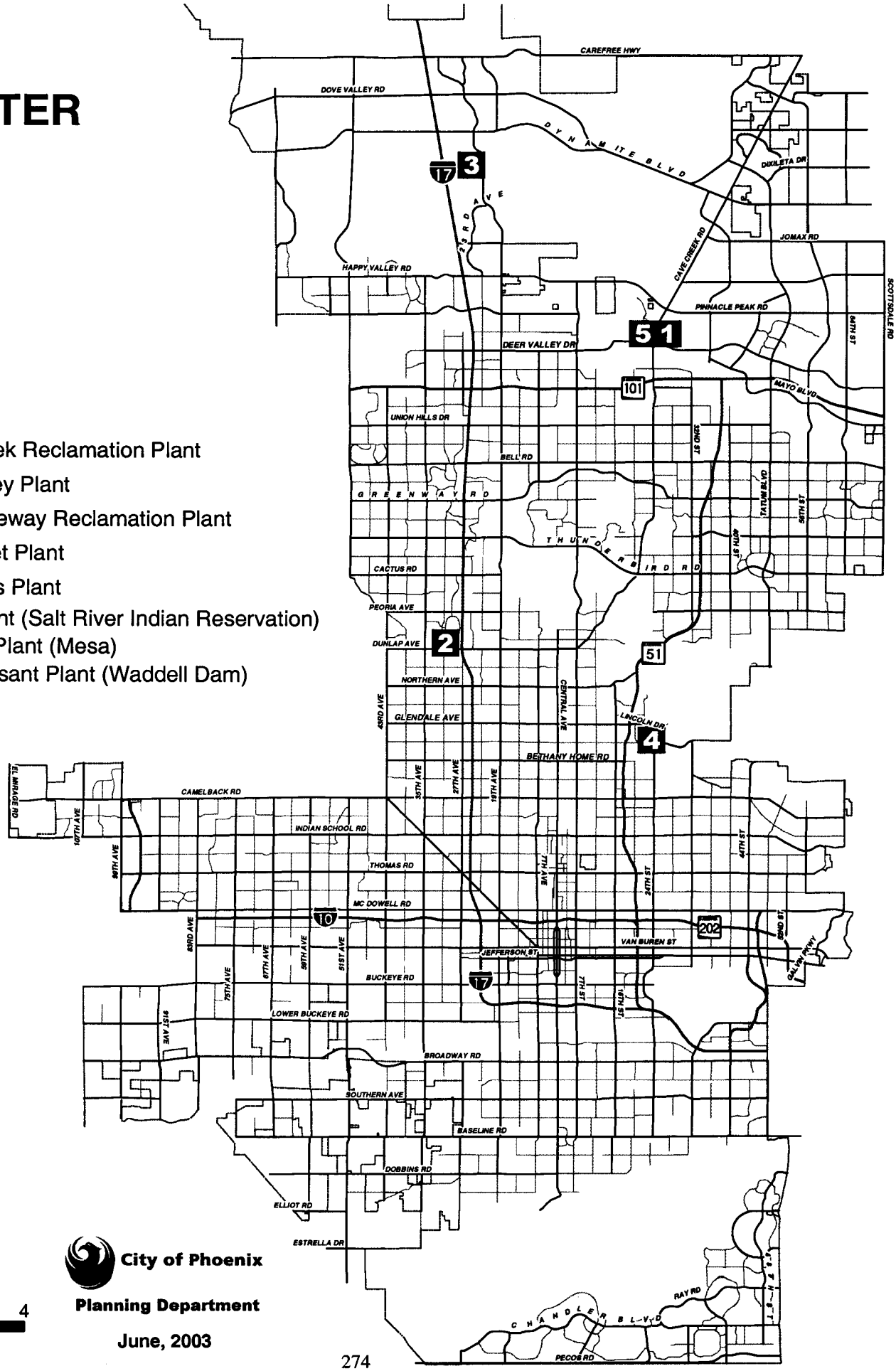
WATER



1 Cave Creek Reclamation Plant
2 Deer Valley Plant
3 North Gateway Reclamation Plant
4 24th Street Plant
5 Union Hills Plant
Verde Plant (Salt River Indian Reservation)
Val Vista Plant (Mesa)
Lake Pleasant Plant (Waddell Dam)

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Miles

City of Phoenix

Planning Department

June, 2003

Water

The $854.6 million Water program is funded with water operating revenue, water nonprofit corporation bonds, capital reserve funds and City of Mesa participation in the Val Vista Water Treatment Plant joint venture.

In addition to water line construction, major projects programmed include the following:

- Construction of new wells and rehabilitation of existing wells
- Construction of new reservoirs and rehabilitation of existing reservoirs
- Construction of new booster stations
- Rehabilitation of steel tanks
- Construction of facilities to reduce groundwater arsenic levels
- Construction of the new Supervisory Control and Data Acquisition System (SCADA) control center
- Expansion of the Cave Creek Water Reclamation Plant in northeast Phoenix
- Construction of the North Gateway Water Reclamation Plant
- Rehabilitation of the Deer Valley, 24th Street, Val Vista and Union Hills Water Treatment plants
- Automation improvements and chemical facilities upgrades at the Deer Valley, 24th Street, Val Vista and Union Hills Water Treatment plants
- Construction of sedimentation basin at the Union Hills Water Treatment Plant
- Construction of the Lake Pleasant Water Treatment Plant
- Construction of a new water distribution maintenance yard
- Construction of new projects to comply with the Safe Drinking Water Act
- Construction of new mains in growth areas
- Construction of Gateway Water System improvements
- Automation of water system records and maintenance schedules
- Upgrades to the water security system and monitoring of water quality
- Acquisition of additional water resources
- Relocations for Light Rail

Water
Capital Improvement Program Summary

Project Summary	2004-05	2005-06	2006-07	2007-08	2008-09	Total
24th Street Plant	$ 7,735,000	$ 200,000	$ 1,700,000	$ 7,800,000	$ -	$ 17,435,000
Automation	11,418,000	4,850,000	8,950,000	6,200,000	6,250,000	37,668,000
Boosters	-	-	-	-	1,300,000	1,300,000
Buildings	1,165,000	50,000	50,000	450,000	3,670,000	5,385,000
Cave Creek	154,000	500,000	-	-	-	654,000
Deer Valley Plant	3,880,000	12,200,000	4,400,000	-	1,000,000	21,480,000
Lake Pleasant Plant	218,600,000	-	-	-	-	218,600,000
North Gateway Pump Station & Force Main	23,000,000	1,000,000	-	-	-	24,000,000
Plan Six	750,000	-	-	-	-	750,000
Production	8,401,820	6,981,820	7,431,820	8,531,820	8,081,820	39,429,100
Reclamation Facilities	395,000	300,000	300,000	300,000	500,000	1,795,000
Security	1,500,000	2,000,000	2,000,000	2,000,000	4,000,000	11,500,000
Service Replacements	1,200,000	1,200,000	-	1,300,000	1,300,000	5,000,000
Storage	13,375,000	5,800,000	7,100,000	4,000,000	23,100,000	53,375,000
Union Hills Plant	800,000	2,500,000	-	2,000,000	11,000,000	16,300,000
Val Vista Plant	7,765,000	10,637,000	14,252,000	5,977,000	8,477,000	47,108,000
Water Mains	74,795,000	50,130,000	54,275,000	50,725,000	57,030,000	286,955,000
Water System Studies	9,206,000	5,125,000	6,125,000	6,125,000	7,125,000	33,706,000
Wells	6,390,000	1,000,000	6,000,000	9,000,000	4,500,000	26,890,000
Western Canal Plant	810,000	-	-	-	3,000,000	3,810,000
Percent for Art	1,410,000	-	-	-	-	1,410,000
Total	$ 392,749,820	$ 104,473,820	$ 112,583,820	$ 104,408,820	$ 140,333,820	$ 854,550,100
Source of Funds						
Operating Funds						
Water Revenues	$ 52,483,537	$ 35,685,449	$ 47,610,223	$ 47,288,630	$ 60,748,630	$ 243,816,469
Bond Funds						
Non-profit Water Bonds	$ 335,038,772	$ 63,236,775	$ 58,943,105	$ 54,625,000	$ 75,817,250	$ 587,660,902
Other Financing						
Development Impact Fees	$ 700,000	$ 1,000,000	$ -	$ -	$ -	$ 1,700,000
Other Cities' Share in Joint Ventures	3,777,511	4,551,596	6,030,492	2,495,190	3,767,940	20,622,729
Private Participation	750,000	-	-	-	-	750,000
Total Other Financing	$ 5,227,511	$ 5,551,596	$ 6,030,492	$ 2,495,190	$ 3,767,940	$ 23,072,729
Total Sources of Funds	$ 392,749,820	$ 104,473,820	$ 112,583,820	$ 104,408,820	$ 140,333,820	$ 854,550,100

Project No.	*Project Title*	*2004-05*	*2005-06*	*2006-07*	*2007-08*	*2008-09*	*Total*
AR84850001	**WATER MAIN COVERS REPLACEMENT**		**Function: Percent for Art**			**District: Citywide**	
Placement of artist-designed water main hatch covers.							
Equipment or Other		15,000	-	-	-	-	15,000
	Project Total	**$15,000**	-	-	-	-	**$15,000**
2000 Water CIC Non-profit Corp Bonds		15,000	-	-	-	-	15,000
	Funding Total	**$15,000**	-	-	-	-	**$15,000**
AR84850002	**ART ENHANCEMENTS ALONG HIGHLINE CANAL**		**Function: Percent for Art**			**District: 8**	
Research and plan canal bank art enhancements along the Highline Canal.							
Equipment or Other		100,000	-	-	-	-	100,000
	Project Total	**$100,000**	-	-	-	-	**$100,000**
2000 Water CIC Non-profit Corp Bonds		100,000	-	-	-	-	100,000
	Funding Total	**$100,000**	-	-	-	-	**$100,000**
AR84850005	**PAPAGO LOOP TRAIL**		**Function: Percent for Art**			**District: Citywide**	
Study the feasibility of projects along the Papago Loop trail within the jurisdiction of the City of Phoenix							
Construction		260,000	-	-	-	-	260,000
	Project Total	**$260,000**	-	-	-	-	**$260,000**
2004 CIC Water Bonds		260,000	-	-	-	-	260,000
	Funding Total	**$260,000**	-	-	-	-	**$260,000**
AR84850006	**WATER PERCENT FOR ART**		**Function: Percent for Art**			**District: Citywide**	
Acquire artwork for the Water Facilities.							
Construction		500,000	-	-	-	-	500,000
	Project Total	**$500,000**	-	-	-	-	**$500,000**
2004 CIC Water Bonds		500,000	-	-	-	-	500,000
	Funding Total	**$500,000**	-	-	-	-	**$500,000**
AR84850007	**LAKE PLEASANT WTP VISITOR CENTER**		**Function: Percent for Art**			**District: 1**	
Provides an opportunity for artist participation on the new Lake Pleasant Water Treatment Plant Visitor's Center design team.							
Construction		120,000	-	-	-	-	120,000
	Project Total	**$120,000**	-	-	-	-	**$120,000**
2004 CIC Water Bonds		120,000	-	-	-	-	120,000
	Funding Total	**$120,000**	-	-	-	-	**$120,000**
AR84850008	**WATER DEPT CENTENNIAL**		**Function: Percent for Art**			**District: Citywide**	
Plan and indentify opportunities to celebrate the Water Services Department centennial, which will occur on July 1, 2007.							
Construction		65,000	-	-	-	-	65,000
	Project Total	**$65,000**	-	-	-	-	**$65,000**
2004 CIC Water Bonds		65,000	-	-	-	-	65,000
	Funding Total	**$65,000**	-	-	-	-	**$65,000**

Project No.	*Project Title*	*2004-05*	*2005-06*	*2006-07*	*2007-08*	*2008-09*	*Total*
WS85010027	**CHLORINE CONTAINMENT FACILITIES**		**Function: Wells**			**District: Citywide**	
Construction of chlorine containment facilities for wells.							
Estimated full-year ongoing operating costs: $90,000							
Construction		125,000	-	-	-	-	125,000
	Project Total	**$125,000**	-	-	-	-	**$125,000**
2004 CIC Water Bonds		125,000	-	-	-	-	125,000
	Funding Total	**$125,000**	-	-	-	-	**$125,000**
WS85010028	**ACQUIRE 3 WELL SITES**		**Function: Wells**			**District: 2**	
Acquire three Well Sites from ASLD: two at 56th Street/Deer Valley and one at Pinnacle Peak/56th Street.							
Estimated full-year ongoing operating costs: $48,750							
Land Acquisition		600,000	-	-	-	-	600,000
	Project Total	**$600,000**	-	-	-	-	**$600,000**
2004 CIC Water Bonds		600,000	-	-	-	-	600,000
	Funding Total	**$600,000**	-	-	-	-	**$600,000**
WS85010029	**RCEP-OTHER FACILITIES**		**Function: Wells**			**District: Citywide**	
Regulatory compliance and environmental program - other facilities							
Construction		-	-	-	2,000,000	3,000,000	5,000,000
	Project Total	-	-	-	**$2,000,000**	**$3,000,000**	**$5,000,000**
Water Development Occupational Fee		-	-	-	2,000,000	-	2,000,000
2004 CIC Water Bonds		-	-	-	-	3,000,000	3,000,000
	Funding Total	-	-	-	**$2,000,000**	**$3,000,000**	**$5,000,000**
WS85010030	**ARSENIC TREATMENT FOR GROUNDWATER**		**Function: Wells**			**District: Citywide**	
Construction of arsenic treatment facilities at various wellsites.							
Estimated full-year ongoing operating costs: $2,300,000							
Design		500,000	-	-	-	-	500,000
Construction		5,015,000	-	6,000,000	6,000,000	-	17,015,000
	Project Total	**$5,515,000**	-	**$6,000,000**	**$6,000,000**	-	**$17,515,000**
Water Revenues		-	-	2,000,000	-	-	2,000,000
2004 CIC Water Bonds		5,515,000	-	4,000,000	6,000,000	-	15,515,000
	Funding Total	**$5,515,000**	-	**$6,000,000**	**$6,000,000**	-	**$17,515,000**
WS85010031	**EQUIP WELL NO. 296**		**Function: Wells**			**District: 2**	
Construction of pumping facilities for Well #296.							
Construction		50,000	-	-	-	-	50,000
	Project Total	**$50,000**	-	-	-	-	**$50,000**
Water Development Occupational Fee		50,000	-	-	-	-	50,000
	Funding Total	**$50,000**	-	-	-	-	**$50,000**
WS85010034	**CHLORINE CONTAINMENT FACILITIES PHASE 3B**		**Function: Wells**			**District: Citywide**	
Construction of chlorine containment facilities for wells. Phase 3B							
Construction		100,000	-	-	-	-	100,000
	Project Total	**$100,000**	-	-	-	-	**$100,000**
Water Revenues		100,000	-	-	-	-	100,000
	Funding Total	**$100,000**	-	-	-	-	**$100,000**

Project No.	*Project Title*	*2004-05*	*2005-06*	*2006-07*	*2007-08*	*2008-09*	*Total*
WS85010036	**ACQUIRE FUTURE WELLS**		**Function: Wells**			**District: Citywide**	
Acquire future well sites.							
Construction		-	1,000,000	-	1,000,000	1,500,000	3,500,000
	Project Total	**-**	**$1,000,000**	**-**	**$1,000,000**	**$1,500,000**	**$3,500,000**
Water Development Occupational Fee		-	-	-	375,000	875,000	1,250,000
2004 CIC Water Bonds		-	1,000,000	-	625,000	625,000	2,250,000
	Funding Total	**-**	**$1,000,000**	**-**	**$1,000,000**	**$1,500,000**	**$3,500,000**
WS85050008	**LONE MOUNTAIN RESERVOIR**		**Function: Storage**			**District: 2**	
Design and construction of a 5 MG reservoir to serve Zone 8 at 56th Street and Lone Mountain Road. Estimated full-year ongoing operating costs: $10,000							
Design		-	-	-	-	600,000	600,000
	Project Total	**-**	**-**	**-**	**-**	**$600,000**	**$600,000**
Water Development Occupational Fee		-	-	-	-	600,000	600,000
	Funding Total	**-**	**-**	**-**	**-**	**$600,000**	**$600,000**
WS85050013	**LOWER MINERAL RESERVOIR**		**Function: Storage**			**District: 6 & 8**	
Construction of an additional 5 MG reservoir and transmission main at the Lower Mineral Road Reservoir site. Estimated full-year ongoing operating costs: $10,000							
Design		-	-	-	-	500,000	500,000
	Project Total	**-**	**-**	**-**	**-**	**$500,000**	**$500,000**
2004 CIC Water Bonds		-	-	-	-	500,000	500,000
	Funding Total	**-**	**-**	**-**	**-**	**$500,000**	**$500,000**
WS85050015	**RESERVOIR-56TH ST/ PINNACLE PEAK**		**Function: Storage**			**District: 2**	
Construction of a 10 MG Reservoir at 56th Street/Pinnacle Peak Road (Zone 5NE). Estimated full-year ongoing operating costs: $10,000							
Design		-	-	-	600,000	-	600,000
Construction		-	-	-	-	6,000,000	6,000,000
	Project Total	**-**	**-**	**-**	**$600,000**	**$6,000,000**	**$6,600,000**
Water Revenues		-	-	-	600,000	-	600,000
2004 CIC Water Bonds		-	-	-	-	6,000,000	6,000,000
	Funding Total	**-**	**-**	**-**	**$600,000**	**$6,000,000**	**$6,600,000**
WS85050016	**RESERVOIR-19TH AVE/ DYNAMITE RD**		**Function: Storage**			**District: 2**	
Purchase site for a 10 MG Reservoir (Zone 5NW) at 19th Avenue and Dynamite Road. Estimated full-year ongoing operating costs: $10,000							
Land Acquisition		1,200,000	-	-	-	-	1,200,000
Design		-	-	-	700,000	-	700,000
Construction		-	-	-	-	6,000,000	6,000,000
	Project Total	**$1,200,000**	**-**	**-**	**$700,000**	**$6,000,000**	**$7,900,000**
2004 CIC Water Bonds		1,200,000	-	-	700,000	6,000,000	7,900,000
	Funding Total	**$1,200,000**	**-**	**-**	**$700,000**	**$6,000,000**	**$7,900,000**
WS85050017	**DESERT HILLS 20 MG RESERVOIR**		**Function: Storage**			**District: 2**	
Land acquisition and construction of a 20 MG reservoir and transmission main at 7th Avenue and Cloud Road. Estimated full-year ongoing operating costs: $10,000							
Land Acquisition		-	1,000,000	-	-	-	1,000,000
Design		-	-	-	-	1,500,000	1,500,000
	Project Total	**-**	**$1,000,000**	**-**	**-**	**$1,500,000**	**$2,500,000**
Water Development Occupational Fee		-	-	-	-	1,500,000	1,500,000
2004 CIC Water Bonds		-	1,000,000	-	-	-	1,000,000
	Funding Total	**-**	**$1,000,000**	**-**	**-**	**$1,500,000**	**$2,500,000**

Project No.	*Project Title*	*2004-05*	*2005-06*	*2006-07*	*2007-08*	*2008-09*	*Total*
WS85050019	**CONCRETE RESERVOIR REHABILITATION**		**Function: Storage**			**District: Citywide**	
Construct improvements recommended in the Concrete Reservoir Assessment Study.							
Construction		410,000	-	2,000,000	1,000,000	4,000,000	7,410,000
	Project Total	**$410,000**	**-**	**$2,000,000**	**$1,000,000**	**$4,000,000**	**$7,410,000**
Water Revenues		-	-	2,000,000	1,000,000	4,000,000	7,000,000
2004 CIC Water Bonds		410,000	-	-	-	-	410,000
	Funding Total	**$410,000**	**-**	**$2,000,000**	**$1,000,000**	**$4,000,000**	**$7,410,000**
WS85050022	**SCADA CONTROL CENTER**		**Function: Storage**			**District: Citywide**	
Construct the SCADA Control Facility and Training Center at 52nd Street and Thomas. Estimated full-year ongoing operating costs: $100,000							
Equipment or Other		50,000	-	-	-	-	50,000
Design		800,000	-	-	-	-	800,000
Construction		8,000,000	-	3,000,000	-	-	11,000,000
	Project Total	**$8,850,000**	**-**	**$3,000,000**	**-**	**-**	**$11,850,000**
2004 CIC Water Bonds		8,850,000	-	3,000,000	-	-	11,850,000
	Funding Total	**$8,850,000**	**-**	**$3,000,000**	**-**	**-**	**$11,850,000**
WS85050023	**STEEL TANK REHABILITATION**		**Function: Storage**			**District: Citywide**	
Steel Tank Rehabilitation							
Construction		400,000	2,000,000	2,000,000	1,000,000	4,000,000	9,400,000
	Project Total	**$400,000**	**$2,000,000**	**$2,000,000**	**$1,000,000**	**$4,000,000**	**$9,400,000**
Water Revenues		-	-	2,000,000	-	-	2,000,000
2004 CIC Water Bonds		400,000	2,000,000	-	1,000,000	4,000,000	7,400,000
	Funding Total	**$400,000**	**$2,000,000**	**$2,000,000**	**$1,000,000**	**$4,000,000**	**$9,400,000**
WS85050026	**42ND ST/BASELINE RESERVOIR REHAB**		**Function: Storage**			**District: 6**	
Construct roof, ventilation, and floor improvements.							
Design		200,000	-	-	-	-	200,000
Construction		1,850,000	100,000	-	-	-	1,950,000
	Project Total	**$2,050,000**	**$100,000**	**-**	**-**	**-**	**$2,150,000**
2004 CIC Water Bonds		2,050,000	100,000	-	-	-	2,150,000
	Funding Total	**$2,050,000**	**$100,000**	**-**	**-**	**-**	**$2,150,000**
WS85050027	**RAY RD RESERVOIR REHABILITATION**		**Function: Storage**			**District: 6**	
Construct roof, ventilation, and floor improvements.							
Construction		100,000	-	-	-	-	100,000
	Project Total	**$100,000**	**-**	**-**	**-**	**-**	**$100,000**
2004 CIC Water Bonds		100,000	-	-	-	-	100,000
	Funding Total	**$100,000**	**-**	**-**	**-**	**-**	**$100,000**
WS85050028	**24TH STREET RES NO. 1 REHAB**		**Function: Storage**			**District: 3**	
Construct roof, ventilation, and floor improvements for 24th Street WTP Reservoir No. 1.							
Construction		150,000	-	-	-	-	150,000
	Project Total	**$150,000**	**-**	**-**	**-**	**-**	**$150,000**
2004 CIC Water Bonds		150,000	-	-	-	-	150,000
	Funding Total	**$150,000**	**-**	**-**	**-**	**-**	**$150,000**

City of Phoenix, Arizona
2004-2009 Capital Improvement Program
Water

Project No.	Project Title	2004-05	2005-06	2006-07	2007-08	2008-09	Total
WS85050029	**64TH ST RESERVOIR #4 REHAB**		**Function: Storage**			**District: Citywide**	
Construct roof, ventilation, and floor improvements.							
Design		200,000	-	-	-	-	200,000
Construction		15,000	1,700,000	100,000	-	-	1,815,000
Project Total		**$215,000**	**$1,700,000**	**$100,000**	**-**	**-**	**$2,015,000**
Water Revenues		-	-	100,000	-	-	100,000
2004 CIC Water Bonds		215,000	1,700,000	-	-	-	1,915,000
Funding Total		**$215,000**	**$1,700,000**	**$100,000**	**-**	**-**	**$2,015,000**
WS85050030	**5 MG PINNACLE VISTA RESERVOIR**		**Function: Storage**			**District: 2**	
Construct a 5 MG reservoir at 64th Street and Jomax Road. Estimated full-year ongoing operating costs: $10,000							
Land Acquisition		-	1,000,000	-	-	-	1,000,000
Project Total		**-**	**$1,000,000**	**-**	**-**	**-**	**$1,000,000**
Impact Fee - Desert View, Water		-	1,000,000	-	-	-	1,000,000
Funding Total		**-**	**$1,000,000**	**-**	**-**	**-**	**$1,000,000**
WS85050032	**DOVE VALLEY RESERVOIR (ZONE 9NE)**		**Function: Storage**			**District: 2**	
Construct a 5 MG reservoir at Dove Valley Road and 64th Street. Estimated full-year ongoing operating costs: $10,000							
Construction		-	-	-	-	500,000	500,000
Project Total		**-**	**-**	**-**	**-**	**$500,000**	**$500,000**
2004 CIC Water Bonds		-	-	-	-	500,000	500,000
Funding Total		**-**	**-**	**-**	**-**	**$500,000**	**$500,000**
WS85050033	**2 MG RESERVOIR AT UPPER MINERAL TANK SITE**		**Function: Storage**			**District: 8**	
Two MG reservoir at Upper Mineral Tank Site - 7th Street and Mineral Road. Estimated full-year ongoing operating costs: $10,000							
Design		-	-	-	700,000	-	700,000
Project Total		**-**	**-**	**-**	**$700,000**	**-**	**$700,000**
2004 CIC Water Bonds		-	-	-	700,000	-	700,000
Funding Total		**-**	**-**	**-**	**$700,000**	**-**	**$700,000**
WS85080001	**CAVE CREEK WATER RECLAMATION PLANT (WRP) RECHARGE**		**Function: Cave Creek**			**District: 2**	
Design and construct groundwater recharge/recovery facilities in northeast Phoenix for the Cave Creek WRP. Estimated full-year ongoing operating costs: $100,000							
Construction		154,000	-	-	-	-	154,000
Project Total		**$154,000**	**-**	**-**	**-**	**-**	**$154,000**
2004 CIC Water Bonds		154,000	-	-	-	-	154,000
Funding Total		**$154,000**	**-**	**-**	**-**	**-**	**$154,000**
WS85080007	**CAVE CREEK (WRP) - ASSET MGMT PLAN**		**Function: Cave Creek**			**District: Citywide**	
Study to provide a maintenance management schedule and equipment replacement master plan for the plant.							
Design		-	500,000	-	-	-	500,000
Project Total		**-**	**$500,000**	**-**	**-**	**-**	**$500,000**
Water Revenues		-	500,000	-	-	-	500,000
Funding Total		**-**	**$500,000**	**-**	**-**	**-**	**$500,000**

Project No.	*Project Title*	*2004-05*	*2005-06*	*2006-07*	*2007-08*	*2008-09*	*Total*
WS85090001	**NORTH GATEWAY - LAND**		**Function: North Gateway Rec Plant**			**District: 2**	
Acquisition of 8 acres for the North Gateway substation.							
Land Acquisition		400,000	-	-	-	-	400,000
	Project Total	**$400,000**	-	-	-	-	**$400,000**
2004 CIC Water Bonds		400,000	-	-	-	-	400,000
	Funding Total	**$400,000**	-	-	-	-	**$400,000**
WS85090003	**NORTH GATEWAY PUMP STATION AND FORCE MAIN**		**Function: North Gateway Rec Plant**			**District: 2**	
Construct a 4 MGD pump station and 7.5 miles of twin 24" force mains. Estimated full-year ongoing operating costs: $14,000							
Land Acquisition		3,800,000	-	-	-	-	3,800,000
Design		6,000,000	-	-	-	-	6,000,000
Construction		35,400,000	2,000,000	-	-	-	37,400,000
	Project Total	**$45,200,000**	**$2,000,000**	-	-	-	**$47,200,000**
Water Development Occupational Fee		2,000,000	-	-	-	-	2,000,000
2004 CIC Water Bonds		43,200,000	2,000,000	-	-	-	45,200,000
	Funding Total	**$45,200,000**	**$2,000,000**	-	-	-	**$47,200,000**
WS85100014	**BOOSTER STATION AT 27TH AVE/LONE MTN RD**		**Function: Boosters**			**District: 2**	
Additional pumps for a 20 MGD booster station at 27th Avenue and Lone Mountain Road. Estimated full-year ongoing operating costs: $100,000							
Construction		-	-	-	-	1,000,000	1,000,000
	Project Total	-	-	-	-	**$1,000,000**	**$1,000,000**
2004 CIC Water Bonds		-	-	-	-	1,000,000	1,000,000
	Funding Total	-	-	-	-	**$1,000,000**	**$1,000,000**
WS85100015	**TRAMANTO BOOSTERS**		**Function: Boosters**			**District: 2**	
Construction of Tramanto boosters at 19th Ave/Carefree Hwy- Zones 7 & 8.							
Design		-	-	-	-	300,000	300,000
	Project Total	-	-	-	-	**$300,000**	**$300,000**
2004 CIC Water Bonds		-	-	-	-	300,000	300,000
	Funding Total	-	-	-	-	**$300,000**	**$300,000**
WS85150001	**PLAN 6 FACILITIES**		**Function: Plan Six**			**District: Citywide**	
Trust fund deposits for design and construction of facilities recommended in Plan 6 of the Central Arizona Water Control Study.							
Construction		750,000	-	-	-	-	750,000
	Project Total	**$750,000**	-	-	-	-	**$750,000**
Plan Six Facilities		750,000	-	-	-	-	750,000
	Funding Total	**$750,000**	-	-	-	-	**$750,000**
WS85220001	**WESTERN CANAL PLANT**		**Function: Western Canal Plant**			**District: 7**	
Construction of a water treatment plant at 15th Avenue and Dobbins Road. Estimated full-year ongoing operating costs: $5,860,000							
Construction		810,000	-	-	-	3,000,000	3,810,000
	Project Total	**$810,000**	-	-	-	**$3,000,000**	**$3,810,000**
Water Resources Acquisition Fee		810,000	-	-	-	-	810,000
2004 CIC Water Bonds		-	-	-	-	3,000,000	3,000,000
	Funding Total	**$810,000**	-	-	-	**$3,000,000**	**$3,810,000**

Project No.	*Project Title*	*2004-05*	*2005-06*	*2006-07*	*2007-08*	*2008-09*	*Total*
WS85230012	**VAL VISTA WTP PROCESS CONTROL OPTIMIZATION**		**Function: Val Vista Plant**			**District: Citywide**	
Val Vista WTP - process control improvements.							
Estimated full-year ongoing operating costs: $20,000							
Construction		10,000	1,500,000	-	-	1,500,000	3,010,000
	Project Total	**$10,000**	**$1,500,000**	**-**	**-**	**$1,500,000**	**$3,010,000**
Val Vista WTP Capital Improvements		4,091	613,650	-	-	613,650	1,231,391
2004 CIC Water Bonds		5,909	886,350	-	-	886,350	1,778,609
	Funding Total	**$10,000**	**$1,500,000**	**-**	**-**	**$1,500,000**	**$3,010,000**
WS85230013	**VAL VISTA WTP-INTERVAL UPGRADES**		**Function: Val Vista Plant**			**District: Citywide**	
Val Vista WTP miscelleous improvements.							
Design		200,000	-	-	-	-	200,000
Construction		2,300,000	2,000,000	-	-	-	4,300,000
	Project Total	**$2,500,000**	**$2,000,000**	**-**	**-**	**-**	**$4,500,000**
Val Vista WTP Capital Improvements		1,022,750	818,200	-	-	-	1,840,950
2004 CIC Water Bonds		1,477,250	1,181,800	-	-	-	2,659,050
	Funding Total	**$2,500,000**	**$2,000,000**	**-**	**-**	**-**	**$4,500,000**
WS85230020	**VV WTP - MASTER AS-BUILT DOCUMENTATION - I&C**		**Function: Val Vista Plant**			**District: Citywide**	
Develop an information access system for instrumentation and control facilities as-builts at the Val Vista WTP.							
Design		665,000	-	-	-	-	665,000
Construction		10,000	-	-	-	-	10,000
	Project Total	**$675,000**	**-**	**-**	**-**	**-**	**$675,000**
Val Vista WTP Capital Improvements		276,142	-	-	-	-	276,142
2004 CIC Water Bonds		398,858	-	-	-	-	398,858
	Funding Total	**$675,000**	**-**	**-**	**-**	**-**	**$675,000**
WS85230021	**VAL VISTA WTP - CHLORINE CYLINDER CONVERSION**		**Function: Val Vista Plant**			**District: Citywide**	
Conversion of the VV WTP Chlorine Storage Facilities from tank trailers to one ton cylinders.							
Construction		150,000	-	-	-	-	150,000
	Project Total	**$150,000**	**-**	**-**	**-**	**-**	**$150,000**
Val Vista WTP Capital Improvements		61,365	-	-	-	-	61,365
2004 CIC Water Bonds		88,635	-	-	-	-	88,635
	Funding Total	**$150,000**	**-**	**-**	**-**	**-**	**$150,000**
WS85230023	**VV WTP - I & C INSPECTION SERVICES**		**Function: Val Vista Plant**			**District: Citywide**	
On Call inspection services for instrumentation and control projects at the Val Vista Water Treatment Plant.							
Design		200,000	200,000	200,000	200,000	200,000	1,000,000
	Project Total	**$200,000**	**$200,000**	**$200,000**	**$200,000**	**$200,000**	**$1,000,000**
Water Revenues		-	118,180	118,180	118,180	118,180	472,720
Val Vista WTP Capital Improvements		81,820	81,820	81,820	81,820	81,820	409,100
2004 CIC Water Bonds		118,180	-	-	-	-	118,180
	Funding Total	**$200,000**	**$200,000**	**$200,000**	**$200,000**	**$200,000**	**$1,000,000**

Project No.	*Project Title*	*2004-05*	*2005-06*	*2006-07*	*2007-08*	*2008-09*	*Total*
WS85230025	**VAL VISTA MAIN REHABILITATION**		**Function: Val Vista Plant**			**District: Citywide**	
Replacement and rehabilitation of the Val Vista Transmission Main from the VV WTP to 48th Street, according to the Prestressed Concrete Cylinder Pipe Study.							
Design		3,000,000	-	-	-	-	3,000,000
Construction		-	5,077,000	5,077,000	5,077,000	5,077,000	20,308,000
	Project Total	**$3,000,000**	**$5,077,000**	**$5,077,000**	**$5,077,000**	**$5,077,000**	**$23,308,000**
Val Vista WTP Capital Improvements		1,227,300	2,077,000	2,077,000	2,077,000	2,077,000	9,535,300
2004 CIC Water Bonds		1,772,700	3,000,000	3,000,000	3,000,000	3,000,000	13,772,700
	Funding Total	**$3,000,000**	**$5,077,000**	**$5,077,000**	**$5,077,000**	**$5,077,000**	**$23,308,000**
WS85230026	**VAL VISTA WTP - GAC CONVERSION**		**Function: Val Vista Plant**			**District: Citywide**	
Conversion of plant filtration to granular activated carbon (GAC). Estimated full-year ongoing operating costs: $570,000							
Design		-	750,000	-	-	-	750,000
Construction		-	-	8,450,000	-	-	8,450,000
	Project Total	**-**	**$750,000**	**$8,450,000**	**-**	**-**	**$9,200,000**
Val Vista WTP Capital Improvements		-	306,825	3,456,895	-	-	3,763,720
2004 CIC Water Bonds		-	443,175	4,993,105	-	-	5,436,280
	Funding Total	**-**	**$750,000**	**$8,450,000**	**-**	**-**	**$9,200,000**
WS85230027	**V V WTP - LANDSCAPING**		**Function: Val Vista Plant**			**District: Citywide**	
Landscaping at Val Vista Water Treatment Plant. Estimated full-year ongoing operating costs: $20,000							
Construction		-	-	-	-	1,000,000	1,000,000
	Project Total	**-**	**-**	**-**	**-**	**$1,000,000**	**$1,000,000**
Val Vista WTP Capital Improvements		-	-	-	-	409,100	409,100
2004 CIC Water Bonds		-	-	-	-	590,900	590,900
	Funding Total	**-**	**-**	**-**	**-**	**$1,000,000**	**$1,000,000**
WS85230028	**VAL VISTA WTP - SECURITY UPGRADES**		**Function: Val Vista Plant**			**District: Citywide**	
Install fencing, cameras and other security facilities at the plant.							
Design		300,000	-	-	-	-	300,000
	Project Total	**$300,000**	**-**	**-**	**-**	**-**	**$300,000**
Val Vista WTP Capital Improvements		122,730	-	-	-	-	122,730
2004 CIC Water Bonds		177,270	-	-	-	-	177,270
	Funding Total	**$300,000**	**-**	**-**	**-**	**-**	**$300,000**
WS85230029	**VV WTP - ASSET MANAGEMENT PLAN**		**Function: Val Vista Plant**			**District: Citywide**	
Study to provide a maintenance management schedule and equipment replacement master plan for the plant.							
Design		-	500,000	-	-	-	500,000
	Project Total	**-**	**$500,000**	**-**	**-**	**-**	**$500,000**
Val Vista WTP Capital Improvements		-	204,550	-	-	-	204,550
2004 CIC Water Bonds		-	295,450	-	-	-	295,450
	Funding Total	**-**	**$500,000**	**-**	**-**	**-**	**$500,000**

Project No.	*Project Title*	*2004-05*	*2005-06*	*2006-07*	*2007-08*	*2008-09*	*Total*
WS85400002	**PRODUCT REPLACEMENT-VAL VISTA WTP**		**Function: Val Vista Plant**			**District: Citywide**	
Miscellaneous improvements to Val Vista water treatment plant.							
Equipment or Other		930,000	610,000	525,000	700,000	700,000	3,465,000
	Project Total	**$930,000**	**$610,000**	**$525,000**	**$700,000**	**$700,000**	**$3,465,000**
Val Vista WTP Capital Improvements		380,463	249,551	214,777	286,370	286,370	1,417,531
Val Vista WTP - Capital Outlay		549,537	360,449	310,223	413,630	413,630	2,047,469
	Funding Total	**$930,000**	**$610,000**	**$525,000**	**$700,000**	**$700,000**	**$3,465,000**
WS85260007	**DEER VALLEY WTP-REHABILITATION**		**Function: Deer Valley Plant**			**District: Citywide**	
Deer Valley WTP Rehabilitation.							
Construction		2,750,000	-	-	-	-	2,750,000
	Project Total	**$2,750,000**	-	-	-	-	**$2,750,000**
2004 CIC Water Bonds		2,750,000	-	-	-	-	2,750,000
	Funding Total	**$2,750,000**	-	-	-	-	**$2,750,000**
WS85260010	**DEER VALLEY WTP PROCESS CONTROL OPTIMIZATION**		**Function: Deer Valley Plant**			**District: Citywide**	
Deer Valley WTP process control improvements.							
Design		400,000	-	-	-	-	400,000
Construction		10,000	-	1,000,000	-	-	1,010,000
	Project Total	**$410,000**	-	**$1,000,000**	-	-	**$1,410,000**
Water Revenues		-	-	1,000,000	-	-	1,000,000
2004 CIC Water Bonds		410,000	-	-	-	-	410,000
	Funding Total	**$410,000**	-	**$1,000,000**	-	-	**$1,410,000**
WS85260011	**DEER VALLEY WTP-REMEDIATION AND REMODELING**		**Function: Deer Valley Plant**			**District: Citywide**	
Deer Valley WTP Administration building repairs due to tank leakage.							
Construction		-	-	-	-	1,000,000	1,000,000
	Project Total	-	-	-	-	**$1,000,000**	**$1,000,000**
2004 CIC Water Bonds		-	-	-	-	1,000,000	1,000,000
	Funding Total	-	-	-	-	**$1,000,000**	**$1,000,000**
WS85260012	**DEER VALLEY WTP-WELL BLENDING PLAN**		**Function: Deer Valley Plant**			**District: Citywide**	
Construct facilities to blend water from 4 wells with Deer Valley WTP production water. Estimated full-year ongoing operating costs: $60,000							
Design		-	-	400,000	-	-	400,000
Construction		-	-	3,000,000	-	-	3,000,000
	Project Total	-	-	**$3,400,000**	-	-	**$3,400,000**
2004 CIC Water Bonds		-	-	3,400,000	-	-	3,400,000
	Funding Total	-	-	**$3,400,000**	-	-	**$3,400,000**
WS85260014	**DEER VALLEY DCS IMPLEMENTATION**		**Function: Deer Valley Plant**			**District: Citywide**	
Distributed Control System (DCS) upgrades and standardization of process controls at Deer Valley WTP.							
Equipment or Other		-	2,200,000	-	-	-	2,200,000
	Project Total	-	**$2,200,000**	-	-	-	**$2,200,000**
2004 CIC Water Bonds		-	2,200,000	-	-	-	2,200,000
	Funding Total	-	**$2,200,000**	-	-	-	**$2,200,000**

Project No.	*Project Title*	*2004-05*	*2005-06*	*2006-07*	*2007-08*	*2008-09*	*Total*
WS85260015	**DEER VALLEY WTP - GAC CONVERSION**		**Function: Deer Valley Plant**			**District: Citywide**	
Conversion of plant filters to granular activated carbon.							
Estimated full-year ongoing operating costs: $760,000							
Design		500,000	700,000	-	-	-	1,200,000
Construction		10,000	6,800,000	-	-	-	6,810,000
	Project Total	**$510,000**	**$7,500,000**	**-**	**-**	**-**	**$8,010,000**
2004 CIC Water Bonds		510,000	7,500,000	-	-	-	8,010,000
	Funding Total	**$510,000**	**$7,500,000**	**-**	**-**	**-**	**$8,010,000**
WS85260016	**DEER VALLEY WTP - SRP PIPE RELOCATION**		**Function: Deer Valley Plant**			**District: Citywide**	
Relocate SRP irrigation lateral pipe from under plant structures.							
Design		200,000	-	-	-	-	200,000
Construction		10,000	2,000,000	-	-	-	2,010,000
	Project Total	**$210,000**	**$2,000,000**	**-**	**-**	**-**	**$2,210,000**
2004 CIC Water Bonds		210,000	2,000,000	-	-	-	2,210,000
	Funding Total	**$210,000**	**$2,000,000**	**-**	**-**	**-**	**$2,210,000**
WS85260017	**DV WTP - ASSET MANAGEMENT PLAN**		**Function: Deer Valley Plant**			**District: Citywide**	
Study to provide a maintenance management schedule and equipment replacement master plan for the plant.							
Design		-	500,000	-	-	-	500,000
	Project Total	**-**	**$500,000**	**-**	**-**	**-**	**$500,000**
Water Revenues		-	500,000	-	-	-	500,000
	Funding Total	**-**	**$500,000**	**-**	**-**	**-**	**$500,000**
WS85290010	**24TH STREET WTP-REHAB**		**Function: 24th Street Plant**			**District: Citywide**	
24th Street WTP Rehabilitation.							
Design		500,000	-	-	-	-	500,000
Construction		15,000	-	-	-	-	15,000
	Project Total	**$515,000**	**-**	**-**	**-**	**-**	**$515,000**
2004 CIC Water Bonds		515,000	-	-	-	-	515,000
	Funding Total	**$515,000**	**-**	**-**	**-**	**-**	**$515,000**
WS85290013	**24TH STREET WTP PROCESS CONTROL OPTIMIZATION**		**Function: 24th Street Plant**			**District: Citywide**	
24th Street WTP process control improvements.							
Estimated full-year ongoing operating costs: $50,000							
Design		400,000	-	-	-	-	400,000
Construction		10,000	-	1,000,000	-	-	1,010,000
	Project Total	**$410,000**	**-**	**$1,000,000**	**-**	**-**	**$1,410,000**
Water Revenues		-	-	1,000,000	-	-	1,000,000
2004 CIC Water Bonds		410,000	-	-	-	-	410,000
	Funding Total	**$410,000**	**-**	**$1,000,000**	**-**	**-**	**$1,410,000**
WS85290014	**24TH STREET WTP-PV BOOSTER**		**Function: 24th Street Plant**			**District: Citywide**	
Construct improvements to the Zone 4A booster and PRV Station at the plant.							
Design		385,000	-	-	-	-	385,000
Construction		5,000,000	200,000	-	-	-	5,200,000
	Project Total	**$5,385,000**	**$200,000**	**-**	**-**	**-**	**$5,585,000**
2004 CIC Water Bonds		5,385,000	200,000	-	-	-	5,585,000
	Funding Total	**$5,385,000**	**$200,000**	**-**	**-**	**-**	**$5,585,000**

Project No.	*Project Title*	*2004-05*	*2005-06*	*2006-07*	*2007-08*	*2008-09*	*Total*
WS85290015	**24TH STREET DCS IMPLEMENTATION**		**Function: 24th Street Plant**			**District: Citywide**	
Distributed Control System (DCS) upgrades and standardization of process controls at 24th Street WTP.							
Construction		1,425,000	-	-	-	-	1,425,000
	Project Total	**$1,425,000**	-	-	-	-	**$1,425,000**
2004 CIC Water Bonds		1,425,000	-	-	-	-	1,425,000
	Funding Total	**$1,425,000**	-	-	-	-	**$1,425,000**
WS85290016	**24TH STREET WTP - GAC CONVERSION**		**Function: 24th Street Plant**			**District: Citywide**	
Conversion of plant filtration to granular activated carbon. Estimated full-year ongoing operating costs: $750,000							
Design		-	-	700,000	-	-	700,000
Construction		-	-	-	7,800,000	-	7,800,000
	Project Total	-	-	**$700,000**	**$7,800,000**	-	**$8,500,000**
2004 CIC Water Bonds		-	-	700,000	7,800,000	-	8,500,000
	Funding Total	-	-	**$700,000**	**$7,800,000**	-	**$8,500,000**
WS85320004	**UNION HILLS WTP-REHAB**		**Function: Union Hills Plant**			**District: Citywide**	
Union Hills WTP rehabilitation.							
Design		-	500,000	-	-	-	500,000
	Project Total	-	**$500,000**	-	-	-	**$500,000**
Water Revenues		-	500,000	-	-	-	500,000
	Funding Total	-	**$500,000**	-	-	-	**$500,000**
WS85320006	**UNION HILLS WTP-RCEP IMPROVEMENTS**		**Function: Union Hills Plant**			**District: Citywide**	
Union Hills WTP-Chemical facility upgrades and other regulatory compliance and environmental (RCEP) improvements. Estimated full-year ongoing operating costs: $932,200							
Construction		-	1,600,000	-	-	-	1,600,000
	Project Total	-	**$1,600,000**	-	-	-	**$1,600,000**
Water Revenues		-	1,600,000	-	-	-	1,600,000
	Funding Total	-	**$1,600,000**	-	-	-	**$1,600,000**
WS85320008	**UNION HILLS WTP-160 MGD SED BASIN**		**Function: Union Hills Plant**			**District: Citywide**	
Design and construction of 160 million gallon sedimentation basins at the Union Hills Water Treatment Plant. Estimated full-year ongoing operating costs: $370,000							
Construction		350,000	-	-	-	-	350,000
	Project Total	**$350,000**	-	-	-	-	**$350,000**
2004 CIC Water Bonds		350,000	-	-	-	-	350,000
	Funding Total	**$350,000**	-	-	-	-	**$350,000**
WS85320009	**UNION HILLS WTP PROCESS CONTROL OPTIMIZATION**		**Function: Union Hills Plant**			**District: Citywide**	
Union Hills WTP process control improvements.							
Design		-	400,000	-	-	-	400,000
Construction		-	-	-	1,000,000	-	1,000,000
	Project Total	-	**$400,000**	-	**$1,000,000**	-	**$1,400,000**
Water Revenues		-	400,000	-	1,000,000	-	1,400,000
	Funding Total	-	**$400,000**	-	**$1,000,000**	-	**$1,400,000**

Project No.	*Project Title*	*2004-05*	*2005-06*	*2006-07*	*2007-08*	*2008-09*	*Total*
WS85320011	**UNION HILLS WTP-CHLORINE CYLINDER CONVERSION**		**Function: Union Hills Plant**			**District: Citywide**	
Conversion of the Union Hills Chlorine Storage Facilities from tank trailers to one ton cylinders.							
Construction		150,000	-	-	-	-	150,000
Project Total		**$150,000**	**-**	**-**	**-**	**-**	**$150,000**
Water Revenues		150,000	-	-	-	-	150,000
Funding Total		**$150,000**	**-**	**-**	**-**	**-**	**$150,000**
WS85320012	**UNION HILLS WTP - GAC CONVERSION**		**Function: Union Hills Plant**			**District: Citywide**	
Conversion of plant filtration to granular activated carbon. Estimated full-year ongoing operating costs: $880,000							
Design		-	-	-	1,000,000	-	1,000,000
Construction		-	-	-	-	11,000,000	11,000,000
Project Total		**-**	**-**	**-**	**$1,000,000**	**$11,000,000**	**$12,000,000**
2004 CIC Water Bonds		-	-	-	1,000,000	11,000,000	12,000,000
Funding Total		**-**	**-**	**-**	**$1,000,000**	**$11,000,000**	**$12,000,000**
WS85320013	**UNION HILLS WTP - SECURITY UPGRADES**		**Function: Union Hills Plant**			**District: Citywide**	
Install fencing, card readers, cameras and other security facilities at the plant.							
Design		300,000	-	-	-	-	300,000
Project Total		**$300,000**	**-**	**-**	**-**	**-**	**$300,000**
2004 CIC Water Bonds		300,000	-	-	-	-	300,000
Funding Total		**$300,000**	**-**	**-**	**-**	**-**	**$300,000**
WS85350001	**LAKE PLEASANT WTP-LAND**		**Function: Lake Pleasant Plant**			**District: Citywide**	
Negotiate lease for 10 acres near the New Waddell Dam for the lake Pleasant WTP Booster Station site.							
Land Acquisition		5,500,000	-	-	-	-	5,500,000
Project Total		**$5,500,000**	**-**	**-**	**-**	**-**	**$5,500,000**
2004 CIC Water Bonds		5,500,000	-	-	-	-	5,500,000
Funding Total		**$5,500,000**	**-**	**-**	**-**	**-**	**$5,500,000**
WS85350005	**LAKE PLEASANT WTP**		**Function: Lake Pleasant Plant**			**District: Citywide**	
Design and construct Lake Pleasant WTP. Estimated full-year ongoing operating costs: $11,200,000							
Design		2,000,000	-	-	-	-	2,000,000
Construction		211,100,000	-	-	-	-	211,100,000
Project Total		**$213,100,000**	**-**	**-**	**-**	**-**	**$213,100,000**
2004 CIC Water Bonds		213,100,000	-	-	-	-	213,100,000
Funding Total		**$213,100,000**	**-**	**-**	**-**	**-**	**$213,100,000**
WS85400001	**PRODUCTION REPLACEMENT FUND**		**Function: Production**			**District: Citywide**	
Miscellaneous improvements to water treatment plants and reservoirs. Excludes Val Vista WTP.							
Equipment or Other		2,700,000	2,400,000	2,600,000	3,000,000	3,000,000	13,700,000
Project Total		**$2,700,000**	**$2,400,000**	**$2,600,000**	**$3,000,000**	**$3,000,000**	**$13,700,000**
Water Revenues		2,700,000	2,400,000	2,600,000	3,000,000	3,000,000	13,700,000
Funding Total		**$2,700,000**	**$2,400,000**	**$2,600,000**	**$3,000,000**	**$3,000,000**	**$13,700,000**

Project No.	*Project Title*	*2004-05*	*2005-06*	*2006-07*	*2007-08*	*2008-09*	*Total*
WS85400007	**REMOTE FACILITIES - REPLACEMENT FUND**		**Function: Production**			**District: Citywide**	
Construct improvements to wells and booster stations.							
Equipment or Other		2,700,000	2,700,000	3,700,000	3,700,000	4,000,000	16,800,000
	Project Total	**$2,700,000**	**$2,700,000**	**$3,700,000**	**$3,700,000**	**$4,000,000**	**$16,800,000**
Water Revenues		1,200,000	1,200,000	3,700,000	3,700,000	2,000,000	11,800,000
2004 CIC Water Bonds		1,500,000	1,500,000	-	-	2,000,000	5,000,000
	Funding Total	**$2,700,000**	**$2,700,000**	**$3,700,000**	**$3,700,000**	**$4,000,000**	**$16,800,000**
WS85400011	**I&C INSPECTION AND TESTING SERVICES**		**Function: Production**			**District: Citywide**	
Instrumentation, control inspection and testing support for Distribution projects. Lump sum to be dispersed as projects are identified.							
Design		250,000	250,000	250,000	-	-	750,000
	Project Total	**$250,000**	**$250,000**	**$250,000**	**-**	**-**	**$750,000**
Water Revenues		-	250,000	250,000	-	-	500,000
2004 CIC Water Bonds		250,000	-	-	-	-	250,000
	Funding Total	**$250,000**	**$250,000**	**$250,000**	**-**	**-**	**$750,000**
WS85400012	**I&C INSPECTION FOR WATER TREATMENT PLANTS**		**Function: Production**			**District: Citywide**	
On Call inspection services for instrumentation and control projects at the 24th Street, Deer Valley, Cave Creek WRP and Union Hills treatment plants.							
Design		681,820	681,820	681,820	881,820	881,820	3,809,100
Construction		10,000	-	-	-	-	10,000
	Project Total	**$691,820**	**$681,820**	**$681,820**	**$881,820**	**$881,820**	**$3,819,100**
Water Revenues		-	681,820	681,820	881,820	881,820	3,127,280
2004 CIC Water Bonds		691,820	-	-	-	-	691,820
	Funding Total	**$691,820**	**$681,820**	**$681,820**	**$881,820**	**$881,820**	**$3,819,100**
WS85500185	**MASTER AS-BUILT DEVELOPMENT**		**Function: Production**			**District: Citywide**	
Develop an information access system for as-built drawings at Union Hills WTP and Cave Creek WRP.							
Construction		1,610,000	-	-	-	-	1,610,000
	Project Total	**$1,610,000**	**-**	**-**	**-**	**-**	**$1,610,000**
2004 CIC Water Bonds		1,610,000	-	-	-	-	1,610,000
	Funding Total	**$1,610,000**	**-**	**-**	**-**	**-**	**$1,610,000**
WS85700036	**WATER QUALITY MASTER PLAN**		**Function: Production**			**District: Citywide**	
Western Canal sampling and analysis.							
Design		200,000	-	-	-	-	200,000
Construction		50,000	-	-	-	-	50,000
	Project Total	**$250,000**	**-**	**-**	**-**	**-**	**$250,000**
2004 CIC Water Bonds		250,000	-	-	-	-	250,000
	Funding Total	**$250,000**	**-**	**-**	**-**	**-**	**$250,000**
WS85700047	**ON-CALL CONTROL SYSTEM PROGRAMMING**		**Function: Production**			**District: Citywide**	
On-call consultant services for control system programming as necessary.							
Study		200,000	200,000	200,000	200,000	200,000	1,000,000
	Project Total	**$200,000**	**$200,000**	**$200,000**	**$200,000**	**$200,000**	**$1,000,000**
Water Revenues		-	200,000	200,000	200,000	200,000	800,000
2004 CIC Water Bonds		200,000	-	-	-	-	200,000
	Funding Total	**$200,000**	**$200,000**	**$200,000**	**$200,000**	**$200,000**	**$1,000,000**

Project No.	*Project Title*	*2004-05*	*2005-06*	*2006-07*	*2007-08*	*2008-09*	*Total*
WS85700050	**PROCESS CONTROL OPTIMIZATION FOR DISTRIBUTION FACILITIES**		**Function: Production**			**District: Citywide**	
Process control optimization for all distribution facilities.							
Construction		-	750,000	-	750,000	-	1,500,000
Project Total		**-**	**$750,000**	**-**	**$750,000**	**-**	**$1,500,000**
Water Revenues		-	750,000	-	750,000	-	1,500,000
Funding Total		**-**	**$750,000**	**-**	**$750,000**	**-**	**$1,500,000**
WS85450006	**GLENROSA/MORTEN MAINTENANCE YARD**		**Function: Buildings**			**District: 5**	
Acuire land and construct new Maintenance Yard near 43rd Avenue and Camelback Road. Estimated full-year ongoing operating costs: $100,000							
Design		-	-	-	-	120,000	120,000
Construction		-	-	-	-	25,000	25,000
Project Total		**-**	**-**	**-**	**-**	**$145,000**	**$145,000**
Water Revenues		-	-	-	-	120,000	120,000
2004 CIC Water Bonds		-	-	-	-	25,000	25,000
Funding Total		**-**	**-**	**-**	**-**	**$145,000**	**$145,000**
WS85450007	**WATER STORES PAVEMENT REPLACEMENT**		**Function: Buildings**			**District: Citywide**	
Replace pavement at Water Stores.							
Construction		-	-	-	-	(25,000)	(25,000)
Project Total		**-**	**-**	**-**	**-**	**($25,000)**	**($25,000)**
2004 CIC Water Bonds		-	-	-	-	(25,000)	(25,000)
Funding Total		**-**	**-**	**-**	**-**	**($25,000)**	**($25,000)**
WS85450008	**MISC DISTRIBUTION YARD IMPROVEMENTS**		**Function: Buildings**			**District: Citywide**	
Miscellanous distribution yard improvements.							
Construction		50,000	50,000	50,000	50,000	50,000	250,000
Project Total		**$50,000**	**$50,000**	**$50,000**	**$50,000**	**$50,000**	**$250,000**
Water Revenues		50,000	50,000	50,000	50,000	50,000	250,000
Funding Total		**$50,000**	**$50,000**	**$50,000**	**$50,000**	**$50,000**	**$250,000**
WS85450010	**CORONA YARD CONSTRUCTION**		**Function: Buildings**			**District: 8**	
Construction new yard at Central and Corona. Estimated full-year ongoing operating costs: $85,000							
Design		-	-	-	400,000	-	400,000
Construction		-	-	-	-	3,500,000	3,500,000
Project Total		**-**	**-**	**-**	**$400,000**	**$3,500,000**	**$3,900,000**
2004 CIC Water Bonds		-	-	-	400,000	3,500,000	3,900,000
Funding Total		**-**	**-**	**-**	**$400,000**	**$3,500,000**	**$3,900,000**
WS85450014	**GAC REGIONAL REACTIVATION FACILITY**		**Function: Buildings**			**District: Citywide**	
Aquire land for a regional granulated activated carbon (GAC) reactivation facility.							
Land Acquisition		500,000	-	-	-	-	500,000
Construction		15,000	-	-	-	-	15,000
Project Total		**$515,000**	**-**	**-**	**-**	**-**	**$515,000**
Val Vista WTP Capital Improvements		200,850	-	-	-	-	200,850
2004 CIC Water Bonds		314,150	-	-	-	-	314,150
Funding Total		**$515,000**	**-**	**-**	**-**	**-**	**$515,000**

Water

Project No.	Project Title	2004-05	2005-06	2006-07	2007-08	2008-09	Total
WS85450015	**RELOCATE WSD STAFF FROM CITY HALL**		**Function: Buildings**			**District: Citywide**	
Relocate CRAO, Water Conservation and Construction Management from City Hall to another downtown location.							
Construction		600,000	-	-	-	-	600,000
Project Total		**$600,000**	-	-	-	-	**$600,000**
Water Revenues		600,000	-	-	-	-	600,000
Funding Total		**$600,000**	-	-	-	-	**$600,000**
WS85500030	**POTHOLE INVESTIGATIONS**		**Function: Water Mains**			**District: Citywide**	
Pothole investigations for street projects.							
Construction		25,000	25,000	25,000	25,000	25,000	125,000
Project Total		**$25,000**	**$25,000**	**$25,000**	**$25,000**	**$25,000**	**$125,000**
Water Revenues		25,000	25,000	25,000	25,000	25,000	125,000
Funding Total		**$25,000**	**$25,000**	**$25,000**	**$25,000**	**$25,000**	**$125,000**
WS85500045	**DISTRIBUTION MAINS - MISC**		**Function: Water Mains**			**District: Citywide**	
Miscellaneous projects to be determined in advance of paving or to meet emergency situations, and construction field inspection.							
Construction		1,250,000	1,250,000	1,500,000	1,500,000	1,500,000	7,000,000
Project Total		**$1,250,000**	**$1,250,000**	**$1,500,000**	**$1,500,000**	**$1,500,000**	**$7,000,000**
Water Revenues		-	-	1,500,000	1,500,000	1,500,000	4,500,000
2004 CIC Water Bonds		1,250,000	1,250,000	-	-	-	2,500,000
Funding Total		**$1,250,000**	**$1,250,000**	**$1,500,000**	**$1,500,000**	**$1,500,000**	**$7,000,000**
WS85500046	**NEW AND REPLACEMENT MAINS AND VALVES**		**Function: Water Mains**			**District: Citywide**	
Installation of new mains and valves and replacement of damaged mains and valves by City forces.							
Construction		1,250,000	1,250,000	1,500,000	1,500,000	1,500,000	7,000,000
Project Total		**$1,250,000**	**$1,250,000**	**$1,500,000**	**$1,500,000**	**$1,500,000**	**$7,000,000**
Water Revenues		-	-	1,500,000	1,500,000	1,500,000	4,500,000
2004 CIC Water Bonds		1,250,000	1,250,000	-	-	-	2,500,000
Funding Total		**$1,250,000**	**$1,250,000**	**$1,500,000**	**$1,500,000**	**$1,500,000**	**$7,000,000**
WS85500047	**NEW/REPLACE FIRE HYDRANTS**		**Function: Water Mains**			**District: Citywide**	
New fire hydrant installations, and replacements by distribution.							
Equipment or Other		600,000	700,000	700,000	700,000	700,000	3,400,000
Project Total		**$600,000**	**$700,000**	**$700,000**	**$700,000**	**$700,000**	**$3,400,000**
Water Revenues		-	700,000	700,000	700,000	700,000	2,800,000
2004 CIC Water Bonds		600,000	-	-	-	-	600,000
Funding Total		**$600,000**	**$700,000**	**$700,000**	**$700,000**	**$700,000**	**$3,400,000**
WS85500049	**WATER RELOCATIONS BY CONTRACTOR**		**Function: Water Mains**			**District: Citywide**	
Relocation of mains, meters, hydrants, and valves ahead of street improvements by contractor.							
Construction		700,000	800,000	800,000	800,000	800,000	3,900,000
Project Total		**$700,000**	**$800,000**	**$800,000**	**$800,000**	**$800,000**	**$3,900,000**
Water Revenues		-	800,000	800,000	800,000	-	2,400,000
2004 CIC Water Bonds		700,000	-	-	-	800,000	1,500,000
Funding Total		**$700,000**	**$800,000**	**$800,000**	**$800,000**	**$800,000**	**$3,900,000**

Project No.	*Project Title*	*2004-05*	*2005-06*	*2006-07*	*2007-08*	*2008-09*	*Total*
WS85500052	**NEW WATER SERVICE CONNECTIONS**		**Function: Water Mains**			**District: Citywide**	
Installation of new services and meters.							
Construction		1,000,000	1,100,000	1,100,000	1,100,000	1,300,000	5,600,000
	Project Total	**$1,000,000**	**$1,100,000**	**$1,100,000**	**$1,100,000**	**$1,300,000**	**$5,600,000**
Water Revenues		-	625,000	1,100,000	1,100,000	-	2,825,000
Water Development Occupational Fee		-	75,000	-	-	-	75,000
2004 CIC Water Bonds		1,000,000	400,000	-	-	1,300,000	2,700,000
	Funding Total	**$1,000,000**	**$1,100,000**	**$1,100,000**	**$1,100,000**	**$1,300,000**	**$5,600,000**
WS85500053	**CONSTRUCTION CONTINGENCY**		**Function: Water Mains**			**District: Citywide**	
Construction contingency.							
Construction		2,000,000	4,725,000	2,700,000	2,150,000	6,955,000	18,530,000
	Project Total	**$2,000,000**	**$4,725,000**	**$2,700,000**	**$2,150,000**	**$6,955,000**	**$18,530,000**
Water Revenues		460,000	1,575,000	1,800,000	2,000,000	3,780,000	9,615,000
Val Vista WTP Capital Improvements		400,000	200,000	200,000	50,000	300,000	1,150,000
2004 CIC Water Bonds		1,140,000	2,950,000	700,000	100,000	2,875,000	7,765,000
	Funding Total	**$2,000,000**	**$4,725,000**	**$2,700,000**	**$2,150,000**	**$6,955,000**	**$18,530,000**
WS85500055	**MAIN OVERSIZING PROGRAM**		**Function: Water Mains**			**District: Citywide**	
City participation with developers for water main oversizing and extensions.							
Construction		500,000	500,000	500,000	500,000	500,000	2,500,000
	Project Total	**$500,000**	**$500,000**	**$500,000**	**$500,000**	**$500,000**	**$2,500,000**
Water Revenues		-	-	500,000	-	-	500,000
2004 CIC Water Bonds		500,000	500,000	-	500,000	500,000	2,000,000
	Funding Total	**$500,000**	**$500,000**	**$500,000**	**$500,000**	**$500,000**	**$2,500,000**
WS85500058	**RELOCATE SERVICES, HYDRANTS & MAINS**		**Function: Water Mains**			**District: Citywide**	
Relocation of meters, hydrants, and mains ahead of street improvements by Water Distribution.							
Construction		950,000	1,000,000	1,000,000	1,000,000	1,000,000	4,950,000
	Project Total	**$950,000**	**$1,000,000**	**$1,000,000**	**$1,000,000**	**$1,000,000**	**$4,950,000**
Water Revenues		-	1,000,000	1,000,000	1,000,000	1,000,000	4,000,000
2004 CIC Water Bonds		950,000	-	-	-	-	950,000
	Funding Total	**$950,000**	**$1,000,000**	**$1,000,000**	**$1,000,000**	**$1,000,000**	**$4,950,000**
WS85500103	**PARADISE VALLEY WATER SYSTEM REHAB**		**Function: Water Mains**			**District: Citywide**	
Construct improvements to the Paradise Valley water system.							
Construction		1,000,000	500,000	5,250,000	-	-	6,750,000
	Project Total	**$1,000,000**	**$500,000**	**$5,250,000**	**-**	**-**	**$6,750,000**
2004 CIC Water Bonds		1,000,000	500,000	5,250,000	-	-	6,750,000
	Funding Total	**$1,000,000**	**$500,000**	**$5,250,000**	**-**	**-**	**$6,750,000**
WS85500104	**ENGINEERING**		**Function: Water Mains**			**District: Citywide**	
Estimated staff costs to complete active projects.							
Construction		-	5,000,000	5,000,000	5,000,000	5,000,000	20,000,000
	Project Total	**-**	**$5,000,000**	**$5,000,000**	**$5,000,000**	**$5,000,000**	**$20,000,000**
Water Revenues		-	5,000,000	5,000,000	5,000,000	5,000,000	20,000,000
	Funding Total	**-**	**$5,000,000**	**$5,000,000**	**$5,000,000**	**$5,000,000**	**$20,000,000**

Project No.	*Project Title*	*2004-05*	*2005-06*	*2006-07*	*2007-08*	*2008-09*	*Total*
WS85500125	**56TH ST-PINNACLE PEAK TO BEARDSLEY RD**		**Function: Water Mains**			**District: 2**	
Construct 11,000 feet of 36" main to a 10 MG reservoir at 56th Street and Pinnacle Peak Road.							
Design		-	-	-	500,000	-	500,000
Construction		-	-	-	-	4,000,000	4,000,000
	Project Total	-	-	-	**$500,000**	**$4,000,000**	**$4,500,000**
Water Development Occupational Fee		-	-	-	500,000	4,000,000	4,500,000
	Funding Total	-	-	-	**$500,000**	**$4,000,000**	**$4,500,000**
WS85500126	**MAINS- PRESSURE ZONE 4SE**		**Function: Water Mains**			**District: 6**	
Construct transmission mains in Pressure Zone 4SE.							
Design		-	-	-	-	100,000	100,000
	Project Total	-	-	-	-	**$100,000**	**$100,000**
Water Revenues		-	-	-	-	100,000	100,000
	Funding Total	-	-	-	-	**$100,000**	**$100,000**
WS85500135	**WATER MAIN REPLACEMENT PROGRAM**		**Function: Water Mains**			**District: Citywide**	
Construct improvements recommended in the Integrity Study.							
Construction		2,680,000	1,400,000	10,000,000	9,000,000	11,000,000	34,080,000
	Project Total	**$2,680,000**	**$1,400,000**	**$10,000,000**	**$9,000,000**	**$11,000,000**	**$34,080,000**
Water Revenues		-	-	-	-	7,360,000	7,360,000
2004 CIC Water Bonds		2,680,000	1,400,000	10,000,000	9,000,000	3,640,000	26,720,000
	Funding Total	**$2,680,000**	**$1,400,000**	**$10,000,000**	**$9,000,000**	**$11,000,000**	**$34,080,000**
WS85500147	**67TH AVE-BROADWAY RD TO BASELINE RD**		**Function: Water Mains**			**District: 7**	
Construct 2 miles of 54" main on 67th Avenue from Baseline to Broadway.							
Construction		120,000	-	-	-	-	120,000
	Project Total	**$120,000**	-	-	-	-	**$120,000**
2004 CIC Water Bonds		120,000	-	-	-	-	120,000
	Funding Total	**$120,000**	-	-	-	-	**$120,000**
WS85500156	**LAKE PLEASANT WTP-27AVE/CAREFREE HWY**		**Function: Water Mains**			**District: 1 & 2**	
Construct Lake Pleasant WTP finished water line to 27th Avenue and the Carefree Highway.							
Land Acquisition		2,000,000	-	-	-	-	2,000,000
Design		2,900,000	-	-	-	-	2,900,000
Construction		28,100,000	2,500,000	-	19,000,000	-	49,600,000
	Project Total	**$33,000,000**	**$2,500,000**	-	**$19,000,000**	-	**$54,500,000**
Water Revenues		18,500,000	-	-	-	-	18,500,000
Water Development Occupational Fee		10,675,000	-	-	-	-	10,675,000
Impact Fee - Deer Valley, Water		700,000	-	-	-	-	700,000
2004 CIC Water Bonds		3,125,000	2,500,000	-	19,000,000	-	24,625,000
	Funding Total	**$33,000,000**	**$2,500,000**	-	**$19,000,000**	-	**$54,500,000**

Water

Project No.	*Project Title*	*2004-05*	*2005-06*	*2006-07*	*2007-08*	*2008-09*	*Total*
WS85500182	**ADOT PROJECT INSPECTION**		**Function: Water Mains**			**District: Citywide**	
Pipe inspection for ADOT projects.							
Design		100,000	100,000	100,000	100,000	100,000	500,000
	Project Total	**$100,000**	**$100,000**	**$100,000**	**$100,000**	**$100,000**	**$500,000**
Water Revenues		100,000	100,000	-	100,000	-	300,000
2004 CIC Water Bonds		-	-	100,000	-	100,000	200,000
	Funding Total	**$100,000**	**$100,000**	**$100,000**	**$100,000**	**$100,000**	**$500,000**
WS85500186	**ANTHEM WATER TRANSMISSION MAIN**		**Function: Water Mains**			**District: 2**	
Construct 4.5 miles of 36" Main for Anthem Service - 35th Avenue/Carefree Hwy to I-17/Union Hills.							
Design		250,000	-	-	-	-	250,000
Construction		550,000	-	-	-	-	550,000
	Project Total	**$800,000**	**-**	**-**	**-**	**-**	**$800,000**
2004 CIC Water Bonds		800,000	-	-	-	-	800,000
	Funding Total	**$800,000**	**-**	**-**	**-**	**-**	**$800,000**
WS85500189	**BASELINE RD. - 24TH ST TO 36TH ST**		**Function: Water Mains**			**District: 8**	
Construct 1.5 miles of 16" main ahead of paving on Baseline Road from 24th Street to 36th Street.							
Construction		50,000	-	-	-	-	50,000
	Project Total	**$50,000**	**-**	**-**	**-**	**-**	**$50,000**
2004 CIC Water Bonds		50,000	-	-	-	-	50,000
	Funding Total	**$50,000**	**-**	**-**	**-**	**-**	**$50,000**
WS85500208	**BASELINE RD - 7TH ST TO 24TH ST**		**Function: Water Mains**			**District: 8**	
Construct 2 miles of 16" main ahead of paving on Baseline Road from 7th Street to 24th Street.							
Construction		50,000	-	-	-	-	50,000
	Project Total	**$50,000**	**-**	**-**	**-**	**-**	**$50,000**
2004 CIC Water Bonds		50,000	-	-	-	-	50,000
	Funding Total	**$50,000**	**-**	**-**	**-**	**-**	**$50,000**
WS85500210	**WATER RELOCATIONS FOR LIGHT RAIL**		**Function: Water Mains**			**District: Citywide**	
Water relocation for light rail system.							
Construction		11,000,000	15,000,000	14,500,000	-	3,000,000	43,500,000
	Project Total	**$11,000,000**	**$15,000,000**	**$14,500,000**	**-**	**$3,000,000**	**$43,500,000**
2004 CIC Water Bonds		11,000,000	15,000,000	14,500,000	-	3,000,000	43,500,000
	Funding Total	**$11,000,000**	**$15,000,000**	**$14,500,000**	**-**	**$3,000,000**	**$43,500,000**
WS85500215	**27TH AVE, CAMPBELL AVE, 31ST AVE, INDIAN SCH RD**		**Function: Water Mains**			**District: 5**	
Construct 24,000 feet of 6-inch, and 2,700 feet of 12-inch and relocate services.							
Construction		100,000	-	-	-	-	100,000
	Project Total	**$100,000**	**-**	**-**	**-**	**-**	**$100,000**
2004 CIC Water Bonds		100,000	-	-	-	-	100,000
	Funding Total	**$100,000**	**-**	**-**	**-**	**-**	**$100,000**

Water

Project No.	Project Title	2004-05	2005-06	2006-07	2007-08	2008-09	Total
WS85500216	**35TH AVE, ROOSEVELT ST, 39TH AVE, VAN BUREN ST**	**Function: Water Mains**				**District: 7**	
Construct 17,700 feet of 6" and 5,000 feet of 12" main and relocate services.							
Construction		100,000	-	-	-	-	100,000
Project Total		**$100,000**	-	-	-	-	**$100,000**
2004 CIC Water Bonds		100,000	-	-	-	-	100,000
Funding Total		**$100,000**	-	-	-	-	**$100,000**
WS85500219	**7TH ST/12TH ST TO MCDOWELL/ENCANTO**	**Function: Water Mains**				**District: 8**	
Construct 8,900 feet of 6" main from 7th Street to 12th Street/McDowell to Encanto.							
Construction		50,000	-	-	-	-	50,000
Project Total		**$50,000**	-	-	-	-	**$50,000**
2004 CIC Water Bonds		50,000	-	-	-	-	50,000
Funding Total		**$50,000**	-	-	-	-	**$50,000**
WS85500220	**12TH ST/16TH ST TO MCDOWELL/ENCANTO**	**Function: Water Mains**				**District: 8**	
Construct 9,000 feet of 6" main from 12th Street to 16th Street/McDowell to Encanto.							
Construction		50,000	-	-	-	-	50,000
Project Total		**$50,000**	-	-	-	-	**$50,000**
2004 CIC Water Bonds		50,000	-	-	-	-	50,000
Funding Total		**$50,000**	-	-	-	-	**$50,000**
WS85500223	**HAPPY VALLEY RD FROM 35TH AVE TO I-17**	**Function: Water Mains**				**District: 1**	
Construct one mile of 24" water main on Happy Valley Road from 35th Avenue to I-17.							
Construction		50,000	-	-	-	-	50,000
Project Total		**$50,000**	-	-	-	-	**$50,000**
Water Development Occupational Fee		50,000	-	-	-	-	50,000
Funding Total		**$50,000**	-	-	-	-	**$50,000**
WS85500225	**TATUM BLVD-HAPPY VALLEY RD ALIGNMENT TO DYNAMITE RD**	**Function: Water Mains**				**District: 2**	
Construct 10,150 feet of 36" main on Tatum Boulevard from Happy Valley Road alignment to Dynamite Road.							
Construction		50,000	-	-	-	-	50,000
Project Total		**$50,000**	-	-	-	-	**$50,000**
2004 CIC Water Bonds		50,000	-	-	-	-	50,000
Funding Total		**$50,000**	-	-	-	-	**$50,000**
WS85500226	**PRV STATION - ZONE 7**	**Function: Water Mains**				**District: 2**	
25 MGD PRV Station for Zone 7 at Tatum Boulevard and Jomax Road.							
Land Acquisition		200,000	-	-	-	-	200,000
Construction		-	-	-	-	1,700,000	1,700,000
Project Total		**$200,000**	-	-	-	**$1,700,000**	**$1,900,000**
2004 CIC Water Bonds		200,000	-	-	-	1,700,000	1,900,000
Funding Total		**$200,000**	-	-	-	**$1,700,000**	**$1,900,000**

Project No.	*Project Title*	*2004-05*	*2005-06*	*2006-07*	*2007-08*	*2008-09*	*Total*
WS85500229	**PLUMBING CONTRACT**		**Function: Water Mains**			**District: Citywide**	

Private plumbing connections for alley service relocations.

Construction	1,700,000	1,000,000	1,000,000	1,000,000	1,000,000	5,700,000
Project Total	**$1,700,000**	**$1,000,000**	**$1,000,000**	**$1,000,000**	**$1,000,000**	**$5,700,000**
Water Revenues	1,700,000	1,000,000	1,000,000	1,000,000	1,000,000	5,700,000
Funding Total	**$1,700,000**	**$1,000,000**	**$1,000,000**	**$1,000,000**	**$1,000,000**	**$5,700,000**

WS85500233 24TH STREET WTP TO 36TH STREET **Function: Water Mains** **District: 3**

Construct 7200 feet of 24" transmission main from 24th Street WTP to Lincoln Drive and 36th Street.

Design	-	100,000	-	-	-	100,000
Construction	-	-	1,700,000	-	-	1,700,000
Project Total	**-**	**$100,000**	**$1,700,000**	**-**	**-**	**$1,800,000**
2004 CIC Water Bonds	-	100,000	1,700,000	-	-	1,800,000
Funding Total	**-**	**$100,000**	**$1,700,000**	**-**	**-**	**$1,800,000**

WS85500239 CENTRAL - 19TH AVE/ MCDOWELL - THOMAS MAIN CONSTRUCTION **Function: Water Mains** **District: 4 & 8**

Construct 16,300 feet of 6" main, 100 feet of 8" main, and 8,450 feet of 12" main in the area bordered by Central Avenue, McDowell, 19th Avenue and Thomas Road.

Construction	2,300,000	-	-	-	-	2,300,000
Project Total	**$2,300,000**	**-**	**-**	**-**	**-**	**$2,300,000**
2004 CIC Water Bonds	2,300,000	-	-	-	-	2,300,000
Funding Total	**$2,300,000**	**-**	**-**	**-**	**-**	**$2,300,000**

WS85500240 ROOSEVELT ST - MCDOWELL/ 12TH - 36TH ST MAIN CONSTRUCTION **Function: Water Mains** **District: 8**

Construct 24,650 feet of 6" main, 8,000 feet of 8" main, and 500 feet of 12" main in the area bordered by Roosevelt Street, 12th Street, McDowell Road and 36th Street.

Construction	2,850,000	-	-	-	-	2,850,000
Project Total	**$2,850,000**	**-**	**-**	**-**	**-**	**$2,850,000**
2004 CIC Water Bonds	2,850,000	-	-	-	-	2,850,000
Funding Total	**$2,850,000**	**-**	**-**	**-**	**-**	**$2,850,000**

WS85500241 15TH - 19TH AVE/ OSBORN - INDIAN SCHOOL MAIN CONSTRUCTION **Function: Water Mains** **District: 4**

Construct 4,600 feet of 6" main and 3,200 feet of 12" main in the area bordered by 15th Avenue, Indian School Road., 19th Avenue and Osborn.

Construction	720,000	-	-	-	-	720,000
Project Total	**$720,000**	**-**	**-**	**-**	**-**	**$720,000**
2004 CIC Water Bonds	720,000	-	-	-	-	720,000
Funding Total	**$720,000**	**-**	**-**	**-**	**-**	**$720,000**

WS85500242 7TH - 15TH AVE/ OSBORN - INDIAN SCHOOL MAIN CONSTRUCTION **Function: Water Mains** **District: 4**

Construct 13,600 feet of 6" main, 2,800 feet of 8" main, and 2,900 feet of 12" main in the area bordered by 7th Avenue, Indian School Road, 15th Avenue and Osborn.

Construction	1,575,000	-	-	-	-	1,575,000
Project Total	**$1,575,000**	**-**	**-**	**-**	**-**	**$1,575,000**
2004 CIC Water Bonds	1,575,000	-	-	-	-	1,575,000
Funding Total	**$1,575,000**	**-**	**-**	**-**	**-**	**$1,575,000**

City of Phoenix, Arizona
2004-2009 Capital Improvement Program
Water

Project No.	Project Title	2004-05	2005-06	2006-07	2007-08	2008-09	Total
WS85500244	**LAKE PLEASANT 78" CONNECTION**		**Function: Water Mains**			**District: 2**	
Lake Pleasant 78" tie-in to the existing I-17 54" main at Dove Valley allignment and 27th Avenue.							
Design		50,000	-	-	-	-	50,000
Construction		510,000	-	-	-	-	510,000
	Project Total	**$560,000**	**-**	**-**	**-**	**-**	**$560,000**
2004 CIC Water Bonds		560,000	-	-	-	-	560,000
	Funding Total	**$560,000**	**-**	**-**	**-**	**-**	**$560,000**
WS85500248	**INSTALL NEW HYDRANTS BY CONTRACTOR**		**Function: Water Mains**			**District: Citywide**	
Install new hydrants by contractor.							
Construction		-	425,000	1,000,000	1,000,000	1,000,000	3,425,000
	Project Total	**-**	**$425,000**	**$1,000,000**	**$1,000,000**	**$1,000,000**	**$3,425,000**
Water Revenues		-	-	1,000,000	1,000,000	-	2,000,000
2004 CIC Water Bonds		-	425,000	-	-	1,000,000	1,425,000
	Funding Total	**-**	**$425,000**	**$1,000,000**	**$1,000,000**	**$1,000,000**	**$3,425,000**
WS85500249	**ON CALL SERVICES FOR UTILITY RELOCATION PROJECTS**		**Function: Water Mains**			**District: Citywide**	
Inspection Services for water main relocation projects.							
Construction		25,000	-	-	-	-	25,000
	Project Total	**$25,000**	**-**	**-**	**-**	**-**	**$25,000**
Water Revenues		25,000	-	-	-	-	25,000
	Funding Total	**$25,000**	**-**	**-**	**-**	**-**	**$25,000**
WS85500253	**SOUTH PHOENIX VILLAGE WATER LINE**		**Function: Water Mains**			**District: Citywide**	
Construct a waterline 24th Street to 28th Street / Broadway Road to Roger Road.							
Design		545,000	-	-	-	-	545,000
Construction		-	1,600,000	100,000	-	-	1,700,000
	Project Total	**$545,000**	**$1,600,000**	**$100,000**	**-**	**-**	**$2,245,000**
2004 CIC Water Bonds		545,000	1,600,000	100,000	-	-	2,245,000
	Funding Total	**$545,000**	**$1,600,000**	**$100,000**	**-**	**-**	**$2,245,000**
WS85500254	**PARADISE VALLEY MTN VIEW RD/56TH ST TO INVERGORDON RD**		**Function: Water Mains**			**District: Citywide**	
Two miles of 16" main on Mountain View Road from 56th Street to Invergordon Road and Invergordon Road from Mountain View to Mockingbird Lane.							
Design		100,000	-	-	-	-	100,000
Construction		1,700,000	-	-	-	-	1,700,000
	Project Total	**$1,800,000**	**-**	**-**	**-**	**-**	**$1,800,000**
2004 CIC Water Bonds		1,800,000	-	-	-	-	1,800,000
	Funding Total	**$1,800,000**	**-**	**-**	**-**	**-**	**$1,800,000**
WS85500256	**INSTALL HYDRANTS: 51ST TO 59TH AVE/INDIAN SCHOOL TO CAMELBACK**		**Function: Water Mains**			**District: 5**	
Install 58 new hydrants in the area bounded by 51st Avenue, Camelback, 59th Avenue, and Indian School Road.							
Construction		400,000	-	-	-	-	400,000
	Project Total	**$400,000**	**-**	**-**	**-**	**-**	**$400,000**
2004 CIC Water Bonds		400,000	-	-	-	-	400,000
	Funding Total	**$400,000**	**-**	**-**	**-**	**-**	**$400,000**

Water

Project No.	Project Title	2004-05	2005-06	2006-07	2007-08	2008-09	Total
WS85500257	**INSTALL HYDRANTS: 35TH TO 47TH AVE/CACUS TO CHOLLA**	**Function: Water Mains**				**District: 1**	
Install 56 new hydrants in the area bounded by 35th Avenue, Cactus, 47th Avenue, and Cholla.							
Construction		400,000	-	-	-	-	400,000
Project Total		**$400,000**	**-**	**-**	**-**	**-**	**$400,000**
2004 CIC Water Bonds		400,000	-	-	-	-	400,000
Funding Total		**$400,000**	**-**	**-**	**-**	**-**	**$400,000**
WS85500259	**ANNUAL EMERGENCY REPAIR CONTRACT**	**Function: Water Mains**				**District: Citywide**	
Water Emergency Repair Contract.							
Construction		825,000	825,000	825,000	825,000	825,000	4,125,000
Project Total		**$825,000**	**$825,000**	**$825,000**	**$825,000**	**$825,000**	**$4,125,000**
Water Revenues		825,000	825,000	825,000	825,000	825,000	4,125,000
Funding Total		**$825,000**	**$825,000**	**$825,000**	**$825,000**	**$825,000**	**$4,125,000**
WS85500260	**ANNUAL HYDRANT REPLACEMENT CONTRACT**	**Function: Water Mains**				**District: Citywide**	
Replace 300 hydrants by contractor.							
Construction		525,000	525,000	525,000	525,000	525,000	2,625,000
Project Total		**$525,000**	**$525,000**	**$525,000**	**$525,000**	**$525,000**	**$2,625,000**
Water Revenues		525,000	525,000	525,000	525,000	525,000	2,625,000
Funding Total		**$525,000**	**$525,000**	**$525,000**	**$525,000**	**$525,000**	**$2,625,000**
WS85500261	**ANNUAL LARGE VALVE REPAIR CONTRACT**	**Function: Water Mains**				**District: Citywide**	
Large Valve repair contract.							
Construction		925,000	950,000	950,000	1,000,000	1,000,000	4,825,000
Project Total		**$925,000**	**$950,000**	**$950,000**	**$1,000,000**	**$1,000,000**	**$4,825,000**
Water Revenues		925,000	950,000	950,000	1,000,000	1,000,000	4,825,000
Funding Total		**$925,000**	**$950,000**	**$950,000**	**$1,000,000**	**$1,000,000**	**$4,825,000**
WS85500262	**ELECTRONIC LEAK DETECTION**	**Function: Water Mains**				**District: Citywide**	
Purchase of electronic leak detection equipment for the Distribution Division.							
Construction		250,000	500,000	500,000	500,000	500,000	2,250,000
Project Total		**$250,000**	**$500,000**	**$500,000**	**$500,000**	**$500,000**	**$2,250,000**
Water Revenues		250,000	500,000	500,000	500,000	500,000	2,250,000
Funding Total		**$250,000**	**$500,000**	**$500,000**	**$500,000**	**$500,000**	**$2,250,000**
WS85500263	**51ST AVE TO DEEMS HILL RESERVOIR**	**Function: Water Mains**				**District: 1**	
Construct 9 miles of 42" transmission main on 51st Avenue from the Carefree Hwy to the Deems Hill Reservoir.							
Construction		-	-	-	-	8,000,000	8,000,000
Project Total		**-**	**-**	**-**	**-**	**$8,000,000**	**$8,000,000**
2004 CIC Water Bonds		-	-	-	-	8,000,000	8,000,000
Funding Total		**-**	**-**	**-**	**-**	**$8,000,000**	**$8,000,000**

Project No.	*Project Title*	*2004-05*	*2005-06*	*2006-07*	*2007-08*	*2008-09*	*Total*
WS85500264	**LARGE TRANSMISSION MAIN REHABILITATION**		**Function: Water Mains**			**District: Citywide**	
Rehabilitation of large diameter water mains.							
Construction		-	-	3,000,000	3,000,000	3,000,000	9,000,000
	Project Total	**-**	**-**	**$3,000,000**	**$3,000,000**	**$3,000,000**	**$9,000,000**
2004 CIC Water Bonds		-	-	3,000,000	3,000,000	3,000,000	9,000,000
	Funding Total	**-**	**-**	**$3,000,000**	**$3,000,000**	**$3,000,000**	**$9,000,000**
WS85500265	**CITY WIDE MAINS**		**Function: Water Mains**			**District: Citywide**	
Rehabilitation of Citywide mains.							
Construction		-	-	-	-	2,000,000	2,000,000
	Project Total	**-**	**-**	**-**	**-**	**$2,000,000**	**$2,000,000**
2004 CIC Water Bonds		-	-	-	-	2,000,000	2,000,000
	Funding Total	**-**	**-**	**-**	**-**	**$2,000,000**	**$2,000,000**
WS85500266	**19TH - 27TH AVE/MISSOURI - CAMPBELL**		**Function: Water Mains**			**District: 4**	
Construction of 20,000 feet of 8" and 6" mains from 19th to 27th Avenue and Missouri to Campbell.							
Construction		100,000	1,600,000	-	-	-	1,700,000
	Project Total	**$100,000**	**$1,600,000**	**-**	**-**	**-**	**$1,700,000**
2004 CIC Water Bonds		100,000	1,600,000	-	-	-	1,700,000
	Funding Total	**$100,000**	**$1,600,000**	**-**	**-**	**-**	**$1,700,000**
WS85500267	**31ST - 35TH AVE/ROOSEVELT - VAN BUREN**		**Function: Water Mains**			**District: 4**	
Construction of 12,400 feet of 8" and 6" mains from 31st to 35th Avenue and Roosevelt to Van Buren.							
Construction		100,000	1,000,000	-	-	-	1,100,000
	Project Total	**$100,000**	**$1,000,000**	**-**	**-**	**-**	**$1,100,000**
2004 CIC Water Bonds		100,000	1,000,000	-	-	-	1,100,000
	Funding Total	**$100,000**	**$1,000,000**	**-**	**-**	**-**	**$1,100,000**
WS85500268	**27TH - 31ST AVE/ROOSEVELT - VAN BUREN**		**Function: Water Mains**			**District: 4**	
Construction of 12,200 feet of 12", 8" and 6" mains from 27th to 31st Avenue and Roosevelt to Van Buren.							
Construction		100,000	1,000,000	-	-	-	1,100,000
	Project Total	**$100,000**	**$1,000,000**	**-**	**-**	**-**	**$1,100,000**
2004 CIC Water Bonds		100,000	1,000,000	-	-	-	1,100,000
	Funding Total	**$100,000**	**$1,000,000**	**-**	**-**	**-**	**$1,100,000**
WS85500269	**7TH - 12TH & 16TH - 20TH ST/CAMELBACK - CAMPBELL**		**Function: Water Mains**			**District: 4 & 6**	
Construction of 21,600 feet of 12", 8" and 6" mains from 7th to 12th and 16th to 20th Streets and Camelback to Campbell.							
Construction		75,000	2,000,000	-	-	-	2,075,000
	Project Total	**$75,000**	**$2,000,000**	**-**	**-**	**-**	**$2,075,000**
2004 CIC Water Bonds		75,000	2,000,000	-	-	-	2,075,000
	Funding Total	**$75,000**	**$2,000,000**	**-**	**-**	**-**	**$2,075,000**

Project No.	*Project Title*	*2004-05*	*2005-06*	*2006-07*	*2007-08*	*2008-09*	*Total*
WS85500270	**7TH - 15TH AVE/ROOSEVELT - MCDOWELL**		**Function: Water Mains**			**District: 7**	

Construction of 23,700 feet of 8" and 6" mains from 7th to 15th Avenue and Roosevelt to McDowell.

Construction	75,000	2,000,000	-	-	-	2,075,000
Project Total	**$75,000**	**$2,000,000**	**-**	**-**	**-**	**$2,075,000**
2004 CIC Water Bonds	75,000	2,000,000	-	-	-	2,075,000
Funding Total	**$75,000**	**$2,000,000**	**-**	**-**	**-**	**$2,075,000**

WS85500272	**HYDRANTS: 71ST - 87TH AVE, THOMAS - CAMPBELL**		**Function: Water Mains**			**District: 5 & 7**

Install approximately 49 new fire hydrants in the area bounded by Thomas Road to Campbell Avenue from 87th to 71st Avenue.

Design	60,000	-	-	-	-	60,000
Construction	-	175,000	-	-	-	175,000
Project Total	**$60,000**	**$175,000**	**-**	**-**	**-**	**$235,000**
Water Revenues	60,000	-	-	-	-	60,000
2004 CIC Water Bonds	-	175,000	-	-	-	175,000
Funding Total	**$60,000**	**$175,000**	**-**	**-**	**-**	**$235,000**

WS85500273	**HYDRANTS: 19TH - 39TH AVE, BETHANY HOME - GLENDALE**		**Function: Water Mains**			**District: 5**

Install approximately 59 fire hydrants in the area bounded by Bethany Home Road to Glendale Avenue and 39th to 19th Avenue.

Design	75,000	-	-	-	-	75,000
Construction	-	225,000	-	-	-	225,000
Project Total	**$75,000**	**$225,000**	**-**	**-**	**-**	**$300,000**
Water Revenues	75,000	-	-	-	-	75,000
2004 CIC Water Bonds	-	225,000	-	-	-	225,000
Funding Total	**$75,000**	**$225,000**	**-**	**-**	**-**	**$300,000**

WS85500274	**HYDRANTS: 35TH - 59TH AVE, THOMAS - MISSOURI**		**Function: Water Mains**			**District: 4, 5 & 7**

Install approximately 49 fire hydrants in the area bounded by Thomas Road to Missouri Avenue and 59th to 35th Avenue.

Design	60,000	-	-	-	-	60,000
Construction	-	175,000	-	-	-	175,000
Project Total	**$60,000**	**$175,000**	**-**	**-**	**-**	**$235,000**
Water Revenues	60,000	-	-	-	-	60,000
2004 CIC Water Bonds	-	175,000	-	-	-	175,000
Funding Total	**$60,000**	**$175,000**	**-**	**-**	**-**	**$235,000**

WS85500275	**HYDRANTS: 39TH - 51ST AVE, CHOLLA - PARADISE LN**		**Function: Water Mains**			**District: 6**

Install approximately 63 fire hydrants in the area bounded by Cholla to Paradise Lane and 51st to 39th Avenue.

Design	65,000	-	-	-	-	65,000
Construction	235,000	-	-	-	-	235,000
Project Total	**$300,000**	**-**	**-**	**-**	**-**	**$300,000**
Water Revenues	300,000	-	-	-	-	300,000
Funding Total	**$300,000**	**-**	**-**	**-**	**-**	**$300,000**

Project No.	*Project Title*	*2004-05*	*2005-06*	*2006-07*	*2007-08*	*2008-09*	*Total*
WS85500276	**HYDRANTS: 39TH - 51ST AVE, SWEETWATER - PARADISE LN**	**Function: Water Mains**				**District: 1**	
Install approximately 67 fire hydrants in the area bounded by Sweetwater to Paradise Land and 51st to 39th Avenue.							
Design		70,000	-	-	-	-	70,000
Construction		250,000	-	-	-	-	250,000
	Project Total	**$320,000**	**-**	**-**	**-**	**-**	**$320,000**
Water Revenues		320,000	-	-	-	-	320,000
	Funding Total	**$320,000**	**-**	**-**	**-**	**-**	**$320,000**
WS85500277	**HYDRANTS: 63RD - 75TH AVE, MCDOWELL - CAMPBELL**	**Function: Water Mains**				**District: 5 & 7**	
Install approximately 60 fire hydrants in the area bounded by McDowell Road to Campbell Avenue and 75th to 63rd Avenue.							
Design		60,000	-	-	-	-	60,000
Construction		225,000	-	-	-	-	225,000
	Project Total	**$285,000**	**-**	**-**	**-**	**-**	**$285,000**
2004 CIC Water Bonds		285,000	-	-	-	-	285,000
	Funding Total	**$285,000**	**-**	**-**	**-**	**-**	**$285,000**
WS85500278	**HYDRANTS: 19TH - 31ST AVE, CACTUS - PARADISE LN**	**Function: Water Mains**				**District: 1 & 3**	
Install approximately 51 fire hydrants in the area bounded by Cactus to Paradise Lane and 31st to 19th Avenue.							
Design		65,000	-	-	-	-	65,000
Construction		-	180,000	-	-	-	180,000
	Project Total	**$65,000**	**$180,000**	**-**	**-**	**-**	**$245,000**
Water Revenues		65,000	-	-	-	-	65,000
2004 CIC Water Bonds		-	180,000	-	-	-	180,000
	Funding Total	**$65,000**	**$180,000**	**-**	**-**	**-**	**$245,000**
WS85500279	**INSTALL HYDRANTS**	**Function: Water Mains**				**District: Citywide**	
Install 11 new fire hydrants in the Town of Paradise Valley.							
Construction		80,000	-	-	-	-	80,000
	Project Total	**$80,000**	**-**	**-**	**-**	**-**	**$80,000**
2004 CIC Water Bonds		80,000	-	-	-	-	80,000
	Funding Total	**$80,000**	**-**	**-**	**-**	**-**	**$80,000**
WS85500280	**ON CALL INSPECTION SERVICES**	**Function: Water Mains**				**District: Citywide**	
Inspection services for water facilities constructed by developers.							
Design		25,000	-	-	-	-	25,000
	Project Total	**$25,000**	**-**	**-**	**-**	**-**	**$25,000**
Water Revenues		25,000	-	-	-	-	25,000
	Funding Total	**$25,000**	**-**	**-**	**-**	**-**	**$25,000**
WS85550011	**PARTICIPATION - RECLAIMED WATER FACILITIES**	**Function: Reclamation Facilities**				**District: Citywide**	
Participation with developers for reclaimed water facilities.							
Construction		300,000	300,000	300,000	300,000	500,000	1,700,000
	Project Total	**$300,000**	**$300,000**	**$300,000**	**$300,000**	**$500,000**	**$1,700,000**
Water Development Occupational Fee		300,000	300,000	300,000	-	500,000	1,400,000
2004 CIC Water Bonds		-	-	-	300,000	-	300,000
	Funding Total	**$300,000**	**$300,000**	**$300,000**	**$300,000**	**$500,000**	**$1,700,000**

Water

Project No.	*Project Title*	*2004-05*	*2005-06*	*2006-07*	*2007-08*	*2008-09*	*Total*
WS85550012	**RECLAIMED WATER SERVICE CONNECTIONS**		**Function: Reclamation Facilities**			**District: 2**	
Construct service connections for the Cave Creek and Reach 11 reclaimed water mains.							
Design		95,000	-	-	-	-	95,000
	Project Total	**$95,000**	**-**	**-**	**-**	**-**	**$95,000**
2004 CIC Water Bonds		95,000	-	-	-	-	95,000
	Funding Total	**$95,000**	**-**	**-**	**-**	**-**	**$95,000**
WS85650001	**WATER SERVICE REPLACEMENTS**		**Function: Service Replacements**			**District: Citywide**	
Water service replacement projects.							
Construction		1,000,000	1,200,000	-	1,300,000	1,300,000	4,800,000
	Project Total	**$1,000,000**	**$1,200,000**	**-**	**$1,300,000**	**$1,300,000**	**$4,800,000**
Water Revenues		1,000,000	1,200,000	-	1,300,000	1,300,000	4,800,000
	Funding Total	**$1,000,000**	**$1,200,000**	**-**	**$1,300,000**	**$1,300,000**	**$4,800,000**
WS85650025	**RESERVOIR YARD REPLACE SERVICES**		**Function: Service Replacements**			**District: 5 & 7**	
Annual service contract to assist WSD Distribution crews in replacing leaking services in this quadrant of the City.							
Construction		50,000	-	-	-	-	50,000
	Project Total	**$50,000**	**-**	**-**	**-**	**-**	**$50,000**
Water Revenues		50,000	-	-	-	-	50,000
	Funding Total	**$50,000**	**-**	**-**	**-**	**-**	**$50,000**
WS85650026	**DEER VALLEY YARD REPLACE SERVICES**		**Function: Service Replacements**			**District: 1 & 5**	
Annual service contract to assist WSD Distribution crews in replacing leaking services in this quadrant of the City.							
Construction		50,000	-	-	-	-	50,000
	Project Total	**$50,000**	**-**	**-**	**-**	**-**	**$50,000**
Water Revenues		50,000	-	-	-	-	50,000
	Funding Total	**$50,000**	**-**	**-**	**-**	**-**	**$50,000**
WS85650027	**MORTEN YARD REPLACE SERVICES**		**Function: Service Replacements**			**District: 6 & 8**	
Annual service contract to assist WSD Distribution crews in replacing leaking services in this quadrant of the City.							
Construction		50,000	-	-	-	-	50,000
	Project Total	**$50,000**	**-**	**-**	**-**	**-**	**$50,000**
Water Revenues		50,000	-	-	-	-	50,000
	Funding Total	**$50,000**	**-**	**-**	**-**	**-**	**$50,000**
WS85650028	**CAVE CREEK YARD REPLACE SERVICES**		**Function: Service Replacements**			**District: 2 & 3**	
Annual service contract to assist WSD Distribution crews in replacing leaking services in this quadrant of the City.							
Construction		50,000	-	-	-	-	50,000
	Project Total	**$50,000**	**-**	**-**	**-**	**-**	**$50,000**
Water Revenues		50,000	-	-	-	-	50,000
	Funding Total	**$50,000**	**-**	**-**	**-**	**-**	**$50,000**

Project No.	*Project Title*	*2004-05*	*2005-06*	*2006-07*	*2007-08*	*2008-09*	*Total*
WS85660001	**WCIS REPLACEMENT STUDY**		**Function: Automation**			**District: Citywide**	
WCIS Replacement Study-Customer Services Division.							
Equipment or Other		1,860,000	1,000,000	3,000,000	-	-	5,860,000
Project Total		**$1,860,000**	**$1,000,000**	**$3,000,000**	-	-	**$5,860,000**
2004 CIC Water Bonds		1,860,000	1,000,000	3,000,000	-	-	5,860,000
Funding Total		**$1,860,000**	**$1,000,000**	**$3,000,000**	-	-	**$5,860,000**
WS85660003	**WCIS UPGRADE**		**Function: Automation**			**District: Citywide**	
Upgrade the WCIS billing system.							
Equipment or Other		540,000	-	-	-	-	540,000
Project Total		**$540,000**	-	-	-	-	**$540,000**
Water Revenues		540,000	-	-	-	-	540,000
Funding Total		**$540,000**	-	-	-	-	**$540,000**
WS85660004	**MOBILE APPLICATIONS PROGRAM SOLUTION SYSTEM**		**Function: Automation**			**District: Citywide**	
Mobile Applications Program Solution (MAPS) to enable crews to access and interrogate map information, infrastructure descriptions and work orders.							
Equipment or Other		690,000	500,000	1,500,000	1,500,000	-	4,190,000
Project Total		**$690,000**	**$500,000**	**$1,500,000**	**$1,500,000**	-	**$4,190,000**
Water Revenues		-	500,000	-	-	-	500,000
2004 CIC Water Bonds		690,000	-	1,500,000	1,500,000	-	3,690,000
Funding Total		**$690,000**	**$500,000**	**$1,500,000**	**$1,500,000**	-	**$4,190,000**
WS85660005	**ELECTRONIC DOCUMENT MANAGEMENT SYSTEM**		**Function: Automation**			**District: Citywide**	
Purchase and implement an electronic document management system (EDMS) for the department.							
Equipment or Other		255,000	-	-	-	-	255,000
Project Total		**$255,000**	-	-	-	-	**$255,000**
2004 CIC Water Bonds		255,000	-	-	-	-	255,000
Funding Total		**$255,000**	-	-	-	-	**$255,000**
WS85660006	**BUSINESS INTELLIGENCE: DATA VISUAL/ANALYTIC APPLICATION**		**Function: Automation**			**District: Citywide**	
Link various Water Production databases to provide water quality, compliance and product information to management and operations staff.							
Equipment or Other		200,000	-	-	-	-	200,000
Project Total		**$200,000**	-	-	-	-	**$200,000**
2004 CIC Water Bonds		200,000	-	-	-	-	200,000
Funding Total		**$200,000**	-	-	-	-	**$200,000**
WS85660008	**EHSS DATABASE EXPANSION**		**Function: Automation**			**District: Citywide**	
Database expansion providing environmental management tolls for compliance with the Environmental Health and Safety System regulations.							
Equipment or Other		-	200,000	100,000	100,000	100,000	500,000
Project Total		-	**$200,000**	**$100,000**	**$100,000**	**$100,000**	**$500,000**
Water Revenues		-	200,000	100,000	100,000	100,000	500,000
Funding Total		-	**$200,000**	**$100,000**	**$100,000**	**$100,000**	**$500,000**

Project No.	*Project Title*	*2004-05*	*2005-06*	*2006-07*	*2007-08*	*2008-09*	*Total*
WS85660009	**PROJECT MANAGEMENT SYSTEM/CAPRIS**		**Function: Automation**			**District: Citywide**	
Integration of CAPRIS with CIP Project Management System.							
Equipment or Other		330,000	-	-	-	-	330,000
	Project Total	**$330,000**	**-**	**-**	**-**	**-**	**$330,000**
2004 CIC Water Bonds		330,000	-	-	-	-	330,000
	Funding Total	**$330,000**	**-**	**-**	**-**	**-**	**$330,000**
WS85660010	**FIELD FORCE AUTOMATION**		**Function: Automation**			**District: Citywide**	
Equipment purchase for field work order system and maps.							
Equipment or Other		300,000	300,000	-	-	-	600,000
	Project Total	**$300,000**	**$300,000**	**-**	**-**	**-**	**$600,000**
Water Revenues		-	300,000	-	-	-	300,000
2004 CIC Water Bonds		300,000	-	-	-	-	300,000
	Funding Total	**$300,000**	**$300,000**	**-**	**-**	**-**	**$600,000**
WS85660013	**GPS - TECHNICAL SUPPORT DIVISION**		**Function: Automation**			**District: Citywide**	
GPS locations for infrastructure and related facilities for the entire Water system.							
Equipment or Other		500,000	500,000	3,000,000	2,000,000	3,000,000	9,000,000
	Project Total	**$500,000**	**$500,000**	**$3,000,000**	**$2,000,000**	**$3,000,000**	**$9,000,000**
Water Revenues		-	500,000	3,000,000	2,000,000	3,000,000	8,500,000
2004 CIC Water Bonds		500,000	-	-	-	-	500,000
	Funding Total	**$500,000**	**$500,000**	**$3,000,000**	**$2,000,000**	**$3,000,000**	**$9,000,000**
WS85660015	**AUTOCAD SERVICES**		**Function: Automation**			**District: Citywide**	
Contract personnel for development of the Autocad As-Built drawings for all facilities.							
Equipment or Other		300,000	300,000	300,000	300,000	300,000	1,500,000
	Project Total	**$300,000**	**$300,000**	**$300,000**	**$300,000**	**$300,000**	**$1,500,000**
Water Revenues		-	300,000	300,000	300,000	300,000	1,200,000
2004 CIC Water Bonds		300,000	-	-	-	-	300,000
	Funding Total	**$300,000**	**$300,000**	**$300,000**	**$300,000**	**$300,000**	**$1,500,000**
WS85660017	**OPERATIONS - TECH SUPP - APPLICATION 2000**		**Function: Automation**			**District: Citywide**	
Integration with the KIVA, WCIS, MAPS mobile solution system, and Work Order Management Systems. This is a full implementation of the new service application program that delivers service request from inception to billing.							
Equipment or Other		190,000	-	-	-	-	190,000
	Project Total	**$190,000**	**-**	**-**	**-**	**-**	**$190,000**
2004 CIC Water Bonds		190,000	-	-	-	-	190,000
	Funding Total	**$190,000**	**-**	**-**	**-**	**-**	**$190,000**
WS85660018	**OPERATIONS - CSD - AUTO FIELD SVC SYSTEM**		**Function: Automation**			**District: Citywide**	
Automation of Work Order System							
Equipment or Other		2,400,000	-	-	-	-	2,400,000
	Project Total	**$2,400,000**	**-**	**-**	**-**	**-**	**$2,400,000**
Water Revenues		2,400,000	-	-	-	-	2,400,000
	Funding Total	**$2,400,000**	**-**	**-**	**-**	**-**	**$2,400,000**

Water

Project No.	Project Title	2004-05	2005-06	2006-07	2007-08	2008-09	Total
WS85660020	**COMPLIANCE REPORTING AND TRACKING SOFTWARE - CRAO**		**Function: Automation**			**District: Citywide**	
Professional computer services training and consulting for the compliance reporting software.							
Equipment or Other		428,000	50,000	50,000	50,000	50,000	628,000
Project Total		**$428,000**	**$50,000**	**$50,000**	**$50,000**	**$50,000**	**$628,000**
Water Revenues		428,000	50,000	50,000	50,000	50,000	628,000
Funding Total		**$428,000**	**$50,000**	**$50,000**	**$50,000**	**$50,000**	**$628,000**
WS85660021	**CRAO - WTR QUALITY MONITORING SYSTEM**		**Function: Automation**			**District: Citywide**	
Changes in Federal Drinking water regulations will be compatible with an automated sensor system linked to the GIS							
Equipment or Other		300,000	250,000	250,000	-	-	800,000
Project Total		**$300,000**	**$250,000**	**$250,000**	**-**	**-**	**$800,000**
Water Revenues		-	250,000	250,000	-	-	500,000
2004 CIC Water Bonds		300,000	-	-	-	-	300,000
Funding Total		**$300,000**	**$250,000**	**$250,000**	**-**	**-**	**$800,000**
WS85660022	**LAB EXPANSION**		**Function: Automation**			**District: Citywide**	
Equipment requirements for the Lab Division.							
Equipment or Other		-	-	-	-	300,000	300,000
Project Total		**-**	**-**	**-**	**-**	**$300,000**	**$300,000**
Water Revenues		-	-	-	-	300,000	300,000
Funding Total		**-**	**-**	**-**	**-**	**$300,000**	**$300,000**
WS85660024	**AUTOMATIC METER READING SYSTEM**		**Function: Automation**			**District: Citywide**	
Software-deployment, hardware, and contracted installation for the Fire Fly devices installed in two man crew vaulted meters.							
Equipment or Other		1,000,000	1,000,000	-	-	-	2,000,000
Project Total		**$1,000,000**	**$1,000,000**	**-**	**-**	**-**	**$2,000,000**
Water Revenues		-	1,000,000	-	-	-	1,000,000
2004 CIC Water Bonds		1,000,000	-	-	-	-	1,000,000
Funding Total		**$1,000,000**	**$1,000,000**	**-**	**-**	**-**	**$2,000,000**
WS85660025	**VIRTUAL PRIVATE NETWORK (VPN)**		**Function: Automation**			**District: Citywide**	
Private wireless network for confidential infrastructure data communications between mobile units and management.							
Design		250,000	250,000	250,000	250,000	-	1,000,000
Project Total		**$250,000**	**$250,000**	**$250,000**	**$250,000**	**-**	**$1,000,000**
Water Revenues		-	250,000	250,000	250,000	-	750,000
2004 CIC Water Bonds		250,000	-	-	-	-	250,000
Funding Total		**$250,000**	**$250,000**	**$250,000**	**$250,000**	**-**	**$1,000,000**
WS85660026	**GPS VEHICLE LOCATION DEVICES (AVL)**		**Function: Automation**			**District: Citywide**	
Installation of GPS location devices in Distribution, Collection, and Customer Service vehicles to expedite response to emergencies.							
Equipment or Other		250,000	500,000	500,000	500,000	-	1,750,000
Project Total		**$250,000**	**$500,000**	**$500,000**	**$500,000**	**-**	**$1,750,000**
Water Revenues		-	500,000	500,000	500,000	-	1,500,000
2004 CIC Water Bonds		250,000	-	-	-	-	250,000
Funding Total		**$250,000**	**$500,000**	**$500,000**	**$500,000**	**-**	**$1,750,000**

Project No.	*Project Title*	*2004-05*	*2005-06*	*2006-07*	*2007-08*	*2008-09*	*Total*
WS85660027	**CREDIT CARD PROCESSING DATABASE**		**Function: Automation**			**District: Citywide**	
Automation of the credit card payment process for the Customer Services Division.							
Equipment or Other		52,500	-	-	-	-	52,500
	Project Total	**$52,500**	**-**	**-**	**-**	**-**	**$52,500**
Water Revenues		52,500	-	-	-	-	52,500
	Funding Total	**$52,500**	**-**	**-**	**-**	**-**	**$52,500**
WS85660028	**CUSTOMER SVC PHONE ENHANCEMENTS**		**Function: Automation**			**District: Citywide**	
Phone system enhancement for the Customer Services Division. Estimated full-year ongoing operating costs: $80,000							
Equipment or Other		750,000	-	-	-	-	750,000
	Project Total	**$750,000**	**-**	**-**	**-**	**-**	**$750,000**
2004 CIC Water Bonds		750,000	-	-	-	-	750,000
	Funding Total	**$750,000**	**-**	**-**	**-**	**-**	**$750,000**
WS85660029	**WCIS/WFO ENHANCEMENTS**		**Function: Automation**			**District: Citywide**	
Complete the on-line field work order system by converting the Automated Delinquency Account Processing (ADAP) system.							
Equipment or Other		322,500	-	-	-	-	322,500
	Project Total	**$322,500**	**-**	**-**	**-**	**-**	**$322,500**
Water Revenues		322,500	-	-	-	-	322,500
	Funding Total	**$322,500**	**-**	**-**	**-**	**-**	**$322,500**
WS85660030	**METER READING ROUTING SOFTWARE**		**Function: Automation**			**District: Citywide**	
Software which will allow CSD to re-route and enhance existing meter routes to better handle the increasing number of meters that are read on a daily basis.							
Equipment or Other		500,000	-	-	-	-	500,000
	Project Total	**$500,000**	**-**	**-**	**-**	**-**	**$500,000**
Water Revenues		500,000	-	-	-	-	500,000
	Funding Total	**$500,000**	**-**	**-**	**-**	**-**	**$500,000**
WS85660031	**CUSTOMER CALL CENTER**		**Function: Automation**			**District: Citywide**	
Provide an operations and response center for field personnel using MAPS, AVL, GPS and dispatch operations.							
Equipment or Other		-	-	-	1,500,000	2,500,000	4,000,000
	Project Total	**-**	**-**	**-**	**$1,500,000**	**$2,500,000**	**$4,000,000**
Water Revenues		-	-	-	1,500,000	2,500,000	4,000,000
	Funding Total	**-**	**-**	**-**	**$1,500,000**	**$2,500,000**	**$4,000,000**
WS85700012	**MISC STUDIES**		**Function: Water System Studies**			**District: Citywide**	
Miscellaneous studies as required.							
Design		500,000	500,000	500,000	500,000	500,000	2,500,000
	Project Total	**$500,000**	**$500,000**	**$500,000**	**$500,000**	**$500,000**	**$2,500,000**
Water Revenues		500,000	500,000	500,000	500,000	500,000	2,500,000
	Funding Total	**$500,000**	**$500,000**	**$500,000**	**$500,000**	**$500,000**	**$2,500,000**

Project No.	*Project Title*	*2004-05*	*2005-06*	*2006-07*	*2007-08*	*2008-09*	*Total*
WS85700040	**ACQUIRE ADDITIONAL WATER RESOURCES**		**Function: Water System Studies**			**District: Citywide**	
Acquire Additional Water Resources.							
Design		-	2,000,000	5,000,000	5,000,000	5,000,000	17,000,000
	Project Total	**-**	**$2,000,000**	**$5,000,000**	**$5,000,000**	**$5,000,000**	**$17,000,000**
Water Resources Acquisition Fee		-	2,000,000	5,000,000	5,000,000	5,000,000	17,000,000
	Funding Total	**-**	**$2,000,000**	**$5,000,000**	**$5,000,000**	**$5,000,000**	**$17,000,000**
WS85700041	**PRESTRESSED CONCRETE CYLINDER PIPE STUDY**		**Function: Water System Studies**			**District: Citywide**	
Assessment study of all Prestressed Concrete Cylinder Pipe (PCCP).							
Design		105,000	-	-	-	-	105,000
	Project Total	**$105,000**	**-**	**-**	**-**	**-**	**$105,000**
2004 CIC Water Bonds		105,000	-	-	-	-	105,000
	Funding Total	**$105,000**	**-**	**-**	**-**	**-**	**$105,000**
WS85700056	**CM@RISK CONTRACT MODEL DEVELOPMENT**		**Function: Water System Studies**			**District: Citywide**	
Development/maintenance of design and construction phase contract document for CM at Risk projects.							
Design		25,000	-	-	-	-	25,000
	Project Total	**$25,000**	**-**	**-**	**-**	**-**	**$25,000**
2004 CIC Water Bonds		25,000	-	-	-	-	25,000
	Funding Total	**$25,000**	**-**	**-**	**-**	**-**	**$25,000**
WS85700058	**WATER LOSS STUDY**		**Function: Water System Studies**			**District: Citywide**	
Study to reduce lost and unaccounted for water.							
Design		100,000	-	-	-	-	100,000
	Project Total	**$100,000**	**-**	**-**	**-**	**-**	**$100,000**
Water Revenues		100,000	-	-	-	-	100,000
	Funding Total	**$100,000**	**-**	**-**	**-**	**-**	**$100,000**
WS85700059	**SOUTHWESTERN WILLOW FLYCATCHER STUDY**		**Function: Water System Studies**			**District: Citywide**	
Study to provide comments on redesignation of Critical Habitat for the Southwestern Willow Flycatcher under the Endangered Species Act.							
Study		5,000,000	-	-	-	-	5,000,000
	Project Total	**$5,000,000**	**-**	**-**	**-**	**-**	**$5,000,000**
Water Revenues		2,500,000	-	-	-	-	2,500,000
2004 CIC Water Bonds		2,500,000	-	-	-	-	2,500,000
	Funding Total	**$5,000,000**	**-**	**-**	**-**	**-**	**$5,000,000**
WS85700060	**TELEMETRY STUDY**		**Function: Water System Studies**			**District: Citywide**	
Water Services Remote Telemetry and Control System Study and Upgrade. This project will study the existing communication infrastructure and integrate these systems.							
Study		2,000,000	1,500,000	-	-	-	3,500,000
Construction		10,000	-	-	-	-	10,000
	Project Total	**$2,010,000**	**$1,500,000**	**-**	**-**	**-**	**$3,510,000**
Water Revenues		-	1,500,000	-	-	-	1,500,000
2004 CIC Water Bonds		2,010,000	-	-	-	-	2,010,000
	Funding Total	**$2,010,000**	**$1,500,000**	**-**	**-**	**-**	**$3,510,000**

Project No.	*Project Title*	*2004-05*	*2005-06*	*2006-07*	*2007-08*	*2008-09*	*Total*
WS85700062	**CIP PROJECT CONTROLS SYSTEM IMPLEMENTATION**		**Function: Water System Studies**			**District: Citywide**	
Functional specification development and implementation of CIP Control System.							
Design		481,000	500,000	-	-	-	981,000
Construction		25,000	-	-	-	-	25,000
	Project Total	**$506,000**	**$500,000**	**-**	**-**	**-**	**$1,006,000**
Water Revenues		506,000	500,000	-	-	-	1,006,000
	Funding Total	**$506,000**	**$500,000**	**-**	**-**	**-**	**$1,006,000**
WS85700066	**MEMBRANE PILOT STUDY**		**Function: Water System Studies**			**District: 7**	
Agreement with Bureau of Reclamation to perform brackish water treatability studies at the future western canal site.							
Study		150,000	-	-	-	-	150,000
	Project Total	**$150,000**	**-**	**-**	**-**	**-**	**$150,000**
Water Revenues		150,000	-	-	-	-	150,000
	Funding Total	**$150,000**	**-**	**-**	**-**	**-**	**$150,000**
WS85700067	**WATER SYSTEM MASTER PLANS**		**Function: Water System Studies**			**District: Citywide**	
Update water system hydraulic and water quality optimization master plan.							
Design		-	-	-	-	1,000,000	1,000,000
	Project Total	**-**	**-**	**-**	**-**	**$1,000,000**	**$1,000,000**
2004 CIC Water Bonds		-	-	-	-	1,000,000	1,000,000
	Funding Total	**-**	**-**	**-**	**-**	**$1,000,000**	**$1,000,000**
WS85700068	**WATER BOND OFFERING STATEMENT**		**Function: Water System Studies**			**District: Citywide**	
Preparation of the engineering portion of the 2004 Water Bond Sale Offering Statement.							
Study		85,000	-	-	-	-	85,000
	Project Total	**$85,000**	**-**	**-**	**-**	**-**	**$85,000**
Water Revenues		85,000	-	-	-	-	85,000
	Funding Total	**$85,000**	**-**	**-**	**-**	**-**	**$85,000**
WS85700070	**WATER DEVELOPMENT PLANNING**		**Function: Water System Studies**			**District: Citywide**	
Planning costs associated with new water development form City engineers.							
Study		625,000	625,000	625,000	625,000	625,000	3,125,000
	Project Total	**$625,000**	**$625,000**	**$625,000**	**$625,000**	**$625,000**	**$3,125,000**
Water Development Occupational Fee		625,000	625,000	625,000	625,000	625,000	3,125,000
	Funding Total	**$625,000**	**$625,000**	**$625,000**	**$625,000**	**$625,000**	**$3,125,000**
WS85700072	**PERCHLORATE STUDY**		**Function: Water System Studies**			**District: Citywide**	
Hydrology and plume containment investigation.							
Design		100,000	-	-	-	-	100,000
	Project Total	**$100,000**	**-**	**-**	**-**	**-**	**$100,000**
Water Revenues		100,000	-	-	-	-	100,000
	Funding Total	**$100,000**	**-**	**-**	**-**	**-**	**$100,000**

Water

Project No.	*Project Title*	*2004-05*	*2005-06*	*2006-07*	*2007-08*	*2008-09*	*Total*
WS85750002	**PERCENT FOR ARTS - 24TH ST CANAL**		**Function: Percent for Art**			**District: 3**	
Percent for Arts - 24th Street Canal.							
Construction		350,000	-	-	-	-	350,000
	Project Total	**$350,000**	**-**	**-**	**-**	**-**	**$350,000**
2004 CIC Water Bonds		350,000	-	-	-	-	350,000
	Funding Total	**$350,000**	**-**	**-**	**-**	**-**	**$350,000**
WS85700049	**SECURITY PROGRAM**		**Function: Security**			**District: Citywide**	
Security related programs for Water facilities.							
Estimated full-year ongoing operating costs: $50,000							
Construction		325,000	1,825,000	2,000,000	2,000,000	4,000,000	10,150,000
	Project Total	**$325,000**	**$1,825,000**	**$2,000,000**	**$2,000,000**	**$4,000,000**	**$10,150,000**
Water Revenues		-	1,825,000	2,000,000	2,000,000	4,000,000	9,825,000
2004 CIC Water Bonds		325,000	-	-	-	-	325,000
	Funding Total	**$325,000**	**$1,825,000**	**$2,000,000**	**$2,000,000**	**$4,000,000**	**$10,150,000**
WS85800004	**WATER SAMPLING STATIONS - SECURITY**		**Function: Security**			**District: Citywide**	
Installation of 50 secure water sampling stations per year for 3 years at various locations.							
Construction		175,000	175,000	-	-	-	350,000
	Project Total	**$175,000**	**$175,000**	**-**	**-**	**-**	**$350,000**
Water Revenues		-	175,000	-	-	-	175,000
2004 CIC Water Bonds		175,000	-	-	-	-	175,000
	Funding Total	**$175,000**	**$175,000**	**-**	**-**	**-**	**$350,000**
WS85800005	**SECURITY PROJECTS FOR REMOTE FACILITIES**		**Function: Security**			**District: Citywide**	
Security projects for remote facilities as recommended by the Security Master Plan.							
Construction		1,000,000	-	-	-	-	1,000,000
	Project Total	**$1,000,000**	**-**	**-**	**-**	**-**	**$1,000,000**
2004 CIC Water Bonds		1,000,000	-	-	-	-	1,000,000
	Funding Total	**$1,000,000**	**-**	**-**	**-**	**-**	**$1,000,000**