

Des Moines Metropolitan Wastewater Reclamation Authority

2013+ Capital Improvements Program



Summary

Wastewater Reclamation Authority Improvements FY2013+

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

	TOTAL ESTIMATED COST	COST THROUGH F11	REVISED ESTIMATE F12	TOTAL ESTIMATED COST THROUGH	COST FOR SIX-YEAR PERIOD	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F18
						F13	F14	F15	F16	F17	F18	
Expenses, detail on following page	502,974,363	184,169,561	86,463,875	270,633,436	138,607,584	90,274,487	26,038,097	6,160,000	9,345,000	3,170,000	3,620,000	93,733,343
Resources:												
Beginning Balance	0	0	76,412,120	0		52,845,134	(3,672,490)	3,000,000	0	325,000	325,000	0
Interest Earnings	3,701,477	3,533,846	77,658	3,611,504	89,973	9,973	10,000	10,000	20,000	20,000	20,000	0
Renewal & Replacement Fund	3,298,491	3,298,491	0	3,298,491	0	0	0	0	0	0	0	0
Communities	35,504,977	14,057,702	2,822,275	16,879,977	18,625,000	3,300,000	3,200,000	3,000,000	3,000,000	3,000,000	3,125,000	0
Future Funding	87,704,106	0	1,472,176	1,472,176	12,498,587	475,000	5,523,587	0	6,500,000	0	0	73,733,343
Bond Proceeds	71,687,052	71,687,052	0	71,687,052	0	0	0	0	0	0	0	0
SRF Drawdowns	268,740,385	164,729,565	56,799,780	221,529,345	47,211,040	29,589,040	17,622,000	0	0	0	0	0
Other	32,337,875	3,275,025	1,725,000	5,000,025	7,337,850	382,850	6,355,000	150,000	150,000	150,000	150,000	20,000,000
Total Resources	502,974,363	260,581,681	139,309,009	323,478,570	85,762,450	86,601,997	29,038,097	6,160,000	9,670,000	3,495,000	3,620,000	93,733,343

WASTEWATER RECLAMATION AUTHORITY
 COMPARISON OF LAST YEAR AND CURRENT YEAR CIP SHEETS
 FY2013-2018 6 Yr Plan

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
Core Projects			Past Amount	2012 BOOK	2013 FILE	
wra 086	DM River Outfall / New Main Outfall	P 17	47,502,119	47,502,119	52,739,875	5,237,756
wra 087	East 20th St. Connector	*	6,467,046			
wra 087	Combined Sewer Solids Separation Design	P 17	52,316,995	52,316,995	53,426,995	1,110,000
			106,286,160	99,819,114	106,166,870	
wra 088	Ingersoll Run Sewer	P 25	2,707,069	2,707,069	2,597,954	(109,115)
wra 080	Westside Basin Interceptor	P 4	6,648,068	6,648,068	6,328,068	(320,000)
wra 093	Flow Monitoring System		5,946,782	5,946,782	6,743,433	796,651
wra 084	Emission Reduction	*	6,039,734			
wra 077	Power Generation System		4,225,052	4,225,052	4,700,052	475,000
wra 074	Digester Gas System		24,315,000	24,315,000	24,315,000	-
wra 104	Equalization Basin Improvements (I-Jobs)		1,336,450	1,336,450	1,736,450	400,000
Subtotal Core Projects			157,504,315	144,997,535	152,587,827	7,590,292
Expansion Projects						
wra 085	Ankeny Four Mile Interceptor Ext.	P 24	20,790,917	20,790,917	20,750,917	(40,000)
wra 097	FourMi Interceptor Improv.	P 23	29,081,865	29,081,865	27,133,564	(1,948,301)
wra 095	Little Four Mile Int. South p15	*	4,265,631			
wra 089	Little Four Mile Int. Ext. P15	*	2,720,978			
wra 090	Middle Creek Trunk Sewer P20	*	7,449,522			
wra 099	Mud Creek Interceptor	P 19	19,422,436	19,422,436	19,422,436	-
wra 100	Corridor Preservation		400,000	400,000	400,000	-
wra 082	WDM Outfall	P 13	17,628,594	17,628,594	17,194,984	(433,610)
wra 092	WDM Outfall Ext.	P 18	10,998,042	10,998,042	9,826,629	(1,171,413)
Subtotal Expansion Projects			112,757,985	98,321,854	94,728,530	(3,593,324)
wra 081	South West Area Diversion Facilities	P 22	85,986,885	85,986,885	94,874,885	8,888,000
wra 103a	Southern Tier Improvements for SW Area Div	P 10	12,710,400	12,710,400	15,548,290	2,837,890
South West Area Diversion Facilities			98,697,285	98,697,285	110,423,175	11,725,890
Future Projects (Core, Expansion, Other)						
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	-
wra 102	Westside Supplemental Equalization Basin	com	17,200,000	17,200,000	0	(17,200,000)
wra 101	Additional Equalization Basin Northwest	bine	10,200,000	10,200,000	20,000,000	9,800,000
core	WRF Flood Mitigation (I-Jobs)	new		0	7,300,000	7,300,000
core	Ankeny Equalization Basin Northeast	new		0	6,500,000	6,500,000
expan	Common Trunk & Joint Trunk		24,828,971	24,828,971	24,828,971	-
wra 103b	Southern Tier Improvements Western (expansion)		10,373,430	10,373,430	7,373,430	(3,000,000)
Subtotal Future Projects			104,133,343	104,133,343	107,533,343	3,400,000
Total Project Costs (Bonded and Basins)			473,092,928	446,150,017	465,272,875	19,122,858
less closed projects (87/95) above			-10,732,677			
Non-Bonded / Plant & System Projects						
wra 069	Facilities Plan Update		1,035,640	1,035,640	1,579,010	543,370
wra 096	Transition / RE Transfer Costs (see note below)		440,000	440,000	440,000	-
wra 078	Facilities Rehabilitation, including RE purchases		2,566,788	2,566,788	3,061,788	495,000
wra 083	Sewer Maintenance contract work		700,000	700,000	1,100,000	400,000
wra xxx	WRF Energy Efficiency projects (I-Jobs)	new		0	316,450	316,450
wra 070	Process Equipment Replmt 2004-2009		6,903,475	6,903,475	6,890,105	(13,370)
wra 091	Small CIP prior projects & Studies		3,000,000	3,000,000	2,305,000	(695,000)
wra 098	Small CIP projects & ProcEqRepl. 2010-2012		4,582,360	4,582,360	7,109,135	2,526,775
wra 098a	Small CIP projects & ProcEqRepl. 2013-2014		4,545,000	4,545,000	7,755,000	3,210,000
wra 1xx	Small CIP future projects & future (three years)		10,030,000	10,030,000	7,145,000	(2,885,000)
Total Non-Bonded Project Costs			33,803,263	33,803,263	37,701,488	3,898,225
WRA Total Expenses for Projects			496,163,514	479,953,280	502,974,363	23,021,083

RE = Real Estate (after 2004 WRA listed as title holder)

* PROJECT CLOSED

502,974,363 SUMMARY TOTAL

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

WRA 2013

<u>Expenditures from CIP sheets</u>	2012	2013	2014	2015	2016	2017	2018	subtotal Spending
<u>WRA Projects - Expansion Category</u>								
85 Ph 24 Four Mile Interceptor Ext.	\$ 1,701,002.0	\$ 608,035.0						\$ 2,309,037.0
97 Ph 23 Four Mile Interceptor	1,467,461.0							1,467,461.0
82 Ph 13 WDM Outfall	3,979,855.0	921,025.0						4,900,880.0
92 Ph 18 WDM Outfall Ext.	2,945,500.0							2,945,500.0
99 Ph 19 Mud Creek	4,109,791.0	11,721,625.0	3,580,910.0					19,412,326.0
100 Corridor Preservation	192,660.0	\$ 50,000.0						242,660.0
103 b Southern Tier Improvements								-
Expansion Funding Ttl	\$ 14,396,269.0	\$ 13,300,685.0	\$ 3,580,910.0	\$ -	\$ -	\$ -	\$ -	\$ 31,277,864.0
<u>WRA Projects - SW Area Div. Category</u>								
81 P21,22 SW Area Diversion Project	16,508,751.0	\$ 24,224,000.0	\$ 3,115,000.0					43,847,751.0
103 a Southern Tier for SW ADF	6,058,746.0	\$ 7,242,900.0	\$ 2,184,900.0					15,486,546.0
SW Area Funding Ttl	\$ 22,567,497.0	\$ 31,466,900.0	\$ 5,299,900.0	\$ -	\$ -	\$ -	\$ -	\$ 59,334,297.0
<u>WRA Projects - Core Category</u>								
86 Ph 17 DM River Outfall / Main Outfall	\$ 13,659,422.0	\$ 19,860,800.0	\$ 3,208,300.0					36,728,522.0
87 Ph 17 CSSS Facility	19,117,280.0	15,519,200.0	5,062,000.0					39,698,480.0
88 Ph 25 Ingersoll Run CSO	15,243.0	15,000.0						30,243.0
74 Ph 1 Digester Improvements	8,798,381.0	3,994,400.0	1,215,400.0					14,008,181.0
93 Ph 25 Flow Monitoring Seg 3	1,303,665.0							1,303,665.0
Flood Mitigation at WRF (grant funded)		300,000.0	4,000,000.0	3,000,000.0				7,300,000.0
Ankeny Equalization Basin Improv					6,500,000.0			6,500,000.0
104 I Jobs Equalization Basin Improvements	1,313,028.0		\$ 311,587.0					1,624,615.0
101 * Additional Equalization Basin North								-
80 P4 Westside Basin Interceptor Seg 2	74,996.0							74,996.0
	\$ 44,282,015.0	\$ 39,689,400.0	\$ 13,797,287.0	\$ 3,000,000.0	\$ 6,500,000.0	\$ -	\$ -	\$ 107,268,702.0

	2012	2013	2014	2015	2016	2017	2018	
<u>WRA Plant Projects - Annual Community Contributions</u>								
69 Facility Plan update	\$ 188,141.0	\$ 260,000.0	\$ 150,000.0	\$ 125,000.0	\$ 125,000.0	\$ 125,000.0	\$ 125,000.0	1,098,141.0
70 Process Equipment Repl. (see 98)	-							-
78 Facilities Rehabilitation	457,897.0	250,000.0	250,000.0	200,000.0	200,000.0	200,000.0	200,000.0	1,757,897.0
77 Power Generation System	400,000.0	600,000.0				325,000.0	650,000.0	1,975,000.0
79 Special Projects (grant funded)	150,000.0							150,000.0
83 Sewer Maintenance Contracts	159,672.0	150,000.0	150,000.0	150,000.0	150,000.0	150,000.0	150,000.0	1,059,672.0
91 Small CIP & Studies	367,277.0	125,000.0	50,000.0	40,000.0	30,000.0	30,000.0	30,000.0	672,277.0
96 Transition Costs	99,341.0	\$ 80,000.0						179,341.0
98 Plant Projects, including Eq. Repl.	3,395,766.0	\$ 4,352,502.0	\$ 2,760,000.0	\$ 2,645,000.0	\$ 2,340,000.0	\$ 2,340,000.0	\$ 2,465,000.0	20,298,268.0
	\$ 5,218,094.0	\$ 5,817,502.0	\$ 3,360,000.0	\$ 3,160,000.0	\$ 2,845,000.0	\$ 3,170,000.0	\$ 3,620,000.0	\$ 27,190,596.0
Revised Estimate for F12	\$ 86,463,875.0							
	2013	\$ 90,274,487.0						
	2014		\$ 26,038,097.0					
	2015			\$ 6,160,000.0				
	2016				\$ 9,345,000.0			
	2017					\$ 3,170,000.0		
	2018						\$ 3,620,000.0	
Summary of Costs, Six-Year-Period								\$ 138,607,584.0

* 101 The construction of an EQ basin in the north is not anticipated until after January 1, 2024.

List of WRA Projects / Numerical

Project Number	Project ID	Project Name	Funding	Page #
WRA069		Facility Plan Update - WRA	annual contrib	7
WRA070		Process Equipment Replacement [thru 2009]	annual contrib	11
WRA074		Digester Improvements - WRF	Core Bond Funds	12
WRA077		Power Generation System	annual contrib	13
WRA078		Facilities Rehabilitation - WRF	annual contrib	14
WRA079		Special Projects (using Grant money)	I-Jobs	15-16
WRA080		West Side Interceptor Basin	Core Bond Funds	17
WRA081	Phase 21,22	SouthWest Area Diversion Facilities	Bond Funds / SRF	18
WRA082	Phase 13	West DM Outfall	Expansion Funds	19
WRA083		Contracted Sewer Maintenance	Operation funded	20
WRA084		Emission Reduction - WRF	Core Bond Funds	closed
WRA085	Phase 24	Ankeny N Four Mile Interceptor	Expansion Funds	21
WRA086	Phase 17	DM River Outfall / New Main Outfall	Core Bond Funds	22
WRA087	Phase 17	Combined Sewer Solids Separation	Core Bond Funds	23
WRA088	Phase 25	Ingersoll Run Overflow	Core Bond Funds	24
WRA089	Phase 15	Little Four Mile Interceptor Extension	Expansion Funds	closed
WRA090	Phase 20	Middle Creek Trunk Sewer Extension	Expansion Funds	closed
WRA091		Small CIP [thru 2009] & Studies	annual contrib	25
WRA092	Phase 18	West DM Outfall Extension	Expansion Funds	26
WRA093		Flow Monitoring System Improvements	Core Bond Funds	27
WRA095	Phase 15	Little Four Mile Intereceptor -South Branch	Expansion Funds	closed
WRA096		Transition Costs - WRA	annual contrib	28
WRA097	Phase 23	Four Mile Interceptor Improvements	Expansion Funds	29
WRA098a		Small CIP / Plant Improvement Projects to	annual contrib	8
WRA098b		Small CIP / Plant Improvement Proj F13-F18	annual contrib	9-10
WRA099	Phase 19	Mud Creek Interceptor	Expansion Funds	30
WRA100		Corridor Preservation	Expansion Funds	31
WRA101		Additional Equalization Basin in Northwest	Commtty 28E / Core	32
WRA102		West Side Supplemental Equal. Basin	combined with 101	33
WRA103a	Phase 10	Southern Tier (Pumping) Improvements	Bond Funds / SRF	34
WRA103b	Phase 10	Southern Tier Improvements (Western)	Expansion Funds	35
WRA104		Equalization Basin Utilization Improvements	Core Bond Funds	36
WRA1xx		Ankeny Equalization Basin	Expansion Funds	37
WRA1xx		Flood Mitigation at WRF	I-Jobs	38
WRA1xx		Common Trunk	Expansion Funds	39
WRA1xx		Joint Trunk	Expansion Funds	40
WRA1xx		Birdland Improvements	Core Bond Funds	41
WRA1xx		Nutrient Removal - WRF	Core Bond Funds	42

List of WRA Projects / Alpha by Category

Project Number	Project ID	Project Name	Funding	Page #
WRA1xx	Phase 25 3	Birdland Improvements	Core Bond Funds	41
WRA087	Phase 17	Combined Sewer Solids Separation	Core Bond Funds	23
WRA074		Digester Improvements - WRF	Core Bond Funds	12
WRA086	Phase 17	DM River Outfall / New Main Outfall	Core Bond Funds	22
WRA104		Equalization Basin Utilization Improvements	Core Bond Funds	36
WRA093	Phase 25 2	Flow Monitoring System Improvements	Core Bond Funds	27
WRA088	Phase 25 1	Ingersoll Run Overflow	Core Bond Funds	24
WRA1xx		Nutrient Removal - WRF	Core Bond Funds	42
WRA080		West Side Interceptor Basin	Core Bond Funds	17
WRA078		Facilities Rehabilitation - WRF	annual contrib	14
WRA069		Facility Plan Update - WRA	annual contrib	7
WRA077		Power Generation System	annual contrib	13
WRA070		Process Equipment Replacement [thru 2009]	annual contrib	11
WRA098b		Small CIP / Plant Improvement Proj F13-F18	annual contrib	9-10
WRA098a		Small CIP / Plant Improvement Projects to	annual contrib	8
WRA091		Small CIP [thru 2009] & Studies	annual contrib	25
WRA096		Transition Costs - WRA	annual contrib	28
WRA1xx		Flood Mitigation at WRF	I-Jobs	38
WRA079		Special Projects (using Grant money)	I-Jobs	15-16
WRA083		Contracted Sewer Maintenance	Operation funded	20
WRA103a	Phase 10	Southern Tier (Pumping) Improvements	Bond Funds / SRF	34
WRA081	Phase 21,22	SouthWest Area Diversion Facilities	Bond Funds / SRF	18
WRA101		Additional Equalization Basin in Northwest	Commtly 28e / Core	32
WRA102		West Side Supplemental Equal. Basin	combined with 101	33
WRA1xx		Ankeny Equalization Basin	Expansion Funds	37
WRA1xx		Common Trunk	Expansion Funds	39
WRA100		Corridor Preservation	Expansion Funds	31
WRA085	Phase 24	Four Mile Interceptor Extension	Expansion Funds	21
WRA097	Phase 23	Four Mile Interceptor Improvements	Expansion Funds	29
WRA1xx		Joint Trunk	Expansion Funds	40
WRA099	Phase 19	Mud Creek Interceptor	Expansion Funds	30
WRA103b	Phase 10	Southern Tier Improvements (Western)	Expansion Funds	35
WRA082	Phase 13	West DM Outfall	Expansion Funds	19
WRA092	Phase 18	West DM Outfall Extension	Expansion Funds	26

Fiscal 2013/Fiscal 2018 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
Wastewater Reclamation Authority Improvements				WRA Facility Plan Update [commty funded from WRA098]								AG267 WRA990000 WRA069	
	TOTAL ESTIMATED COST	COST THROUGH F10	ACTUAL COST IN F11	COST THROUGH F11	Revised BUDGET F12	ESTIMATED COST THROUGH F12	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F18
							F13	F14	F15	F16	F17	F18	
Expenses	1,579,010	342,651	138,218	480,869	188,141	669,010	260,000	150,000	125,000	125,000	125,000	125,000	
Beginning Balance					(1,859)								
Interest Earnings	28,370	15,000	13,370	28,370		28,370							
Repair and Replacement Fund Communities	450,640	330,640	120,000	450,640		450,640							
Future Funding Bond Proceeds SRF Drawdowns													
Other / commty funds 098	1,100,000				190,000	190,000	260,000	150,000	125,000	125,000	125,000	125,000	
Total Resources	1,579,010	345,640	133,370	479,010	188,141	669,010	260,000	150,000	125,000	125,000	125,000	125,000	
ENDING BALANCE	0	2,989	(4,848)	(1,859)	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.

This project funds a new Facility Plan update for the WRA which will be completed in late 2013.

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. To evaluate growth, conveyance and wastewater treatment needs of the WRA past 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:

Beginning F10 funding source will be a transfer from WRA098, R&R community funds.

Operating Budget Effect:

Fiscal 2013/Fiscal 2018 Capital Improvements Program

PROJECT CATEGORY							PROJECT TITLE						ACCOUNT
Wastewater Reclamation Authority Improvements							WRF Small Projects, & Process Equipment Repl for 2010, 2011, 2012						AG267 WRA990000 WRA98 1
	TOTAL ESTIMATED COST	COST THROUGH F10	ACTUAL COST IN F11	COST THROUGH F11	Revised BUDGET F12	ESTIMATED COST THROUGH F12	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F18
							F13	F14	F15	F16	F17	F18	
Expenses	7,109,135	810,019	900,848	1,710,867	3,395,766	5,106,633	2,002,502						
Beginning Balance					2,763,268		2,082,502						
Interest Earnings	25,000				25,000	25,000							
Repair and Replacement Fund Communities	7,357,360	2,347,360	2,210,000	4,557,360	2,800,000	7,357,360							
Future Funding Bond Proceeds													
SRF Drawdowns													
Other (tsfr out)	(273,225)		(83,225)	(83,225)	(110,000)	(193,225)	(80,000)						
Total Resources	7,109,135	2,347,360	2,126,775	4,474,135	5,478,268	7,189,135	2,002,502						
ENDING BALANCE	0	1,537,341	1,225,927	2,763,268	2,082,502	2,082,502	0	0	0	0	0	0	0

Description:

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

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, B70 second floor lighting, CMMS modifications, W3 Pump station Imprv, Unanticipated needs.

F11: Primary and final clarifier repairs, Server virtualization, IP camera deployment, Bar Screen #1 repl, Sump Pump repl, Main Pump motor rebuild, Unanticipated needs.

F12+: Algae sweep at Final clarifiers, Grit chamber modifications.

F13: CNG/CBG Fueling Station (\$1 million)

Relationship to General Plan and Other Projects:

This project will be funded with interest earnings from R&R reserve fund and community contributions. Transfers out will provide funding to other R&R projects.

Operating Budget Effect:

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

Fiscal 2013/Fiscal 2018 Capital Improvements Program

PROJECT CATEGORY					PROJECT TITLE								ACCOUNT
Wastewater Reclamation Authority Improvements					WRF Small Projects, & Process Equipment Repl for 2013, 2014, 2015								AG267 WRA990000 WRA98 2
	TOTAL ESTIMATED COST	COST THROUGH F10	ACTUAL COST IN F11	COST THROUGH F11	Revised BUDGET F12	ESTIMATED COST THROUGH F12	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F18
							F13	F14	F15	F16	F17	F18	
Expenses	7,755,000						2,350,000	2,760,000	2,645,000				
Beginning Balance													
Interest Earnings	30,000						10,000	10,000	10,000				
Repair and Replacement Fund Communities	9,500,000						3,300,000	3,200,000	3,000,000				
Future Funding													
Bond Proceeds													
SRF Drawdowns													
Other (tsfr out)	(1,775,000)						(960,000)	(450,000)	(365,000)				
Total Resources	7,755,000						2,350,000	2,760,000	2,645,000				
ENDING BALANCE	0	0	0	0	0	0	0	0	0	0	0	0	

Description:

Renewal and replacement of existing process equipment, includes small plant projects.

Justification:

Annual plant maintenance over \$5,000 in amount that reduces operating repair costs and extends the useful life of the asset.

Scheduling:

Bar screen replacement in F13 - F14 (\$1,800,000)

Also in F12 - F13: PFS storage shed, Biogas pipeline and burner upgrade

W3 improvements in F13 - F14 (\$1,000,000)

FY14 Highvoltage testing of Bus A; Replace piping in Aeration Tank #2; Replace inefficient electric motors

Relationship to General Plan and Other Projects:

This project will be funded with interest earnings from R&R reserve fund and community contributions. Transfers out will provide funding to other R&R projects.

Operating Budget Effect:

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

Fiscal 2013/Fiscal 2018 Capital Improvements Program

PROJECT CATEGORY		PROJECT TITLE										ACCOUNT	
Wastewater Reclamation Authority Improvements		WRF Studies, Small Projects, & Process Equipment Replacement										AG267 WRA990000 WRA98 3	
	TOTAL ESTIMATED COST	COST THROUGH F10	ACTUAL COST IN F11	COST THROUGH F11	Revised BUDGET F12	ESTIMATED COST THROUGH F12	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F18
							F13	F14	F15	F16	F17	F18	
Expenses	7,145,000									2,340,000	2,340,000	2,465,000	
Beginning Balance													
Interest Earnings	60,000									20,000	20,000	20,000	
Repair and Replacement Fund Communities	9,125,000									3,000,000	3,000,000	3,125,000	
Future Funding													
Bond Proceeds													
SRF Drawdowns													
Other (tsfr out)	(2,040,000)									(680,000)	(680,000)	(680,000)	
Total Resources	7,145,000									2,340,000	2,340,000	2,465,000	
ENDING BALANCE	0	0	0	0	0	0	0	0	0	0	0	0	0

Description:

Renewal and replacement of existing process equipment, includes small plant projects.

Justification:

Scheduling:

This sheet is for future WRF projects

Relationship to General Plan and Other Projects:

This project will be funded with interest earnings from R&R reserve fund and community contributions. Transfers out will provide funding to other R&R projects.

Operating Budget Effect:

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

Fiscal 2013/Fiscal 2018 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
Wastewater Reclamation Authority Improvements				WRF Process Equipment Replacement [transferring to WRA098 in 2010]								AG267 WRA990000 WRA070	
	TOTAL ESTIMATED COST	COST THROUGH F10	ACTUAL COST IN F11	COST THROUGH F11	Revised BUDGET F12	ESTIMATED COST THROUGH F12	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F18
							F13	F14	F15	F16	F17	F18	
Expenses	6,890,105	6,798,349	91,756	6,890,105		6,890,105							final time in CIP
Beginning Balance													
Interest Earnings	365,115	378,485	(13,370)	365,115		365,115							
Repair and Replacement Fund	1,948,191	1,948,191		1,948,191		1,948,191							
Communities	4,503,443	4,503,443		4,503,443		4,503,443							
Future Funding													
Bond Proceeds													
SRF Drawdowns													
Other, SALE of Equip	73,356	73,356		73,356		73,356							
Total Resources	6,890,105	6,903,475	(13,370)	6,890,105		6,890,105							
ENDING BALANCE	0	105,126	(105,126)	0	0	0	0	0	0	0	0	0	0

Description:

Renewal and replacement of existing process equipment through F10 with projects completed in F11.

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:

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.

F10: Rebuild Final Clarifier Drives, Replace Return sludge Lines Joints 45-3, Primary Clarifier Drives 1 & 4 rebuild, Repair/repl Transformers.

Relationship to General Plan and Other Projects:

Process equipment replacements will be done in WRA098 after F10.

Operating Budget Effect:

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

Fiscal 2013/Fiscal 2018 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT		
Wastewater Reclamation Authority Improvements				WRF Digester Improvements								AG267 WRA990000 WRA074		
	TOTAL ESTIMATED COST	COST THROUGH F10	ACTUAL COST IN F11	COST THROUGH F11	Revised BUDGET F12	ESTIMATED COST THROUGH F12	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F18	
							F13	F14	F15	F16	F17	F18		
Expenses	24,315,000	2,536,894	7,769,925	10,306,819	8,798,381	19,105,200	3,994,400	1,215,400						
Beginning Balance					13,258,181		4,734,800	1,215,400						
Interest Earnings	90,000	90,000		90,000		90,000								
Repair and Replacement Fund Communities														
Future Funding	600,000				125,000	125,000	475,000							
Bond Proceeds	360,000	100,000	110,000	210,000	150,000	360,000								
SRF Drawdowns	23,265,000	23,265,000		23,265,000		23,265,000								
Other / from Small CIP														
Total Resources	24,315,000	23,455,000	110,000	23,565,000	13,533,181	23,840,000	5,209,800	1,215,400						
ENDING BALANCE	0	20,918,106	(7,659,925)	13,258,181	4,734,800	4,734,800	1,215,400	0	0	0	0	0	0	0

Description:

F10 improvements will involve improving the mixing system, replacing the insulated covers with fixed concrete 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 were completed in F09 with construction in F09 through F12. A study was 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. F09 P&D Loan for Design (\$3205,000 with \$1,994,250 drawn). F10 SRF loan (series 2010C \$2+21.5 million closed on 6/30/10).

Operating Budget Effect:

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

Fiscal 2013/Fiscal 2018 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT		
Wastewater Reclamation Authority Improvements				WRF Power Generation System [funded from WRA098]								AG267 WRA990000 WRA077		
	TOTAL ESTIMATED COST	COST THROUGH F10	ACTUAL COST IN F11	COST THROUGH F11	Revised BUDGET F12	ESTIMATED COST THROUGH F12	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						F17	
							F13	F14	F15	F16	F17	F18		
Expenses	4,700,052	2,725,052		2,725,052	400,000	3,125,052	600,000					325,000	650,000	
Beginning Balance					350,000		275,000					325,000	325,000	
Interest Earnings	12,543	12,543		12,543		12,543								
Repair and Replacement Fund	1,033,512	1,033,512		1,033,512		1,033,512								
Communities	273,118	173,118	100,000	273,118		273,118								
Future Funding														
Bond Proceeds	1,755,879	1,755,879		1,755,879		1,755,879								
SRF Drawdowns														
Other / commty funds 098	1,625,000				325,000	325,000	325,000			325,000	325,000	325,000	325,000	
Total Resources	4,700,052	2,975,052	100,000	3,075,052	675,000	3,400,052	600,000				325,000	650,000	650,000	
ENDING BALANCE	0	250,000	100,000	350,000	275,000	275,000	0	0	0	325,000	325,000	0	0	

Description:

F10 costs are for overhauling two generators. F12 costs are for a standard engine and generator rebuild plus replacement of one engine upper block. F14 costs are for two standard engine and generator rebuilds.

Justification:

The engines burn the by-product gas produced by the digesters to produce electricity saving more than \$500,000 annually. New technology offers lower O&M cost and produce more electricity. Engine overhauls are required every 25,000 hours. For budgeting purposes, the overhauls occur every 4 years at a cost of \$1,300,000. An annual collection assures adequate funds for overhauls.

Scheduling:

Past rebuilds were completed in F09-F10.

Relationship to General Plan and Other Projects:

Community funding thru WRA098 will provide funding after bond issue.

Operating Budget Effect:

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

Fiscal 2013/Fiscal 2018 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
Wastewater Reclamation Authority Improvements				WRF Facilities Rehabilitation [funded from WRA098]								AG267 WRA990000 WRA078	
	TOTAL ESTIMATED COST	COST THROUGH F10	ACTUAL COST IN F11	COST THROUGH F11	Revised BUDGET F12	ESTIMATED COST THROUGH F12	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F18
							F13	F14	F15	F16	F17	F18	
Expenses	3,061,788	1,039,697	264,194	1,303,891	457,897	1,761,788	250,000	250,000	200,000	200,000	200,000	200,000	
Beginning Balance					7,897								
Interest Earnings	25,000	25,000		25,000		25,000							
Repair and Replacement Fund	316,788	316,788		316,788		316,788							
Communities	970,000	750,000	220,000	970,000		970,000							
Future Funding													
Bond Proceeds													
SRF Drawdowns													
Other / commty funds 098	1,750,000				450,000	450,000	250,000	250,000	200,000	200,000	200,000	200,000	
Total Resources	3,061,788	1,091,788	220,000	1,311,788	457,897	1,761,788	250,000	250,000	200,000	200,000	200,000	200,000	
ENDING BALANCE	0	52,091	(44,194)	7,897	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:

F09: Roof Replacement on Building 35, HVAC Improvements.

F10: Roof Replacement on Buildings 70 & 94, HVAC Improvements.

F11: Replace Air handling units in Buildings 12, 26, 27 & 28, HVAC Improvements.

F13: Roof Replacement on Building 93; Building 12 Exhaust Air handling Modifications.

Relationship to General Plan and Other Projects:

Community funding thru WRA098 will provide future funding of WRA078 expense.

Operating Budget Effect:

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

Fiscal 2013/Fiscal 2018 Capital Improvements Program

PROJECT CATEGORY							PROJECT TITLE						ACCOUNT
Wastewater Reclamation Authority Improvements							Special Projects [comnty funded portion from WRA098]						AG267 WRA990000 WRA079 1
	TOTAL ESTIMATED COST	COST THROUGH F10	ACTUAL COST IN F11	COST THROUGH F11	Revised BUDGET F12	ESTIMATED COST THROUGH F12	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F18
							F13	F14	F15	F16	F17	F18	
Expenses	158,225		83,225	83,225	75,000	158,225							
Beginning Balance													
Interest Earnings													
Repair and Replacement Fund													
Communities													
Future Funding													
Bond Proceeds													
SRF Drawdowns													
Other / comnty funds 098	158,225		83,225	83,225	75,000	158,225							
Total Resources	158,225		83,225	83,225	75,000	158,225							
ENDING BALANCE	0	0	0	0	0	0	0	0	0	0	0	0	0

Description:

WRA has received or expects to receive the above Grants from State and Federal programs.

Justification:

Scheduling:

F11: Software updates

F12: Software updates

Relationship to General Plan and Other Projects:

this project sheet and the following will fully fund the listed projects

Operating Budget Effect:

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

Fiscal 2013/Fiscal 2018 Capital Improvements Program

PROJECT CATEGORY							PROJECT TITLE						ACCOUNT
Wastewater Reclamation Authority Improvements							Special Projects [Grant Funded portion]						AG267 WRA990000 WRA079 2
	TOTAL ESTIMATED COST	COST THROUGH F10	ACTUAL COST IN F11	COST THROUGH F11	Revised BUDGET F12	ESTIMATED COST THROUGH F12	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F18
							F13	F14	F15	F16	F17	F18	
Expenses	158,225		83,225	83,225	75,000	158,225							
Beginning Balance													
Interest Earnings													
Repair and Replacement Fund													
Communities													
Future Funding													
Bond Proceeds													
SRF Drawdowns													
Other, Grant Money (Fed Stim)	158,225		83,225	83,225	75,000	158,225							
Total Resources	158,225		83,225	83,225	75,000	158,225							
ENDING BALANCE	0	0	0	0	0	0	0	0	0	0	0	0	0

Description:

WRA has received or expects to receive the above Grants from State and Federal programs.

Justification:

Scheduling:

F11: Software updates

F12: Software updates

Relationship to General Plan and Other Projects:

this project sheet and the previous will fully fund the listed projects

Operating Budget Effect:

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

Fiscal 2013/Fiscal 2018 Capital Improvements Program

Fiscal 2013/Fiscal 2018 Capital Improvements Program													
PROJECT CATEGORY							PROJECT TITLE					ACCOUNT	
Wastewater Reclamation Authority Improvements							WRA West Side Interceptor Basin & WSPS Mitigation					AG267 WRA990000 WRA080	
	TOTAL ESTIMATED COST	COST THROUGH F10	ACTUAL COST IN F11	COST THROUGH F11	Revised BUDGET F12	ESTIMATED COST THROUGH F12	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F18
							F13	F14	F15	F16	F17	F18	
Expenses	6,328,068	5,053,152	1,199,920	6,253,072	74,996	6,328,068							
Beginning Balance					274,996								
Interest Earnings	118,369	118,369		118,369		118,369							
Repair and Replacement Fund Communities /pre 7/1/04	23,141	23,141		23,141		23,141							
Future Funding													
Bond Proceeds	4,889,658	5,389,658	(300,000)	5,089,658	(200,000)	4,889,658							
SRF Drawdowns	1,296,900		1,296,900	1,296,900		1,296,900							
Other													
Total Resources	6,328,068	5,531,168	996,900	6,528,068	74,996	6,328,068							
ENDING BALANCE	0	478,016	(203,020)	274,996	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.

F11 Expenditures are mitigation that will not be reimbursed by FEMA but will be required to protect the facility from flooding, which included a concrete flood wall and flood swing gates.

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.

F11 Improvements will provide increased flood protection around the equalization basin, which included a concrete flood wall and flood swing gates.

Relationship to General Plan and Other Projects:

This project is included in the WRA Facility Plan Update. After flooding in 2008, additional mitigation projects were added.

Operating Budget Effect:

Increase revenues and operations and maintenance costs.

Fiscal 2013/Fiscal 2018 Capital Improvements Program

PROJECT CATEGORY					PROJECT TITLE						ACCOUNT			
Wastewater Reclamation Authority Improvements					Southwest Area Diversion Facilities Phase 21 and 22						AG267 WRA990000 WRA081			
	TOTAL ESTIMATED COST	COST THROUGH F10	ACTUAL COST IN F11	COST THROUGH F11	Revised BUDGET F12	ESTIMATED COST THROUGH F12	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F18	
							F13	F14	F15	F16	F17	F18		
Expenses	94,874,885	33,659,532	17,367,602	51,027,134	16,508,751	67,535,885	24,224,000	3,115,000						
Beginning Balance					10,150,714		(373,037)	(1,835,000)						
Interest Earnings	1,281,000	1,280,963		1,280,963		1,280,963	37							
Repair and Replacement Fund Communities														
Future Funding	(3,765,000)				(3,765,000)	(3,765,000)								
Bond Proceeds	25,473,085	25,623,085		25,623,085	(150,000)	25,473,085								
SRF Drawdowns Available	71,885,800	24,769,800	9,504,000	34,273,800	9,900,000	44,173,800	22,762,000	4,950,000						
Other / LOAN to WRA092														
Total Resources	94,874,885	51,673,848	9,504,000	61,177,848	16,135,714	67,162,848	22,389,000	3,115,000						
ENDING BALANCE	0	18,014,316	(7,863,602)	10,150,714	(373,037)	(373,037)	(1,835,000)	0	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 was designed in F08 and constructed in F08/F09. The North River Interceptor (Phase 21) was constructed in F08, and F09. The diversion sewer will be constructed in F10, F11, and F12. The pump station, force main, flow equalization and interceptors will be constructed in F10, F11, and F12.

Phase 22, Segment 1 - F10, P22seg. 2 - F08/09, P22seg. 3 - F11

Phase 22, Segment 4 - F12, P22seg. 5 - F12, P22seg. 6 - F11/12

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 2013/Fiscal 2018 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE				ACCOUNT						
Wastewater Reclamation Authority Improvements				West Des Moines Outfall Phase13				AG267 WRA990000 WRA082						
	TOTAL ESTIMATED COST	COST THROUGH F10	ACTUAL COST IN F11	COST THROUGH F11	Revised BUDGET F12	ESTIMATED COST THROUGH F12	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST FY2015	
							F13	F14	F15	F16	F17	F18		
Expenses	17,194,984	11,776,624	517,480	12,294,104	3,979,855	16,273,959	921,025							
Beginning Balance					1,137,880		921,025							
Interest Earnings	118,045	118,045		118,045										
Repair and Replacement Fund Communities														
Future Funding	100,000				100,000	100,000								
Bond Proceeds	1,168,394	1,168,394		1,168,394		1,168,394								
SRF Drawdowns	15,808,545	12,145,545		12,145,545	3,663,000	15,808,545								
Other														
Total Resources	17,194,984	13,431,984		13,431,984	4,900,880	17,194,984	921,025							
ENDING BALANCE	0	1,655,360	(517,480)	1,137,880	921,025	921,025	0	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; Moved from F16 to F12 to take advantage of favorable bidding climate and avoid conflict with work planned at Raccoon River Park: 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.

Operating Budget Effect:

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

Fiscal 2013/Fiscal 2018 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE									ACCOUNT
Wastewater Reclamation Authority Improvements				WRA Sewer Maintenance (Inspections & Repairs)									AG267 WRA990000 WRA083
	TOTAL ESTIMATED COST	COST THROUGH F10	ACTUAL COST IN F11	COST THROUGH F11	Revised BUDGET F12	ESTIMATED COST THROUGH F12	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F17
							F12	F13	F14	F15	F16	F17	
Expenses	1,100,000		40,328	40,328	159,672	200,000	150,000	150,000	150,000	150,000	150,000	150,000	
Beginning Balance					9,672								
Interest Earnings													
Repair and Replacement Fund													
Communities													
Future Funding													
Bond Proceeds													
SRF Drawdowns													
Funding from O&M budget (16	1,100,000		50,000	50,000	150,000	200,000	150,000	150,000	150,000	150,000	150,000	150,000	
Total Resources	1,100,000		50,000	50,000	159,672	200,000	150,000	150,000	150,000	150,000	150,000	150,000	
ENDING BALANCE	0	0	9,672	9,672	0	0	0	0	0	0	0	0	0

Description:
 This project provides funding for annual engineering investigation for portions of the WRA interceptor sewer system and for specific maintenance/repairs of those sewers. Maintenance and repairs will include: Sewer televising, sewer cleaning, sewer lining, manhole rehabilitation and rebuilding, sewer spot repairs, sinkhole repairs, replacement of manhole lids and castings, etc.

Justification:
 Portions of the WRA Conveyance system are over fifty years old and there is a need to investigate, evaluate and determine maintenance on the overall interceptor sewer system. This project sets aside funding for planned and unanticipated sewer repairs in the conveyance system.

Scheduling:
 F12, Investigate the Westside/Beaver Creek interceptor sewer. F13, Investigate the western portion of the So Tier interceptor sewer.

Relationship to General Plan and Other Projects:
 This project is funded with Operating Money.

Operating Budget Effect:
 These investigations will identify repairs that will increase operating costs in future budgets on a proactive basis rather than reactive spending.

Fiscal 2013/Fiscal 2018 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE				ACCOUNT						
Wastewater Reclamation Authority Improvements				WRA Four Mile Interceptor Extension Phase 24				AG267 WRA990000 WRA085						
	TOTAL ESTIMATED COST	COST THROUGH F10	ACTUAL COST IN F11	COST THROUGH F11	Revised BUDGET F12	ESTIMATED COST THROUGH F12	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F18	
							F13	F14	F15	F16	F17	F18		
Expenses	20,750,917	10,716,419	7,725,461	18,441,880	1,701,002	20,142,882	608,035							
Beginning Balance					994,501		286,285							
Interest Earnings	448,250	445,464		445,464	2,786	448,250								
Repair and Replacement Fund Communities														
Future Funding														
Bond Proceeds	10,547,988	10,247,988	300,000	10,547,988		10,547,988								
SRF Drawdowns	9,726,750	300,000	8,115,000	8,415,000	990,000	9,405,000	321,750							
Other / POLK CO.	27,929	27,929		27,929		27,929								
Total Resources	20,750,917	11,021,381	8,415,000	19,436,381	1,987,287	20,429,167	608,035							
ENDING BALANCE	0	304,962	689,539	994,501	286,285	286,285	0	0	0	0	0	0	0	0

Description: Expansion Project.

Segment 1: Construction of an interceptor sewer from Broadway to NE 29th Street south of Oralabor Road.

Segment 2: Construction of an interceptor sewer from 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-F10/13.

Relationship to General Plan and Other Projects:

The Four Mile Interceptor Extension 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 2013/Fiscal 2018 Capital Improvements Program

PROJECT CATEGORY		PROJECT TITLE										ACCOUNT			
Wastewater Reclamation Authority Improvements					Des Moines River Outfall / New Main Outfall Phase 17										AG267 WRA990000 WRA086
	TOTAL ESTIMATED COST	COST THROUGH F10	ACTUAL COST IN F11	COST THROUGH F11	Revised BUDGET F12	ESTIMATED COST THROUGH F12	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F18		
							F13	F14	F15	F16	F17	F18			
Expenses	52,739,875	12,380,281	3,631,072	16,011,353	13,659,422	29,670,775	19,860,800	3,208,300							
Beginning Balance			814,600		8,402,592		19,569,250	(58,700)							
Interest Earnings	375,156	337,356		337,356	37,800	375,156									
Repair and Replacement Fund Communities															
Future Funding	1,797,000				1,500,000	1,500,000		297,000							
Bond Proceeds	11,703,279	11,813,279	(110,000)	11,703,279		11,703,279									
SRF Drawdowns	38,501,100	1,461,720	10,781,100	12,242,820	23,288,280	35,531,100		2,970,000							
Other / Utility credits, CDM	363,340	130,490		130,490		130,490	232,850								
Total Resources	52,739,875	13,742,845	11,485,700	24,413,945	33,228,672	49,240,025	19,802,100	3,208,300							
ENDING BALANCE	0	1,362,564	7,854,628	8,402,592	19,569,250	19,569,250	(58,700)	0	0	0	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. From the 2004B and 2006 bond issue proceeds, \$3,600,000 have been reallocated to Flow Monitoring project WRA093.

Operating Budget Effect:

This project will increase operations and maintenance costs.

Fiscal 2013/Fiscal 2018 Capital Improvements Program

PROJECT CATEGORY		PROJECT TITLE										ACCOUNT	
Wastewater Reclamation Authority Improvements					Combined Sewer Solids Separation Facility Phase 17							AG267	
												WRA990000	
												WRA087	
	TOTAL ESTIMATED COST	COST THROUGH F10	ACTUAL COST IN F11	COST THROUGH F11	Revised BUDGET F12	ESTIMATED COST THROUGH F12	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F18
							F13	F14	F15	F16	F17	F18	
Expenses	53,426,995	4,515,043	9,213,472	13,728,515	19,117,280	32,845,795	15,519,200	5,062,000					
Beginning Balance					34,198,480		15,106,200	(413,000)					
Interest Earnings	54,995	54,995		54,995		54,995							
Repair and Replacement Fund Communities													
Future Funding	3,025,000				25,000	25,000		3,000,000					
Bond Proceeds	550,000	550,000		550,000		550,000							
SRF Drawdowns	49,797,000	3,600,000	43,722,000	47,322,000		47,322,000		2,475,000					
Other													
Total Resources	53,426,995	4,204,995	43,722,000	47,926,995	34,223,480	47,951,995	15,106,200	5,062,000					
ENDING BALANCE	0	(310,048)	34,508,528	34,198,480	15,106,200	15,106,200	(413,000)	0	0	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 F13.

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

Operating Budget Effect:
 This project will increase operations and maintenance costs.

Fiscal 2013/Fiscal 2018 Capital Improvements Program

PROJECT CATEGORY		PROJECT TITLE										ACCOUNT	
Wastewater Reclamation Authority Improvements					Ingersoll Run Combined Sewer Overflow Phase 25							AG267 WRA990000 WRA088	
	TOTAL ESTIMATED COST	COST THROUGH F10	ACTUAL COST IN F11	COST THROUGH F11	Revised BUDGET F12	ESTIMATED COST THROUGH F12	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F18
							F13	F14	F15	F16	F17	F18	
Expenses	2,597,954	2,565,932	1,779	2,567,711	15,243	2,582,954	15,000						
Beginning Balance					30,243		15,000						
Interest Earnings	201,401	201,401		201,401		201,401							
Repair and Replacement Fund Communities													
Future Funding													
Bond Proceeds	2,396,553	2,807,069	(410,516)	2,396,553		2,396,553							
SRF Drawdowns													
Other													
Total Resources	2,597,954	3,008,470	(410,516)	2,597,954	30,243	2,597,954	15,000						
ENDING BALANCE	0	442,538	(412,295)	30,243	15,000	15,000	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.

Justification:
 Needed to conform to NPDES requirements.

Scheduling:
 Design-F06/F07, Construction-F07/F08, project being held open through F11.

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

Operating Budget Effect:
 None.

Fiscal 2013/Fiscal 2018 Capital Improvements Program

PROJECT CATEGORY		PROJECT TITLE											ACCOUNT	
Wastewater Reclamation Authority Improvements					WRF Small Capital Projects 2006-2009 & WRA Studies [funded from WRA098]								AG267 WRA990000 WRA091	
	TOTAL ESTIMATED COST	COST THROUGH F10	ACTUAL COST IN F11	COST THROUGH F11	Revised BUDGET F12	ESTIMATED COST THROUGH F12	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F18	
							F13	F14	F15	F16	F17	F18		
Expenses	2,305,000	1,603,140	29,583	1,632,723	367,277	2,000,000	125,000	50,000	40,000	30,000	30,000	30,000		
Beginning Balance					1,217,277									
Interest Earnings														
Repair and Replacement Fund Communities	2,850,000	2,850,000		2,850,000		2,850,000								
Future Funding														
Bond Proceeds														
SRF Drawdowns														
Other / WRA100 & WRA098	(545,000)	(22,275)	22,275		(850,000)	(850,000)	125,000	50,000	40,000	30,000	30,000	30,000		
Total Resources	2,305,000	2,827,725	22,275	2,850,000	367,277	2,000,000	125,000	50,000	40,000	30,000	30,000	30,000		
ENDING BALANCE	0	1,224,585	(7,308)	1,217,277	0	0	0	0	0	0	0	0	0	

Description:

This project funds process and safety improvement studies at the WRF and WRA conveyance system.

Justification:

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

Scheduling:

F07: Asphalt road work at west end of plant; Scum Valve Controllers; VFD's for PAB; Unanticipated needs.

F08: Wireless system for operations control. **F09:** Automatic lubrication system, Bar screen, Motor modifications, W3 valve, Unanticipated needs.

F10: Utility mapping, Building 35 blower drive installation; Unanticipated needs.

F11: Bar Screen repairs moved to WRA098; Biosolids thermal drying evaluation; Unanticipated needs.

F11-12: WRA Operating Plan development; WRF Flood Inundation study.

F13-18: Studies, as needed

Relationship to General Plan and Other Projects:

Funds collected prior to F10 will be transferred to WRA098 to be used for Bar Screen Replacement Community funded thru WRA098 after FY11.

Operating Budget Effect:

Fiscal 2013/Fiscal 2018 Capital Improvements Program

PROJECT CATEGORY		PROJECT TITLE										ACCOUNT	
Wastewater Reclamation Authority Improvements		West Des Moines Outfall Extension Phase 18										AG267 WRA990000 WRA092	
	TOTAL ESTIMATED COST	COST THROUGH F10	ACTUAL COST IN F11	COST THROUGH F11	Revised BUDGET F12	ESTIMATED COST THROUGH F12	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F18
							F13	F14	F15	F16	F17	F18	
Expenses	9,826,629	6,877,074	4,055	6,881,129	2,945,500	9,826,629							
Beginning Balance					324								
Interest Earnings	250,000	250,000		250,000		250,000							
Repair and Replacement Fund Communities													
Future Funding	2,945,176				2,945,176	2,945,176							
Bond Proceeds	4,325,953	4,325,953		4,325,953		4,325,953							
SRF Drawdowns	2,305,500	2,305,500		2,305,500		2,305,500							
Other													
Total Resources	9,826,629	6,881,453		6,881,453	2,945,500	9,826,629							
ENDING BALANCE	0	4,379	(4,055)	324	0	0	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 Boonevill Road. Segment 4 -Booneville Road to Mills Civic Parkway.
 Segment 5 -Mills Civic Parkway to I-80

This project was done as Expedited project.

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 2013/Fiscal 2018 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 F10	ACTUAL COST IN F11	COST THROUGH F11	Revised BUDGET F12	ESTIMATED COST THROUGH F12	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F18
							F13	F14	F15	F16	F17	F18	
Expenses	6,743,433	5,010,991	428,777	5,439,768	1,303,665	6,743,433							
Beginning Balance					596,665								
Interest Earnings	168,969	161,969		161,969	7,000	168,969							
Repair and Replacement Fund Communities													
Future Funding	700,000				700,000	700,000							
Bond Proceeds (reallocated)	5,874,464	5,624,464	250,000	5,874,464		5,874,464							
SRF Drawdowns													
Other													
Total Resources	6,743,433	5,786,433	250,000	6,036,433	1,303,665	6,743,433							
ENDING BALANCE	0	775,442	(178,777)	596,665	0	0	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. Flow meters will be installed to meter the majority of Des Moines flow into the conveyance system.

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 F11. Installation continues through F13 as interceptor sewers are completed.

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 2013/Fiscal 2018 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
Wastewater Reclamation Authority Improvements				WRA Transition Costs								AG267 WRA99000 WRA096	
	TOTAL	COST	ACTUAL	COST	Revised	ESTIMATED	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST
	ESTIMATED	THROUGH	COST IN	THROUGH	BUDGET	COST THROUGH	F13	F14	F15	F16	F17	F18	BEYOND
	COST	F10	F11	F11	F12	F12							F18
Expenses	440,000	251,104	9,555	260,659	99,341	360,000	80,000						
Beginning Balance					179,341								
Interest Earnings	10,000	10,000		10,000		10,000							
Repair and Replacement Fund Communities	430,000	430,000		430,000		430,000							
Future Funding													
Bond Proceeds													
SRF Drawdowns													
Other					(80,000)	(80,000)	80,000						
Total Resources	440,000	440,000		440,000	99,341	360,000	80,000						
ENDING BALANCE	0	188,896	(9,555)	179,341	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 2013/Fiscal 2018 Capital Improvements Program

PROJECT CATEGORY		PROJECT TITLE										ACCOUNT			
Wastewater Reclamation Authority Improvements					Four Mile Interceptor Improvements Phase 23										AG267 WRA990000 WRA097
	TOTAL ESTIMATED COST	COST THROUGH F10	ACTUAL COST IN F11	COST THROUGH F11	Revised BUDGET F12	ESTIMATED COST THROUGH F12	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F18		
							F13	F14	F15	F16	F17	F18			
Expenses	27,133,564	15,758,967	9,907,136	25,666,103	1,467,461	27,133,564									
Beginning Balance					2,067,461										
Interest Earnings	34,256	34,256		34,256		34,256									
Repair and Replacement Fund Communities															
Future Funding	(600,000)				(600,000)	(600,000)									
Bond Proceeds	1,326,283	1,026,283	300,000	1,326,283		1,326,283									
SRF Drawdowns	23,463,000	16,038,000	7,425,000	23,463,000		23,463,000									
Other / CORE buy in collected	2,910,025	1,642,582	1,267,443	2,910,025		2,910,025									
Total Resources	27,133,564	18,741,121	8,992,443	27,733,564	1,467,461	27,133,564									
ENDING BALANCE	0	2,982,154	(914,693)	2,067,461	0	0	0	0	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 2013/Fiscal 2018 Capital Improvements Program

PROJECT CATEGORY		PROJECT TITLE										ACCOUNT	
Wastewater Reclamation Authority Improvements		Mud Creek Interceptor P 19										AG267 WRA990000 WRA099	
	TOTAL ESTIMATED COST	COST THROUGH F10	ACTUAL COST IN F11	COST THROUGH F11	Revised BUDGET F12	ESTIMATED COST THROUGH F12	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F18
							F13	F14	F15	F16	F17	F18	
Expenses	19,422,436		10,110	10,110	4,109,791	4,119,901	11,721,625	3,580,910					
Beginning Balance					19,890		11,512,599	(209,090)					
Interest Earnings	(64)						(64)						
Repair and Replacement Fund Communities													
Future Funding	820,000							820,000					
Bond Proceeds	30,000		30,000	30,000		30,000							
SRF Drawdowns	17,572,500				14,602,500	14,602,500		2,970,000					
Other, Altoona	1,000,000				1,000,000	1,000,000							
Total Resources	19,422,436		30,000	30,000	15,622,390	15,632,500	11,512,535	3,580,910					
ENDING BALANCE	0	0	19,890	19,890	11,512,599	11,512,599	(209,090)	0	0	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.

City of Altoona will provide funding to start the project

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-F12/13.

Relationship to General Plan and Other Projects:

This project is included in the WRA Facility Plan Update. Construction begins spring 2012.

Operating Budget Effect:

Revenues and expenses will increase as flows increase.

Fiscal 2013/Fiscal 2018 Capital Improvements Program

PROJECT CATEGORY		PROJECT TITLE										ACCOUNT	
Wastewater Reclamation Authority Improvements					WRA Corridor Preservation							AG267 WRA990000 WRA100	
	TOTAL ESTIMATED COST	COST THROUGH F10	ACTUAL COST IN F11	COST THROUGH F11	Revised BUDGET F12	ESTIMATED COST THROUGH F12	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F18
							F13	F14	F15	F16	F17	F18	
Expenses	400,000	81,209	76,131	157,340	192,660	350,000	50,000						
Beginning Balance					217,660		50,000						
Interest Earnings	2,725				2,725	2,725							
Repair and Replacement Fund Communities	22,275				22,275	22,275							
Future Funding													
Bond Proceeds	375,000		375,000	375,000		375,000							
SRF Drawdowns													
Other / Small CIP		22,275	(22,275)										
Total Resources	400,000	22,275	352,725	375,000	242,660	400,000	50,000						
ENDING BALANCE	0	(58,934)	276,594	217,660	50,000	50,000	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 2013/Fiscal 2018 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
Wastewater Reclamation Authority Improvements				WRA Additional Equalization Basin in the North West								AG267 WRA990000 WRA101	
	TOTAL ESTIMATED COST	COST THROUGH F10	ACTUAL COST IN F11	COST THROUGH F11	Revised BUDGET F12	ESTIMATED COST THROUGH F12	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F18
							F13	F14	F15	F16	F17	F18	
Expenses	20,000,000												20,000,000
Beginning Balance													
Interest Earnings													
Repair and Replacement Fund													
Communities													
Future Funding (place holder)													
Bond Proceeds													
SRF Drawdowns													
Other / future 28E agreement	20,000,000												20,000,000
Total Resources	20,000,000												20,000,000
ENDING BALANCE	0	0	0	0	0	0	0	0	0	0	0	0	0

Description:

An additional equalization basin will be constructed in the Saylor Creek system to handle additional flows from growth in Polk County and Ankeny and also flow from Polk City when connected to the Saylor Creek Interceptor.
 A 28E agreement is anticipated to provide up to \$20 million in funding; if final estimates are more than \$20 million any additional amount will be allocated with Core Flow.

Justification:

This project is intended to provide relief to interceptor sewers downstream and to the WRF during wet weather flow conditions. The scope and location will become more apparent once the new Facility Plan update is complete.

Scheduling:

Study, Design and Construction for beyond FY17.
 Project will be designed and constructed past FY18.

Relationship to General Plan and Other Projects:

These improvements are not in the 2004 Facility Update.

Operating Budget Effect:

This project will be needed to reduce the load from the Northern area of the conveyance system; operations and maintenance costs will increase.

Fiscal 2013/Fiscal 2018 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
Wastewater Reclamation Authority Improvements				WRA Westside Supplemental Equalization Basin Phase 5 segment 5								AG267 WRA990000 WRA102	
	TOTAL ESTIMATED COST	COST THROUGH F10	ACTUAL COST IN F11	COST THROUGH F11	Revised BUDGET F12	ESTIMATED COST THROUGH F12	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F18
							F13	F14	F15	F16	F17	F18	
Expenses													see WRA 101
Beginning Balance													
Interest Earnings													
Repair and Replacement Fund													
Communities													
Future Funding (place holder)													
Bond Proceeds													
SRF Drawdowns													
Other, SALE of Equip													
Total Resources													
ENDING BALANCE	0	0	0	0	0	0	0	0	0	0	0	0	0

Description:

This project will be combined with WRA101 Basin and scope will be determined after new Facility Plan is completed. This project sheet will be closed out.

Justification:

Scheduling:

Relationship to General Plan and Other Projects:

These improvements are not in the 2004 Facility Update.

Operating Budget Effect:

Fiscal 2013/Fiscal 2018 Capital Improvements Program

PROJECT CATEGORY					PROJECT TITLE								ACCOUNT	
Wastewater Reclamation Authority Improvements					WRA Southern Tier Improvements for SW Area Diversion								AG267 WRA990000 WRA103 a	
	TOTAL ESTIMATED COST	COST THROUGH F10	ACTUAL COST IN F11	COST THROUGH F11	Revised BUDGET F12	ESTIMATED COST THROUGH F12	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST FY2020	
							F13	F14	F15	F16	F17	F18		
Expenses	15,548,290	1,059	60,685	61,744	6,058,746	6,120,490	7,242,900	2,184,900						
Beginning Balance					(61,744)		(1,334,490)	(2,072,100)						
Interest Earnings														
Repair and Replacement Fund														
Communities														
Future Funding	230,000				230,000	230,000								
Bond Proceeds realloc 81	200,000				200,000	200,000								
SRF Drawdowns	15,118,290				4,356,000	4,356,000	6,505,290	4,257,000						
Other														
Total Resources	15,548,290				4,724,256	4,786,000	5,170,800	2,184,900						
ENDING BALANCE	0	(1,059)	(60,685)	(61,744)	(1,334,490)	(1,334,490)	(2,072,100)	0	0	0	0	0	0	0

Description: Part of SWADF Project.

This project will increase the capacity of the Southern Tier Interceptor. F12 improvements will increase the pipe line capacity from the Souther Tier pump station to the Area C equalization basin. This project also includes the construction of a high lift pump station at the existing Southern Tier pump station site.

Justification:

The high lift pump station and parallel force main will be used to accommodate the flow from the SWADF Equalization Basin at the old Norwalk treatment plant site.

Scheduling:

This project has been re-scheduled to begin F11 from F19. Design in F11/12. Construction in F12/14.

Relationship to General Plan and Other Projects:

This project is included in the WRA Facility Plan Update as an Expansion project but is now categorized as part of the SW Area Diversion Facility (SWADF).

Operating Budget Effect:

This project will increase operations and maintenance costs.

Fiscal 2013/Fiscal 2018 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
Wastewater Reclamation Authority Improvements				WRA Southern Tier Improvements - Western (Expansion Debt)								AG267 WRA990000 WRA103 b	
	TOTAL ESTIMATED COST	COST THROUGH F10	ACTUAL COST IN F11	COST THROUGH F11	Revised BUDGET F12	ESTIMATED COST THROUGH F12	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST FY2020
							F13	F14	F15	F16	F17	F18	
Expenses	7,373,430												7,373,430
Beginning Balance													
Interest Earnings													
Repair and Replacement Fund													
Communities													
Future Funding	7,373,430												7,373,430
Bond Proceeds													
SRF Drawdowns													
Other													
Total Resources	7,373,430												7,373,430
ENDING BALANCE	0	0	0	0	0	0	0	0	0	0	0	0	0

Description: Expansion Project.

This project will increase capacity in the western portion of the Southern Tier Interceptor.

Justification:

To accommodate the flow in the western service area of the Southern Tier Interceptor.

Scheduling:

This project is scheduled to begin past FY18. The scope and schedule of the project will be better determined in the new Facility Plan update.

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 2013/Fiscal 2018 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE						ACCOUNT				
Wastewater Reclamation Authority Improvements				WRA Equalization Basin Improvements						AG267 WRA990000 WRA104				
	TOTAL ESTIMATED COST	COST THROUGH F10	ACTUAL COST IN F11	COST THROUGH F11	Revised BUDGET F12	ESTIMATED COST THROUGH F12	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F18	
							F13	F14	F15	F16	F17	F18		
Expenses	1,736,450	4,603	107,232	111,835	1,313,028	1,424,863		311,587						
Beginning Balance					598,681									
Interest Earnings	2,347				2,347									
Repair and Replacement Fund Communities														
Future Funding	523,587				212,000	212,000		311,587						
Bond Proceeds	710,516		710,516	710,516		710,516								
SRF Drawdowns														
Other, Grant Money	500,000				500,000	500,000								
Total Resources	1,736,450		710,516	710,516	1,313,028	1,424,863		311,587						
ENDING BALANCE	0	(4,603)	603,284	598,681	0	0	0	0	0	0	0	0	0	0

Description:

Improvements/Modifications/Abandonment of existing WRA equalization basins. This project will modify and upgrade the existing Area C and Beaver Creek Equalization Basins in order to begin utilizing these facilities in the conveyance system.

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: F11/12

Improvements in Beaver Creek: F11/12

Abandonment of Highland Hills: F14

Relationship to General Plan and Other Projects:

These improvements will be funded from I-Jobs Grant \$500,000 and Core bond funds.

Operating Budget Effect:

This project will increase revenues and operations and maintenance costs.

Fiscal 2013/Fiscal 2018 Capital Improvements Program

PROJECT CATEGORY					PROJECT TITLE								ACCOUNT
Wastewater Reclamation Authority Improvements					WRA Ankeny Equalization Basin - additional equalization in the North East								AG267 WRA990000 WRA 1xx
	TOTAL ESTIMATED COST	COST THROUGH F10	ACTUAL COST IN F11	COST THROUGH F11	Revised BUDGET F12	ESTIMATED COST THROUGH F12	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F18
							F13	F14	F15	F16	F17	F18	F18
Expenses	6,500,000									6,500,000			
Beginning Balance													
Interest Earnings													
Repair and Replacement Fund Communities													
Future Funding	6,500,000									6,500,000			
Bond Proceeds													
SRF Drawdowns													
Other													
Total Resources	6,500,000									6,500,000			
ENDING BALANCE	0	0	0	0	0	0	0	0	0	0	0	0	0

Description:

This project will expand the existing Ankeny Equalization basin from 10 million to 20 million gallons of storage. The WRA will need to purchase four buildings at the Ankeny WWTP site from Ankeny for the construction of the expanded basin.

Justification:

To provide needed storage of flow from Ankeny in order to provide relief to interceptor sewer downstream and to the WRF during wet weather flow conditions.

Scheduling:

Design and construction in F16/17.

Relationship to General Plan and Other Projects:

These improvements are not in the 2004 Facility Update.

Operating Budget Effect:

Revenues and operations and maintenance costs will increase.

Fiscal 2013/Fiscal 2018 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
Wastewater Reclamation Authority Improvements				WRF Flood Mitigation - Grant funded								AG267 WRA990000 WRA 1xx	
	TOTAL ESTIMATED COST	COST THROUGH F10	ACTUAL COST IN F11	COST THROUGH F11	Revised BUDGET F12	ESTIMATED COST THROUGH F12	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F18
							F13	F14	F15	F16	F17	F18	
Expenses	7,300,000						300,000	4,000,000	3,000,000				
Beginning Balance								(300,000)	3,000,000				
Interest Earnings													
Repair and Replacement Fund Communities													
Future Funding	1,095,000							1,095,000					
Bond Proceeds													
SRF Drawdowns													
Other / Grant Money	6,205,000							6,205,000					
Total Resources	7,300,000							7,000,000	3,000,000				
ENDING BALANCE	0	0	0	0	0	0	(300,000)	3,000,000	0	0	0	0	0

Description:

A WRF Flood Mitigation Project will be constructed at the WRF to flood harden the facility. This project could include flood walls, raising of existing levee and flood protecting existing buildings. The exact scope will be determined once the Flood Inundation Study is complete.

Justification:

The WRA is applying for available funding from the Hazard Mitigation Grant Program. This grant has an 85/15 funding split. 15% would be the WRA's matching funds requirement.

Scheduling:

The Grant application is due in May 2012. Grant award would be late 2012.
Design FY13, Construction FY13/14.

Relationship to General Plan and Other Projects:

These improvements are not in the 2004 Facility Plan Update.

wra share 15%

1095000

Operating Budget Effect:

This project will reduce the risk of flooding at the WRF which could effect the cost of flood insurance to the WRA.

Fiscal 2013/Fiscal 2018 Capital Improvements Program

Fiscal 2013/Fiscal 2018 Capital Improvements Program													
PROJECT CATEGORY						PROJECT TITLE						ACCOUNT	
Wastewater Reclamation Authority Improvements						WRA Common Trunk						AG267 WRA990000 WRAXXX	
	TOTAL ESTIMATED COST	COST THROUGH F10	ACTUAL COST IN F11	COST THROUGH F11	Revised BUDGET F12	ESTIMATED COST THROUGH F12	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST FY2019
							F13	F14	F15	F16	F17	F18	
Expenses	9,262,840												9,262,840
Beginning Balance													
Interest Earnings													
Repair and Replacement Fund Communities													
Future Funding	9,262,840												9,262,840
Bond Proceeds													
SRF Drawdowns													
Other													
Total Resources	9,262,840												9,262,840
ENDING BALANCE	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 2013/Fiscal 2018 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
Wastewater Reclamation Authority Improvements				WRA Clive / USSD Joint Trunk								AG267 WRA990000 WRAXXX	
	TOTAL ESTIMATED COST	COST THROUGH F10	ACTUAL COST IN F11	COST THROUGH F11	Revised BUDGET F12	ESTIMATED COST THROUGH F12	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST
							F13	F14	F15	F16	F17	F18	FY2021
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
ENDING BALANCE	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 2013/Fiscal 2018 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
Wastewater Reclamation Authority Improvements				WRA Birdland Pump Station								AG267 WRA990000 WRAXXX	
	TOTAL ESTIMATED COST	COST THROUGH F10	ACTUAL COST IN F11	COST THROUGH F11	Revised BUDGET F12	ESTIMATED COST THROUGH F12	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST FY2021
							F13	F14	F15	F16	F17	F18	
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
ENDING BALANCE	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:

Fiscal 2013/Fiscal 2018 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
Wastewater Reclamation Authority Improvements				WRF Nutrient Removal P 1								AG267 WRA990000 WRAXXX	
	TOTAL ESTIMATED COST	COST THROUGH F10	ACTUAL COST IN F11	COST THROUGH F11	Revised BUDGET F12	ESTIMATED COST THROUGH F12	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST FY2022
							F13	F14	F15	F16	F17	F18	
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
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. 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.