1,444,496	259,220	435,276	694,496	750,000	125,000	125,000	125,000	125,000	125,000	125,000	0
Renewal & Replacement Fund	4,641,045	4,641,045	0	4,641,045	0	0	0	0	0	0	0	0
Communities	27,766,584	9,666,584	2,300,000	11,966,584	15,800,000	2,500,000	2,600,000	2,700,000	2,600,000	2,700,000	2,700,000	0
Future Funding	275,129,337	0	8,150,000	8,150,000	179,307,928	115,662,920	13,759,250	33,624,000	10,200,000	1,462,323	4,599,435	87,671,409
Bond Proceeds	89,653,658	92,653,658	(3,000,000)	89,653,658	0	0	0	0	0	0	0	0
SRF Drawdowns	99,896,799	30,549,270	31,321,000	61,870,270	38,026,529	38,626,529	1,800,000	(1,200,000)	(1,200,000)	0	0	0
Other	231,775	118,305	113,470	231,775	0	0	0	0	0	0	0	0
<b>Total Resources</b>	<b>498,763,694</b>	<b>137,888,082</b>	<b>93,476,329</b>	<b>177,207,828</b>	<b>233,884,457</b>	<b>204,421,040</b>	<b>125,052,742</b>	<b>72,855,666</b>	<b>45,104,450</b>	<b>8,287,323</b>	<b>7,424,435</b>	<b>87,671,409</b>

WASTEWATER RECLAMATION AUTHORITY  
 COMPARISON OF LAST YEAR AND CURRENT YEAR CIP SHEETS  
 FY2010

Capital Improvement Projects by Type of Funding

			[last year]	[this year]		
			Budget Amount for each project	Budget Amount for each project	Budget Amount for each project	Chg of Estimate
<u>Core Projects</u>			2009 BOOK	2009 FILE	2010 FILE	
wra 086	Des Moines River Outfall / Main Outfall	P 17	44,885,489	44,885,489	44,885,489	-
wra 087	East 20th St. Connector /closed	*	6,467,046	0		
wra 087	Combined Sewer Solids Separation Design	P 17	54,766,400	54,766,400	56,266,200	1,499,800
			106,118,935	99,651,889	101,151,689	
wra 088	Ingersoll Run Sewer	P 25	2,807,069	2,807,069	2,807,069	-
wra 080	Westside Basin Interceptor	P 4	5,413,068	5,413,068	7,113,347	1,700,279
wra 093	Flow Monitoring System		7,492,945	7,492,945	7,511,945	19,000
wra 084	Emission Reduction		6,692,782	6,692,782	6,692,782	-
wra 077	Power Generation System		5,922,374	5,922,374	7,097,197	1,174,823
wra 074	Digester Gas System		12,283,200	12,283,200	21,655,000	9,371,800
<b>Subtotal Core Projects</b>			<b>146,730,373</b>	<b>140,263,327</b>	<b>154,029,029</b>	<b>13,765,702</b>
<u>Expansion Projects</u>						
wra 085	Ankeny Four Mile Interceptor Ext.	P 24	19,539,761	19,539,761	18,832,617	(707,144)
wra 097	FourMi Interceptor Improv.	P 23	29,272,486	29,272,486	35,526,283	6,253,797
wra 095	Little Four Mile Int. South	P 15	4,517,716	4,517,716	4,407,716	(110,000)
wra 089	Little Four Mile Int. Ext.	P 15	2,788,214	2,788,214	2,788,214	-
wra 090	Middle Creek Trunk Sewer	P 20	7,656,018	7,656,018	7,461,268	(194,750)
wra 099	Mud Creek Interceptor	P 19	16,424,000	16,424,000	16,424,000	-
wra 082	WDM Outfall	P 13	19,491,790	19,491,790	17,911,891	(1,579,899)
wra 092	WDM Outfall Ext.	P 18	11,724,323	11,724,323	10,988,118	(736,205)
<b>Subtotal Expansion Projects</b>			<b>111,414,308</b>	<b>111,414,308</b>	<b>114,340,107</b>	<b>2,925,799</b>
wra 081	South West Area Diversion Facilities	P 22	80,373,684	80,373,684	80,373,684	-
wra 081	North River Interceptor included above	P 21				-
<b>South West Area Diversion Facilities</b>			<b>80,373,684</b>	<b>80,373,684</b>	<b>80,373,684</b>	<b>-</b>
<u>Future Projects (Core &amp; Expansion)</u>						
core	Nutrient Removal		33,338,242	33,338,242	33,338,242	-
core	Birdland Pump Stn		8,192,700	8,192,700	8,192,700	-
	Westside Supplemental Equalization Basin			0	17,200,000	17,200,000
	Additional Equalization Basin			0	10,200,000	10,200,000
expan	Common Trunk & Joint Trunk		24,828,971	24,828,971	24,828,971	-
expan	Southern Tier Improvements		22,811,496	22,811,496	24,311,496	1,500,000
<b>Subtotal Future Projects</b>			<b>89,171,409</b>	<b>89,171,409</b>	<b>118,071,409</b>	<b>28,900,000</b>
<b>Total Bonded Project Costs</b>			<b>427,689,774</b>	<b>421,222,728</b>	<b>466,814,229</b>	<b>45,591,501</b>
<u>Non-Bonded Projects</u>						
wra 069	Facilities Plan Update	^	1,083,620	483,000	831,534	348,534
wra 096	Transition Costs		430,000	430,000	438,034	8,034
wra 072	Aeration Blowers	*	1,173,011	0		
wra 076	Hauled Waste Receiving Station	*	6,375,264	0		
wra 074	Digester Gas /Microsludge & Pipeline	*	1,682,754	1,682,754	1,605,385	(77,369)
wra 070	Process Equipment Replacement	^	12,372,691	6,727,691	6,900,000	172,309
wra 078	Facilities Rehabilitation	^	2,984,103	1,584,103	1,406,082	(178,021)
wra 1xx	Equalization Basin Improvements			0	1,000,000	1,000,000
wra 083	Small CIP past projects	*	1,419,265	1,758,430	1,758,430	-
wra 100	Corridor Preservation		400,000	400,000	400,000	-
wra 091	Small CIP current projects	^	2,773,802	2,773,802	2,850,000	76,198
wra 098	Small CIP future projects & future ProcEqRep	^	4,000,000	12,045,000	14,760,000	2,715,000
<b>Total Non-Bonded Project Costs</b>			<b>34,694,510</b>	<b>27,884,780</b>	<b>31,949,465</b>	<b>4,064,685</b>
<b>WRA Total Expenses for Projects</b>			<b>462,384,284</b>	<b>449,107,508</b>	<b>498,763,694</b>	<b>49,656,186</b>
					498,763,694	SUMMARY TOTAL
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\* PROJECT CLOSED  
 ^ Project adjusted

**Wastewater Reclamation Authority  
CIP Spending by Project and Category**

WRA 2010

<u>Expenditures from CIP sheets</u>									subtotal
	2009	2010	2011	2012	2013	2014	2015		Spending
<u>WRA Projects - Expansion Category</u>									
85 P24	Four Mile Interceptor Ext.	\$ 327,290.0	\$ 557,648.0	\$ 8,001,136.0					\$ 8,886,074.0
97 P23	Four Mile Interceptor	1,430,413.0	15,698,280.0	15,136,992.0	2,970,766.0				35,236,451.0
89 P15	Little Four Mile Int. Ext. Seg 3	79,736.0							79,736.0
95 P15	Little Four Mile Int. South Seg 2	163,330.0							163,330.0
82 P13	WDM Outfall	5,667,764.0	4,426,145.0				4,599,435.0		14,693,344.0
92 P18	WDM Outfall Ext.	3,036,304.0	2,935,262.0						5,971,566.0
90 P20	Middle Creek Trunk Sewer	2,013,556.0							2,013,556.0
99 P19	Mud Creek					16,424,000.0			16,424,000.0
102	Additional Equalization Basin		50,000.0	150,000.0	1,000,000.0	5,000,000.0	4,000,000.0		10,200,000.0
100	Corridor Preservation	50,000.0	200,000.0	\$ 150,000.0					400,000.0
101	Southern Tier Improvements		4,500,000.0						4,500,000.0
		\$ 12,768,393.0	\$ 28,367,335.0	\$ 23,438,128.0	\$ 3,970,766.0	\$ 21,424,000.0	\$ 4,000,000.0	\$ 4,599,435.0	\$ 98,568,057.0

WRA Projects - SW Area Div. Category

81 P21,22	SW Area Diversion Project	\$ 17,767,373.0	\$ 26,470,741.0	\$ 20,753,130.0	\$ -	\$ -	\$ -	\$ -	\$ 64,991,244.0
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WRA Projects - Core Category

86 P17	DM River Outfall / Main Outfall	\$ 2,446,942.0	\$ 2,600,000.0	\$ 13,500,000.0	\$ 13,500,000.0	\$ 2,000,000.0			34,046,942.0
87 P17	CSSS Facility	2,621,299.0	17,765,300.0	17,265,000.0	11,180,450.0	\$ 6,955,450.0			55,787,499.0
88 P25	Ingersoll Run CSO	376,080.0							376,080.0
77 P1	Power Generation System	782,307.0	1,250,000.0			1,462,323.0			3,494,630.0
84 P1	Emission Reduction	736,752.0							736,752.0
74 P1	Digester Improvements	2,024,000.0	11,281,227.0	8,345,818.0					21,651,045.0
93 P25	Flow Monitoring Seg 3	1,167,608.0	5,692,945.0	419,000.0					7,279,553.0
102	Westside Suppl. Equalization Basin		200,000.0	1,000,000.0	8,000,000.0	8,000,000.0			17,200,000.0
80 P4	Westside Basin Interceptor Seg 2	150,000.0	1,250,000.0						1,400,000.0
		\$ 10,304,988.0	\$ 40,039,472.0	\$ 40,529,818.0	\$ 32,680,450.0	\$ 16,955,450.0	\$ 1,462,323.0	\$ -	\$ 141,972,501.0

2009	2010	2011	2012	2013	2014	2015
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WRA Plant Projects - Annual Community Contributions

69	Facility Plan update	\$ 90,000.0	\$ 90,000.0	\$ 90,000.0	\$ 90,000.0	\$ 90,000.0	\$ 90,000.0	\$ 90,000.0	630,000.0
70	Process Equipment Repl.	2,359,165.0							2,359,165.0
78	Facilities Rehabilitation	365,010.0	300,000.0						665,010.0
91	Small CIP	2,119,713.0	100,000.0						2,219,713.0
96	Transition Costs	195,096.0							195,096.0
98 +EqBsn	Community Funded Projects formerly SmCIP, Proc.Eq.Repl	-	2,285,000.0	\$ 2,635,000.0	\$ 2,735,000.0	\$ 2,635,000.0	\$ 2,735,000.0	\$ 2,735,000.0	15,760,000.0
		\$ 5,128,984.0	\$ 2,775,000.0	\$ 2,725,000.0	\$ 2,825,000.0	\$ 2,725,000.0	\$ 2,825,000.0	\$ 2,825,000.0	\$ 21,828,984.0
	Revised Estimate for F09	\$ 45,969,738.0							
	2010		\$ 97,652,548.0						
	2011			\$ 87,446,076.0					
	2012				\$ 39,476,216.0				
	2013					\$ 41,104,450.0			
	2014						\$ 8,287,323.0		
	2015							\$ 7,424,435.0	
	Summary of Costs, Six-Year-Period								\$ 281,391,048.0

WASTEWATER RECLAMATION AUTHORITY  
 CIP Funding by Project  
 FY2010

Capital Improvement Project Resources

Community Funded / Plant Projects		Funding Total for Six-Yr period	Use of R&R Interest Earnings						R&R Community Contributions					
			F10	F11	F12	F13	F14	F15	F10	F11	F12	F13	F14	F15
wra 069	Facilities Plan Update	540,000							90,000	90,000	90,000	90,000	90,000	90,000
wra 070	Process Equipment Repl. 2001-2009	-												
wra 078	Facilities Rehabilitator	250,000							250,000					
wra 098	Future Small projects & Proc. Eq. Repl.	14,760,000	125,000	125,000	125,000	125,000	125,000	125,000	1,960,000	2,110,000	2,210,000	2,510,000	2,610,000	2,610,000
wra 091	Small CIP projects 2006-2009	1,000,000							200,000	400,000	400,000			
wra 1xx	Equalization Basin Improvements	-												
	sum \$	750000												
	sum \$	15500000												
	sum Ttl	16250000												
	<b>Totals by Year</b>	<b>16,550,000</b>	<b>125,000</b>	<b>125,000</b>	<b>125,000</b>	<b>125,000</b>	<b>125,000</b>	<b>125,000</b>	<b>2,500,000</b>	<b>2,600,000</b>	<b>2,700,000</b>	<b>2,600,000</b>	<b>2,700,000</b>	<b>2,700,000</b>
		(300,000)												

Community Funded / Plant Projects		Funding Total past years	Renewal & Replacement Fund						R&R Community Contributions					
			F04 past	F05	F06	F07	F08	F09	F04 past	F05	F06	F07	F08	F09
wra 069	Facilities Plan Update	278,000							-	25,000	100,500	42,500	45,000	65,000
wra 096	Transition Costs	430,000									240,000	60,000	130,000	-
wra 070	Process Equipment Replacement	6,451,634	1,635,520	312,671							719,500	941,443	1,165,000	1,677,500
wra 078	Facilities Rehabilitator	1,066,788	72,913	132,267	103,923	7,685					200,000	300,000	-	250,000
wra 091	Small CIP projects 2006-2009	2,850,000									800,000	862,500	880,000	307,500
wra 074	Digester Gas System	552,754	162,754		390,000									
wra 076	Hwaste & Biobarn (closed)									896,773				
wra 077	Power Generation System	1,823,312	616,476			1,206,836								
wra 080	Westside Basin	23,141							23,141					
wra 084	Emission Reduction	400,000							400,000					
wra 083	Past Small CIP	2,732,000							1,882,000	850,000				
wra 094	Asset Mgmt System (closed)									248,500	40,000	(6,443)		
	sum \$	4641045												
	sum \$	11966584												
	sum Ttl	16607629												
	<b>Totals by Year</b>	<b>16,607,629</b>	<b>2,487,663</b>	<b>444,938</b>	<b>493,923</b>	<b>7,685</b>	<b>1,206,836</b>	<b>-</b>	<b>2,305,141</b>	<b>2,020,273</b>	<b>2,100,000</b>	<b>2,200,000</b>	<b>2,220,000</b>	<b>2,300,000</b>

WASTEWATER RECLAMATION AUTHORITY  
 CIP Funding by Project  
 FY2010

Capital Improvement Project Resources

	Funding Total thru F12	Future funding 2009-2012	SRF Funding Anticipated					Bond Issue Proceeds				
			F08	F09	F10	F11	F12	F04-F06	realloc	realloc	realloc	
<u>Core Projects</u>												
wra 086	DM River Outfall / Main Outfall	44,754,999	32,441,720	1,461,720		(1,461,720)			15,413,279		(3,100,000)	
wra 087	Combined Sewer Solids Separation Facility	56,266,200	55,716,200	3,600,000		(3,600,000)				550,000		
wra 084	Emission Reduction	6,289,658							6,289,658			
wra 093	Flow Monitoring System	7,511,945	3,350,000						1,511,945		2,650,000	
wra 088	Ingersoll Run Sewer	2,807,069							2,807,069			
wra 077	Power Generation System	3,730,721	1,462,323						2,918,398	(650,000)		
wra 074	Digester Improvements	21,655,000	21,555,000		3,205,000	(3,205,000)				100,000		
wra xx	Westside Suppl.Equalization Basin	17,200,000	17,200,000			1,200,000		(1,200,000)				
wra 080	Westside Basin Interceptor	7,089,658	1,250,000						5,389,658		450,000	
Subtotal Core Projects		167,305,250	132,975,243	5,061,720	3,205,000	(7,066,720)	-	(1,200,000)	34,330,007	-	-	-
<u>Expansion Projects</u>												
wra 085	Ankeny Four Mile Interceptor Ext.	18,804,688				8,456,700			10,247,988		100,000	
wra 097	FourMi Interceptor Improv.	35,526,283	1,000,000		8,800,000	23,400,000	600,000		1,526,283	(500,000)	700,000	
wra 095	Little Four Mile Int. South	4,407,716							6,517,716		(2,110,000)	
wra 089	Little Four Mile Int. Ext.	2,788,214							3,688,214		(900,000)	
wra 090	Middle Creek Trunk Sewer	7,461,268		2,735,250					5,726,018		(1,000,000)	
wra xx	Southern Tier Improvements	4,500,000	4,500,000								-	
wra 099	Mud Creek	16,424,000	16,424,000								-	
wra 100	Corridor Preservation	400,000	400,000								-	
wra xx	Additional Equalization Basin	11,400,000	10,200,000				1,200,000				-	
wra 082	WDM Outfall	17,907,829	4,599,435	3,774,000	8,316,000				668,394	500,000	50,000	
wra 092	WDM Outfall Ext.	10,909,453	3,800,000	2,623,500					4,325,953		160,000	
Subtotal Expansion Projects		130,529,451	40,923,435	9,132,750	17,116,000	31,856,700	1,800,000	-	32,700,566	-	(3,000,000)	-
wra 081	South West Area Diversion Facilities	80,373,684	13,559,250	16,354,800	11,000,000	13,836,549			25,623,085			
wra 081	South West Area Diversion Facilities	80,373,684	13,559,250	16,354,800	11,000,000	13,836,549	-	-	25,623,085	-	-	-
<b>Totals by Year</b>			<b>187,457,928</b>	<b>30,549,270</b>	<b>31,321,000</b>	<b>38,626,529</b>	<b>1,800,000</b>	<b>(1,200,000)</b>	<b>92,653,658</b>	<b>-</b>	<b>(3,000,000)</b>	<b>-</b>

## Fiscal 2010/Fiscal 2015 Capital Improvements Program

PROJECT CATEGORY							PROJECT TITLE						ACCOUNT
<b>Wastewater Reclamation Authority Improvements</b>							<b>WRA Facility Plan Update</b>						<b>AG267 WRA990000 WRA069</b>
	TOTAL ESTIMATED COST	COST THROUGH F07	ACTUAL COST IN F08	COST THROUGH F08	REVISED BUDGET F09	ESTIMATED COST THROUGH F09	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F15
							F10	F11	F12	F13	F14	F15	
Expenses	831,534	162,665	38,869	201,534	90,000	291,534	90,000	90,000	90,000	90,000	90,000	90,000	
Beginning Balance					19,896								
Interest Earnings	13,534		8,430	8,430	5,104	13,534							
Repair and Replacement Fund Communities	818,000	168,000	45,000	213,000	65,000	278,000	90,000	90,000	90,000	90,000	90,000	90,000	
Future Funding													
Bond Proceeds													
SRF Drawdowns													
Other													
Total Resources	831,534	168,000	53,430	221,430	90,000	291,534	90,000	90,000	90,000	90,000	90,000	90,000	
<b>ENDING BALANCE</b>	0	5,335	14,561	19,896	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 including cost updates and bond projections. Funding in F07 and beyond includes financial planning and bond council.

**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:**

**Operating Budget Effect:**

## Fiscal 2010/Fiscal 2015 Capital Improvements Program

PROJECT CATEGORY			PROJECT TITLE					ACCOUNT					
<b>Wastewater Reclamation Authority Improvements</b>			<b>WRF Process Equipment Replacement</b>					<b>AG267 WRA990000 WRA070</b>					
	TOTAL ESTIMATED COST	COST THROUGH F07	ACTUAL COST IN F08	COST THROUGH F08	REVISED BUDGET F09	ESTIMATED COST THROUGH F09	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F15
							F10	F11	F12	F13	F14	F15	
Expenses	6,900,000	3,248,393	1,292,442	4,540,835	2,359,165	6,900,000							
Beginning Balance					283,949								
Interest Earnings	375,010	12,470	38,180	50,650	324,360	375,010							
Repair and Replacement Fund	1,948,191	1,948,191		1,948,191		1,948,191							
Communities	4,503,443	1,660,943	1,165,000	2,825,943	1,677,500	4,503,443							
Future Funding													
Bond Proceeds													
SRF Drawdowns													
Other, SALE of Equip	73,356				73,356	73,356							
Total Resources	6,900,000	3,621,604	1,203,180	4,824,784	2,359,165	6,900,000							
<b>ENDING BALANCE</b>	0	373,211	(89,262)	283,949	0	0	0	0	0	0	0	0	0

**Description:**

Renewal and replacement of existing process equipment. These improvements will be shown on project WRA098 in F2010.

**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:**

**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

**F08:** Network replacement for process control system, Building 12 conveyors, Return sludge piping repairs.

**F09:** Rebuild Clarifier Drives, Replace Return sludge Lines Joints 45-1, Blast and recoat final clarifiers, Unanticipated needs.

**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 2010/Fiscal 2015 Capital Improvements Program

PROJECT CATEGORY			PROJECT TITLE						ACCOUNT				
<b>Wastewater Reclamation Authority Improvements</b>			<b>WRF Digester Gas Pipeline, Micro-Sludge [CLOSED]</b>						<b>AG267 WRA990000 WRA074</b>				
	TOTAL ESTIMATED COST	COST THROUGH F07	ACTUAL COST IN F08	COST THROUGH F08	REVISED BUDGET F09	ESTIMATED COST THROUGH F09	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F15
							F10	F11	F12	F13	F14	F15	
Expenses	1,605,385	1,464,574	140,811	1,605,385		1,605,385							
Beginning Balance													
Interest Earnings	30,494	13,250	17,244	30,494		30,494							
Repair and Replacement Fund Communities / from Small CIP	552,754	552,754		552,754		552,754							
Future Funding Bond Proceeds SRF Drawdowns Other / from Small CIP	1,022,137	850,000	172,137	1,022,137		1,022,137							
Total Resources	1,605,385	1,416,004	189,381	1,605,385		1,605,385							
<b>ENDING BALANCE</b>	0	(48,570)	48,570	0	0	0	0	0	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.

**Justification:**

Digester gas utilization provides for a reduction in operating costs.

**Scheduling:**

A project to replace the piping from the digesters to the power generation building was designed and constructed in F02 and F03.

**Relationship to General Plan and Other Projects:**

Funded with small CIP funds collected in prior budget year.

**Operating Budget Effect:**

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



## Fiscal 2010/Fiscal 2015 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
<b>Wastewater Reclamation Authority Improvements</b>				<b>WRF Facilities Rehabilitation</b>								<b>AG267 WRA990000 WRA078</b>	
	TOTAL ESTIMATED COST	COST THROUGH F07	ACTUAL COST IN F08	COST THROUGH F08	REVISED BUDGET F09	ESTIMATED COST THROUGH F09	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD					COST BEYOND F15	
							F10	F11	F12	F13	F14		F15
Expenses	1,406,082	678,318	62,754	741,072	365,010	1,106,082	300,000						
Beginning Balance					115,010		50,000						
Interest Earnings	89,294	18,000	21,294	39,294	50,000	89,294							
Repair and Replacement Fund	316,788	316,788		316,788		316,788							
Communities	1,000,000	500,000		500,000	250,000	750,000	250,000						
Future Funding													
Bond Proceeds													
SRF Drawdowns													
Other													
Total Resources	1,406,082	834,788	21,294	856,082	415,010	1,156,082	300,000						
<b>ENDING BALANCE</b>	0	156,470	(41,460)	115,010	50,000	50,000	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. These improvements will be shown in project WRA098 in F2010.

**Justification:**

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

**Scheduling:**

F08: Roof Replacement on Building 70, and HVAC Improvements.

F09: Roof Replacement on Building 35, HVAC Improvements, and stairwell improvements.

F10: HVAC Improvements and stairwell improvements.

**Relationship to General Plan and Other Projects:**

This project will receive up to \$50,000 of the interest earnings from the \$10,000,000 R&R balance, if needed each year. Remaining reserve interest will be available for small projects and equip. repl.

**Operating Budget Effect:**

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

## Fiscal 2010/Fiscal 2015 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT
<b>Wastewater Reclamation Authority Improvements</b>				<b>WRF Small Capital Projects FY05 and past [closed]</b>								<b>AG267 WRA990000 WRA083</b>
	TOTAL ESTIMATED COST	COST THROUGH F07	ACTUAL COST IN F08	COST THROUGH F08	REVISED BUDGET F09	ESTIMATED COST THROUGH F09	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD					COST BEYOND F15
							F10	F11	F12	F13	F14	
Expenses	1,758,430	1,419,265	339,165	1,758,430		1,758,430						
Beginning Balance												
Interest Earnings	48,567	48,567		48,567		48,567						
Repair and Replacement Fund Communities	2,732,000	2,732,000		2,732,000		2,732,000						
Future Funding												
Bond Proceeds												
SRF Drawdowns												
Other / to WRA074	(1,022,137)	(850,000)	(172,137)	(1,022,137)		(1,022,137)						
Total Resources	<b>1,758,430</b>	<b>1,930,567</b>	<b>(172,137)</b>	<b>1,758,430</b>		<b>1,758,430</b>						
<b>ENDING BALANCE</b>	<b>0</b>	<b>511,302</b>	<b>(511,302)</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**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 2010/Fiscal 2015 Capital Improvements Program

PROJECT CATEGORY							PROJECT TITLE						ACCOUNT
<b>Wastewater Reclamation Authority Improvements</b>							<b>WRF Small Capital Projects</b>						<b>AG267 WRA990000 WRA091</b>
	TOTAL ESTIMATED COST	COST THROUGH F07	ACTUAL COST IN F08	COST THROUGH F08	REVISED BUDGET F09	ESTIMATED COST THROUGH F09	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F15
							F10	F11	F12	F13	F14	F15	
Expenses	2,850,000	239,091	391,196	630,287	2,119,713	2,750,000	100,000						
Beginning Balance					1,912,213		50,000	(50,000)					
Interest Earnings													
Repair and Replacement Fund													
Communities	2,850,000	1,662,500	880,000	2,542,500	307,500	2,850,000							
Future Funding													
Bond Proceeds													
SRF Drawdowns													
Other / WRA100					(50,000)	(50,000)		50,000					
Total Resources	2,850,000	1,662,500	880,000	2,542,500	2,169,713	2,800,000	50,000						
<b>ENDING BALANCE</b>	0	1,423,409	488,804	1,912,213	50,000	50,000	(50,000)	0	0	0	0	0	0

**Description:**

This funds are utilized for process and safety improvements at the WRF and WRA facilities. These improvements will be shown in project WRA098 in F2010.

**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;Electric Cart Storage Shed;Scum Valve Controllers;VFD's for PAB; Unanticipated Needs

**F08:**Wireless system for operations control, Vehicle Storage Building.

**F09:**Automatic Lubrication, Bar Screen, Motor Modifications, W3 Valve, Utility drawings Update.

**Relationship to General Plan and Other Projects:**

Any funds advanced for corridor preservation will be returned to this project after the scheduled bond issue provides permanent funding.

**Operating Budget Effect:**

## Fiscal 2010/Fiscal 2015 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
<b>Wastewater Reclamation Authority Improvements</b>				<b>WRF Improvements</b>								<b>AG267 WRA990000 WRA098</b>	
	TOTAL ESTIMATED COST	COST THROUGH F07	ACTUAL COST IN F08	COST THROUGH F08	REVISED BUDGET F09	ESTIMATED COST THROUGH F09	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F15
							F10	F11	F12	F13	F14	F15	
Expenses	14,760,000						2,085,000	2,235,000	2,335,000	2,635,000	2,735,000	2,735,000	
Beginning Balance													
Interest Earnings	750,000						125,000	125,000	125,000	125,000	125,000	125,000	
Repair and Replacement Fund Communities	14,010,000						1,960,000	2,110,000	2,210,000	2,510,000	2,610,000	2,610,000	
Future Funding Bond Proceeds SRF Drawdowns Other													
Total Resources	14,760,000						2,085,000	2,235,000	2,335,000	2,635,000	2,735,000	2,735,000	
<b>ENDING BALANCE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0

**Description:**

Renewal and replacement of existing process equipment. Small plant projects and studies. HVAC replacement of existing 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.

**Scheduling:**

**F10:** Primary and final clarifier repairs, Server power replacement, PCS upgrade, Unanticipated needs.

**F11:** Rprimary and final clarifier repairs, Server virtualization, IP camera deployment, Unanticipated needs.

**F11+:** HVAC Improvements, stairwell improvements, and roof replacements, unanticipated needs.

**Relationship to General Plan and Other Projects:**

This project will be funded with interest earnings from R&R reserve fund and community contributions.

**Operating Budget Effect:**

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

## Fiscal 2010/Fiscal 2015 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT		
<b>Wastewater Reclamation Authority Improvements</b>				<b>WRF Digester Improvements</b>								<b>AG267 WRA990000 WRA074</b>		
	TOTAL ESTIMATED COST	COST THROUGH F07	ACTUAL COST IN F08	COST THROUGH F08	REVISED BUDGET F09	ESTIMATED COST THROUGH F09	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F15	
							F10	F11	F12	F13	F14	F15		
Expenses	21,655,000		3,955	3,955	2,024,000	2,027,955	11,281,227	8,345,818						
Beginning Balance					96,045		1,277,045	8,345,818	(0)	(0)	(0)	(0)		
Interest Earnings														
Repair and Replacement Fund														
Communities														
Future Funding	21,555,000						21,555,000							
Bond Proceeds	100,000		100,000	100,000		100,000								
SRF Drawdowns					3,205,000	3,205,000	(3,205,000)							
Other / from Small CIP														
Total Resources	21,655,000		100,000	100,000	3,301,045	3,305,000	19,627,045	8,345,818	(0)	(0)	(0)	(0)		
<b>ENDING BALANCE</b>	(0)	0	96,045	96,045	1,277,045	1,277,045	8,345,818	(0)	(0)	(0)	(0)	(0)	0	

**Description:**

F10 improvements will involve improving the mixing system, repairing or replacing 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 F09 with construction in F09 through F10. A study is being done in F08 to investigate a method of increasing gas production and reducing solids with the results used in the design of these improvements. Change in estimate F10: Exhibit 31 estimates brought current.

**Relationship to General Plan and Other Projects:**

Included in 28E bonding schedule. Fy08-09 P&D Loan for Design.

**Operating Budget Effect:**

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

## Fiscal 2010/Fiscal 2015 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT		
<b>Wastewater Reclamation Authority Improvements</b>				<b>WRF Power Generation System</b>								<b>AG267 WRA990000 WRA077</b>		
	TOTAL ESTIMATED COST	COST THROUGH F07	ACTUAL COST IN F08	COST THROUGH F08	REVISED BUDGET F09	ESTIMATED COST THROUGH F09	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F15	
							F10	F11	F12	F13	F14	F15		
Expenses	7,097,197	1,660,825	441,742	2,102,567	782,307	2,884,874	1,250,000					1,462,323		1,500,000
Beginning Balance					1,989,143		1,250,000							
Interest Earnings	43,164				43,164	43,164								
Repair and Replacement Fund Communities	1,823,312	616,476	1,206,836	1,823,312		1,823,312								
Future Funding	2,962,323											1,462,323		1,500,000
Bond Proceeds	2,268,398	2,918,398	(650,000)	2,268,398		2,268,398								
SRF Drawdowns														
Other														
Total Resources	7,097,197	3,534,874	556,836	4,091,710	2,032,307	4,134,874	1,250,000					1,462,323		1,500,000
<b>ENDING BALANCE</b>	0	1,874,049	115,094	1,989,143	1,250,000	1,250,000	0	0	0	0	0	0	0	0

**Description:**

F03 and F04 expenditures are for overhauling the engine drive system and replacing controls and heat recovery improvements. F09 cost are for overhauling one generator. F10 costs are for overhauling two generators.

F14 expenditure for engine rebuilds (anticipate every five years).

**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. A planned additional generator was not required because of the agreement with Cargill to purchase gas.

**Scheduling:**

Conduct a study in F01 with design in F03 and construction in F04-F05. F09 costs are for rebuilding one generator.

The completed study will provide more information on project implementation.

**Relationship to General Plan and Other Projects:**

F06 were included in the facility plan; F10 costs will be funded with bond issues from 2004/2006. Part of the costs prior to 2004 will now be funded with R&R money.

**Operating Budget Effect:**

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

## Fiscal 2010/Fiscal 2015 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
<b>Wastewater Reclamation Authority Improvements</b>				<b>WRA West Side Interceptor Basin</b>								<b>AG267 WRA990000 WRA080</b>	
	TOTAL ESTIMATED COST	COST THROUGH F07	ACTUAL COST IN F08	COST THROUGH F08	REVISED BUDGET F09	ESTIMATED COST THROUGH F09	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F15
							F10	F11	F12	F13	F14	F15	
Expenses	7,113,347	4,233,509	1,479,838	5,713,347	150,000	5,863,347	1,250,000						
Beginning Balance					(300,279)								
Interest Earnings	548	269		269	279	548							
Repair and Replacement Fund Communities /pre 7/1/04	23,141	23,141		23,141		23,141							
Future Funding	1,250,000						1,250,000						
Bond Proceeds	5,839,658	5,389,658		5,389,658	450,000	5,839,658							
SRF Drawdowns													
Other													
Total Resources	7,113,347	5,413,068		5,413,068	150,000	5,863,347	1,250,000						
<b>ENDING BALANCE</b>	0	1,179,559	(1,479,838)	(300,279)	0	0	0	0	0	0	0	0	0

**Description:**

**Core project.** The project will increase the capacity of the pump station from 20 mgd to 35 mgd and replace controls and associated equipment.

F09 Expenditure amount does not include costs for flood damage/replacements that will be FEMA reimbursed or funded with insurance.

F10 Expenditures are mitigation that will not be reimbursed by FEMA but will be required to protect the facility from flooding.

**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 F07 and F08.

F10 Improvements will provide increased flood protection around the equalization basin.

**Relationship to General Plan and Other Projects:**

This project is included in the WRA Facility Plan Update. Fund transfer in F06 is to WRA087; transfer F07 to WRA093; remaining funds can be transferred in F1 FOR FLOW MON

**Operating Budget Effect:**

Increase revenues and operations and maintenance costs.

## Fiscal 2010/Fiscal 2015 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
<b>Wastewater Reclamation Authority Improvements</b>				<b>Southwest Area Diversion Facilities Phase 21 and 22</b>								<b>AG267 WRA990000 WRA081</b>	
	TOTAL ESTIMATED COST	COST THROUGH F07	ACTUAL COST IN F08	COST THROUGH F08	REVISED BUDGET F09	ESTIMATED COST THROUGH F09	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD					COST BEYOND F15	
							F10	F11	F12	F13	F14		F15
Expenses	80,373,684	1,818,507	13,563,933	15,382,440	17,767,373	33,149,813	26,470,741	20,753,130					
Beginning Balance					26,595,445		19,828,072	7,193,880					
Interest Earnings													
Repair and Replacement Fund Communities													
Future Funding	13,559,250							13,559,250					
Bond Proceeds	25,623,085	25,623,085		25,623,085		25,623,085							
SRF Drawdowns Available	41,191,349		16,354,800	16,354,800	11,000,000	27,354,800	13,836,549						
Other / LOAN to WRA092													
Total Resources	80,373,684	25,623,085	16,354,800	41,977,885	37,595,445	52,977,885	33,664,621	20,753,130					
<b>ENDING BALANCE</b>	0	23,804,578	2,790,867	26,595,445	19,828,072	19,828,072	7,193,880	0	0	0	0	0	0

**Description: 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. Phase 21, segments 1 and 2, North River Interceptor will convey wastewater from the Norwalk wastewater treatment plant to the Southern Tier pump station. Phase 22, segments 1 through 6, will pump, convey, and store wastewater from the westside of the WRA service area.

**Justification:**

This project is necessary to provide flow equalization for the central and western WRA conveyance system.

**Scheduling:**

The time sensitive reach will be designed in F08 and constructed in F08/F09. The North River Interceptor will be constructed in F08, and F09. The diversion sewer will be will be constructed in F08, F09, and F10. The pump station, force main, flow equalization and interceptors will be constructed in F09, F10, and F11. Phase 21 - F08/09.

Phase 22, Segment 1 - F10, P22seg. 2 - F08/09, P22seg. 3 - F10

Phase 22, Segment 4 - F11, P22seg. 5 - F11, P22seg. 6 - F10/11

**Relationship to General Plan and Other Projects:**

This project is included in the WRA Facility Plan Update. Two thirds of these facilities support core communities and one third supports expansion communities.

**Operating Budget Effect:**

This project will increase revenues and operations and maintenance costs.



## Fiscal 2010/Fiscal 2015 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
<b>Wastewater Reclamation Authority Improvements</b>				<b>West Des Moines Outfall Phase13</b>								<b>AG267 WRA990000 WRA082</b>	
	TOTAL ESTIMATED COST	COST THROUGH F07	ACTUAL COST IN F08	COST THROUGH F08	REVISED BUDGET F09	ESTIMATED COST THROUGH F09	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD					COST FY2015	
							F10	F11	F12	F13	F14		F15
Expenses	17,911,891	717,613	2,500,934	3,218,547	5,667,764	8,886,311	4,426,145					4,599,435	
Beginning Balance					1,727,909		4,426,145						
Interest Earnings	4,062		4,062	4,062		4,062							
Repair and Replacement Fund Communities													
Future Funding	4,599,435											4,599,435	
Bond Proceeds	1,218,394	668,394	500,000	1,168,394	50,000	1,218,394							
SRF Drawdowns	12,090,000		3,774,000	3,774,000	8,316,000	12,090,000							
Other													
Total Resources	17,911,891	668,394	4,278,062	4,946,456	10,093,909	13,312,456	4,426,145					4,599,435	
<b>ENDING BALANCE</b>	0	(49,219)	1,777,128	1,727,909	4,426,145	4,426,145	0	0	0	0	0	0	0

**Description: Expansion Project.** This project increases the capacity of the West Des Moines Outfall and provides service to new areas including the city of Waukee. The project will provide a connection to the Southwest Area Diversion Facility at it's east terminus and a connection to the West Des Moines Outfall Extension on it's west terminus.

**Justification:**

As service is provided to new customers the capacity of the sewer must be increased. This project will serve West Des Moines and Waukee and is necessary to increase conveyance capacity.

**Scheduling:**

F04:Construction from s 1st Street to S4th Street;F07:Design of entire project from Southwest Area Diversion Facility to South 60th Street;F08:Construction from S33rd street to S60th Street;F10:Construction from Southwest Area Diversion Facility to South 16th Street; F15: Construction from South 16th Street to South 33rd Street.

**Relationship to General Plan and Other Projects:**

This project is included in the WRA Facility Plan Update. Bonding was scheduled for 2007,2010,2015. The amount for 2008 bond issue above is an increase over the 2007 prior amount.

**Operating Budget Effect:**

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

## Fiscal 2010/Fiscal 2015 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE							ACCOUNT		
<b>Wastewater Reclamation Authority Improvements</b>				<b>WRF Emission Reduction</b>							<b>AG267 WRA990000 WRA084</b>		
	TOTAL ESTIMATED COST	COST THROUGH F07	ACTUAL COST IN F08	COST THROUGH F08	REVISED BUDGET F09	ESTIMATED COST THROUGH F09	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F15
							F10	F11	F12	F13	F14	F15	
Expenses	6,692,782	4,764,847	1,191,183	5,956,030	736,752	6,692,782							
Beginning Balance					736,752								
Interest Earnings	3,124	3,124		3,124		3,124							
Repair and Replacement Fund Communities	400,000	400,000		400,000		400,000							
Future Funding Bond Proceeds	6,289,658	6,289,658		6,289,658		6,289,658							
SRF Drawdowns Other													
Total Resources	6,692,782	6,692,782		6,692,782	736,752	6,692,782							
<b>ENDING BALANCE</b>	0	1,927,935	(1,191,183)	736,752	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 was completed in F05. Construction of the Phase I facilities began in F06 and will be completed in F07. 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 in future years.

**Justification:**

The WRF must comply with regulations regarding emissions

**Scheduling:**

Design F05. Construction in F06, F07, F08 and F09.

**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 2010/Fiscal 2015 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE				ACCOUNT						
<b>Wastewater Reclamation Authority Improvements</b>				<b>WRA Four Mile Interceptor Extension Phase 24</b>				<b>AG267 WRA990000 WRA085</b>						
	TOTAL ESTIMATED COST	COST THROUGH F07	ACTUAL COST IN F08	COST THROUGH F08	REVISED BUDGET F09	ESTIMATED COST THROUGH F09	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F15	
							F10	F11	F12	F13	F14	F15		
Expenses	18,832,617	8,547,278	1,399,265	9,946,543	327,290	10,273,833	557,648	8,001,136						
Beginning Balance					301,445		102,084	8,001,136						
Interest Earnings														
Repair and Replacement Fund														
Communities														
Future Funding														
Bond Proceeds	10,347,988	10,247,988		10,247,988	100,000	10,347,988								
SRF Drawdowns	8,456,700						8,456,700							
Other / POLK CO.	27,929				27,929	27,929								
Total Resources	18,832,617	10,247,988		10,247,988	429,374	10,375,917	8,558,784	8,001,136						
<b>ENDING BALANCE</b>	0	1,700,710	(1,399,265)	301,445	102,084	102,084	8,001,136	0	0	0	0	0	0	0

**Description: Expansion Project.**

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

Segment 2: NE 29th Street south of Oralabor Road to Southeast Ankeny wastewater pollution control plant.

**Justification:**

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

**Scheduling:**

Segment 1&2: Design-F04/05, Construction-F05/06. Segment 3&4: Design-F09/10, Construction-F10/11.

**Relationship to General Plan and Other Projects:**

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

**Operating Budget Effect:**

Revenues and operations and maintenance costs will increase.

## Fiscal 2010/Fiscal 2015 Capital Improvements Program

PROJECT CATEGORY		PROJECT TITLE										ACCOUNT	
<b>Wastewater Reclamation Authority Improvements</b>		<b>Des Moines River Outfall / Main Outfall Phase 17</b>										<b>AG267 WRA990000 WRA086</b>	
	TOTAL ESTIMATED COST	COST THROUGH F07	ACTUAL COST IN F08	COST THROUGH F08	REVISED BUDGET F09	ESTIMATED COST THROUGH F09	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F15
							F10	F11	F12	F13	F14	F15	
Expenses	44,885,489	10,353,717	484,830	10,838,547	2,446,942	13,285,489	2,600,000	13,500,000	13,500,000	2,000,000			
Beginning Balance					6,154,757		620,000	29,000,000	15,500,000	2,000,000			
Interest Earnings													
Repair and Replacement Fund Communities													
Future Funding	32,441,720						32,441,720						
Bond Proceeds	12,313,279	15,413,279		15,413,279	(3,100,000)	12,313,279							
SRF Drawdowns			1,461,720	1,461,720		1,461,720	(1,461,720)						
Other / Utility credits	130,490		118,305	118,305	12,185	130,490							
Total Resources	44,885,489	15,413,279	1,580,025	16,993,304	3,066,942	13,905,489	31,600,000	29,000,000	15,500,000	2,000,000			
<b>ENDING BALANCE</b>	0	5,059,562	1,095,195	6,154,757	620,000	620,000	29,000,000	15,500,000	2,000,000	0	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. This will help to meet the nine minimum requirements in the current NPDES permit.

The Main Outfall project will begin at the newly constructed DM River Outfall sewer siphon structure and proceed east/southeasterly across the DM River and will continue in a southeasterly direction. It will replact the existing Main Outfall terminating upstream of the WRF at a proposed CSSS Facility (see WRA087).

**Justification:**

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

**Scheduling:**

Stage 1: Design-F04, Construction F04/05. Stage 2: Design-F05, Construction-F06/09.

Main Outfall Design: F08/09, Construction of six segments F10/13.

**Relationship to General Plan and Other Projects:**

This project is included in the WRA Facility Plan Update.

**Operating Budget Effect:**

None.

## Fiscal 2010/Fiscal 2015 Capital Improvements Program

PROJECT CATEGORY		PROJECT TITLE										ACCOUNT	
<b>Wastewater Reclamation Authority Improvements</b>		<b>Combined Sewer Solids Separation Facility Phase 17</b>										<b>AG267 WRA990000 WRA087</b>	
	TOTAL ESTIMATED COST	COST THROUGH F07	ACTUAL COST IN F08	COST THROUGH F08	REVISED BUDGET F09	ESTIMATED COST THROUGH F09	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F15
							F10	F11	F12	F13	F14	F15	
Expenses	56,266,200		478,701	478,701	2,621,299	3,100,000	17,765,300	17,265,000	11,180,450	6,955,450			
Beginning Balance					3,671,299		1,050,000	35,400,900	18,135,900	6,955,450			
Interest Earnings													
Repair and Replacement Fund Communities													
Future Funding	55,716,200						55,716,200						
Bond Proceeds	550,000		550,000	550,000		550,000							
SRF Drawdowns			3,600,000	3,600,000		3,600,000	(3,600,000)						
Other													
Total Resources	56,266,200		4,150,000	4,150,000	3,671,299	4,150,000	53,166,200	35,400,900	18,135,900	6,955,450			
<b>ENDING BALANCE</b>	0	0	3,671,299	3,671,299	1,050,000	1,050,000	35,400,900	18,135,900	6,955,450	0	0	0	0

**Description: Core Project.**

This project provides for solids separation 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 and will be required to meet the nine minimum requirements in the long term control plan.

**Scheduling:**

Design-F08 through F10, Construction F10 through F11.

**Relationship to General Plan and Other Projects:**

This project is included in the WRA Facility Plan Update.

**Operating Budget Effect:**

## Fiscal 2010/Fiscal 2015 Capital Improvements Program

PROJECT CATEGORY		PROJECT TITLE										ACCOUNT			
<b>Wastewater Reclamation Authority Improvements</b>					<b>Ingersoll Run Combined Sewer Overflow Phase 25</b>										<b>AG267 WRA990000 WRA088</b>
	TOTAL ESTIMATED COST	COST THROUGH F07	ACTUAL COST IN F08	COST THROUGH F08	REVISED BUDGET F09	ESTIMATED COST THROUGH F09	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F15		
							F10	F11	F12	F13	F14	F15			
Expenses	2,807,069	2,270,595	160,394	2,430,989	376,080	2,807,069									
Beginning Balance					376,080										
Interest Earnings															
Repair and Replacement Fund Communities															
Future Funding															
Bond Proceeds	2,807,069	2,807,069		2,807,069		2,807,069									
SRF Drawdowns															
Other															
Total Resources	2,807,069	2,807,069		2,807,069	376,080	2,807,069									
<b>ENDING BALANCE</b>	0	536,474	(160,394)	376,080	0	0	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.

**Justification:**

Needed to conform to NPDES requirements.

**Scheduling:**

Design-F06/F07, Construction-F07/F08.

**Relationship to General Plan and Other Projects:**

This project is included in the WRA Facility Plan Update.

**Operating Budget Effect:**

None.

## Fiscal 2010/Fiscal 2015 Capital Improvements Program

PROJECT CATEGORY							PROJECT TITLE						ACCOUNT
<b>Wastewater Reclamation Authority Improvements</b>							<b>Little Four Mile Interceptor Extension Phase 15</b>						<b>AG267 WRA990000 WRA089</b>
	TOTAL	COST	ACTUAL	COST	REVISED	ESTIMATED	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST
	ESTIMATED	THROUGH	COST IN	THROUGH	BUDGET	COST THROUGH							BEYOND
	COST	F07	F08	F08	F09	F09	F10	F11	F12	F13	F14	F15	F15
Expenses	2,788,214	2,575,872	132,606	2,708,478	79,736	2,788,214							
Beginning Balance					979,736								
Interest Earnings													
Repair and Replacement Fund													
Communities													
Future Funding													
Bond Proceeds	2,788,214	3,688,214		3,688,214	(900,000)	2,788,214							
SRF Drawdowns													
Other													
Total Resources	2,788,214	3,688,214		3,688,214	79,736	2,788,214							
<b>ENDING BALANCE</b>	0	1,112,342	(132,606)	979,736	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.

Altoona Equalization Basin Modifications - F09

**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 2010/Fiscal 2015 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
<b>Wastewater Reclamation Authority Improvements</b>				<b>Middle Creek Trunk Sewer Extension Phase 20</b>								<b>AG267 WRA990000 WRA090</b>	
	TOTAL ESTIMATED COST	COST THROUGH F07	ACTUAL COST IN F08	COST THROUGH F08	REVISED BUDGET F09	ESTIMATED COST THROUGH F09	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F15
							F10	F11	F12	F13	F14	F15	F15
Expenses	7,461,268	4,177,114	1,270,598	5,447,712	2,013,556	7,461,268							
Beginning Balance					3,013,556								
Interest Earnings													
Repair and Replacement Fund Communities													
Future Funding													
Bond Proceeds	4,726,018	5,726,018		5,726,018	(1,000,000)	4,726,018							
SRF Drawdowns	2,735,250		2,735,250	2,735,250		2,735,250							
Other													
Total Resources	<b>7,461,268</b>	<b>5,726,018</b>	<b>2,735,250</b>	<b>8,461,268</b>	<b>2,013,556</b>	<b>7,461,268</b>							
<b>ENDING BALANCE</b>	0	1,548,904	1,464,652	3,013,556	0	0	0	0	0	0	0	0	0

**Description: Expansion project.**

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

Segment 2/3: Extends WRA service west to the cities of Cumming and West Des Moines.

**Justification:**

This project will increase the service area for Norwalk, Cumming, and West Des Moines.

**Scheduling:**

Segment 1: Design, F05. Construction, F06/F07.

Segment 2: Design F07(28E). Construction, F08/F09.

**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 2010/Fiscal 2015 Capital Improvements Program

PROJECT CATEGORY							PROJECT TITLE						ACCOUNT
<b>Wastewater Reclamation Authority Improvements</b>							<b>West Des Moines Outfall Extension Phase 18</b>						<b>AG267 WRA990000 WRA092</b>
	TOTAL ESTIMATED COST	COST THROUGH F07	ACTUAL COST IN F08	COST THROUGH F08	REVISED BUDGET F09	ESTIMATED COST THROUGH F09	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F15
							F10	F11	F12	F13	F14	F15	
Expenses	10,988,118	4,552,856	463,696	5,016,552	3,036,304	8,052,856	2,935,262						
Beginning Balance					1,999,197		2,935,262						
Interest Earnings	78,665	66,296		66,296	12,369	78,665							
Repair and Replacement Fund Communities													
Future Funding	3,800,000				3,800,000	3,800,000							
Bond Proceeds	4,485,953	4,325,953		4,325,953	160,000	4,485,953							
SRF Drawdowns	2,623,500		2,623,500	2,623,500		2,623,500							
Other													
Total Resources	10,988,118	4,392,249	2,623,500	7,015,749	5,971,566	10,988,118	2,935,262						
<b>ENDING BALANCE</b>	0	(160,607)	2,159,804	1,999,197	2,935,262	2,935,262	0	0	0	0	0	0	0

**Description: Expansion Project.**

This project will increase the service area and capacity of the West Des Moines Outfall.  
 Segment 1-South 60th Street to South 74th Street. Segment 2- South 74th Street to Sugar Creek.  
 Segment 3 -Sugar Creek to Booneville Road. Segment 4 -Booneville Road to Mills Civic Parkway.  
 Segment 5 -Mills Civic Parkway to I-80

**Justification:**

This project will provide service to the cities of West Des Moines and Waukee.

**Scheduling:**

Segment 1: Design-F05, Construction-F06/F07. Segment 2,3,4: Design-F07. Segment 2: Construction-F07. Segment 3: Construction-F07. Segment 4: Construction F07/F08.  
 Segment 5: Design-F07.F08, Construction F08/F09.

**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 2010/Fiscal 2015 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT		
<b>Wastewater Reclamation Authority Improvements</b>				<b>WRA Flow Monitoring System Improvements</b>								<b>AG267 WRA990000 WRA093</b>		
	TOTAL ESTIMATED COST	COST THROUGH F07	ACTUAL COST IN F08	COST THROUGH F08	REVISED BUDGET F09	ESTIMATED COST THROUGH F09	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F15	
							F10	F11	F12	F13	F14	F15		
Expenses	7,511,945	14,635	217,757	232,392	1,167,608	1,400,000	5,692,945	419,000						
Beginning Balance					1,279,553		6,111,945	419,000						
Interest Earnings														
Repair and Replacement Fund														
Communities														
Future Funding	3,350,000				3,350,000	3,350,000								
Bond Proceeds	4,161,945	1,511,945		1,511,945	2,650,000	4,161,945								
SRF Drawdowns														
Other														
Total Resources	7,511,945	1,511,945		1,511,945	7,279,553	7,511,945	6,111,945	419,000						
<b>ENDING BALANCE</b>	0	1,497,310	(217,757)	1,279,553	6,111,945	6,111,945	419,000	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:**

Design in F08/09, Replacement to begin in F09 and continue through F10.

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 2010/Fiscal 2015 Capital Improvements Program

PROJECT CATEGORY		PROJECT TITLE										ACCOUNT	
<b>Wastewater Reclamation Authority Improvements</b>		<b>Little Four Mile Interceptor-South Branch Phase 15</b>										<b>AG267 WRA990000 WRA095</b>	
	TOTAL ESTIMATED COST	COST THROUGH F07	ACTUAL COST IN F08	COST THROUGH F08	REVISED BUDGET F09	ESTIMATED COST THROUGH F09	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F15
							F10	F11	F12	F13	F14	F15	
Expenses	4,407,716	4,244,386		4,244,386	163,330	4,407,716							
Beginning Balance					2,273,330								
Interest Earnings													
Repair and Replacement Fund													
Communities													
Future Funding													
Bond Proceeds	4,407,716	6,517,716		6,517,716	(2,110,000)	4,407,716							
SRF Drawdowns													
Other / SW Borrowing													
Total Resources	4,407,716	6,517,716		6,517,716	163,330	4,407,716							
<b>ENDING BALANCE</b>	0	2,273,330	0	2,273,330	0	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 2010/Fiscal 2015 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE							ACCOUNT		
<b>Wastewater Reclamation Authority Improvements</b>				<b>WRA Transition Costs</b>							<b>AG267 WRA990000 WRA096</b>		
	TOTAL ESTIMATED COST	COST THROUGH F07	ACTUAL COST IN F08	COST THROUGH F08	REVISED BUDGET F09	ESTIMATED COST THROUGH F09	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD					COST BEYOND F15	
							F10	F11	F12	F13	F14	F15	
Expenses	438,034	233,683	9,255	242,938	195,096	438,034							
Beginning Balance					195,096								
Interest Earnings	8,034	6,749	1,285	8,034		8,034							
Repair and Replacement Fund Communities	430,000	430,000		430,000		430,000							
Future Funding													
Bond Proceeds													
SRF Drawdowns													
Other													
Total Resources	438,034	436,749	1,285	438,034	195,096	438,034							
<b>ENDING BALANCE</b>	0	203,066	(7,970)	195,096	0	0	0	0	0	0	0	0	0

**Description: Core Project.**

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/F07/F08: Grant easement in public rights of way.

**Relationship to General Plan and Other Projects:**

**Operating Budget Effect:**

**Fiscal 2010/Fiscal 2015 Capital Improvements Program**

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
<b>Wastewater Reclamation Authority Improvements</b>				<b>Four Mile Interceptor Improvements Phase 23</b>								<b>AG267 WRA990000 WRA097</b>	
	TOTAL ESTIMATED COST	COST THROUGH F07	ACTUAL COST IN F08	COST THROUGH F08	REVISED BUDGET F09	ESTIMATED COST THROUGH F09	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F15
							F10	F11	F12	F13	F14	F15	
Expenses	35,526,283		289,832	289,832	1,430,413	1,720,245	15,698,280	15,136,992	2,970,766				
Beginning Balance					736,451		9,806,038	17,507,758	2,970,766				
Interest Earnings													
Repair and Replacement Fund Communities													
Future Funding	1,000,000				1,000,000	1,000,000							
Bond Proceeds	1,726,283	1,526,283	(500,000)	1,026,283	700,000	1,726,283							
SRF Drawdowns	32,800,000				8,800,000	8,800,000	23,400,000	600,000					
Other													
Total Resources	35,526,283	1,526,283	(500,000)	1,026,283	11,236,451	11,526,283	33,206,038	18,107,758	2,970,766				
<b>ENDING BALANCE</b>	0	1,526,283	(789,832)	736,451	9,806,038	9,806,038	17,507,758	2,970,766	0	0	0	0	0

**Description: Expansion Project.**

Construction of a 72" sanitary sewer from the WRF to NE Broadway Avenue.

Segment 1: WRF to Scott Avenue. Segment 2: Scott Ave. to University Ave.

Segment 3: University Avenue to Easton Blvd. Segment 4: Easton Boulevard to Hubbell Ave.

Segment 5: Hubbell Avenue to NE Broadway Avenue.

**Justification:**

This project will convey flow from Ankeny and Altoona to the WRF.

**Scheduling:**

Segment 1: Design-F08, Construction-F09/F10. Segment 2&3: Design-F08/F09, Construction-F10. Segment 4&5: Design-F09, Construction F10/F11.

**Relationship to General Plan and Other Projects:**

This project is included in the WRA Facility Plan Update and must be completed prior to completion of the Four Mile Interceptor Extension (Phase 24).

**Operating Budget Effect:**

Revenues and operations and maintenance costs will increase.

### Fiscal 2010/Fiscal 2015 Capital Improvements Program

PROJECT CATEGORY							PROJECT TITLE						ACCOUNT
<b>Wastewater Reclamation Authority Improvements</b>							<b>Mud Creek Interceptor P 19</b>						<b>AG267 WRA990000 WRA099</b>
	TOTAL ESTIMATED COST	COST THROUGH F07	ACTUAL COST IN F08	COST THROUGH F08	REVISED BUDGET F09	ESTIMATED COST THROUGH F09	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F15
							F10	F11	F12	F13	F14	F15	F15
Expenses	16,424,000									16,424,000			
Beginning Balance										16,424,000			
Interest Earnings													
Repair and Replacement Fund Communities													
Future Funding	16,424,000								16,424,000				
Bond Proceeds													
SRF Drawdowns													
Other													
Total Resources	16,424,000								16,424,000	16,424,000			
<b>ENDING BALANCE</b>	0	0	0	0	0	0	0	0	16,424,000	0	0	0	0

**Description: Expansion project.**  
 This project will provide service to the Mud Creek area in Altoona and 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-F08 started under 28E expedite, Construction-F13/14.

**Relationship to General Plan and Other Projects:**  
 This project is included in the WRA Facility Plan Update. 28E bond schedule was March 2012. Construction in early FY13.

**Operating Budget Effect:**  
 Revenues and expenses will increase as flows increase.

**Fiscal 2010/Fiscal 2015 Capital Improvements Program**

Fiscal 2010/Fiscal 2015 Capital Improvements Program													
PROJECT CATEGORY						PROJECT TITLE						ACCOUNT	
Wastewater Reclamation Authority Improvements						WRA Corridor Preservation						AG267 WRA990000 WRA100	
	TOTAL	COST	ACTUAL	COST	REVISED	ESTIMATED	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST
	ESTIMATED	THROUGH	COST IN	THROUGH	BUDGET	COST THROUGH	F10	F11	F12	F13	F14	F15	BEYOND
	COST	F07	F08	F08	F09	F09							F15
Expenses	400,000				50,000	50,000	200,000	150,000					
Beginning Balance													
Interest Earnings													
Repair and Replacement Fund													
Communities													
Future Funding	400,000						200,000	200,000					
Bond Proceeds													
SRF Drawdowns													
Other / Small CIP					50,000	50,000		(50,000)					
Total Resources	400,000				50,000	50,000	200,000	150,000					
<b>ENDING BALANCE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0

**Description: Expansion project.**

Funds collected for Small CIP will be temporarily used to purchase easements and/or land needed to preserve right-of-way for future sewer projects that are scheduled in the facility plan in a future bond issue with construction after F09.

**Justification:**

Land acquisition in advance of projects will be required to reduce future costs and provide corridor preservation.

**Scheduling:**

**Relationship to General Plan and Other Projects:**

Reimbursement from bonded project will be needed for any advance use of funds under this project number.

**Operating Budget Effect:**

## Fiscal 2010/Fiscal 2015 Capital Improvements Program

PROJECT CATEGORY							PROJECT TITLE						ACCOUNT
<b>Wastewater Reclamation Authority Improvements</b>							<b>WRA Westside Supplemental Equalization Basin Phase 5 Segment 5</b>						<b>AG267 WRA990000 WRAxxx</b>
	TOTAL ESTIMATED COST	COST THROUGH F07	ACTUAL COST IN F08	COST THROUGH F08	REVISED BUDGET F09	ESTIMATED COST THROUGH F09	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F15
							F10	F11	F12	F13	F14	F15	
Expenses	17,200,000						200,000	1,000,000	8,000,000	8,000,000			
Beginning Balance								1,000,000		8,000,000			
Interest Earnings													
Repair and Replacement Fund													
Communities													
Future Funding	17,200,000								17,200,000				
Bond Proceeds													
SRF Drawdowns							1,200,000		(1,200,000)				
Other, SALE of Equip													
Total Resources	17,200,000						1,200,000	1,000,000	16,000,000	8,000,000			
<b>ENDING BALANCE</b>	0	0	0	0	0	0	1,000,000	0	8,000,000	0	0	0	0

**Description:**

A supplemental equalization basin will be constructed near the current Westside Basin to handle additional flows from the western area of WRA's conveyance system.

**Justification:**

**Scheduling:**

Study: F10, Design: F11, Construction to begin in F12 and continue through F13.

**Relationship to General Plan and Other Projects:**

These improvements are not in the 2004 Facility Update.

Study and Design can be funded from an SRF P&D loan.

**Operating Budget Effect:**

This project will be needed to reduce the load from the western area on the conveyance system.



## Fiscal 2010/Fiscal 2015 Capital Improvements Program

PROJECT CATEGORY							PROJECT TITLE						ACCOUNT
<b>Wastewater Reclamation Authority Improvements</b>							<b>WRA Equalization Basin Improvements</b>						<b>AG267 WRA990000 WRAxxx</b>
	TOTAL ESTIMATED COST	COST THROUGH F07	ACTUAL COST IN F08	COST THROUGH F08	REVISED BUDGET F09	ESTIMATED COST THROUGH F09	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F15
							F10	F11	F12	F13	F14	F15	
Expenses	1,000,000						200,000	400,000	400,000				
Beginning Balance													
Interest Earnings													
Repair and Replacement Fund													
Communities	1,000,000						200,000	400,000	400,000				
Future Funding													
Bond Proceeds													
SRF Drawdowns													
Other, SALE of Equip													
Total Resources	1,000,000						200,000	400,000	400,000				
<b>ENDING BALANCE</b>	0	0	0	0	0	0	0	0	0	0	0	0	

**Description:**

Improvements/Modifications/Abandonment of existing WRA equalization basins.

**Justification:**

An equalization utilization study was done in F09 indicating a benefit to WRA conveyance system would be achieved by utilizing Beaver Creek and Area C equalization basins.

**Scheduling:**

Improvements in AreaC: F10/11

Improvements in Beaver Creek: F11/12

Abandonment of Highland Hills: F12

**Relationship to General Plan and Other Projects:**

These improvements will be funded from community contributions collected annually for R&R.

**Operating Budget Effect:**

## Fiscal 2010/Fiscal 2015 Capital Improvements Program

PROJECT CATEGORY							PROJECT TITLE						ACCOUNT
<b>Wastewater Reclamation Authority Improvements</b>							<b>WRA Southern Tier Improvements</b>						<b>AG267 WRA990000 WRAXXX</b>
	TOTAL ESTIMATED COST	COST THROUGH F07	ACTUAL COST IN F08	COST THROUGH F08	REVISED BUDGET F09	ESTIMATED COST THROUGH F09	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST FY2018
							F10	F11	F12	F13	F14	F15	
Expenses	24,311,496						4,500,000						19,811,496
Beginning Balance													
Interest Earnings													
Repair and Replacement Fund Communities													
Future Funding	24,311,496						4,500,000						19,811,496
Bond Proceeds													
SRF Drawdowns													
Other													
Total Resources	24,311,496						4,500,000						19,811,496
<b>ENDING BALANCE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0

**Description: Expansion Project.**

This project will increase the capacity of the Southern Tier Interceptor. Improvements in F10 will increase the high lift capacity of the pump station and provide a pump station at the AreaC equalization facility.

**Justification:**

**Scheduling:**

This project is scheduled to begin F18 with additional needs now scheduled for next year.

**Relationship to General Plan and Other Projects:**

This project is included in the WRA Facility Plan Update and Ex31 March 2018 & March 2020.

**Operating Budget Effect:**

## Fiscal 2010/Fiscal 2015 Capital Improvements Program

PROJECT CATEGORY							PROJECT TITLE						ACCOUNT
<b>Wastewater Reclamation Authority Improvements</b>							<b>WRA Saylor Equalization Basin - additional basin in the north</b>						<b>AG267 WRA990000 WRAxxx</b>
	TOTAL ESTIMATED COST	COST THROUGH F07	ACTUAL COST IN F08	COST THROUGH F08	REVISED BUDGET F09	ESTIMATED COST THROUGH F09	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F15
							F10	F11	F12	F13	F14	F15	
Expenses	10,200,000						50,000	150,000	1,000,000	5,000,000	4,000,000		
Beginning Balance								(50,000)	1,000,000		4,000,000		
Interest Earnings													
Repair and Replacement Fund													
Communities													
Future Funding	10,200,000									10,200,000			
Bond Proceeds													
SRF Drawdowns								1,200,000		(1,200,000)			
Other, SALE of Equip													
Total Resources	10,200,000							1,150,000	1,000,000	9,000,000	4,000,000		
<b>ENDING BALANCE</b>	0	0	0	0	0	0	(50,000)	1,000,000	0	4,000,000	0	0	0

**Description:**

An additional equalization basin will be needed in the north to handle additional development and growth in the Saylor watershed.

**Justification:**

**Scheduling:**

Study: F10/10, Design: F11/12, Construction to begin in F13.

**Relationship to General Plan and Other Projects:**

These improvements are not in the 2004 Facility Update.

Study and Design can be funded from an SRF P&D loan.

**Operating Budget Effect:**

This project will be needed to reduce surcharges on the conveyance system.

## Fiscal 2010/Fiscal 2015 Capital Improvements Program

PROJECT CATEGORY					PROJECT TITLE								ACCOUNT
<b>Wastewater Reclamation Authority Improvements</b>					<b>WRF Nutrient Removal P 1</b>								<b>AG267 WRA990000 WRAXXX</b>
	TOTAL ESTIMATED COST	COST THROUGH F07	ACTUAL COST IN F08	COST THROUGH F08	REVISED BUDGET F09	ESTIMATED COST THROUGH F09	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST FY2020
							F10	F11	F12	F13	F14	F15	
Expenses	33,338,242												33,338,242
Beginning Balance													
Interest Earnings													
Repair and Replacement Fund													
Communities													
Future Funding	33,338,242												33,338,242
Bond Proceeds													
SRF Drawdowns													
Other													
Total Resources	33,338,242												33,338,242
<b>ENDING BALANCE</b>	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. This project is scheduled for F20.

**Relationship to General Plan and Other Projects:**

This project is included in the WRA Facility Plan Update. 28E bond schedule was March 2012 but this Project has been pushed back to 2020.

**Operating Budget Effect:**

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

## Fiscal 2010/Fiscal 2015 Capital Improvements Program

PROJECT CATEGORY					PROJECT TITLE								ACCOUNT
<b>Wastewater Reclamation Authority Improvements</b>					<b>WRA Common Trunk</b>								<b>AG267 WRA990000 WRAXXX</b>
	TOTAL ESTIMATED COST	COST THROUGH F07	ACTUAL COST IN F08	COST THROUGH F08	REVISED BUDGET F09	ESTIMATED COST THROUGH F09	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST
							F10	F11	F12	F13	F14	F15	FY2020
Expenses	9,262,840												9,262,840
Beginning Balance													
Interest Earnings													
Repair and Replacement Fund Communities	9,262,840												9,262,840
Future Funding													
Bond Proceeds													
SRF Drawdowns													
Other													
Total Resources	9,262,840												9,262,840
<b>ENDING BALANCE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0

**Description: Expansion Project.**

This project will increase the capacity of the WRA common trunk.

**Justification:**

**Scheduling:**

This project is scheduled for F20.

**Relationship to General Plan and Other Projects:**

This project is included in the WRA Facility Plan Update and Ex31 March 2018.

**Operating Budget Effect:**

## Fiscal 2010/Fiscal 2015 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
<b>Wastewater Reclamation Authority Improvements</b>				<b>WRA Clive / USSD Joint Trunk</b>								<b>AG267 WRA990000 WRAXXX</b>	
	TOTAL ESTIMATED COST	COST THROUGH F07	ACTUAL COST IN F08	COST THROUGH F08	REVISED BUDGET F09	ESTIMATED COST THROUGH F09	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST
							F10	F11	F12	F13	F14	F15	FY2020
Expenses	15,566,131												15,566,131
Beginning Balance													
Interest Earnings													
Repair and Replacement Fund Communities													
Future Funding	15,566,131												15,566,131
Bond Proceeds													
SRF Drawdowns													
Other													
Total Resources	15,566,131												15,566,131
<b>ENDING BALANCE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0

**Description: Expansion Project.**

This project will increase the capacity of the Clive/USSD joint trunk.

**Justification:**

**Scheduling:**

This project is scheduled for F20.

**Relationship to General Plan and Other Projects:**

This project is included in the WRA Facility Plan Update and Ex31March 2020.

**Operating Budget Effect:**

## Fiscal 2010/Fiscal 2015 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
<b>Wastewater Reclamation Authority Improvements</b>				<b>WRA Birdland Pump Station</b>								<b>AG267 WRA990000 WRAXXX</b>	
	TOTAL ESTIMATED COST	COST THROUGH F07	ACTUAL COST IN F08	COST THROUGH F08	REVISED BUDGET F09	ESTIMATED COST THROUGH F09	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST FY2021
							F10	F11	F12	F13	F14	F15	
Expenses	8,192,700												8,192,700
Beginning Balance													
Interest Earnings													
Repair and Replacement Fund													
Communities													
Future Funding	8,192,700												8,192,700
Bond Proceeds													
SRF Drawdowns													
Other													
Total Resources	8,192,700												8,192,700
<b>ENDING BALANCE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0

**Description: Core Project.**

This project will eliminate the overflow at the birdland pump station. A feasibility study will need to be done in F18/F19.

**Justification:**

**Scheduling:**

This project is scheduled for F21.

**Relationship to General Plan and Other Projects:**

This project is included in the WRA Facility Plan Update and Ex31 March 2020.

**Operating Budget Effect:**