

Des Moines Metropolitan Wastewater Reclamation Authority

2014+ Capital Improvements Program



Des Moines Metropolitan Wastewater Reclamation Authority

2014 Capital Improvements Program

Revised Budget for FY2013
Proposed Budget for FY2014
Projected Budget for FY2015-2019

Summary

Wastewater Reclamation Authority Improvements FY2014+

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

	TOTAL ESTIMATED COST	COST THROUGH F12	REVISED ESTIMATE F13	TOTAL ESTIMATED COST THROUGH	COST FOR SIX-YEAR PERIOD	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F19
						F14	F15	F16	F17	F18	F19	
Expenses, detail on following page	511,416,753	235,246,073	105,987,337	341,233,410	76,450,000	50,320,000	10,060,000	3,540,000	3,965,000	4,395,000	4,170,000	93,733,343
Resources:												
Beginning Balance	0	0	40,893,398	0		8,513,338	4,875,000	(330,000)	(5,000)	(5,000)	(330,000)	0
Interest Earnings	3,487,056	3,338,232	58,787	3,397,019	90,037	10,037	10,000	15,000	15,000	20,000	20,000	0
Renewal & Replacement Fund	1,350,300	1,350,300	0	1,350,300	0	0	0	0	0	0	0	0
Communities	38,176,534	12,376,534	3,300,000	15,676,534	22,500,000	3,500,000	3,600,000	3,700,000	3,800,000	3,900,000	4,000,000	0
Future Funding	89,767,144	0	2,945,176	2,945,176	13,088,625	11,993,625	1,095,000	0	0	0	0	73,733,343
Bond Proceeds	74,129,286	73,399,052	730,234	74,129,286	0	0	0	0	0	0	0	0
SRF Drawdowns	272,681,635	181,743,705	66,214,930	247,958,635	24,723,000	24,723,000	0	0	0	0	0	0
Other	31,494,798	3,931,648	358,150	4,289,798	7,205,000	6,455,000	150,000	150,000	150,000	150,000	150,000	20,000,000
Total Resources	511,086,753	276,139,471	114,500,675	349,746,748	67,606,662	55,195,000	9,730,000	3,535,000	3,960,000	4,065,000	3,840,000	93,733,343

Project Number	Project ID	Project Name	Funding	Page #
WRA069		Facility Plan Update - WRA	annual contrib	7
WRA074		Digester Improvements - WRF	Core Bond Funds	13
WRA077		Power Generation System	annual contrib	14
WRA078		Facilities Rehabilitation - WRF	annual contrib	15
WRA079ab		Special Projects (using Grant money)	I-Jobs	8-9
WRA080		West Side Interceptor Basin	Core Bond Funds	16
WRA081	Phase 21,22	SouthWest Area Diversion Facilities	Bond Funds / SRF	17
WRA082	Phase 13	West DM Outfall	Expansion Funds	18
WRA083		Contracted Sewer Maintenance	Operation funded	19
WRA085	Phase 24	Ankeny N Four Mile Interceptor	Expansion Funds	20
WRA086	Phase 17	DM River Outfall / New Main Outfall	Core Bond Funds	21
WRA087	Phase 17	Combined Sewer Solids Separation Facility	Core Bond Funds	22
WRA088	Phase 25	Ingersoll Run Overflow	Core Bond Funds	23
WRA091		Small CIP [thru 2009] & Studies	annual contrib	24
WRA092	Phase 18	West DM Outfall Extension	Expansion Funds	25
WRA093		Flow Monitoring System Improvements	Core Bond Funds	26
WRA096		Transition Costs - WRA	annual contrib	27
WRA097	Phase 23	Four Mile Interceptor Improvements	Expansion Funds	28
WRA098		Small CIP / Plant Improvement Projects to	annual contrib	10
WRA099	Phase 19	Mud Creek Interceptor	Expansion Funds	29
WRA100		Corridor Preservation	Expansion Funds	30
WRA101		Additional Equalization Basin in Northwest	to be determined	31
WRA103a	Phase 10	Southern Tier (Pumping) Improvements	Bond Funds / SRF	32
WRA103b	Phase 10	Southern Tier Improvements (Western)	Expansion Funds	33
WRA104		Equalization Basin Utilization Improvements	Core Bond Funds	34
WRA106ab		Small CIP / Plant Improvement Proj F13-F19	annual contrib	11-12
WRA1xx		Flood Mitigation at WRF	I-Jobs	36
WRA1xx		Common Trunk	Expansion Funds	38
WRA1xx		Joint Trunk	Expansion Funds	37
WRA1xx		Birdland Improvements	Core Bond Funds	39
WRA1xx		Nutrient Removal - WRF	Core Bond Funds	35

WASTEWATER RECLAMATION AUTHORITY
 COMPARISON OF LAST YEAR AND CURRENT YEAR CIP SHEETS
 FY2014-2019 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
<u>Core Projects</u>			Past Amt	2013 BOOK	2014 FILE	
wra 086	DM River Outfall / New Main Outfall	P 17	52,739,875	52,739,875	63,133,875	10,394,000
wra 087	Combined Sewer Solids Separation Design	P 17	53,426,995	53,426,995	51,776,995	(1,650,000)
			106,166,870	106,166,870	114,910,870	
wra 088	Ingersoll Run Sewer	P 25	2,597,954	2,597,954	2,597,954	-
wra 080	Westside Basin Interceptor	P 4	6,328,068	6,328,068	6,295,984	(32,084)
wra 093	Flow Monitoring System		6,743,433	6,743,433	6,743,433	-
wra 077	Power Generation System		4,700,052	4,700,052	4,700,052	-
wra 074	Digester Gas System		24,315,000	24,315,000	24,315,000	-
wra 104	Equalization Basin Improvements (I-Jobs)		1,736,450	1,736,450	2,212,750	476,300
Subtotal Core Projects			152,587,827	152,587,827	161,776,043	9,188,216
<u>Expansion Projects</u>						
wra 085	Ankeny Four Mile Interceptor Ext.	P 24	20,750,917	20,750,917	21,190,917	440,000
wra 097	FourMi Interceptor Improv.	P 23	27,133,564	27,133,564	26,676,864	(456,700)
wra 099	Mud Creek Interceptor	P 19	19,422,436	19,422,436	21,502,436	2,080,000
wra 100	Corridor Preservation		400,000	400,000	400,000	-
wra 082	WDM Outfall	P 13	17,194,984	17,194,984	16,488,984	(706,000)
wra 092	WDM Outfall Ext.	P 18	9,826,629	9,826,629	9,826,629	-
Subtotal Expansion Projects			94,728,530	94,728,530	96,085,830	1,357,300
wra 081	South West Area Diversion Facilities	P 22	94,874,885	94,874,885	98,144,885	3,270,000
wra 103a	Southern Tier Improvements for SW Area Div	P 10	15,548,290	15,548,290	16,448,290	900,000
South West Area Diversion Facilities			110,423,175	110,423,175	114,593,175	4,170,000
<u>Future Projects (Core, Expansion, Other)</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	-
wra 101	Additional Equalization (Basin) Northwest		20,000,000	20,000,000	20,000,000	-
core	WRF Flood Mitigation (I-Jobs)		7,300,000	7,300,000	7,300,000	-
core	Ankeny Equalization Basin Northeast	a	6,500,000	0		
expan	Common Trunk & Joint Trunk		24,828,971	24,828,971	24,828,971	-
wra 103b	Southern Tier Improvements Western (expansion)		7,373,430	7,373,430	7,373,430	-
Subtotal Future Projects			107,533,343	101,033,343	101,033,343	-
Total Project Costs (Bonded and Basins)			465,272,875	458,772,875	473,488,391	14,715,516
			0			
<u>Non-Bonded / Plant & System Projects</u>						
wra 069	Facilities Plan Update		1,579,010	1,579,010	1,702,156	123,146
wra 096	Transition / RE Transfer Costs (see note below)		440,000	440,000	310,000	(130,000)
wra 078	Facilities Rehabilitation, including RE purchases		3,061,788	3,061,788	3,261,788	200,000
wra 083	Sewer Maintenance contract work		1,100,000	1,100,000	1,200,000	100,000
wra xxx	WRF Energy Efficiency projects (I-Jobs)		316,450	316,450	1,321,408	1,004,958
wra 070	Process Equipment Replmt 2004-2009	*	6,890,105	0		
wra 091	Small CIP prior projects & Studies		2,305,000	2,305,000	2,402,153	97,153
wra 098	Small CIP projects & ProcEqRepl. 2010-2012		7,109,135	7,109,135	6,530,857	(578,278)
wra 106	Small CIP projects & ProcEqRepl. 2013-2015		7,755,000	7,755,000	8,125,000	370,000
wra 106 2	Small CIP future projects & future (3 to 4 years)		7,145,000	7,145,000	13,075,000	5,930,000
Total Non-Bonded Project Costs			37,701,488	30,811,383	37,928,362	7,116,979
WRA Total Expenses for Projects			502,974,363	489,584,258	511,416,753	21,832,495

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

* PROJECT CLOSED
 a project no longer included

6,890,105 511,416,753 SUMMARY TOTAL

6,500,000

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

WRA 2014

<u>Expenditures from CIP sheets</u>	2013	2014	2015	2016	2017	2018	2019	subtotal Spending
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WRA Projects - Expansion Category

85 Ph 24	Four Mile Interceptor Ext.	\$ 1,688,370.0	\$ 700,000.0					\$ 2,388,370.0
97 Ph 23	Four Mile Interceptor	250,019.0						250,019.0
82 Ph 13	WDM Outfall	149,298.0						149,298.0
92 Ph 18	WDM Outfall Ext.	2,945,472.0						2,945,472.0
99 Ph 19	Mud Creek	12,175,286.0	6,000,000.0					18,175,286.0
100	Corridor Preservation	65,668.0	\$ 50,000.0					115,668.0
103 b	Southern Tier Improvements							-
	Expansion Funding Ttl	\$ 17,274,113.0	\$ 6,750,000.0	\$ -	\$ -	\$ -	\$ -	\$ 24,024,113.0

WRA Projects - SW Area Div. Category

81 P21,22	SW Area Diversion Project	18,764,442.0	\$ 13,600,000.0	\$ 3,300,000.0				35,664,442.0
103 a	Southern Tier for SW ADF	9,547,573.0	\$ 6,580,000.0					16,127,573.0
	SW Area Funding Ttl	\$ 28,312,015.0	\$ 20,180,000.0	\$ 3,300,000.0	\$ -	\$ -	\$ -	\$ 51,792,015.0

WRA Projects - Core Category

86 Ph 17	DM River Outfall / Main Outfall	\$ 29,964,840.0	\$ 7,400,000.0					37,364,840.0
87 Ph 17	CSSS Facility	17,600,000.0	3,750,000.0					21,350,000.0
88 Ph 25	Ingersoll Run CSO	15,243.0	15,000.0					30,243.0
74 Ph 1	Digester Improvements	5,355,230.0	2,530,000.0					7,885,230.0
93 Ph 25	Flow Monitoring Seg 3	359,555.0						359,555.0
	Flood Mitigation at WRF (grant funded)		4,300,000.0	3,000,000.0				7,300,000.0
104 I Jobs	Equalization Basin Improvement	116,494.0	\$ 310,000.0					426,494.0
80 P4	Westside Basin Interceptor Seg 2							-
		\$ 53,411,362.0	\$ 18,305,000.0	\$ 3,000,000.0	\$ -	\$ -	\$ -	\$ 74,716,362.0

	2013	2014	2015	2016	2017	2018	2019		
<u>WRA Plant Projects - Annual Community Contributions</u>									
69	Facility Plan update	\$ 250,000.0	\$ 150,000.0	\$ 125,000.0	\$ 125,000.0	\$ 125,000.0	\$ 125,000.0	\$ 1,025,000.0	
77	Power Generation System	291,536.0	675,000.0			325,000.0	650,000.0	1,941,536.0	
78	Facilities Rehabilitation	244,813.0	250,000.0	250,000.0	200,000.0	200,000.0	200,000.0	1,544,813.0	
79	Special Projects (grant funded)	1,005,000.0						1,005,000.0	
83	Sewer Maintenance Contracts	144,729.0	250,000.0	150,000.0	150,000.0	150,000.0	150,000.0	1,144,729.0	
91	Small CIP & Studies	300,000.0	50,000.0	40,000.0	30,000.0	30,000.0	30,000.0	510,000.0	
96	Transition Costs	37,886.0						37,886.0	
98 & 106	Plant Projects, including Eq. Rep	4,715,883.0	\$ 3,710,000.0	\$ 3,195,000.0	\$ 3,035,000.0	\$ 3,135,000.0	\$ 3,240,000.0	\$ 3,665,000.0	24,695,883.0
		\$ 6,989,847.0	\$ 5,085,000.0	\$ 3,760,000.0	\$ 3,540,000.0	\$ 3,965,000.0	\$ 4,395,000.0	\$ 4,170,000.0	\$ 31,904,847.0
	Revised Estimate for F13	\$ 105,987,337.0							
	2014	\$ 50,320,000.0							
	2015		\$ 10,060,000.0						
	2016			\$ 3,540,000.0					
	2017				\$ 3,965,000.0				
	2018					\$ 4,395,000.0			
	2019						\$ 4,170,000.0		
	Summary of Costs, Six-Year-Period							\$ 76,450,000.0	

Fiscal 2014/Fiscal 2019 Capital Improvements Program - for Board Approval 2/19/13

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 F11	ACTUAL COST IN F12	COST THROUGH F12	Revised BUDGET F13	ESTIMATED COST THROUGH F13	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F19
							F14	F15	F16	F17	F18	F19	
Expenses	1,702,156	480,869	196,287	677,156	250,000	927,156	150,000	125,000	125,000	125,000	125,000	125,000	
Beginning Balance													
Interest Earnings	28,370	28,370		28,370		28,370							
Repair and Replacement Fund Communities	450,640	450,640		450,640		450,640							
Future Funding													
Bond Proceeds													
SRF Drawdowns													
Other / commty funds 098	1,223,146		198,146	198,146	250,000	448,146	150,000	125,000	125,000	125,000	125,000	125,000	
Total Resources	1,702,156	479,010	198,146	677,156	250,000	927,156	150,000	125,000	125,000	125,000	125,000	125,000	
ENDING BALANCE	0	(1,859)	1,859	0	0	0	0	0	0	0	0	0	0

Description:

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

The New Facility Plan will be submitted to IDNR for review and approval in early 2013.

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 2014/Fiscal 2019 Capital Improvements Program - for Board Approval 2/19/13

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 F11	ACTUAL COST IN F12	COST THROUGH F12	Revised BUDGET F13	ESTIMATED COST THROUGH F13	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F19
							F14	F15	F16	F17	F18	F19	
Expenses	456,204	83,225	74,979	158,204	298,000	456,204							
Beginning Balance													
Interest Earnings													
Repair and Replacement Fund													
Communities													
Future Funding													
Bond Proceeds													
SRF Drawdowns													
Other / comnty funds 098	456,204	158,204		158,204	298,000	456,204							
Total Resources	456,204	158,204		158,204	298,000	456,204							
ENDING BALANCE	0	74,979	(74,979)	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

F 13: VFD replacements; Motor replacements.

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 2014/Fiscal 2019 Capital Improvements Program - for Board Approval 2/19/13

PROJECT CATEGORY				PROJECT TITLE				ACCOUNT					
Wastewater Reclamation Authority Improvements				Special Projects [Grant Funded portion]				AG267 WRA990000 WRA079 2					
	TOTAL ESTIMATED COST	COST THROUGH F11	ACTUAL COST IN F12	COST THROUGH F12	Revised BUDGET F13	ESTIMATED COST THROUGH F13	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F19
							F14	F15	F16	F17	F18	F19	
Expenses	865,204	83,225	74,979	158,204	707,000	865,204							
Beginning Balance													
Interest Earnings													
Repair and Replacement Fund													
Communities													
Future Funding													
Bond Proceeds													
SRF Drawdowns													
Other, Grant Money (Fed Stim)	865,204	83,225	74,979	158,204	707,000	865,204							
Total Resources	865,204	83,225	74,979	158,204	707,000	865,204							
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

F 13: VFD replacements; Motor replacements.

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 2014/Fiscal 2019 Capital Improvements Program - for Board Approval 2/19/13

PROJECT CATEGORY							PROJECT TITLE						ACCOUNT
Wastewater Reclamation Authority Improvements							WRF Small Projects, & Process Equipment Repl for 2010, 2011, 2012						AG267 WRA990000 WRA98
	TOTAL ESTIMATED COST	COST THROUGH F11	ACTUAL COST IN F12	COST THROUGH F12	Revised BUDGET F13	ESTIMATED COST THROUGH F13	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F19
							F14	F15	F16	F17	F18	F19	
Expenses	6,530,857	1,710,867	1,324,107	3,034,974	2,520,883	5,555,857	975,000						
Beginning Balance					3,716,036		975,000						
Interest Earnings													
Repair and Replacement Fund Communities	7,357,360	4,557,360	2,800,000	7,357,360		7,357,360							
Future Funding													
Bond Proceeds													
SRF Drawdowns													
Other (tsfr out)	(826,503)	(158,204)	(448,146)	(606,350)	(220,153)	(826,503)							
Total Resources	6,530,857	4,399,156	2,351,854	6,751,010	3,495,883	6,530,857	975,000						
ENDING BALANCE	0	2,688,289	1,027,747	3,716,036	975,000	975,000	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 2014/Fiscal 2019 Capital Improvements Program - for Board Approval 2/19/13

PROJECT CATEGORY					PROJECT TITLE								ACCOUNT
Wastewater Reclamation Authority Improvements					WRF Small Projects, & Process Equipment Repl for 2013, 2014, 2015								AG267 WRA990000 WRA106 1
	TOTAL ESTIMATED COST	COST THROUGH F11	ACTUAL COST IN F12	COST THROUGH F12	Revised BUDGET F13	ESTIMATED COST THROUGH F13	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F19
							F14	F15	F16	F17	F18	F19	
Expenses	8,125,000				2,195,000	2,195,000	2,735,000	3,195,000					
Beginning Balance													
Interest Earnings	30,000				10,000	10,000	10,000	10,000					
Repair and Replacement Fund Communities	10,400,000				3,300,000	3,300,000	3,500,000	3,600,000					
Future Funding													
Bond Proceeds													
SRF Drawdowns													
Other (tsfr out)	(2,305,000)				(1,115,000)	(1,115,000)	(775,000)	(415,000)					
Total Resources	8,125,000				2,195,000	2,195,000	2,735,000	3,195,000					
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:

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 (\$1,400,000)

W3 improvements in F13 (\$1,300,000)

FY14 Highvoltage testing of Bus A; replace piping in Aeration Tank #2; replace high voltage cable; Heat Exchanger rebuilds (\$250,000)

FY14 Modify grease pans to improve winter operations; improve screening belt to reduce maintenance; 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. 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 2014/Fiscal 2019 Capital Improvements Program - for Board Approval 2/19/13

PROJECT CATEGORY					PROJECT TITLE								ACCOUNT
Wastewater Reclamation Authority Improvements					WRF Studies, Small Projects, & Process Equipment Replacement								AG267 WRA990000 WRA106 2
	TOTAL ESTIMATED COST	COST THROUGH F11	ACTUAL COST IN F12	COST THROUGH F12	Revised BUDGET F13	ESTIMATED COST THROUGH F13	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F19
							F14	F15	F16	F17	F18	F19	
Expenses	13,075,000								3,035,000	3,135,000	3,240,000	3,665,000	
Beginning Balance													
Interest Earnings	70,000								15,000	15,000	20,000	20,000	
Repair and Replacement Fund Communities	15,400,000								3,700,000	3,800,000	3,900,000	4,000,000	
Future Funding													
Bond Proceeds													
SRF Drawdowns													
Other (tsfr out)	(2,395,000)								(680,000)	(680,000)	(680,000)	(355,000)	
Total Resources	13,075,000								3,035,000	3,135,000	3,240,000	3,665,000	
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 2014/Fiscal 2019 Capital Improvements Program - for Board Approval 2/19/13

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
Wastewater Reclamation Authority Improvements				WRF Digester Improvements								AG267 WRA990000 WRA074	
	TOTAL ESTIMATED COST	COST THROUGH F11	ACTUAL COST IN F12	COST THROUGH F12	Revised BUDGET F13	ESTIMATED COST THROUGH F13	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD					COST BEYOND F19	
							F14	F15	F16	F17	F18		F19
Expenses	24,315,000	10,685,754	5,744,016	16,429,770	5,355,230	21,785,000	2,530,000						
Beginning Balance					7,135,230		1,780,000						
Interest Earnings	90,000	90,000		90,000		90,000							
Repair and Replacement Fund Communities													
Future Funding	750,000						750,000						
Bond Proceeds	210,000	210,000		210,000		210,000							
SRF Drawdowns	23,265,000	23,265,000		23,265,000		23,265,000							
Other / from Small CIP													
Total Resources	24,315,000	23,565,000		23,565,000	7,135,230	23,565,000	2,530,000						
ENDING BALANCE	0	12,879,246	(5,744,016)	7,135,230	1,780,000	1,780,000	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 F13. 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 2014/Fiscal 2019 Capital Improvements Program - for Board Approval 2/19/13

PROJECT CATEGORY				PROJECT TITLE							ACCOUNT		
Wastewater Reclamation Authority Improvements				WRF Power Generation System [funded from WRA098]							AG267 WRA990000 WRA077		
	TOTAL ESTIMATED COST	COST THROUGH F11	ACTUAL COST IN F12	COST THROUGH F12	Revised BUDGET F13	ESTIMATED COST THROUGH F13	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						
							F14	F15	F16	F17	F18	F19	F17
Expenses	4,700,052	2,725,052	33,464	2,758,516	291,536	3,050,052	675,000				325,000	650,000	
Beginning Balance					316,536		350,000				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	273,118		273,118		273,118							
Future Funding													
Bond Proceeds	1,755,879	1,755,879		1,755,879		1,755,879							
SRF Drawdowns													
Other / comnty funds 098	1,625,000				325,000	325,000	325,000		325,000	325,000	325,000	325,000	
Total Resources	4,700,052	3,075,052		3,075,052	641,536	3,400,052	675,000			325,000	650,000	650,000	
ENDING BALANCE	0	350,000	(33,464)	316,536	350,000	350,000	0	0	325,000	325,000	0	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.

Scheduling:
 Engine overhauls are required every 25,000 hours. Overhauls for two engines are due in FY14.

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 2014/Fiscal 2019 Capital Improvements Program - for Board Approval 2/19/13

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
Wastewater Reclamation Authority Improvements				WRF Facilities Rehabilitation [funded from WRA098]								AG267 WRA990000 WRA078	
	TOTAL ESTIMATED COST	COST THROUGH F11	ACTUAL COST IN F12	COST THROUGH F12	Revised BUDGET F13	ESTIMATED COST THROUGH F13	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F19
							F14	F15	F16	F17	F18	F19	
Expenses	3,261,788	1,303,891	413,084	1,716,975	244,813	1,961,788	250,000	250,000	200,000	200,000	200,000	200,000	
Beginning Balance					4,813								
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	970,000		970,000		970,000							
Future Funding													
Bond Proceeds													
SRF Drawdowns													
Other / commty funds 098	1,950,000		410,000	410,000	240,000	650,000	250,000	250,000	200,000	200,000	200,000	200,000	
Total Resources	3,261,788	1,311,788	410,000	1,721,788	244,813	1,961,788	250,000	250,000	200,000	200,000	200,000	200,000	
ENDING BALANCE	0	7,897	(3,084)	4,813	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.

All HVAC Improvements and Roof replacements are budgeted in the project number.

Justification:

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

Scheduling:

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

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

F12: Roof Replacement on Building 92, Building 12(part).

F13: Roof Replacement on Building 93, Building 12(part).

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 2014/Fiscal 2019 Capital Improvements Program - for Board Approval 2/19/13

PROJECT CATEGORY				PROJECT TITLE							ACCOUNT		
Wastewater Reclamation Authority Improvements				WRA West Side Interceptor Basin & WSPS Mitigation							AG267 WRA990000 WRA080		
	TOTAL ESTIMATED COST	COST THROUGH F11	ACTUAL COST IN F12	COST THROUGH F12	Revised BUDGET F13	ESTIMATED COST THROUGH F13	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD					COST BEYOND F19	
							F14	F15	F16	F17	F18		F19
Expenses	6,295,984	6,253,072	42,912	6,295,984		6,295,984							last time in cip
Beginning Balance													
Interest Earnings	86,285	118,369	(32,084)	86,285		86,285							
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	(500,000)	4,889,658		4,889,658							
SRF Drawdowns	1,296,900		1,296,900	1,296,900		1,296,900							
Other													
Total Resources	6,295,984	5,531,168	764,816	6,295,984		6,295,984							
ENDING BALANCE	0	(721,904)	721,904	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.

PROJECT IS COMPLETE

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 2014/Fiscal 2019 Capital Improvements Program - for Board Approval 2/19/13

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 F11	ACTUAL COST IN F12	COST THROUGH F12	Revised BUDGET F13	ESTIMATED COST THROUGH F13	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F19	
							F14	F15	F16	F17	F18	F19		
Expenses	98,144,885	51,027,134	11,453,309	62,480,443	18,764,442	81,244,885	13,600,000	3,300,000						
Beginning Balance					7,597,405		11,594,963	3,300,000						
Interest Earnings	1,281,000	1,280,963		1,280,963		1,280,963	37							
Repair and Replacement Fund Communities														
Future Funding														
Bond Proceeds	24,623,085	25,623,085	(1,000,000)	24,623,085		24,623,085								
SRF Drawdowns Available	72,240,800	34,273,800	9,900,000	44,173,800	22,762,000	66,935,800	5,305,000							
Other / LOAN to WRA092														
Total Resources	98,144,885	61,177,848	8,900,000	70,077,848	30,359,405	92,839,848	16,900,000	3,300,000						
ENDING BALANCE	0	10,150,714	(2,553,309)	7,597,405	11,594,963	11,594,963	3,300,000	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 F10 through F14.

Phase 22, Segment 1 - F10, P22seg. 2 - F08/09, P22seg. 3 - F11/12

Phase 22, Segment 4 - F13/14, P22seg. 5 - F13/14, 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 2014/Fiscal 2019 Capital Improvements Program - for Board Approval 2/19/13

PROJECT CATEGORY				PROJECT TITLE				ACCOUNT				
Wastewater Reclamation Authority Improvements				West Des Moines Outfall Phase13				AG267 WRA990000 WRA082				
	TOTAL ESTIMATED COST	COST THROUGH F11	ACTUAL COST IN F12	COST THROUGH F12	Revised BUDGET F13	ESTIMATED COST THROUGH F13	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD					COST FY2015
							F14	F15	F16	F17	F18	
Expenses	16,488,984	12,294,104	4,045,582	16,339,686	149,298	16,488,984						
Beginning Balance					149,298							
Interest Earnings	216,905	118,045	98,860	216,905		216,905						
Repair and Replacement Fund Communities												
Future Funding												
Bond Proceeds	1,368,394	1,168,394	200,000	1,368,394		1,368,394						
SRF Drawdowns	14,903,685	12,145,545	2,758,140	14,903,685		14,903,685						
Other												
Total Resources	16,488,984	13,431,984	3,057,000	16,488,984	149,298	16,488,984						
ENDING BALANCE	0	1,137,880	(988,582)	149,298	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 2014/Fiscal 2019 Capital Improvements Program - for Board Approval 2/19/13

PROJECT CATEGORY				PROJECT TITLE									ACCOUNT
Wastewater Reclamation Authority Improvements				WRA Sewer Maintenance (Inspections & Repairs)									AG267 WRA990000 WRA083
	TOTAL ESTIMATED COST	COST THROUGH F11	ACTUAL COST IN F12	COST THROUGH F12	Revised BUDGET F13	ESTIMATED COST THROUGH F13	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F19
							F14	F15	F16	F17	F18	F19	
Expenses	1,200,000	40,328	14,943	55,271	144,729	200,000	250,000	150,000	150,000	150,000	150,000	150,000	
Beginning Balance					(271)								
Interest Earnings													
Repair and Replacement Fund													
Communities													
Future Funding													
Bond Proceeds													
SRF Drawdowns													
Funding from O&M budget (16	1,200,000	50,000	5,000	55,000	145,000	200,000	250,000	150,000	150,000	150,000	150,000	150,000	
Total Resources	1,200,000	50,000	5,000	55,000	144,729	200,000	250,000	150,000	150,000	150,000	150,000	150,000	
ENDING BALANCE	0	9,672	(9,943)	(271)	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:

- F11: Investigate southwest outfall and four mile interceptor.
- F13/14: Southside Des Moines River Interceptor Investigation.

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 2014/Fiscal 2019 Capital Improvements Program - for Board Approval 2/19/13

PROJECT CATEGORY				PROJECT TITLE				ACCOUNT					
Wastewater Reclamation Authority Improvements				WRA Four Mile Interceptor Extension Phase 24				AG267 WRA990000 WRA085					
	TOTAL ESTIMATED COST	COST THROUGH F11	ACTUAL COST IN F12	COST THROUGH F12	Revised BUDGET F13	ESTIMATED COST THROUGH F13	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD					COST BEYOND F19	
							F14	F15	F16	F17	F18		F19
Expenses	21,190,917	18,441,880	360,667	18,802,547	1,688,370	20,490,917	700,000						
Beginning Balance					633,834		700,000						
Interest Earnings	449,140	445,464		445,464	3,676	449,140							
Repair and Replacement Fund Communities													
Future Funding													
Bond Proceeds	10,547,988	10,547,988		10,547,988		10,547,988							
SRF Drawdowns	9,835,860	300,000	8,115,000	8,415,000	1,420,860	9,835,860							
Other / POLK CO. & Core97	357,929	27,929		27,929	330,000	357,929							
Total Resources	21,190,917	11,321,381	8,115,000	19,436,381	2,388,370	21,190,917	700,000						
ENDING BALANCE	0	(7,120,499)	7,754,333	633,834	700,000	700,000	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 2014/Fiscal 2019 Capital Improvements Program - for Board Approval 2/19/13

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 F11	ACTUAL COST IN F12	COST THROUGH F12	Revised BUDGET F13	ESTIMATED COST THROUGH F13	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F19
							F14	F15	F16	F17	F18	F19	
Expenses	63,133,875	16,011,353	9,757,682	25,769,035	29,964,840	55,733,875	7,400,000						
Beginning Balance			814,600		(1,355,090)		(7,761,000)						
Interest Earnings	375,156	337,356		337,356	37,800	375,156							
Repair and Replacement Fund Communities													
Future Funding													
Bond Proceeds	11,703,279	11,703,279		11,703,279		11,703,279							
SRF Drawdowns	50,692,100	1,461,720	10,781,100	12,242,820	23,288,280	35,531,100	15,161,000						
Other / Utility credits, CDM	363,340	130,490		130,490	232,850	363,340							
Total Resources	63,133,875	13,632,845	11,595,700	24,413,945	22,203,840	47,972,875	7,400,000						
ENDING BALANCE	0	(2,378,508)	1,838,018	(1,355,090)	(7,761,000)	(7,761,000)	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.

Operating Budget Effect:

This project will increase operations and maintenance costs.

Fiscal 2014/Fiscal 2019 Capital Improvements Program - for Board Approval 2/19/13

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
Wastewater Reclamation Authority Improvements				Combined Sewer Solids Separation Facility Phase 17								AG267 WRA990000 WRA087	
	TOTAL ESTIMATED COST	COST THROUGH F11	ACTUAL COST IN F12	COST THROUGH F12	Revised BUDGET F13	ESTIMATED COST THROUGH F13	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F19
							F14	F15	F16	F17	F18	F19	
Expenses	51,776,995	13,728,515	16,698,480	30,426,995	17,600,000	48,026,995	3,750,000						
Beginning Balance					17,500,000		150,000						
Interest Earnings	54,995	54,995		54,995		54,995							
Repair and Replacement Fund Communities													
Future Funding	3,600,000						3,600,000						
Bond Proceeds	800,000	550,000		550,000	250,000	800,000							
SRF Drawdowns	47,322,000	3,600,000	43,722,000	47,322,000		47,322,000							
Other													
Total Resources	51,776,995	4,204,995	43,722,000	47,926,995	17,750,000	48,176,995	3,750,000						
ENDING BALANCE	0	(9,523,520)	27,023,520	17,500,000	150,000	150,000	0	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 2014/Fiscal 2019 Capital Improvements Program - for Board Approval 2/19/13

PROJECT CATEGORY		PROJECT TITLE										ACCOUNT	
Wastewater Reclamation Authority Improvements					Ingersoll Run Combined Sewer Overflow Phase 25							AG267 WRA990000 WRA088	
	TOTAL ESTIMATED COST	COST THROUGH F11	ACTUAL COST IN F12	COST THROUGH F12	Revised BUDGET F13	ESTIMATED COST THROUGH F13	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD					COST BEYOND F19	
							F14	F15	F16	F17	F18	F19	
Expenses	2,597,954	2,567,711		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	440,759	(410,516)	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 2014/Fiscal 2019 Capital Improvements Program - for Board Approval 2/19/13

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 F11	ACTUAL COST IN F12	COST THROUGH F12	Revised BUDGET F13	ESTIMATED COST THROUGH F13	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F19
							F14	F15	F16	F17	F18	F19	
Expenses	2,402,153	1,688,907	203,246	1,892,153	300,000	2,192,153	50,000	40,000	30,000	30,000	30,000	30,000	
Beginning Balance					27,847								
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 / WRA098	(447,847)	(850,000)	(80,000)	(930,000)	272,153	(657,847)	50,000	40,000	30,000	30,000	30,000	30,000	
Total Resources	2,402,153	2,000,000	(80,000)	1,920,000	300,000	2,192,153	50,000	40,000	30,000	30,000	30,000	30,000	
ENDING BALANCE	0	311,093	(283,246)	27,847	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.

F12-13: WRA Operating Plan development; WRF Flood Inundation study.

F13: Biogas Market Research 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 2014/Fiscal 2019 Capital Improvements Program - for Board Approval 2/19/13

PROJECT CATEGORY				PROJECT TITLE				ACCOUNT					
Wastewater Reclamation Authority Improvements				West Des Moines Outfall Extension Phase 18				AG267 WRA990000 WRA092					
	TOTAL ESTIMATED COST	COST THROUGH F11	ACTUAL COST IN F12	COST THROUGH F12	Revised BUDGET F13	ESTIMATED COST THROUGH F13	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F19
							F14	F15	F16	F17	F18	F19	
Expenses	9,826,629	6,880,507	650	6,881,157	2,945,472	9,826,629							
Beginning Balance					296								
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	2,945,472	9,826,629							
ENDING BALANCE	0	946	(650)	296	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 2014/Fiscal 2019 Capital Improvements Program - for Board Approval 2/19/13

PROJECT CATEGORY			PROJECT TITLE					ACCOUNT					
Wastewater Reclamation Authority Improvements			WRA Flow Monitoring System Improvements					AG267 WRA990000 WRA093					
	TOTAL ESTIMATED COST	COST THROUGH F11	ACTUAL COST IN F12	COST THROUGH F12	Revised BUDGET F13	ESTIMATED COST THROUGH F13	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD					COST BEYOND F19	
							F14	F15	F16	F17	F18		F19
Expenses	6,743,433	5,439,768	944,110	6,383,878	359,555	6,743,433							
Beginning Balance					352,555								
Interest Earnings	168,969	161,969		161,969	7,000	168,969							
Repair and Replacement Fund Communities													
Future Funding													
Bond Proceeds (reallocated)	6,574,464	5,624,464	950,000	6,574,464		6,574,464							
SRF Drawdowns													
Other													
Total Resources	6,743,433	5,786,433	950,000	6,736,433	359,555	6,743,433							
ENDING BALANCE	0	346,665	5,890	352,555	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:

This project will increase operation and maintenance cost of the WRA Flow Monitoring System.

Fiscal 2014/Fiscal 2019 Capital Improvements Program - for Board Approval 2/19/13

PROJECT CATEGORY				PROJECT TITLE							ACCOUNT		
Wastewater Reclamation Authority Improvements				WRA Transition Costs							AG267 WRA99000 WRA096		
	TOTAL ESTIMATED COST	COST THROUGH F11	ACTUAL COST IN F12	COST THROUGH F12	Revised BUDGET F13	ESTIMATED COST THROUGH F13	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD					COST BEYOND F19	
							F14	F15	F16	F17	F18	F19	
Expenses	310,000	260,659	11,455	272,114	37,886	310,000							
Beginning Balance					87,886								
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 / WRA091	(130,000)		(80,000)	(80,000)	(50,000)	(130,000)							
Total Resources	310,000	440,000	(80,000)	360,000	37,886	310,000							
ENDING BALANCE	0	179,341	(91,455)	87,886	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 2014/Fiscal 2019 Capital Improvements Program - for Board Approval 2/19/13

PROJECT CATEGORY		PROJECT TITLE										ACCOUNT	
Wastewater Reclamation Authority Improvements					Four Mile Interceptor Improvements Phase 23						AG267 WRA990000 WRA097		
	TOTAL ESTIMATED COST	COST THROUGH F11	ACTUAL COST IN F12	COST THROUGH F12	Revised BUDGET F13	ESTIMATED COST THROUGH F13	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F19
							F14	F15	F16	F17	F18	F19	
Expenses	26,676,864	25,666,103	760,742	26,426,845	250,019	26,676,864							
Beginning Balance					1,306,719								
Interest Earnings	34,256	34,256		34,256		34,256							
Repair and Replacement Fund Communities													
Future Funding													
Bond Proceeds	1,326,283	1,326,283		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	1,853,325	1,642,582	1,267,443	2,910,025	(1,056,700)	1,853,325							
Total Resources	26,676,864	19,041,121	8,692,443	27,733,564	250,019	26,676,864							
ENDING BALANCE	0	(6,624,982)	7,931,701	1,306,719	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 2014/Fiscal 2019 Capital Improvements Program - for Board Approval 2/19/13

PROJECT CATEGORY				PROJECT TITLE				ACCOUNT					
Wastewater Reclamation Authority Improvements				Mud Creek Interceptor P 19				AG267 WRA990000 WRA099					
	TOTAL ESTIMATED COST	COST THROUGH F11	ACTUAL COST IN F12	COST THROUGH F12	Revised BUDGET F13	ESTIMATED COST THROUGH F13	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F19
							F14	F15	F16	F17	F18	F19	
Expenses	21,502,436	10,110	3,317,040	3,327,150	12,175,286	15,502,436	6,000,000						
Beginning Balance					(1,397,150)		(1,333,625)						
Interest Earnings	100,311		100,000	100,000	311	100,311							
Repair and Replacement Fund Communities													
Future Funding	7,333,625						7,333,625						
Bond Proceeds	830,000	30,000	800,000	830,000		830,000							
SRF Drawdowns	12,238,500				12,238,500	12,238,500							
Other, Altoona	1,000,000		1,000,000	1,000,000		1,000,000							
Total Resources	21,502,436	30,000	1,900,000	1,930,000	10,841,661	14,168,811	6,000,000						
ENDING BALANCE	0	19,890	(1,417,040)	(1,397,150)	(1,333,625)	(1,333,625)	0	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-F12/14.

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 2014/Fiscal 2019 Capital Improvements Program - for Board Approval 2/19/13

PROJECT CATEGORY		PROJECT TITLE										ACCOUNT	
Wastewater Reclamation Authority Improvements					WRA Corridor Preservation							AG267 WRA990000 WRA100	
	TOTAL ESTIMATED COST	COST THROUGH F11	ACTUAL COST IN F12	COST THROUGH F12	Revised BUDGET F13	ESTIMATED COST THROUGH F13	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F19
							F14	F15	F16	F17	F18	F19	
Expenses	400,000	157,340	126,992	284,332	65,668	350,000	50,000						
Beginning Balance					115,668		50,000						
Interest Earnings	2,725		2,725	2,725		2,725							
Repair and Replacement Fund Communities	22,275	22,275		22,275		22,275							
Future Funding													
Bond Proceeds	375,000	375,000		375,000		375,000							
SRF Drawdowns													
Other / Small CIP													
Total Resources	400,000	397,275	2,725	400,000	115,668	400,000	50,000						
ENDING BALANCE	0	239,935	(124,267)	115,668	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 2014/Fiscal 2019 Capital Improvements Program - for Board Approval 2/19/13

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
Wastewater Reclamation Authority Improvements				WRA Additional Conveyance and/or Equalization Basin in the North West								AG267 WRA990000 WRA101	
	TOTAL ESTIMATED COST	COST THROUGH F11	ACTUAL COST IN F12	COST THROUGH F12	Revised BUDGET F13	ESTIMATED COST THROUGH F13	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F19
							F14	F15	F16	F17	F18	F19	
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:

Additional conveyance system or 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 on the existing conveyance system from the northern service area; operations and maintenance costs will increase.

Fiscal 2014/Fiscal 2019 Capital Improvements Program - for Board Approval 2/19/13

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 F11	ACTUAL COST IN F12	COST THROUGH F12	Revised BUDGET F13	ESTIMATED COST THROUGH F13	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST
							F14	F15	F16	F17	F18	F19	FY2020
Expenses	16,448,290	61,744	258,973	320,717	9,547,573	9,868,290	6,580,000						
Beginning Balance					5,035,283		1,993,000	(330,000)	(330,000)	(330,000)	(330,000)	(330,000)	
Interest Earnings													
Repair and Replacement Fund													
Communities													
Future Funding													
Bond Proceeds realloc 81	1,000,000		1,000,000	1,000,000		1,000,000							
SRF Drawdowns	15,118,290		4,356,000	4,356,000	6,505,290	10,861,290	4,257,000						
Other													
Total Resources	16,118,290		5,356,000	5,356,000	11,540,573	11,861,290	6,250,000	(330,000)	(330,000)	(330,000)	(330,000)	(330,000)	
ENDING BALANCE	(330,000)	(61,744)	5,097,027	5,035,283	1,993,000	1,993,000	(330,000)	(330,000)	(330,000)	(330,000)	(330,000)	(330,000)	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 parrallel 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 F13/14.

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 2014/Fiscal 2019 Capital Improvements Program - for Board Approval 2/19/13

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 F11	ACTUAL COST IN F12	COST THROUGH F12	Revised BUDGET F13	ESTIMATED COST THROUGH F13	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST FY2020
							F14	F15	F16	F17	F18	F19	
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 2014/Fiscal 2019 Capital Improvements Program - for Board Approval 2/19/13

PROJECT CATEGORY				PROJECT TITLE						ACCOUNT				
Wastewater Reclamation Authority Improvements				WRA Equalization Basin Improvements						AG267 WRA990000 WRA104				
	TOTAL ESTIMATED COST	COST THROUGH F11	ACTUAL COST IN F12	COST THROUGH F12	Revised BUDGET F13	ESTIMATED COST THROUGH F13	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F19	
							F14	F15	F16	F17	F18	F19		
Expenses	2,212,750	111,835	1,674,421	1,786,256	116,494	1,902,750	310,000							
Beginning Balance					(363,740)									
Interest Earnings														
Repair and Replacement Fund Communities														
Future Funding	310,000						310,000							
Bond Proceeds	1,402,750	710,516	212,000	922,516	480,234	1,402,750								
SRF Drawdowns														
Other, Grant Money	500,000		500,000	500,000		500,000								
Total Resources	2,212,750	710,516	712,000	1,422,516	116,494	1,902,750	310,000							
ENDING BALANCE	0	598,681	(962,421)	(363,740)	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 2014/Fiscal 2019 Capital Improvements Program - for Board Approval 2/19/13

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
Wastewater Reclamation Authority Improvements				WRF Nutrient Removal P 1								AG267 WRA990000 WRAXXX	
	TOTAL ESTIMATED COST	COST THROUGH F11	ACTUAL COST IN F12	COST THROUGH F12	Revised BUDGET F13	ESTIMATED COST THROUGH F13	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST
							F14	F15	F16	F17	F18	F19	FY2022
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.

Fiscal 2014/Fiscal 2019 Capital Improvements Program - for Board Approval 2/19/13

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
Wastewater Reclamation Authority Improvements				WRF Flood Mitigation - Grant funded								AG267 WRA990000 WRA 1xx	
	TOTAL ESTIMATED COST	COST THROUGH F11	ACTUAL COST IN F12	COST THROUGH F12	Revised BUDGET F13	ESTIMATED COST THROUGH F13	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F19
							F14	F15	F16	F17	F18	F19	
Expenses	7,300,000						4,300,000	3,000,000					
Beginning Balance								1,905,000					
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						6,205,000	3,000,000					
ENDING BALANCE	0	0	0	0	0	0	1,905,000	0	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 Flood Inundation Study is complete and outlines a scope of projects.

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 was submitted in April 2012. No grant funds are being awarded at this time. Design FY14, Construction FY14/15 if FEMA funds become available.

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 2014/Fiscal 2019 Capital Improvements Program - for Board Approval 2/19/13

PROJECT CATEGORY				PROJECT TITLE							ACCOUNT		
Wastewater Reclamation Authority Improvements				WRA Clive / USSD Joint Trunk							AG267 WRA990000 WRAXXX		
	TOTAL ESTIMATED COST	COST THROUGH F11	ACTUAL COST IN F12	COST THROUGH F12	Revised BUDGET F13	ESTIMATED COST THROUGH F13	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST FY2021
							F14	F15	F16	F17	F18	F19	
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 2014/Fiscal 2019 Capital Improvements Program - for Board Approval 2/19/13

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
Wastewater Reclamation Authority Improvements				WRA Common Trunk								AG267 WRA990000 WRAXXX	
	TOTAL ESTIMATED COST	COST THROUGH F11	ACTUAL COST IN F12	COST THROUGH F12	Revised BUDGET F13	ESTIMATED COST THROUGH F13	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST
							F14	F15	F16	F17	F18	F19	FY2019
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 2014/Fiscal 2019 Capital Improvements Program - for Board Approval 2/19/13

PROJECT CATEGORY				PROJECT TITLE							ACCOUNT		
Wastewater Reclamation Authority Improvements				WRA Birdland Pump Station							AG267 WRA990000 WRAXXX		
	TOTAL ESTIMATED COST	COST THROUGH F11	ACTUAL COST IN F12	COST THROUGH F12	Revised BUDGET F13	ESTIMATED COST THROUGH F13	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST FY2021
							F14	F15	F16	F17	F18	F19	
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:

List of WRA Projects / Alpha by Category

Project Number	Project ID	Project Name	Funding
WRA1xx	Phase 25 3	Birdland Improvements	Core Bond Funds
WRA087	Phase 17 s2	Combined Sewer Solids Separation Facility	Core Bond Funds
WRA074		Digester Improvements - WRF	Core Bond Funds
WRA086	Phase 17	DM River Outfall / New Main Outfall	Core Bond Funds
WRA104		Equalization Basin Utilization Improvements	Core Bond Funds
WRA093	Phase 25 2	Flow Monitoring System Improvements	Core Bond Funds
WRA088	Phase 25 1	Ingersoll Run Overflow	Core Bond Funds
WRA1xx		Nutrient Removal - WRF	Core Bond Funds
WRA080		West Side Interceptor Basin	Core Bond Funds
WRA078		Facilities Rehabilitation - WRF	annual contrib
WRA069		Facility Plan Update - WRA	annual contrib
WRA077		Power Generation System	annual contrib
WRA106ab		Small CIP / Plant Improvement Proj F13-F19	annual contrib
WRA098		Small CIP / Plant Improvement Projects to	annual contrib
WRA091		Small CIP [thru 2009] & Studies	annual contrib
WRA096		Transition Costs - WRA	annual contrib
WRA1xx		Flood Mitigation at WRF	I-Jobs
WRA079		Special Projects (using Grant money)	I-Jobs
WRA083		Contracted Sewer Maintenance	Operation funded
WRA103a	Phase 10	Southern Tier (Pumping) Improvements	Bond Funds / SRF
WRA081	Phase 21,22	SouthWest Area Diversion Facilities	Bond Funds / SRF
WRA101		Additional Equalization Basin in Northwest	to be determined
WRA1xx		Common Trunk	Expansion Funds
WRA100		Corridor Preservation	Expansion Funds
WRA085	Phase 24	Four Mile Interceptor Extension	Expansion Funds
WRA097	Phase 23	Four Mile Interceptor Improvements	Expansion Funds
WRA1xx		Joint Trunk	Expansion Funds
WRA099	Phase 19	Mud Creek Interceptor	Expansion Funds
WRA103b	Phase 10	Southern Tier Improvements (Western)	Expansion Funds
WRA082	Phase 13	West DM Outfall	Expansion Funds
WRA092	Phase 18	West DM Outfall Extension	Expansion Funds