

Chapter 8

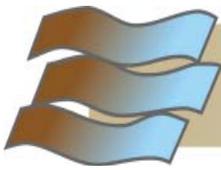
Capital Improvement Program

CHAPTER OVERVIEW

The long-range Capital Improvement Program (CIP) for Pima County Wastewater Management Department (PCWMD) reflects an overall integrated vision of the future of the system. The main concepts are:

- Existing metropolitan treatment capacity is sufficient for the next 20 years. However, more flows should be redistributed to Ina Road Wastewater Pollution Control Facility (WPCF) to take advantage of the recent 12.5 million gallons per day (MGD) expansion. The Plant Interconnect, funded by the 2004 Bond Authorization and scheduled for completion in 2009, will accomplish the redistribution of flows.
- Expansion of the Ina Road WPCF will need to be initiated in 2020 with the addition of another 12.5 MGD expansion and be completed by 2025.
- The Roger Road Wastewater Treatment Plant (WWTP) needs: significant process improvement including building and structural upgrades, denitrification, significant odor reductions and off-loading all biosolids treatment to Ina Road WPCF.
- The Ina Road WPCF needs: denitrification of the original 25 MGD plant, (funded with 2004 Bond Authorization and augmented by another allocation in the proposed 2008 bond issuance, the new lab/administration building; an electrical upgrade and significant miscellaneous rehabilitation upgrades.
- Major conveyance needs are the Santa Cruz and the Tanque Verde interceptor, Plant Interconnect, and the Park/18th Street Interceptor. The Santa Cruz Interceptor, Tanque Verde Interceptor, and Plant Interconnect will be completed with 2004 Bond Authorization.
- A major conveyance capital rehabilitation and proactive Capacity, Management, Operations and Maintenance (CMOM) program will be initiated during this period funded in part by the Miscellaneous Conveyance Rehabilitation project in the 2004 Bond Authorization.
- Outlying Treatment Facilities needs include: treatment capacity improvements and expansions at Marana, Corona de Tucson and Avra Valley WWTFs, in the first part of planning period and Mt. Lemmon and Green Valley WWTFs at the end of the 20-year period.
- Significant regulatory expenditures during this 20 year period are:

Denitrification Ina Road WPCF/Roger Road WWTP	\$132 million.
Implement Comprehensive Biosolids program	\$40 million.

**CHAPTER 8.0****CAPITAL IMPROVEMENT PROGRAM**

The CIP prepared for the 2006 Pima County Metropolitan Facility Plan Update provides a 20-year forecast of the necessary infrastructure rehabilitation, capacity expansion, and anticipated regulatory driven improvements in treatment and conveyance. Chapter 8 will address maximizing capitalized assets, the 20-year funding requirements, and details of the 20-year capital requirements presented in four, 5-year programs. The four, 5-year CIPs are shown in Tables 8.1 through 8.4 respectively. Estimated costs are in 2005 dollars. The 20-year plan is outlined in Table 8.5 (see inserted pocket).

In Table 8.1 both projects and sub-projects are shown. For example, under the 2004 bond projects there is a bond project for Roger Road Rehabilitation with sub projects listed underneath. The dollar amounts listed under the projects are the accompanying sub-project costs. Tables 8.1 through 8.4 generally only show the active projects in the 5-year period for the specific table.

The 20-year CIP was developed based upon both currently known and future anticipated needs. System capacity requirements were determined from population projections, whereas rehabilitation/replacement needs were developed through condition assessments of the facilities, and the regulatory needs are based upon the best current understanding of the regulatory community.

Treatment Capacity

As previously identified in Sub-chapter 5.2, there appears to be sufficient capacity in the Metropolitan Area for the current and estimated population for the next 20 years. Therefore, no new metropolitan treatment capacity will be required until the end stages of this planning period. For the Outlying Areas, new treatment capacity is identified for Marana, Corona de Tucson, Green Valley and Avra Valley WWTPs. For these Outlying Treatment Facilities, the population growth model has predicted needed capacity and plant expansions, which are identified in the 20-year CIP plan.

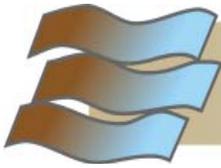
Based on the results from the model, PCWMD has determined the expected plant expansion requirements and locations and prepared basic cost estimates for this work. However, as the predictions go out 10, 15 and 20 years into the future, the likelihood of 'if and where' the growth will occur becomes less certain. In reviewing these projections, it is important to remember that flexibility is essential. The CIP was prepared assuming the PAG growth figures used are accurate predictions of the overall current and future population growth for locating new and for expanding existing facilities. However, the future population growth patterns can change very quickly changing the predicted flows from one facility to another. This will require PCWMD to reallocate plant expansion funding from one facility to the other if the population growth location changes.

Conveyance Capacity

Only four major conveyance capacity improvement projects were identified for the Metropolitan Area. Most of the conveyance projects identified are associated with rehabilitation/replacement.

The four metropolitan capacity conveyance projects are:

- Construction of the Plant Interconnect: scheduled to commence in FY2007/08.
- Completion of the Tanque Verde Interceptor – Tucson Country Club: due for completion FY2008/09.
- Completion of the Santa Cruz Interceptor – Prince to Franklin: due for completion in FY2008/09.
- Construction of the Southeast Interceptor from Osborn and 18th Street to Park and Interstate-10 (I-10): scheduled for FY2009/10 through FY2011/12.



Expansion of the conveyance systems to the outlying facilities is being done and will be accomplished by developers as provided in Pima County's sewer user fee ordinance.

Regulatory

The three most driving regulatory issues impacting the CIP at the present time are Nitrification/Denitrification, CMOM and biosolids. PCWMD proposes to implement Nitrification/Denitrification at both the Ina Road WPCF and Roger Road WWTP going forward. The proposed Arizona Department of Environmental Quality (ADEQ) Aquifer Protection Permit rules will require an extensive expansion of its current CMOM program. And finally, PCWMD sees a need to upgrade its biosolids processing and disposal activities, ultimately leading to Class A biosolids. PCWMD has included all these goals in the Facility Plan.

Denitrification

PCWMD has plans to install Nitrification/Denitrification processes at both the Ina Road WPCF and Roger Road WWTP based on the schedule in the respective Arizona Pollutant Discharge Elimination System (AZPDES) permit. The 2004 Bond Authorization funds \$17 million for initial design and construction of process modification to the 1979 high-pressure oxygen (HPO), 25-MGD Ina Road WPCF. The HPO facility will also require an additional \$10 million in 2008 bonds to allow for completion of the modifications. Upon completion of this project, Ina Road WPCF will have a total on-line capacity of 37.5 MGD producing denitrified effluent.

The Plant Interconnect Facilitates offloading flows from the Roger Road WWTP and completing rehabilitation as well as process modifications. The rehabilitation and process modification work is to be funded with 2008 bonds.

It has been PCWMD policy that all new Outlying Treatment Facilities should include denitrification. The existing wastewater processing facilities at Marana, Green Valley, Avra Valley, and Corona de Tucson WWTFs all produce denitrified effluent.

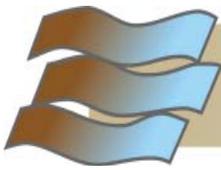
Biosolids

Presently PCWMD anaerobically digests sludge at both Ina Road WPCF and Roger Road WWTP. The Roger Road WWTP sludge is transported to Ina Road WPCF via a buried sludge line. The combined sludge from the two treatment facilities is centrifuged to approximately 6 percent solids and land applied for final disposal. The Ina Road WPCF sludge centrifuge facility also receives sludge from the Avra Valley and Marana WWTFs, which is commingled with the Ina Road WPCF and Roger Road WWTP sludge prior to centrifuging.

This Facility Plan recommends a comprehensive study to determine the best way for PCWMD to handle sludge at its Metropolitan Treatment Facilities as well as move toward producing Class A biosolids. Several PCWMD drivers for this analysis include:

- The costs for hauling and disposing of 6 percent sludge versus 12-18 percent sludge.
- The age and condition of the facilities at Roger Road WWTP.
- The benefit of digesting all the metropolitan sludge at the Ina Road WPCF.
- The replacement of natural gas with more methane at the Ina Road WPCF Power Generation Facility.

Additionally, a parallel study should be undertaken for determining a long-term management plan for dealing with biosolids at the outlying facilities. A significant driver for this analysis is the economics of transporting biosolids from the Outlying Treatment Facilities to the Ina Road WPCF for processing.



Conveyance and Treatment

Rehabilitation

The CIP outlined in Table 8.5 shows both bond and System Development Fund (SDF) rehabilitation projects. Under the 2004 Bond Authorization Program, specific rehabilitation projects are identified for Roger Road WWTP and miscellaneous conveyance (see top blue section of Tables 8.1 through 8.5). The SDF portion of rehabilitation costs are to be funded with user fees.

Conveyance

The Class 4 rehabilitation projects will be accomplished with 2004 bonds. The remaining portion of CMOM would be funded with SDF. This includes funding the CMOM/closed circuit television (CCTV) condition assessment program for the collection system, funding the priority Class 3 sewer line rehabilitation/replacement, and funding the priority manhole rehabilitation/replacement. The CMOM projects are funded as follows:

- Sewer System Condition Assessment (CCTV) 100 percent operation and maintenance (O&M).
- Ongoing Sewer System Condition Assessment (CCTV) 100 percent O&M.
- Condition Assessment of new Sewers (CCTV) 100 percent O&M.
- CMOM - 100 percent O&M.
- Defect Pipe/Manhole replacement - 100 percent CIP.

Based upon best current understanding of the system and the current CMOM program, the CIP has allocated funds to CCTV the conveyance system, CCTV monitoring of the system based upon the full CCTV baseline, and to CCTV new conveyance lines to ensure proper installation and for baseline data. For the non-capital CMOM work, allocated funds are to be used for additional staffing, equipment purchase, repair and maintenance. Equipment purchases include items such as additional rodding trucks, CCTV trucks and any other necessary equipment to facilitate CMOM.

The last category is any residual funds available for the larger conveyance rehabilitation and replacement projects.

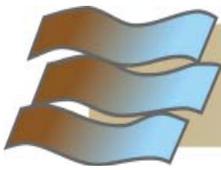
As the needs for conveyance rehabilitation and replacement exceeds the cash currently identified, \$5 million/year in rehabilitation funding is included in the 2008 through 2020 proposed bonds.

Treatment

Similarly to CMOM, the treatment rehabilitation would be funded with \$2.35 million in FY2005/06. \$18 million in immediately needed projects were identified, and \$231.3 million would be allocated for plant rehabilitation directly over the 20-year period from SDF and bonds. The remaining SDF funds, generated over 20 years, will be utilized for financing bonds for treatment plants and outlying facilities rehabilitation.

Five Year Plans

The CIP program is divided into four, 5-year segments starting in 2006 and ending in 2026. The first 5-year plan identifies currently known needs and little deviation from this plan is expected. In contrast, the remaining three 5-year increments are based upon long-term model projections given today's circumstances and should be viewed as such. The long-term forecasted dollars required for future expansion, repair/replacement, and regulatory needs are considered reliable given known data. However, specific projects may change due to changes in growth patterns and regulatory climate.



CIP From 2006 to 2011

The major projects in this period include completion of the 1997 Bond Authorization projects and implementation of the 2004 and 2008 Bond Authorization projects. The major highlights of the future bond programs in this period are:

Conveyance

- Complete the Santa Cruz Interceptor; Prince to Franklin - 2004 bonds.
- Construct the Tanque Verde Interceptor from Craycroft to Country Club – 1997 and 2004 bonds.
- Utilize \$15 million for conveyance rehabilitation of Class 4 sewers - 2004 bonds.
- Complete the Roger Road WWTP to Ina Road WPCF Plant Interconnect – 2004 bonds.
- Complete the new line servicing the New Federal Prison – U. S. Bureau of Prisons.
- Complete CCTV of the collection system - SDF.
- Initiate sewer and manhole rehabilitation/replacement – CMOM SDF.

Treatment

- Add 0.5 MGD at Marana WWTF Phase I – 1997 bonds.
- Add 1.0 /1.5 MGD BNROD Plant at Marana WWTF Phase II – 2004 bonds.
- Utilize initial 2004 bond slated for odor and rehabilitation at Roger Road WWTP.
- Start Biosolids Enhancement Project - SDF.
- Build new 4 MGD BNROD plant in Avra Valley – SDF and unknown source.
- Initiate Ina Road WPCF denitrification 25 MGD HPO facility - 2004 bonds.
- Upgrade Avra Valley WWTF BNROD plant capacity to 1.6 MGD - SDF.
- Expand Corona de Tucson WWTF an additional 0.5 MGD.
- Extend sewer service to Marana Airport - 2004 bonds.

CIP From 2011 to 2016

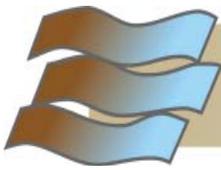
The major projects in this period include completion of the 2004 Bond Authorization projects and implementation of the 2008 and 2012 Bond Authorization projects. The major highlights of the bond programs include:

Conveyance

- Expand Mt. Lemmon WWTF services - 2004 bonds.
- Complete new Southeast Interceptor from Osborn and 18th to Park and I-10 – proposed 2008 bonds.
- Repair class 4 sewers – 2004 bonds.
- Fund ongoing sewer and manhole rehabilitation/replacement - SDF.
- Utilize remainder of 2004 bonds for conveyance rehabilitation.

Treatment

- Finish Ina Road WPCF and Roger Road WWTP denitrification - 2004 and 2008 bonds.
- Build new lab and office building – 2008 bonds.
- Expand power generation and electrical upgrades – 2008 bonds.



- Complete additional Ina Road WPCF and Roger Road WWTP rehabilitation – 2008 bonds.
- Complete class A biosolids – 2008 bonds.
- Initiate expansion of Marana WWTF 1.5 MGD – 2012 bonds.
- Continue Roger Road WWTP and Ina Road WPCF rehabilitation –2012 bonds.
- Expand Green Valley WWTF 2 MGD – 2012 bonds.
- Initiate 2 WRFs (location to be determined) – 2012 bonds.
- Initiate outlying facilities biosolids handling improvements – 2012 bonds.

CIP From 2016 to 2021

The major projects in this period are projected to include completion of the 2009 and 2012 Bond Authorization projects and implementation of the 2016 to 2020 Bond Authorization project. The major highlights of the bond programs include:

Conveyance

- On going SDF, 2016 and 2020 bonds, funded sewer and manhole rehabilitation/replacement.

Treatment

- Complete Southeast and Northeast WRF – 2012 bonds.
- Complete Outlying Treatment Facilities biosolids handling improvements – 2012 bonds.
- Initiate 12.5 MGD expansion at Ina Road WPCF – 2016/20 bonds.
- Initiate Tangerine/I-10 treatment plant – 2016/20 bonds.
- Roger Road WWTP rehabilitation – 2016/20 bonds.
- Initiate 2 unidentified WRF – 2016/20 bonds.

CIP From 2021 to 2026

The major projects in this period include completion of the 2016 to 2020 Bond Authorization projects. The major highlights include:

Conveyance

- On going SDF funded sewer and manhole rehabilitation/replacement.

Treatment

- Complete 12.5 MGD expansion at Ina Road WPCF – 2016/20 bonds.
- Complete Ina Road WPCF rehabilitation – 2020 bonds.
- Complete Tangerine/I-10 treatment plant – 2016/20 bonds.
- Complete Outlying Treatment Facilities rehabilitation – 2020 bonds.
- Add 2 MGD at Green Valley WWTF – 2012 bonds.
- Add 1 MGD at Corona de Tucson WWTF - 2020 bonds.
- Complete two unidentified WRF – 2016/20 bonds.

Conclusions and Recommendations

The Facility Plan presented herein, additional bond packages of approximately \$245 to \$355 million, \$225 to \$275 million, and \$325 to \$400 million will be required in 2008, 2012, and 2016/20 bonds respectively. Implementation of the 20-year Facility Plan is projected to cost approximately \$1.4 billion funded with \$795 to \$1,030 million in existing and new bonds, of which \$645 to \$880 million will require voter approval, and \$5 million from the U.S. Bureau of Prison already secured.

Table 8.1. 5 Year CIP For FY2006/12

3/2/2006 14:13																				
Bond #	To Director & Deputies 12-7-05	2004 Bond		2008 Bond	Totals	FY 05-06 Budget		FY 05-06 Projected		FY 06-07 Proposed Budget		FY 07-08 Projected		FY 08-09 Projected		FY 09-10 Projected		FY 10-11 Projected		
		Totals	Totals	Totals	SDF	Bond/WIFA	SDF	Bond/WIFA	SDF	Bond/WIFA	SDF	Bond/WIFA	SDF	Bond/WIFA	SDF	Bond/WIFA	SDF	Bond/WIFA	SDF	Bond/WIFA
1997 Bond Projects																				
SS-01	Ina Rd WPCF Proc Chg & Exp to 37.5 mgd				\$ 3,460,037			\$ 3,089,672		\$ 370,365		\$ 100,000		\$ 322,600		\$ 1,370,945		\$ 1,300,000		\$ -
SS-11	Arivaca Junction WWTF Extension Sewer				\$ 3,098,339			\$ 4,794												
SS-14	Misc. Wastewater Reclamation Facility (Randolph)				\$ (250,504)			\$ (250,504)												
SS-02	Green Valley Upgrade & Expansion				\$ 11,094			\$ 11,094												
SS-03	Santa Cruz Interceptor, Prince-Franklin (Phase II & III)				\$ 2,288			\$ 2,288												
SS-05	TV Int., Craycroft-Tucson Country Club				\$ 3,704,095			\$ 260,079			\$ 110,000		\$ 171,618		\$ 3,162,398					
SS-08	New Marana WWTF Interim Expansion				\$ 1,488,720		\$ 1,464,612	\$ 1,488,720												
Sub-Totals	2004 Bond Projects/Related Projects With 2008 Bonds				\$ 11,514,069		\$ 1,464,612	\$ 2,857,344		\$ 370,365		\$ 210,000		\$ 171,618		\$ 3,484,998		\$ 1,370,945		\$ -
SS-6.1	Roger Road WWTF Rehabilitation (Rollup)		\$ 20,000,000		\$ 75,165,274		\$ 1,000,000	\$ 2,506,704		\$ 2,314,365		\$ 2,000,000		\$ 3,500,000		\$ 2,000,000		\$ 2,314,365		\$ 2,000,000
	R R Rehab Electrical Study				\$ 10,062,162			\$ 562,162		\$ 1,000,000		\$ 1,500,000		\$ 1,500,000		\$ 1,500,000		\$ 1,500,000		\$ 1,500,000
	R R Rehab Aeration Basins				\$ 1,991,163			\$ 91,163		\$ 500,000		\$ 1,000,000		\$ 1,000,000		\$ 1,000,000		\$ 1,000,000		\$ 1,000,000
	R R Rehab Prim Clarifier Cov				\$ 2,000,673			\$ 673		\$ 1,000,000		\$ 1,000,000		\$ 1,000,000		\$ 1,000,000		\$ 1,000,000		\$ 1,000,000
	RR New Media				\$ 10,000,000			\$ -		\$ -		\$ -		\$ 2,000,000		\$ 8,000,000		\$ -		\$ -
	Plant Rehabilitation (C - SDF 2004-05 "D" Budget) % Split by Proj		\$ 40,000,000		\$ 51,094,255			\$ 1,812,540		\$ 1,781,715		\$ -		\$ 2,500,000		\$ -		\$ 2,500,000		\$ -
	RR Operational Efficiency Eval				\$ 150,000			\$ 150,000		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
	SCADA Upgrade*				\$ 1,970,000			\$ 170,000		\$ 500,000		\$ 500,000		\$ 500,000		\$ 500,000		\$ 300,000		\$ -
	Ina - Replace pond #3 liner - concert*				\$ 1,200,000			\$ -		\$ 150,000		\$ 1,050,000		\$ -		\$ -		\$ -		\$ -
	Ina - Fix process tank structural*				\$ 500,000			\$ -		\$ 100,000		\$ 400,000		\$ -		\$ -		\$ -		\$ -
	Ina - Heat exchange upgrade*				\$ 200,000			\$ -		\$ 50,000		\$ 150,000		\$ -		\$ -		\$ -		\$ -
	Plant Security				\$ 600,000			\$ -		\$ 85,000		\$ 315,000		\$ -		\$ 200,000		\$ -		\$ -
	R R New Admin Bldg				\$ 3,500,000			\$ -		\$ 150,000		\$ 850,000		\$ 2,500,000		\$ -		\$ -		\$ -
	R R New Roads				\$ 1,500,000			\$ -		\$ -		\$ 1,500,000		\$ -		\$ -		\$ -		\$ -
	Randolph - Clean Screens with reclaim - not potable*				\$ 200,000			\$ -		\$ 50,000		\$ 150,000		\$ -		\$ -		\$ -		\$ -
	Above plan "D"				\$ 3,115,000			\$ -		\$ -		\$ 2,415,000		\$ -		\$ 700,000		\$ -		\$ -
SS-6.2	Misc. Conveyance System Rehab. (Rollup)		\$ 15,000,000		\$ 78,216,565		\$ 2,000,000	\$ 1,039,743		\$ 1,376,822		\$ 2,000,000		\$ 3,200,000		\$ 3,000,000		\$ 3,200,000		\$ 3,000,000
	Conveyance Rehab		\$ 16,000,000		\$ 17,500,000			\$ -		\$ -		\$ -		\$ 1,500,000		\$ -		\$ 1,500,000		\$ -
SS-6.3	Santa Cruz Interceptor, Prince-Franklin (Phase II & III)		\$ 25,000,000		\$ 33,143,363		\$ 2,000,000	\$ 626,825		\$ -		\$ 12,035,687		\$ 1,643,363		\$ 12,337,488		\$ 6,500,000		\$ 1,500,000
SS-6.4	Roger Rd. WWTF to Ina Rd WPCF Plant Inter.		\$ 23,000,000		\$ 23,350,000		\$ 500,000	\$ 303,261		\$ 350,000		\$ -		\$ 1,000,000		\$ 13,196,739		\$ 8,500,000		\$ -
SS-6.5	TV Int., Craycroft-Tucson Country Club		\$ 5,000,000		\$ 5,588,500			\$ -		\$ -		\$ -		\$ 185,000		\$ 2,310,000		\$ 403,500		\$ 2,690,000
SS-6.6	Marana Regional Airport Sewer Con.		\$ 2,800,000		\$ 2,800,000			\$ -		\$ -		\$ 500,000		\$ -		\$ -		\$ -		\$ -
SS-6.7	Ina/Roger Road WPCF - Denitrification (To Be Rollup)				\$ 132,082,165			\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
	Ind Road Nitrification Denitrification - (A)		\$ 17,000,000		\$ 17,000,000		\$ 1,000,000	\$ -		\$ -		\$ -		\$ 3,000,000		\$ 7,000,000		\$ -		\$ 7,000,000
	SCR Basin Ina/Roger Rd Ndn Imp Study (A)				\$ 2,082,165			\$ 391,082		\$ 1,300,000		\$ -		\$ 391,082.4		\$ -		\$ -		\$ -
	Ind/Roger Road Nitrification (2008 New Bonds)				\$ 113,000,000			\$ -		\$ -		\$ -		\$ -		\$ 5,000,000		\$ -		\$ 20,000,000
	Biosolids (2008 Bonds)*		\$ 30,000,000		\$ 39,700,000			\$ -		\$ 85,000		\$ 615,000.0		\$ 1,000,000		\$ 1,393,000		\$ 1,000,000		\$ 1,000,000
	System Wide Odor Control (2008 Bonds)		\$ 30,000,000		\$ 30,000,000		\$ 700,000	\$ -		\$ -		\$ -		\$ -		\$ 2,000,000		\$ -		\$ 2,000,000
SS-6.8	Ina Rd. WPCF Central Plant & Electric Upgrade (BIP Need Revision)				\$ -			\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
	Electrical (Supplemented 2008 Bonds)		\$ 30,000,000		\$ 30,000,000			\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ 1,350,000
SS-6.9	Ina Rd. WPCF Laboratory & Office Bldg.				\$ -			\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
	Lab (Supplemented 2008 Bonds)		\$ 15,000,000		\$ 15,000,000			\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ 1,000,000
SS-6.10	New Marana WWTF Expansion BNROD		\$ 10,000,000		\$ 12,395,878		\$ 44,225	\$ 3,000,000		\$ 795,878		\$ 7,430,728		\$ 1,600,000		\$ 991,738		\$ -		\$ -
SS-6.11	Misc. Water Reclamation Projects (Avra Valley)		\$ 25,000,000		\$ 35,549,000			\$ -		\$ -		\$ 6,000,000		\$ 1,000,000		\$ 19,000,000		\$ 9,549,000		\$ -
	Avra Valley Environmental Restoration				\$ 222,682		\$ 350,000	\$ 222,682		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
	Avra Valley 4.0 MGD Expansion Design				\$ 164,482			\$ 164,482		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
	Avra Valley 1.2 to 1.6 & 1.6 to 2.2				\$ 7,193,306			\$ (6,694)		\$ 250,000		\$ -		\$ 1,250,000		\$ -		\$ 2,500,000		\$ -
SS-6.12	Mt. Lemon Sewer System		\$ 7,200,000		\$ -			\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
	Added to bond to max draw / reimbursement				\$ -			\$ 0		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
Sub-Totals	SDF Projects		\$ 150,000,000		\$ 295,000,000		\$ 3,040,291	\$ 8,500,000		\$ 6,130,539		\$ 8,500,000		\$ 8,003,780		\$ 30,216,415		\$ 18,549,445		\$ 47,189,226
	With 2004-2008 Bonds				\$ 592,280,469		\$ 3,040,291	\$ 8,500,000		\$ 6,130,539		\$ 8,500,000		\$ 8,003,780		\$ 30,216,415		\$ 18,549,445		\$ 47,189,226
SS-06	Santa Cruz Interceptor /Lincoln-Drexel				\$ 51,054		\$ 500,000	\$ 1,054		\$ -		\$ -		\$ -		\$ 50,000		\$ -		\$ -
	TV Int., Hidden Hills Wash to Arbor Circle				\$ 94			\$ 94		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
	Misc. Eng. Design Services				\$ 5,000,000		\$ 250,000	\$ -		\$ 250,000		\$ 250,000		\$ 250,000		\$ 250,000		\$ 250,000		\$ 250,000
	Miscellaneous Sewer Relocations *				\$ 9,900,000		\$ 750,000	\$ -		\$ 400,000		\$ 500,000		\$ 500,000		\$ 500,000		\$ 500,000		\$ 500,000
	Regional Transportation Authority*				\$ 4,875,000			\$ -		\$ 125,000		\$ 250,000		\$ 250,000		\$ 250,000		\$ 250,000		\$ 250,000
	River Road / Alvernon Way				\$ 19,107			\$ 19,107		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
	Green Valley CD Estates Trunk Reloc. @ DW #7				\$ 515,370		\$ 10,000	\$ 28,924		\$ -		\$ -		\$ 486,446		\$ -		\$ -		\$ -
	S. Rillito Int. RS, Glenn-Kleindale				\$ 2,894,713		\$ 112,800	\$ 9,113		\$ -		\$ -		\$ 555,300		\$ 2,330,300		\$ -		\$ -
	Green Valley Sewer Protection				\$ 112,350			\$ 24,350		\$ 88,000		\$ -		\$ -		\$ -		\$ -		\$ -
	Santa Cruz River Relief Sewer (W.Branch Xing)				\$ 162,288			\$ 1,093		\$ 161,195		\$ -		\$ -		\$ -		\$ -		\$ -
	Houghton Area Master Plan (HAMP)*				\$ 70,000			\$ 50,000		\$ 20,000		\$ -		\$ -		\$ -		\$ -		\$ -
	Sewer System Inventory & Inspection				\$ 651,527		\$ 720,000	\$ 411,527		\$ 240,000		\$ -		\$ -		\$ -		\$ -		\$ -
	Tanuri Drive Relief Sewer				\$ 108,158			\$ -		\$ -		\$ -		\$ 50,000		\$ 58,158		\$ -		\$ -
	Tangerine Rd. Sewer X-sing @ Big Wash				\$ 2,542,974			\$ (607)		\$ -		\$ -		\$ 543,581		\$ 2,000,000		\$ -		\$ -
	Park & 18th Capacity Expansion (2008 Bonds)		\$ 30,000,000		\$ 30,000,000			\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ 18,000,000
Sub-Totals	CIP Treatment Projects		\$ 30,000,000		\$ 57,077,606		\$ 1,842,800	\$ 500,000		\$ 719,626		\$ -		\$ 1,284,195		\$ -		\$ 2,585,327		\$ -
	Corona de Tucson 0.8 to 1.3 MGD				\$ 2,206,138		\$ 300,000	\$ 106,138		\$ 30,000		\$ 2,070,000		\$ -		\$ -		\$ -		\$ -
	Corona de Tucson WWTF Ancillary Impvmts.				\$ 2,541,146			\$ 141,146</												

Table 8.2. 5 Year CIP For FY2012/17

3/2/2006 14:13														
Bond #	To Director & Deputies 12-7-05	CIP Number	Center Number	Totals	FY 11-12 Projected		FY 12-13 Projected		FY 13-14 Projected		FY 14-15 Projected		FY 15-16 Projected	
					SDF	Bond/WIFA	SDF	Bond/WIFA	SDF	Bond/WIFA	SDF	Bond/WIFA	SDF	Bond/WIFA
Sub-Totals	1997 Bond Projects			\$ 11,514,069	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	2004 Bond Projects/Related Projects With 2008 Bonds													
SS-6.1	Roger Road WWTF Rehabilitation (Rollup)			\$ 75,165,274	\$ 2,314,365	\$ 6,000,000	\$ 2,314,365	\$ 2,314,365	\$ 2,314,365	\$ 2,314,365	\$ 2,314,365	\$ 2,314,365	\$ 2,314,365	\$ 2,314,365
	R R Rehab Struct. Assessment	WL-04-601	W746011	\$ 272,348										
	R R Rehab Electrical Study	WL-04-601	W746016	\$ 10,062,162		\$ 2,000,000								
	Plant Rehabilitation (C - SDF 2004-05 "D" Budget) % Split by Proj			\$ 51,094,255	\$ -	\$ 2,500,000	\$ -	\$ 2,500,000	\$ -	\$ 2,500,000	\$ -	\$ 2,500,000	\$ -	\$ 2,500,000
SS-6.2	Misc. Conveyance System Rehab. (Rollup)			\$ 78,216,565	\$ 3,200,000		\$ 3,200,000	\$ 3,200,000	\$ 3,200,000	\$ 3,200,000	\$ 3,200,000	\$ 3,200,000	\$ 3,200,000	\$ 3,200,000
	Conveyance Rehab			\$ 17,500,000	\$ -	\$ 1,500,000	\$ -	\$ 1,500,000	\$ -	\$ 1,500,000	\$ -	\$ 1,500,000	\$ -	\$ 1,500,000
SS-6.7	Ina/Roger Road WPCF - Denitrification (To Be Rollup)	N/A		\$ 132,082,165										
	Ind Road Nitrification Denitrification - (A)	WL-04-607	W746070	\$ 17,000,000										
	SCR Basin Ina/Roger Rd NdN Imp Study (A)	WL-05-0L4	W750145	\$ 2,082,165										
	Ind/Roger Road Nitrification (2008 New Bonds)	N/A	N/A	\$ 113,000,000	\$ 13,000,000	\$ 32,000,000								
	Biosolids (2008 Bonds)*	N/A	N/A	\$ 39,700,000	\$ 2,000,000	\$ 5,000,000	\$ 15,000,000	\$ 2,607,000						
	System Wide Odor Control (2008 Bonds)	N/A	N/A	\$ 30,000,000	\$ -	\$ 4,000,000	\$ 5,000,000	\$ 5,000,000	\$ 5,000,000	\$ 5,000,000	\$ 5,000,000	\$ 5,000,000	\$ 5,000,000	\$ 3,000,000
SS-6.8	Ina Rd. WPCF Central Plant & Electric Upgrade (BIP Need Revision)	WL-04-608	N/A	\$ -										
	Electrical (Supplemented 2008 Bonds)	N/A	N/A	\$ 30,000,000		\$ 10,650,000	\$ 12,000,000							
SS-6.9	Ina Rd. WPCF Laboratory & Office Bldg.	WL-04-609	N/A	\$ -										
	Lab (Supplemented 2008 Bonds)	N/A	N/A	\$ 15,000,000		\$ 9,000,000								
Sub-Totals	SDF Projects With 2004-2008 Bonds			\$ 592,280,469	\$ 20,514,365	\$ 70,650,000	\$ 5,514,365	\$ 36,000,000	\$ 5,514,365	\$ 11,607,000	\$ 5,514,365	\$ 9,000,000	\$ 5,514,365	\$ 7,000,000
SS-06	Santa Cruz Interceptor /Lincoln-Drexel	WL-97-5L1	W700049	\$ 51,054										
	TV Int., Hidden Hills Wash to Arbor Circle	WL-97-4L4	W700036	\$ 94										
	Misc. Eng. Design Services	N/A	N/A	\$ 5,000,000	\$ 250,000		\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000
	Miscellaneous Sewer Relocations *	N/A	N/A	\$ 9,900,000	\$ 500,000		\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000
	Regional Transportation Authority*	N/A	N/A	\$ 4,875,000	\$ 250,000		\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000
	Park & 18th Capacity Expansion (2008 Bonds)	N/A	N/A	\$ 30,000,000		\$ 6,000,000								
	Sewer Replacement @ Alvernon and Hayne St.	WL-01-2L1	W700025	\$ 85,000										
Sub-Totals	CIP Treatment Projects			\$ 57,077,606	\$ 1,000,000	\$ 6,000,000	\$ 1,000,000	\$ -	\$ 1,000,000	\$ -	\$ 1,000,000	\$ -	\$ 1,000,000	\$ -
Sub-Totals	Other Jurisdictions			\$ 4,761,595	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Arroyo Chico Drainage Under Construction	N/A	0	\$ 85,000										
	ADOT Relocation: I-19-& I-10	WL-00-2L1	W700076	\$ -										
Sub-Totals	Outside Agency /Jurisdiction Funded			\$ 85,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	New Federal Prison	WL-03-4L1	W700079	\$ 5,887,414										
	Marana Colonia Sewer/Redev. Honea Hgts.	WL-00-3L1	W700018	\$ 1,359,971										
Sub-Totals	New CIP Projects			\$ 7,247,385	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Lift Station Rehabilitation (rollup)*	N/A	N/A	\$ 19,100,000	\$ -	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000
	SDF W6 Evaluation Projects	N/A	N/A	\$ 56,890,000	\$ 3,000,000		\$ 3,000,000	\$ 3,000,000	\$ 3,000,000	\$ 3,000,000	\$ 3,000,000	\$ 3,000,000	\$ 3,000,000	\$ 3,000,000
	SCADA Fail Over Review process sim (05-06)	WL-05-1L2	W750157	\$ 30,000										
Sub-Totals				\$ 83,514,427	\$ 3,000,000	\$ 1,000,000	\$ 4,000,000	\$ 4,000,000	\$ 4,000,000	\$ 4,000,000	\$ 4,000,000	\$ 4,000,000	\$ 4,000,000	\$ 4,000,000
	2012 Bond Authorization													
	Roger & Ina Road WWTF/WWCF Rehab			\$ 25,000,000			\$ 2,000,000	\$ 5,000,000	\$ 5,000,000	\$ 5,000,000	\$ 5,000,000	\$ 5,000,000	\$ 5,000,000	\$ 5,000,000
	Expand Marana WWTF Expansion BNROD 1.5 mgd to 3.0 mgd			\$ 13,000,000			\$ 8,000,000	\$ 5,000,000	\$ 5,000,000	\$ 5,000,000	\$ 5,000,000	\$ 5,000,000	\$ 5,000,000	\$ 5,000,000
	Conveyance Rehabilitation			\$ 30,000,000			\$ 5,000,000	\$ 5,000,000	\$ 5,000,000	\$ 5,000,000	\$ 5,000,000	\$ 5,000,000	\$ 5,000,000	\$ 5,000,000
	Expand Roger			\$ 55,000,000	\$ -	\$ -	\$ 25,000,000	\$ 25,000,000	\$ 25,000,000	\$ 25,000,000	\$ 25,000,000	\$ 25,000,000	\$ 25,000,000	\$ 25,000,000
	Central, Northwest and Southeast Reclamation WRFs			\$ 45,000,000										\$ 10,000,000
	Rehab Ina Bio BNR			\$ 15,000,000					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Outlying Solids			\$ 15,000,000					\$ 5,000,000	\$ 5,000,000	\$ 5,000,000	\$ 5,000,000	\$ 5,000,000	\$ 5,000,000
	Green Valley BNROD (an additional 2 mgd)			\$ 25,000,000				\$ 5,000,000	\$ 10,000,000	\$ 10,000,000	\$ 10,000,000	\$ 10,000,000	\$ 10,000,000	\$ 10,000,000
	Conveyance Rehabilitation			\$ 25,000,000				\$ 5,000,000	\$ 5,000,000	\$ 5,000,000	\$ 5,000,000	\$ 5,000,000	\$ 5,000,000	\$ 5,000,000
	SCADA & Control System			\$ 3,000,000				\$ -	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000
Sub-Totals				\$ 251,000,000	\$ -	\$ -	\$ -	\$ 40,000,000	\$ -	\$ 50,000,000	\$ -	\$ 41,000,000	\$ -	\$ 46,000,000
	2016 & 2020 Bond Authorization													
Sub-Totals				\$ 357,500,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,000,000
	CIP GRAND TOTAL			\$ 1,364,980,552	\$ 24,514,365	\$ 77,650,000	\$ 10,514,365	\$ 76,000,000	\$ 10,514,365	\$ 61,607,000	\$ 10,514,365	\$ 50,000,000	\$ 10,514,365	\$ 58,000,000
				\$ 1,364,980,552	Total	\$ 102,164,365	Total	\$ 86,514,365	Total	\$ 72,121,365	Total	\$ 60,514,365	Total	\$ 68,514,365

* Projects show as W^ in the Pima County Project Management Application Data Base

FY 11-12 Projected

FY 12-13 Projected

FY 13-14 Projected

FY 14-15 Projected

FY 15-16 Projected

Table 8.3. 5 Year CIP For FY2017/21

3/2/2006 14:13															
Bond #	To Director & Deputies 12-7-05	CIP Number	Center Number	Totals	FY 16-17 Projected		FY 17-18 Projected		FY 18-19 Projected		FY 19-20 Projected		FY 20-21 Projected		
					SDF	Bond/WIFA									
1997 Bond Projects															
Sub-Totals	2004 Bond Projects/Related Projects With 2008 Bonds				\$ 11,514,069	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
SS-6.1	Roger Road WWTF Rehabilitation (Rollup)			\$ 75,165,274	\$ 2,314,365		\$ 2,314,365	\$ 2,314,365	\$ 2,314,365	\$ 2,314,365	\$ 2,314,365	\$ 2,314,365	\$ 2,314,365	\$ 2,314,365	
	Plant Rehabilitation (C - SDF 2004-05 "D" Budget) % Split by Proj			\$ 51,094,255	\$ -	\$ 2,500,000	\$ -	\$ 2,500,000	\$ -	\$ 2,500,000	\$ -	\$ 2,500,000	\$ -	\$ 2,500,000	
SS-6.2	Misc. Conveyance System Rehab. (Rollup)			\$ 78,216,565	\$ 3,200,000		\$ 3,200,000	\$ 3,200,000	\$ 3,200,000	\$ 3,200,000	\$ 3,200,000	\$ 3,200,000	\$ 3,200,000	\$ 3,200,000	
	Conveyance Rehab			\$ 17,500,000	\$ -	\$ 1,500,000	\$ -	\$ 1,500,000	\$ -	\$ 1,000,000	\$ -	\$ -	\$ -	\$ -	
Sub-Totals	SDF Projects With 2004-2008 Bonds				\$ 592,280,469	\$ 5,514,365	\$ 4,000,000	\$ 5,514,365	\$ 4,000,000	\$ 5,514,365	\$ 3,500,000	\$ 5,514,365	\$ 2,500,000	\$ 5,514,365	\$ 2,500,000
SS-06	Santa Cruz Interceptor /Lincoln-Drexel	WL-97-5L1	W700049	\$ 51,054											
	TV Int., Hidden Hills Wash to Arbor Circle	WL-97-4L4	W700036	\$ 94											
	Misc. Eng. Design Services	N/A	N/A	\$ 5,000,000	\$ 250,000		\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	
	Miscellaneous Sewer Relocations *	N/A	N/A	\$ 9,900,000	\$ 500,000		\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	
	Regional Transportation Authority*	N/A	N/A	\$ 4,875,000	\$ 250,000		\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	
	River Road / Alvernon Way	WL-87-001	W700005	\$ 19,107											
Sub-Totals	CIP Treatment Projects				\$ 57,077,606	\$ 1,000,000	\$ -	\$ 1,000,000	\$ -	\$ 1,000,000	\$ -	\$ 1,000,000	\$ -	\$ 1,000,000	\$ -
Sub-Totals	Other Jurisdictions				\$ 4,761,595	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Sub-Totals	Outside Agency /Jurisdiction Funded				\$ 85,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Sub-Totals	New CIP Projects				\$ 7,247,385	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Continental Pump Station Improvements Rollup	N/A	N/A	\$ 480,000											
	Lift Station Rehabilitation (rollup)*	N/A	N/A	\$ 19,100,000	\$ 1,000,000		\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	
	SDF W6 Evaluation Projects	N/A	N/A	\$ 56,890,000	\$ 3,000,000		\$ 3,000,000	\$ 3,000,000	\$ 3,000,000	\$ 3,000,000	\$ 3,000,000	\$ 3,000,000	\$ 3,000,000	\$ 3,000,000	
	SCADA Fail Over Review process sim (05-06)	WL-05-1L2	W750157	\$ 30,000											
Sub-Totals	2012 Bond Authorization				\$ 83,514,427	\$ 4,000,000	\$ -	\$ 4,000,000	\$ -	\$ 4,000,000	\$ -	\$ 4,000,000	\$ -	\$ 4,000,000	\$ -
	Roger & Ina Road WWTF/WWCF Rehab			\$ 25,000,000		\$ 5,000,000			\$ 3,000,000						
	Expand Marana WWTF Expansion BNRD 1.5 mgd to 3.0 mgd			\$ 13,000,000											
	Conveyance Rehabilitation			\$ 30,000,000		\$ 5,000,000		\$ 5,000,000							
	Expand Roger			\$ 55,000,000											
	Central, Northwest and Southeast Reclamation WRFs			\$ 45,000,000		\$ 20,000,000		\$ 10,000,000		\$ 5,000,000					
	Rehab Ina Bio BNR			\$ 15,000,000		\$ 5,000,000		\$ -		\$ -					
	Outlying Solids			\$ 15,000,000		\$ 5,000,000		\$ -		\$ -					
	Green Valley BNRD (an additional 2 mgd)			\$ 25,000,000											
	Conveyance Rehabilitation			\$ 25,000,000		\$ 5,000,000		\$ 5,000,000							
	SCADA & Control System			\$ 3,000,000		\$ 1,000,000		\$ -		\$ -					
Sub-Totals	2016 & 2020 Bond Authorization				\$ 251,000,000	\$ -	\$ 46,000,000	\$ -	\$ 20,000,000	\$ -	\$ 8,000,000	\$ -	\$ -	\$ -	\$ -
	Ina Road WPCF Expansion 37.5 to 50 mgd (Phase I - 2016)			\$ 40,000,000							\$ 5,000,000			\$ 15,000,000	
	Ina Road WPCF Expansion 37.5 to 50 mgd (Phase II - 2020)			\$ 75,000,000											
	Tangerine & I-10 WWTF BNRD			\$ 35,000,000					\$ 2,500,000		\$ 10,000,000			\$ 15,000,000	
	Major Rehab Ina			\$ 25,000,000		\$ 5,000,000		\$ 5,000,000							
	Roger Rehab			\$ 25,000,000		\$ 5,000,000		\$ 5,000,000							
	Outlying Rehab			\$ 55,000,000		\$ 5,000,000		\$ 5,000,000		\$ 5,000,000		\$ 5,000,000		\$ 5,000,000	
	Conveyance Rehab			\$ 50,000,000		\$ 5,000,000		\$ 5,000,000		\$ 5,000,000		\$ 5,000,000		\$ 5,000,000	
	Unidentified WRF 3 mgd			\$ 30,000,000		\$ 5,000,000		\$ 5,000,000		\$ 10,000,000		\$ 10,000,000		\$ 5,000,000	
	Corona de Tucson BNRD (1 MGD)			\$ 22,500,000											
Sub-Totals	CIP GRAND TOTAL				\$ 1,364,980,552	\$ 10,514,365	\$ 65,000,000	\$ 10,514,365	\$ 49,000,000	\$ 10,514,365	\$ 34,000,000	\$ 10,514,365	\$ 32,500,000	\$ 10,514,365	\$ 47,500,000
				\$ 1,364,980,552	Total	\$ 75,514,365	Total	\$ 59,514,365	Total	\$ 44,514,365	Total	\$ 43,014,365	Total	\$ 58,014,365	

* Projects show as W^ in the Pima County Project Management Application Data Base

FY 16-17 Projected

FY 17-18 Projected

FY 18-19 Projected

FY 19-20 Projected

FY 20-21 Projected

Table 8.4. 5 Year CIP For FY2021/26

3/2/2006 14:13														
Bond #	To Director & Deputies 12-7-05	CIP Number	Center Number	Totals	FY 21-22 Projected		FY 22-23 Projected		FY 23-24 Projected		FY 24-25 Projected		FY 25-26 Projected	
					SDF	Bond/WIFA								
Sub-Totals	1997 Bond Projects			\$ 11,514,069	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Sub-Totals	2004 Bond Projects/Related Projects With 2008 Bonds			\$ 11,514,069	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
SS-6.1	Roger Road WWTF Rehabilitation (Rollup)			\$ 75,165,274	\$ 2,314,365		\$ 2,314,365		\$ 2,314,365		\$ 2,314,365		\$ 2,314,365	
	Plant Rehabilitation (C - SDF 2004-05 "D" Budget) % Split by Proj			\$ 51,094,255	\$ -	\$ 2,500,000	\$ -	\$ 2,500,000	\$ -	\$ 2,500,000	\$ -	\$ 2,500,000	\$ -	\$ 2,500,000
	Sludge Line	WL-053R1	W755010	\$ 837,989										
	VFD at P.S. #4	WL-05-3R2	W755020	\$ 180,000										
			0	\$ -										
SS-6.2	Misc. Conveyance System Rehab. (Rollup)			\$ 78,216,565	\$ 3,200,000		\$ 3,200,000		\$ 3,200,000		\$ 3,200,000		\$ 3,200,000	
	Conveyance Rehab			\$ 17,500,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
SS-6.7	Ina/Roger Road WPCF - Denitrification (To Be Rollup)	N/A		\$ 132,082,165										
	Added to bond to max draw / reimbursement			\$ -										
Sub-Totals	SDF Projects			\$ 592,280,469	\$ 5,514,365	\$ 2,500,000	\$ 5,514,365	\$ 2,500,000	\$ 5,514,365	\$ 2,500,000	\$ 8,014,365	\$ -	\$ 8,014,365	\$ -
	With 2004-2008 Bonds													
SS-06	Santa Cruz Interceptor /Lincoln-Drexel	WL-97-5L1	W700049	\$ 51,054										
	TV Int., Hidden Hills Wash to Arbor Circle	WL-97-4L4	W700036	\$ 94										
	Misc. Eng. Design Services	N/A	N/A	\$ 5,000,000	\$ 250,000		\$ 250,000		\$ 250,000		\$ 250,000		\$ 250,000	
	Miscellaneous Sewer Relocations *	N/A	N/A	\$ 9,900,000	\$ 500,000		\$ 500,000		\$ 500,000		\$ 500,000		\$ 500,000	
	Regional Transportation Authority*	N/A	N/A	\$ 4,875,000	\$ 250,000		\$ 250,000		\$ 250,000		\$ 250,000		\$ 250,000	
	River Road / Alvernon Way	WL-87-001	W700005	\$ 19,107										
	Green Valley CC Estates Trunk Reloc. @ DW #7	WL-90-019	W700007	\$ 515,370										
	Sewer Replacement @ Alvernon and Hayne St.	WL-01-2L1	W700025	\$ 85,000										
Sub-Totals	CIP Treatment Projects			\$ 57,077,606	\$ 1,000,000	\$ -	\$ 1,000,000	\$ -	\$ 1,000,000	\$ -	\$ 1,000,000	\$ -	\$ 1,000,000	\$ -
Sub-Totals	Other Jurisdictions			\$ 4,761,595	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Arroyo Chico Drainage Under Construction	N/A	0	\$ 85,000										
	ADOT Relocation: I-19- & I-10	WL-00-2L1	W700076	\$ -										
Sub-Totals	Outside Agency /Jurisdiction Funded			\$ 85,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	New Federal Prison	WL-03-4L1	W700079	\$ 5,887,414										
	Marana Colonia Sewer/Redev. Honea Hgts.	WL-00-3L1	W700018	\$ 1,359,971										
	Old Nogales Hwy. Colonia	WL-99-2L1	W700027	\$ -										
Sub-Totals	New CIP Projects			\$ 7,247,385	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Continental Pump Station Improvements Rollup			\$ 480,000										
	Lift Station Rehabilitation (rollup)*	N/A	N/A	\$ 19,100,000	\$ 1,000,000		\$ 1,000,000		\$ 1,000,000		\$ 1,000,000		\$ 1,000,000	
	SDF W6 Evaluation Projects	N/A	N/A	\$ 56,890,000	\$ 3,000,000		\$ 3,000,000		\$ 3,000,000		\$ 3,000,000		\$ 3,000,000	
	SCADA Fail Over Review process sim (05-06)	WL-05-1L2	W750157	\$ 30,000										
				\$ -										
Sub-Totals				\$ 83,514,427	\$ 4,000,000		\$ 4,000,000		\$ 4,000,000		\$ 4,000,000		\$ 4,000,000	
Sub-Totals	2012 Bond Authorization			\$ 251,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Sub-Totals	2016 & 2020 Bond Authorization													
	Ina Road WPCF Expansion 37.5 to 50 mgd (Phase I - 2016)			\$ 40,000,000	\$ -	\$ 20,000,000	\$ -	\$ -	\$ -	\$ 15,000,000	\$ -	\$ 10,000,000	\$ -	\$ 10,000,000
	Ina Road WPCF Expansion 37.5 to 50 mgd (Phase II - 2020)			\$ 75,000,000	\$ -	\$ 20,000,000	\$ -	\$ 20,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Tangerine & I-10 WWTF BNRD			\$ 35,000,000	\$ -	\$ 7,500,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Major Rehab Ina			\$ 25,000,000	\$ -	\$ -	\$ -	\$ -	\$ 5,000,000	\$ -	\$ 5,000,000	\$ -	\$ 5,000,000	\$ -
	Roger Rehab			\$ 25,000,000	\$ -	\$ -	\$ -	\$ -	\$ 5,000,000	\$ -	\$ 5,000,000	\$ -	\$ 5,000,000	\$ -
	Outlying Rehab			\$ 55,000,000	\$ -	\$ 5,000,000	\$ -	\$ 5,000,000	\$ -	\$ 5,000,000	\$ -	\$ 5,000,000	\$ -	\$ 5,000,000
	Conveyance Rehab			\$ 50,000,000	\$ -	\$ 15,000,000	\$ -	\$ 15,000,000	\$ -	\$ 5,000,000	\$ -	\$ 5,000,000	\$ -	\$ 5,000,000
	Unidentified WRF 3 mgd			\$ 30,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Corona de Tucson BNRD (1 MGD)			\$ 22,500,000	\$ -	\$ -	\$ -	\$ -	\$ 7,500,000	\$ -	\$ 7,500,000	\$ -	\$ 7,500,000	\$ -
				\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
				\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Sub-Totals				\$ 357,500,000	\$ -	\$ 67,500,000	\$ -	\$ 40,000,000	\$ -	\$ 42,500,000	\$ -	\$ 32,500,000	\$ -	\$ 32,500,000
	CIP GRAND TOTAL			\$ 1,364,980,552	\$ 10,514,365	\$ 70,000,000	\$ 10,514,365	\$ 42,500,000	\$ 10,514,365	\$ 45,000,000	\$ 13,014,365	\$ 32,500,000	\$ 13,014,365	\$ 32,500,000
				\$ 1,364,980,552	Total	\$ 80,514,365	Total	\$ 53,014,365	Total	\$ 55,514,365	Total	\$ 45,514,365	Total	\$ 45,514,365

* Projects show as W* in the Pima County Project Management Application Data Base

FY 21-22 Projected

FY 22-23 Projected

FY 23-24 Projected

FY 24-25 Projected

FY 25-26 Projected

Category	Item	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total	
Operating Expenses	Salaries	1000000	1000000	1000000	1000000	1000000	1000000	1000000	1000000	1000000	1000000	1000000	10000000	
	Benefits	200000	200000	200000	200000	200000	200000	200000	200000	200000	200000	200000	2000000	
	Travel	50000	50000	50000	50000	50000	50000	50000	50000	50000	50000	50000	500000	
	Printing	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	200000	
	Telephone	100000	100000	100000	100000	100000	100000	100000	100000	100000	100000	100000	1000000	
	Utilities	150000	150000	150000	150000	150000	150000	150000	150000	150000	150000	150000	1500000	
	Supplies	80000	80000	80000	80000	80000	80000	80000	80000	80000	80000	80000	800000	
	Repairs	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000	300000	
	Depreciation	100000	100000	100000	100000	100000	100000	100000	100000	100000	100000	100000	1000000	
	Other	100000	100000	100000	100000	100000	100000	100000	100000	100000	100000	100000	1000000	
Capital Expenses	Equipment	500000	500000	500000	500000	500000	500000	500000	500000	500000	500000	500000	5000000	
	Construction	1000000	1000000	1000000	1000000	1000000	1000000	1000000	1000000	1000000	1000000	1000000	10000000	
	Software	200000	200000	200000	200000	200000	200000	200000	200000	200000	200000	200000	2000000	
	Leases	100000	100000	100000	100000	100000	100000	100000	100000	100000	100000	100000	1000000	
	Transportation	50000	50000	50000	50000	50000	50000	50000	50000	50000	50000	50000	500000	
	Information Technology	150000	150000	150000	150000	150000	150000	150000	150000	150000	150000	150000	1500000	
	Energy	80000	80000	80000	80000	80000	80000	80000	80000	80000	80000	80000	800000	
	Other	100000	100000	100000	100000	100000	100000	100000	100000	100000	100000	100000	1000000	
	Revenue	Property Tax	10000000	10000000	10000000	10000000	10000000	10000000	10000000	10000000	10000000	10000000	10000000	100000000
		Sales Tax	5000000	5000000	5000000	5000000	5000000	5000000	5000000	5000000	5000000	5000000	5000000	50000000
Income Tax		3000000	3000000	3000000	3000000	3000000	3000000	3000000	3000000	3000000	3000000	3000000	30000000	
Grants		2000000	2000000	2000000	2000000	2000000	2000000	2000000	2000000	2000000	2000000	2000000	20000000	
Interest		1000000	1000000	1000000	1000000	1000000	1000000	1000000	1000000	1000000	1000000	1000000	10000000	
Other		1000000	1000000	1000000	1000000	1000000	1000000	1000000	1000000	1000000	1000000	1000000	10000000	
Net Income		Operating	1000000	1000000	1000000	1000000	1000000	1000000	1000000	1000000	1000000	1000000	1000000	10000000
		Capital	500000	500000	500000	500000	500000	500000	500000	500000	500000	500000	500000	5000000
		Revenue	10000000	10000000	10000000	10000000	10000000	10000000	10000000	10000000	10000000	10000000	10000000	100000000
		Other	1000000	1000000	1000000	1000000	1000000	1000000	1000000	1000000	1000000	1000000	1000000	10000000
	Total	Operating Expenses	1000000	1000000	1000000	1000000	1000000	1000000	1000000	1000000	1000000	1000000	1000000	10000000
		Capital Expenses	500000	500000	500000	500000	500000	500000	500000	500000	500000	500000	500000	5000000
		Revenue	10000000	10000000	10000000	10000000	10000000	10000000	10000000	10000000	10000000	10000000	10000000	100000000
		Net Income	1000000	1000000	1000000	1000000	1000000	1000000	1000000	1000000	1000000	1000000	1000000	10000000

