



City of Tempe, Arizona

Water and Wastewater Development Fees

July 2008

Report Prepared By:



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1. Executive Summary

1.1. Introduction

The City of Tempe, Arizona (City) provides water and wastewater service to approximately 41,000 customer accounts. The City's water and wastewater utilities are funded primarily from water and wastewater rates and development fees.

The City authorized Red Oak Consulting to update the City's water and wastewater development fees. This study includes:

- Identification of growth-related water and wastewater capital improvement plans (CIP) for the 20-year period, beginning in fiscal 2007-08;
- Determination of number of new capacity units provided through the CIP;
- Calculation of unit growth capital cost per capacity unit; and
- Calculation of 2008-09 development fee.

1.2. Proposed Fees

The development fee is a one-time charge to new connectors to finance capital expansion and enlargement of the City's water and wastewater systems. The proposed development fees will allow new users to pay for their proportionate share of the growth-related portion of the CIP. To assure that "growth pays for growth," the City should annually review and adjust its development fees to reflect construction cost inflation and changes in growth-related CIP.

Table 1-1 compares existing and proposed 2008-09 development fees. Existing fees have been in effect since September 2007.

**Table 1-1.
Comparison of Existing and Proposed 2008-09 Development Fees**

Meter Size	Existing Fees			Proposed Fees		
	Water	Wastewater	Total	Water	Wastewater	Total
5/8"	\$ 2,621	\$ 2,202	\$ 4,823	\$ 3,045	\$ 2,848	\$ 5,893
3/4"	3,932	3,303	7,235	4,568	4,272	8,840
1"	6,553	5,505	12,058	7,613	7,120	14,733
1½"	13,105	11,010	24,115	15,225	14,240	29,465
2"	36,694	30,828	67,522	42,630	39,872	82,502
3"	65,525	55,050	120,575	76,125	71,200	147,325
4"	131,050	110,100	241,150	152,250	142,400	294,650
6"	183,470	154,140	337,610	213,150	199,360	412,510

2. Water Development Fees

2.1. Methodology

Red Oak Consulting used the incremental method to calculate the water development fees. This method assumes that development fees will allow new users to pay for their proportionate share of the growth-related portion of the capital improvement program (CIP). The incremental method consists of the following steps:

- Identify cost of growth-related CIP projects.
- Determine incremental capacity provided by CIP.
- Calculate unit capacity cost.
- Determine capacity requirements of 5/8-inch equivalent meter.
- Calculate development fee per capacity unit.

2.2. Capital Improvement Program

Projected study period water CIP is \$321.8 million (2009 costs) and consists of \$82.0 million in growth related projects and \$239.8 million in non-growth related projects. Growth related projects include \$42.1 million for treatment expansions and water quality upgrades and \$39.9 million for system improvements. **Appendix A** shows the water utility CIP.

2.3. System Capacity

The water system capacity that is provided by the growth related CIP is 25 million gallons per day (mgd) of maximum day demand. This consists of 15 mgd provided by water treatment plant improvements and 10 mgd provided by well additions.

2.4. Fee Calculation

Table 2-1 shows the water development fee calculation for a 5/8-inch equivalent meter. The growth related capital costs of \$123.8 million are stated in 2009 dollars and are the sum of the growth related CIP and the carrying cost on growth related debt. All growth related CIP is assumed to be debt financed. The unit capacity cost of \$4.95 per gallons per day (gpd) is the quotient of the growth related capital costs divided by the increase in capacity provided by the growth related CIP.

The 5/8-inch equivalent meter peak usage is 615 gpd maximum day demand. This is the product of 400 gpd average day demand multiplied by the system maximum day to average day demand ratio of 1.54.

The proposed 2008-09 water development fee for a 5/8-inch meter equivalent is \$3,045 and is the product of the system unit capacity charge and the 5/8-inch meter equivalent peak demand.

**Table 2-1.
2008-09 Water Development Fee Calculation
for 5/8-inch Equivalent Meter**

Line No.	Description	Calculation
1	Growth related CIP	\$ 82,047,192
2	Interest on Future Debt	<u>41,713,713</u>
3	Total Growth Related Capital Costs	\$ 123,760,905
4	Increase in Growth Capacity (gpd)	25,000,000
5	Unit Capacity Charge (per gpd)	\$ 4.95
6	5/8-inch Equivalent Meter Peak Day Demand (gpd)	615
7	Development Fee, per 5/8-inch Equivalent Meter	\$ 3,045

gpd – gallons per day

The 5/8-inch equivalent meter capacity factors show the relative demand relationships for each meter size and are the basis for calculating development fees for each meter size. Existing development fees incorporate capacity factors used by the City’s Development Services Department that are based on peak demands.

Red Oak used the City’s Development Services Department capacity factors to calculate the proposed water development fee for each meter size. **Table 2-2** compares the proposed and existing fees. Existing fees have been in effect since September 2007.

**Table 2-2.
Proposed Water Development Fees
for Each Meter Size**

Meter Size	5/8" Meter Equivalent Capacity Factor	Proposed 2008-09 Fee	Existing Fee
5/8"	1.0	\$ 3,045	\$ 2,621
3/4"	1.5	4,568	3,932
1"	2.5	7,613	6,553
1½"	5.0	15,225	13,105
2"	14.0	42,630	36,694
3"	25.0	76,125	65,525
4"	50.0	152,250	131,050
6"	70.0	213,150	183,470

Red Oak recommends that the City annually review and adjust its water development fees to reflect changes in cost inflation and growth-related CIP.

3. Wastewater Development Fee

3.1. Methodology

Red Oak Consulting used the incremental method to calculate the wastewater development fees. This method assumes that development fees will allow new users to pay for their proportionate share of the growth-related portion of the capital improvement program (CIP). The incremental method consists of the following steps:

- Identify cost of growth-related CIP projects.
- Determine incremental capacity provided by CIP.
- Calculate unit capacity cost.
- Determine capacity requirements of 5/8-inch equivalent meter.
- Calculate development fee per capacity unit.

3.2. Capital Improvement Program

Projected study period wastewater CIP is \$215.9 million (2009 costs) and consists of \$110.1 million in growth related projects and \$105.8 million in non-growth related projects. Growth related projects include \$96.3 million for SROG treatment expansions and upgrades and \$13.8 million for system improvements. **Appendix B** shows the wastewater utility CIP.

3.3. System Capacity

The wastewater system capacity that is provided by the growth related CIP is 14.5 mgd. This consists of 10 mgd provided by the SROG wastewater treatment plant improvements and 4.5 mgd provided by Kyrene water reclamation facility improvements.

3.4. Fee Calculation

Table 3-1 shows the wastewater development fee calculation for a 5/8-inch equivalent meter. The growth related capital costs of \$163.9 million are stated in 2009 dollars and are the sum of the growth related CIP and the carrying cost on growth related debt. All growth related CIP is assumed to be debt financed. The unit capacity cost of \$11.30 per gallons per day (gpd) is the quotient of the growth related capital costs divided by the increase in capacity provided by the growth related CIP.

The 5/8-inch equivalent meter average wastewater usage is 252 gpd of maximum day demand. This amount is the quotient of the system average wastewater flow per day divided by the total system number of 5/8-inch equivalent meters.

The proposed 2008-09 wastewater development fee for a 5/8-inch equivalent meter is \$2,848 and is the product of the system unit capacity charge and the 5/8-inch equivalent meter contributed wastewater flow.

**Table 3-1.
2008-09 Wastewater Development Fee Calculation
for 5/8-inch Equivalent Meter**

Line No.	Description	Calculation
1	Growth related CIP	\$ 110,076,591
2	Interest on Future Debt	<u>53,846,872</u>
3	Total Growth Related Capital Costs	\$ 163,923,463
4	Increase in Growth Capacity (gpd)	14,500,000
5	Unit Capacity Charge (per gpd)	\$ 11.30
6	5/8-inch Equivalent Meter Contributed Wastewater (gpd)	252
7	Development Fee, per 5/8-inch Meter Equivalent	\$ 2,848

gpd – gallons per day

The 5/8-inch equivalent meter capacity factors show the relative demand relationships for each meter size and are the basis for calculating development fees for each meter size. Existing development fees incorporate capacity factors used by the City’s Development Services Department that are based on peak demands.

Red Oak used the City’s Development Services Department capacity factors to calculate the proposed wastewater development fee for each meter size. **Table 3-2** compares the proposed and existing fees. Existing fees have been in effect since September 2007.

**Table 3-2.
Proposed Wastewater Development Fees
for Each Meter Size**

Meter Size	5/8" Meter Equivalent Capacity Factor	Proposed 2008-09 Fee	Existing Fee
5/8"	1.0	\$ 2,848	\$ 2,202
3/4"	1.5	4,272	3,303
1"	2.5	7,120	5,505
1½"	5.0	14,240	11,010
2"	14.0	39,872	30,828
3"	25.0	71,200	55,050
4"	50.0	142,400	110,100
6"	70.0	199,360	154,140

Red Oak recommends that the City annually review and adjust its wastewater development fees to reflect changes in cost inflation and growth-related CIP.



City of Tempe
Water and Wastewater Development Fees

Appendix A

Water Capital Improvement Program



**Table A-1
Water Capital Improvement Program**

Line	Growth Allocation	Project	Total- 20 Year Program	Prior Years Cost	2007 Carryforward	2007/08
Water Program Summary						
1	0%	CAP Capital Charge	\$ 2,738,484	\$ -	\$ 373,484	\$ 126,000
2	0%	STWTP Capital Equipment Replacement	5,224,005		224,005	250,000
3	0%	JGMWTP Capital Equipment Replacement	5,625,620		625,620	250,000
4	100%	Distribution System Fittings	5,580,000			500,000
5	100%	Water Line Upgrade	17,045,602		195,602	212,500
6	0%	Water Line Replacement/Repair	51,136,806		586,806	637,500
7	23%	JGMWTP Water Quality Upgrades	116,325,105	58,905,105		12,000,000
8	100%	JGMWTP Reservoir	13,789,447		13,789,447	
9	50%	New Well Production	12,300,000			900,000
10	0%	Enterprise GIS	956,452		456,452	500,000
11	0%	SCADA Remote Terminal Units (RTU) Replacement	1,004,073		404,073	600,000
12	0%	WUD Security Improvements	7,628,252		2,328,252	5,300,000
13	25%	24" Water Line Upgrade / Replacement Hayden Tank (5th to Forest)	2,359,000			2,359,000
14	50%	COT Well 6 - Wellhead Treatment System	2,561,215		105,215	2,456,000
15	0%	Water Line Upgrade / Replacement 22nd/24th St. (Hardy-Roosevelt)	957,000			
16	0%	Water Line Upgrade / Replacement Margo/Geneva (Fairmont-Hardy)	1,168,500			
17	50%	Water Line Upgrade / Replacement Orange/Lemon/Mariana	1,503,500			
18	0%	STWTP Water Quality Improvement	22,110,000			
19	30%	Well #13 Equipping	680,000			
20	0%	Alum Tank Replacement at STWTP	270,000			
21	0%	HVAC & Carpet Replacement at all three water facilities	1,037,000			
22	0%	NaOCI Cells & Brine Tank Installation at STWTP	480,000			
23	75%	Water Line Upgrade / Replacement Rural (Rio Salado-Broadway)	3,572,000			
24	0%	Kyrene Reclaimed Water Transmission/Distribution Line	-			
25	0%	Environmental Laboratory Facility	5,090,800			
26	0%	JGMWTP Security Fencing/Lighting	2,318,000			
27	0%	STWTP Security Fencing/Lighting	2,806,000			
28	0%	Ken McDonald Golf Course Recharge Project	2,114,000			
29	0%	Sedimentation Basins Grout Liner Replacement	2,200,000			
30	0%	Undergrounding of Water Aqueduct at JGMWTP	857,000			
31	0%	Small Meter Replacement Program - 2" and under	1,600,000			
32	0%	WUD Building Remodel	23,709		23,709	
33	0%	Well 9 Building Security	544,266		544,266	
34	0%	Well 1 Irrigator Bldg Site	58,141		58,141	
35	0%	Apache Blvd Waterline Replacement	1,005,565		1,005,565	

**Table A-1
Water Capital Improvement Program**

Line	Growth Allocation	Project	Total- 20 Year Program	Prior Years Cost	2007 Carryforward	2007/08
36	25%	Well 14 Improvement	862,851		862,851	
37	0%	Misc Water Metering Station	631,092		631,092	
38	0%	STWTP Sed Basin Repair	100		100	
39	25%	Integrated Master Plan	1,788,236		38,236	
40	25%	Kyrene Rec Water Line Study/Transmission Line	19,048,289	6,700,000	5,048,289	3,300,000
41	0%	Metering Station Improvements	405,000		405,000	
42	0%	48th St Meter Station	204,000		204,000	
43	0%	Eisendrath Property Rehab	268,254		268,254	
44	100%	JGMWTP Waterline Improvements	1,440,721		1,440,721	
45	0%	Arc Flash Hazard Analysis	8,627		8,627	
46	25%	Kyrene WRF Plant Expansion & Re-Hab	1,068,862		1,068,862	
47	0%	Kyrene Utility Services Building	462,611		462,611	
48	0%	Kyrene Reclamation Facility	11,078		11,078	
49	0%	Utility Billing System	955,000			
50		Total Water	\$ 321,824,263	\$ 65,605,105	\$ 31,170,358	\$ 29,391,000

**Table A-1
Water Capital Improvement Program**

Line	Growth Allocation	Project	2008/09	2009/10	2010/11	2011/12
Water Program Summary						
1	0%	CAP Capital Charge	\$ 95,000	\$ 95,000	\$ 95,000	\$ 95,000
2	0%	STWTP Capital Equipment Replacement	250,000	250,000	250,000	250,000
3	0%	JGMWTP Capital Equipment Replacement	250,000	250,000	250,000	250,000
4	100%	Distribution System Fittings	500,000	500,000	400,000	230,000
5	100%	Water Line Upgrade	212,500	212,500	212,500	1,000,000
6	0%	Water Line Replacement/Repair	637,500	637,500	637,500	3,000,000
7	23%	JGMWTP Water Quality Upgrades	15,000,000	30,420,000		
8	100%	JGMWTP Reservoir				
9	50%	New Well Production	1,900,000	700,000		900,000
10	0%	Enterprise GIS				
11	0%	SCADA Remote Terminal Units (RTU) Replacement				
12	0%	WUD Security Improvements				
13	25%	24" Water Line Upgrade / Replacement Hayden Tank (5th to Forest)				
14	50%	COT Well 6 - Wellhead Treatment System				
15	0%	Water Line Upgrade / Replacement 22nd/24th St. (Hardy-Roosevelt)	957,000			
16	0%	Water Line Upgrade / Replacement Margo/Geneva (Fairmont-Hardy)	1,168,500			
17	50%	Water Line Upgrade / Replacement Orange/Lemon/Mariana	1,503,500			
18	0%	STWTP Water Quality Improvement		2,500,000	11,500,000	8,110,000
19	30%	Well #13 Equipping	680,000			
20	0%	Alum Tank Replacement at STWTP	270,000			
21	0%	HVAC & Carpet Replacement at all three water facilities	175,000	83,000	28,000	51,000
22	0%	NaOCI Cells & Brine Tank Installation at STWTP	480,000			
23	75%	Water Line Upgrade / Replacement Rural (Rio Salado-Broadway)		1,372,000	2,200,000	
24	0%	Kyrene Reclaimed Water Transmission/Distribution Line				
25	0%	Environmental Laboratory Facility		432,000	2,059,400	2,059,400
26	0%	JGMWTP Security Fencing/Lighting		2,318,000		
27	0%	STWTP Security Fencing/Lighting			2,806,000	
28	0%	Ken McDonald Golf Course Recharge Project	390,000	1,724,000		
29	0%	Sedimentation Basins Grout Liner Replacement	2,200,000			
30	0%	Undergrounding of Water Aqueduct at JGMWTP				857,000
31	0%	Small Meter Replacement Program - 2" and under	650,000	650,000	100,000	100,000
32	0%	WUD Building Remodel				
33	0%	Well 9 Building Security				
34	0%	Well 1 Irrigator Bldg Site				
35	0%	Apache Blvd Waterline Replacement				

**Table A-1
Water Capital Improvement Program**

Line	Growth Allocation	Project	2008/09	2009/10	2010/11	2011/12
36	25%	Well 14 Improvement				
37	0%	Misc Water Metering Station				
38	0%	STWTP Sed Basin Repair				
39	25%	Integrated Master Plan	250,000			250,000
40	25%	Kyrene Rec Water Line Study/Transmission Line	4,000,000			
41	0%	Metering Station Improvements				
42	0%	48th St Meter Station				
43	0%	Eisendrath Property Rehab				
44	100%	JGMWTP Waterline Improvements				
45	0%	Arc Flash Hazard Analysis				
46	25%	Kyrene WRF Plant Expansion & Re-Hab				
47	0%	Kyrene Utility Services Building				
48	0%	Kyrene Reclamation Facility				
49	0%	Utility Billing System	355,000	600,000		
50		Total Water	\$ 31,924,000	\$ 42,744,000	\$ 20,538,400	\$ 17,152,400

**Table A-1
Water Capital Improvement Program**

Line	Growth Allocation	Project	2012/13	2013/14	2014/15	2015/16
Water Program Summary						
1	0%	CAP Capital Charge	\$ 95,000	\$ 126,000	\$ 126,000	\$ 126,000
2	0%	STWTP Capital Equipment Replacement	250,000	250,000	250,000	250,000
3	0%	JGMWTP Capital Equipment Replacement	250,000	250,000	250,000	250,000
4	100%	Distribution System Fittings	230,000	230,000	230,000	230,000
5	100%	Water Line Upgrade	1,000,000	1,000,000	1,000,000	1,000,000
6	0%	Water Line Replacement/Repair	3,000,000	3,000,000	3,000,000	3,000,000
7	23%	JGMWTP Water Quality Upgrades				
8	100%	JGMWTP Reservoir				
9	50%	New Well Production	900,000	500,000	500,000	500,000
10	0%	Enterprise GIS				
11	0%	SCADA Remote Terminal Units (RTU) Replacement				
12	0%	WUD Security Improvements				
13	25%	24" Water Line Upgrade / Replacement Hayden Tank (5th to Forest)				
14	50%	COT Well 6 - Wellhead Treatment System				
15	0%	Water Line Upgrade / Replacement 22nd/24th St. (Hardy-Roosevelt)				
16	0%	Water Line Upgrade / Replacement Margo/Geneva (Fairmont-Hardy)				
17	50%	Water Line Upgrade / Replacement Orange/Lemon/Mariana				
18	0%	STWTP Water Quality Improvement				
19	30%	Well #13 Equipping				
20	0%	Alum Tank Replacement at STWTP				
21	0%	HVAC & Carpet Replacement at all three water facilities		50,000	50,000	50,000
22	0%	NaOCI Cells & Brine Tank Installation at STWTP				
23	75%	Water Line Upgrade / Replacement Rural (Rio Salado-Broadway)				
24	0%	Kyrene Reclaimed Water Transmission/Distribution Line				
25	0%	Environmental Laboratory Facility	540,000			
26	0%	JGMWTP Security Fencing/Lighting				
27	0%	STWTP Security Fencing/Lighting				
28	0%	Ken McDonald Golf Course Recharge Project				
29	0%	Sedimentation Basins Grout Liner Replacement				
30	0%	Undergrounding of Water Aqueduct at JGMWTP				
31	0%	Small Meter Replacement Program - 2" and under	100,000			
32	0%	WUD Building Remodel				
33	0%	Well 9 Building Security				
34	0%	Well 1 Irrigator Bldg Site				
35	0%	Apache Blvd Waterline Replacement				

**Table A-1
Water Capital Improvement Program**

Line	Growth Allocation	Project	2012/13	2013/14	2014/15	2015/16
36	25%	Well 14 Improvement				
37	0%	Misc Water Metering Station				
38	0%	STWTP Sed Basin Repair				
39	25%	Integrated Master Plan			250,000	
40	25%	Kyrene Rec Water Line Study/Transmission Line				
41	0%	Metering Station Improvements				
42	0%	48th St Meter Station				
43	0%	Eisendrath Property Rehab				
44	100%	JGMWTP Waterline Improvements				
45	0%	Arc Flash Hazard Analysis				
46	25%	Kyrene WRF Plant Expansion & Re-Hab				
47	0%	Kyrene Utility Services Building				
48	0%	Kyrene Reclamation Facility				
49	0%	Utility Billing System				
50		Total Water	\$ 6,365,000	\$ 5,406,000	\$ 5,656,000	\$ 5,406,000

**Table A-1
Water Capital Improvement Program**

Line	Growth Allocation	Project	2016/17	2017/18	2018/19	2019/20
Water Program Summary						
1	0%	CAP Capital Charge	\$ 126,000	\$ 126,000	\$ 126,000	\$ 126,000
2	0%	STWTP Capital Equipment Replacement	250,000	250,000	250,000	250,000
3	0%	JGMWTP Capital Equipment Replacement	250,000	250,000	250,000	250,000
4	100%	Distribution System Fittings	230,000	230,000	230,000	230,000
5	100%	Water Line Upgrade	1,000,000	1,000,000	1,000,000	1,000,000
6	0%	Water Line Replacement/Repair	3,000,000	3,000,000	3,000,000	3,000,000
7	23%	JGMWTP Water Quality Upgrades				
8	100%	JGMWTP Reservoir				
9	50%	New Well Production	500,000	500,000	500,000	500,000
10	0%	Enterprise GIS				
11	0%	SCADA Remote Terminal Units (RTU) Replacement				
12	0%	WUD Security Improvements				
13	25%	24" Water Line Upgrade / Replacement Hayden Tank (5th to Forest)				
14	50%	COT Well 6 - Wellhead Treatment System				
15	0%	Water Line Upgrade / Replacement 22nd/24th St. (Hardy-Roosevelt)				
16	0%	Water Line Upgrade / Replacement Margo/Geneva (Fairmont-Hardy)				
17	50%	Water Line Upgrade / Replacement Orange/Lemon/Mariana				
18	0%	STWTP Water Quality Improvement				
19	30%	Well #13 Equipping				
20	0%	Alum Tank Replacement at STWTP				
21	0%	HVAC & Carpet Replacement at all three water facilities	50,000	50,000	50,000	50,000
22	0%	NaOCI Cells & Brine Tank Installation at STWTP				
23	75%	Water Line Upgrade / Replacement Rural (Rio Salado-Broadway)				
24	0%	Kyrene Reclaimed Water Transmission/Distribution Line				
25	0%	Environmental Laboratory Facility				
26	0%	JGMWTP Security Fencing/Lighting				
27	0%	STWTP Security Fencing/Lighting				
28	0%	Ken McDonald Golf Course Recharge Project				
29	0%	Sedimentation Basins Grout Liner Replacement				
30	0%	Undergrounding of Water Aqueduct at JGMWTP				
31	0%	Small Meter Replacement Program - 2" and under				
32	0%	WUD Building Remodel				
33	0%	Well 9 Building Security				
34	0%	Well 1 Irrigator Bldg Site				
35	0%	Apache Blvd Waterline Replacement				

**Table A-1
Water Capital Improvement Program**

Line	Growth Allocation	Project	2016/17	2017/18	2018/19	2019/20
36	25%	Well 14 Improvement				
37	0%	Misc Water Metering Station				
38	0%	STWTP Sed Basin Repair				
39	25%	Integrated Master Plan		250,000		
40	25%	Kyrene Rec Water Line Study/Transmission Line				
41	0%	Metering Station Improvements				
42	0%	48th St Meter Station				
43	0%	Eisendrath Property Rehab				
44	100%	JGMWTP Waterline Improvements				
45	0%	Arc Flash Hazard Analysis				
46	25%	Kyrene WRF Plant Expansion & Re-Hab				
47	0%	Kyrene Utility Services Building				
48	0%	Kyrene Reclamation Facility				
49	0%	Utility Billing System				
50		Total Water	\$ 5,406,000	\$ 5,656,000	\$ 5,406,000	\$ 5,406,000

**Table A-1
Water Capital Improvement Program**

Line	Growth Allocation	Project	2020/21	2021/22	2022/23	2023/24
Water Program Summary						
1	0%	CAP Capital Charge	\$ 126,000	\$ 126,000	\$ 126,000	\$ 126,000
2	0%	STWTP Capital Equipment Replacement	250,000	250,000	250,000	250,000
3	0%	JGMWTP Capital Equipment Replacement	250,000	250,000	250,000	250,000
4	100%	Distribution System Fittings	230,000	230,000	230,000	230,000
5	100%	Water Line Upgrade	1,000,000	1,000,000	1,000,000	1,000,000
6	0%	Water Line Replacement/Repair	3,000,000	3,000,000	3,000,000	3,000,000
7	23%	JGMWTP Water Quality Upgrades				
8	100%	JGMWTP Reservoir				
9	50%	New Well Production	500,000	500,000	500,000	500,000
10	0%	Enterprise GIS				
11	0%	SCADA Remote Terminal Units (RTU) Replacement				
12	0%	WUD Security Improvements				
13	25%	24" Water Line Upgrade / Replacement Hayden Tank (5th to Forest)				
14	50%	COT Well 6 - Wellhead Treatment System				
15	0%	Water Line Upgrade / Replacement 22nd/24th St. (Hardy-Roosevelt)				
16	0%	Water Line Upgrade / Replacement Margo/Geneva (Fairmont-Hardy)				
17	50%	Water Line Upgrade / Replacement Orange/Lemon/Mariana				
18	0%	STWTP Water Quality Improvement				
19	30%	Well #13 Equipping				
20	0%	Alum Tank Replacement at STWTP				
21	0%	HVAC & Carpet Replacement at all three water facilities	50,000	50,000	50,000	50,000
22	0%	NaOCI Cells & Brine Tank Installation at STWTP				
23	75%	Water Line Upgrade / Replacement Rural (Rio Salado-Broadway)				
24	0%	Kyrene Reclaimed Water Transmission/Distribution Line				
25	0%	Environmental Laboratory Facility				
26	0%	JGMWTP Security Fencing/Lighting				
27	0%	STWTP Security Fencing/Lighting				
28	0%	Ken McDonald Golf Course Recharge Project				
29	0%	Sedimentation Basins Grout Liner Replacement				
30	0%	Undergrounding of Water Aqueduct at JGMWTP				
31	0%	Small Meter Replacement Program - 2" and under				
32	0%	WUD Building Remodel				
33	0%	Well 9 Building Security				
34	0%	Well 1 Irrigator Bldg Site				
35	0%	Apache Blvd Waterline Replacement				

**Table A-1
Water Capital Improvement Program**

Line	Growth Allocation	Project	2020/21	2021/22	2022/23	2023/24
36	25%	Well 14 Improvement				
37	0%	Misc Water Metering Station				
38	0%	STWTP Sed Basin Repair				
39	25%	Integrated Master Plan	250,000			250,000
40	25%	Kyrene Rec Water Line Study/Transmission Line				
41	0%	Metering Station Improvements				
42	0%	48th St Meter Station				
43	0%	Eisendrath Property Rehab				
44	100%	JGMWTP Waterline Improvements				
45	0%	Arc Flash Hazard Analysis				
46	25%	Kyrene WRF Plant Expansion & Re-Hab				
47	0%	Kyrene Utility Services Building				
48	0%	Kyrene Reclamation Facility				
49	0%	Utility Billing System				
50		Total Water	\$ 5,656,000	\$ 5,406,000	\$ 5,406,000	\$ 5,656,000

**Table A-1
Water Capital Improvement Program**

Line	Growth Allocation	Project	2024/25	2025/26	2026/27
Water Program Summary					
1	0%	CAP Capital Charge	\$ 126,000	\$ 126,000	\$ 126,000
2	0%	STWTP Capital Equipment Replacement	250,000	250,000	250,000
3	0%	JGMWTP Capital Equipment Replacement	250,000	250,000	250,000
4	100%	Distribution System Fittings	230,000	230,000	230,000
5	100%	Water Line Upgrade	1,000,000	1,000,000	1,000,000
6	0%	Water Line Replacement/Repair	3,000,000	3,000,000	3,000,000
7	23%	JGMWTP Water Quality Upgrades			
8	100%	JGMWTP Reservoir			
9	50%	New Well Production	500,000	500,000	500,000
10	0%	Enterprise GIS			
11	0%	SCADA Remote Terminal Units (RTU) Replacement			
12	0%	WUD Security Improvements			
13	25%	24" Water Line Upgrade / Replacement Hayden Tank (5th to Forest)			
14	50%	COT Well 6 - Wellhead Treatment System			
15	0%	Water Line Upgrade / Replacement 22nd/24th St. (Hardy-Roosevelt)			
16	0%	Water Line Upgrade / Replacement Margo/Geneva (Fairmont-Hardy)			
17	50%	Water Line Upgrade / Replacement Orange/Lemon/Mariana			
18	0%	STWTP Water Quality Improvement			
19	30%	Well #13 Equipping			
20	0%	Alum Tank Replacement at STWTP			
21	0%	HVAC & Carpet Replacement at all three water facilities	50,000	50,000	50,000
22	0%	NaOCI Cells & Brine Tank Installation at STWTP			
23	75%	Water Line Upgrade / Replacement Rural (Rio Salado-Broadway)			
24	0%	Kyrene Reclaimed Water Transmission/Distribution Line			
25	0%	Environmental Laboratory Facility			
26	0%	JGMWTP Security Fencing/Lighting			
27	0%	STWTP Security Fencing/Lighting			
28	0%	Ken McDonald Golf Course Recharge Project			
29	0%	Sedimentation Basins Grout Liner Replacement			
30	0%	Undergrounding of Water Aqueduct at JGMWTP			
31	0%	Small Meter Replacement Program - 2" and under			
32	0%	WUD Building Remodel			
33	0%	Well 9 Building Security			
34	0%	Well 1 Irrigator Bldg Site			
35	0%	Apache Blvd Waterline Replacement			

**Table A-1
Water Capital Improvement Program**

Line	Growth Allocation	Project	2024/25	2025/26	2026/27
36	25%	Well 14 Improvement			
37	0%	Misc Water Metering Station			
38	0%	STWTP Sed Basin Repair			
39	25%	Integrated Master Plan			250,000
40	25%	Kyrene Rec Water Line Study/Transmission Line			
41	0%	Metering Station Improvements			
42	0%	48th St Meter Station			
43	0%	Eisendrath Property Rehab			
44	100%	JGMWTP Waterline Improvements			
45	0%	Arc Flash Hazard Analysis			
46	25%	Kyrene WRF Plant Expansion & Re-Hab			
47	0%	Kyrene Utility Services Building			
48	0%	Kyrene Reclamation Facility			
49	0%	Utility Billing System			
50		Total Water	\$ 5,406,000	\$ 5,406,000	\$ 5,656,000

Table A-2
Growth Related Water Capital Improvements

Line	Growth Allocation	Project	Total-20 Year Prgm	Prior Years Cost	2007 Carryforward	2007/08	2008/09
1	100%	Distribution System Fittings	\$ 5,580,000	\$ -	\$ -	\$ 500,000	\$ 500,000
2	100%	Water Line Upgrade	17,045,602		195,602	212,500	212,500
3	23%	JGMWTP Water Quality Upgrades	26,844,255	13,593,486		2,769,231	3,461,538
4	100%	JGMWTP Reservoir	13,789,447		13,789,447		
5	50%	New Well Production	6,150,000			450,000	950,000
6	25%	24" Water Line Upgrade / Replacement Hayden Tank (5th to Forest)	589,750			589,750	
7	50%	COT Well 6 - Wellhead Treatment System	1,280,608		52,608	1,228,000	
8	50%	Water Line Upgrade / Replacement Orange/Lemon/Mariana	751,750				751,750
9	30%	Well #13 Equipping	204,000				204,000
10	75%	Water Line Upgrade / Replacement Rural (Rio Salado-Broadway)	2,679,000				
11	25%	Well 14 Improvement	215,713		215,713		
12	25%	Integrated Master Plan	447,059		9,559		62,500
13	25%	Kyrene Rec Water Line Study/Transmission Line	4,762,072	1,675,000	1,262,072	825,000	1,000,000
14	100%	JGMWTP Waterline Improvements	1,440,721		1,440,721		
15	25%	Kyrene WRF Plant Expansion & Re-Hab	267,216		267,216		
16		Total Growth Related Water CIP	\$ 82,047,192	\$ 15,268,486	\$ 17,232,937	\$ 6,574,481	\$ 7,142,288

Table A-2
Growth Related Water Capital Improvements

Line	Growth Allocation	Project	2009/10	2010/11	2011/12	2012/13	2013/14	2014/15
1	100%	Distribution System Fittings	\$ 500,000	\$ 400,000	\$ 230,000	\$ 230,000	\$ 230,000	\$ 230,000
2	100%	Water Line Upgrade	212,500	212,500	1,000,000	1,000,000	1,000,000	1,000,000
3	23%	JGMWTP Water Quality Upgrades	7,020,000					
4	100%	JGMWTP Reservoir						
5	50%	New Well Production	350,000		450,000	450,000	250,000	250,000
6	25%	24" Water Line Upgrade / Replacement Hayden Tank (5th to Forest)						
7	50%	COT Well 6 - Wellhead Treatment System						
8	50%	Water Line Upgrade / Replacement Orange/Lemon/Mariana						
9	30%	Well #13 Equipping						
10	75%	Water Line Upgrade / Replacement Rural (Rio Salado-Broadway)	1,029,000	1,650,000				
11	25%	Well 14 Improvement						
12	25%	Integrated Master Plan			62,500			62,500
13	25%	Kyrene Rec Water Line Study/Transmission Line						
14	100%	JGMWTP Waterline Improvements						
15	25%	Kyrene WRF Plant Expansion & Re-Hab						
16		Total Growth Related Water CIP	\$ 9,111,500	\$ 2,262,500	\$ 1,742,500	\$ 1,680,000	\$ 1,480,000	\$ 1,542,500

Table A-2
Growth Related Water Capital Improvements

Line	Growth Allocation	Project	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21
1	100%	Distribution System Fittings	\$ 230,000	\$ 230,000	\$ 230,000	\$ 230,000	\$ 230,000	\$ 230,000
2	100%	Water Line Upgrade	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
3	23%	JGMWTP Water Quality Upgrades						
4	100%	JGMWTP Reservoir						
5	50%	New Well Production	250,000	250,000	250,000	250,000	250,000	250,000
6	25%	24" Water Line Upgrade / Replacement Hayden Tank (5th to Forest)						
7	50%	COT Well 6 - Wellhead Treatment System						
8	50%	Water Line Upgrade / Replacement Orange/Lemon/Mariana						
9	30%	Well #13 Equipping						
10	75%	Water Line Upgrade / Replacement Rural (Rio Salado-Broadway)						
11	25%	Well 14 Improvement						
12	25%	Integrated Master Plan			62,500			62,500
13	25%	Kyrene Rec Water Line Study/Transmission Line						
14	100%	JGMWTP Waterline Improvements						
15	25%	Kyrene WRF Plant Expansion & Re-Hab						
16		Total Growth Related Water CIP	\$ 1,480,000	\$ 1,480,000	\$ 1,542,500	\$ 1,480,000	\$ 1,480,000	\$ 1,542,500

Table A-2
Growth Related Water Capital Improvements

Line	Growth Allocation	Project	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27
1	100%	Distribution System Fittings	\$ 230,000	\$ 230,000	\$ 230,000	\$ 230,000	\$ 230,000	\$ 230,000
2	100%	Water Line Upgrade	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
3	23%	JGMWTP Water Quality Upgrades						
4	100%	JGMWTP Reservoir						
5	50%	New Well Production	250,000	250,000	250,000	250,000	250,000	250,000
6	25%	24" Water Line Upgrade / Replacement Hayden Tank (5th to Forest)						
7	50%	COT Well 6 - Wellhead Treatment System						
8	50%	Water Line Upgrade / Replacement Orange/Lemon/Mariana						
9	30%	Well #13 Equipping						
10	75%	Water Line Upgrade / Replacement Rural (Rio Salado-Broadway)						
11	25%	Well 14 Improvement						
12	25%	Integrated Master Plan			62,500			62,500
13	25%	Kyrene Rec Water Line Study/Transmission Line						
14	100%	JGMWTP Waterline Improvements						
15	25%	Kyrene WRF Plant Expansion & Re-Hab						
16		Total Growth Related Water CIP	\$ 1,480,000	\$ 1,480,000	\$ 1,542,500	\$ 1,480,000	\$ 1,480,000	\$ 1,542,500



City of Tempe
Water and Wastewater Development Fees

Appendix B

Wastewater Capital Improvement Program



Table B-1
Wastewater Capital Improvement Program

Line	Growth Allocation	Project	Total- 20 Year Program	2007		2007/08	2008/09
				Prior Years Cost	Carryforward		
Wastewater Program Summary							
1	100%	SROG - UP01 - 6.5MGD	\$ 43,763,194	\$ 25,000,000	\$ -	\$ 15,206,600	\$ 3,556,594
2	100%	SROG - UP05 - 3.5MGD	27,537,570	8,000,000		2,031,279	2,971,837
3	100%	SROG - UP10 - 2.3MGD	-				
4	100%	SROG- Regional Capacity Management Facilities	25,000,000			800,000	1,220,000
5	0%	SROG- NonGrowth	55,357,549			3,628,549	6,845,000
6	0%	SROG 2007 Carry Forward	9,500,000				5,500,000
7	100%	Sewerline Upgrades & Extension	9,084,001		334,001	375,000	375,000
8	0%	Sewerline Replacements	9,084,001		334,001	375,000	375,000
9	0%	SAI Rehab - All Phases	14,276,375		3,076,375		
10	100%	SRO 10MGD Diversion (Priest-48th St)	500,000			500,000	
11	100%	College/Curry Replacement/Upgrade Sanitary Sewer	1,200,000			1,200,000	
12	0%	KRWTP Capital Equipment Replacement	4,250,000				50,000
13	0%	Kyrene Rec Plant Shade Screen	60,000				60,000
14	0%	Scottsdale Rd Biofilter Project	960,000				960,000
15	0%	Kyrene Scum Automation	250,000				250,000
16	25%	Sewer Replacement Upsize 5th Street Price to Smith	1,716,500				
17	25%	Sewer Replacement Upsize Scottsdale Road Curry to Gilbert MS	915,000				915,000
18	25%	Sewer Replacement Upsize Smith Rd Apache to University	1,728,700				200,000
19	0%	Irrigation Capital Replacement	-				
20	0%	Catch Basin Retrofit	-				
21	25%	McAlister Sewer Facility Improvement	2,122,078		2,122,078		
22	0%	Marigold Lane Pump Station	231,758		231,758		
23	0%	Prof Aviation Noise Analysis	1,000		1,000		
24	0%	Eisendrath Property Rehab	268,254		268,254		
25	0%	Sewer Upgrade Farmer 12"	356,000		356,000		
26	0%	Rural Road Influent Line	2,000,000		2,000,000		
27	0%	Rural Road Sewer Replacement	162,000		162,000		
28	0%	Gilbert Road Sanitary Sewer	162,863		162,863		
29	0%	Industrial Grant Program	229,470		229,470		
30	25%	Kyrene Rec Water Line Study	-				
31	0%	Kyrene Utility Services Building	462,611		462,611		
32	0%	Kyrene Reclamation Facility	20,573		20,573		
33	25%	Kyrene WRF Plant Expansion & Re-Hab	1,985,030		1,985,030		
34	0%	Kyrene Reclaimed Water Transmission/Distribution Line	-				
35	50%	Integrated Master Plan	1,750,000				250,000
36	0%	Utility Billing System	955,000				355,000
37		Total Wastewater	\$ 215,889,526	\$ 33,000,000	\$ 11,746,013	\$ 24,116,428	\$ 23,883,431

**Table B-1
Wastewater Capital Improvement Program**

Line	Growth Allocation	Project	2009/10	2010/11	2011/12	2012/13	2013/14	2014/15
Wastewater Program Summary								
1	100%	SROG - UP01 - 6.5MGD	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2	100%	SROG - UP05 - 3.5MGD	8,647,704	5,886,750				
3	100%	SROG - UP10 - 2.3MGD						
4	100%	SROG- Regional Capacity Management Facilities	340,000	6,500,000	6,580,000	540,000	6,070,000	2,950,000
5	0%	SROG- NonGrowth	1,113,000	610,000	5,121,000	3,990,000	7,350,000	8,200,000
6	0%	SROG 2007 Carry Forward	1,000,000	1,000,000	1,000,000	1,000,000		
7	100%	Sewerline Upgrades & Extension	375,000	375,000	1,000,000	1,000,000	375,000	375,000
8	0%	Sewerline Replacements	375,000	375,000	1,000,000	1,000,000	375,000	375,000
9	0%	SAI Rehab - All Phases	1,000,000	1,000,000	9,200,000			
10	100%	SRO 10MGD Diversion (Priest-48th St)						
11	100%	College/Curry Replacement/Upgrade Sanitary Sewer						
12	0%	KRWTP Capital Equipment Replacement	100,000	150,000	200,000	250,000	250,000	250,000
13	0%	Kyrene Rec Plant Shade Screen						
14	0%	Scottsdale Rd Biofilter Project						
15	0%	Kyrene Scum Automation						
16	25%	Sewer Replacement Upsize 5th Street Price to Smith	172,250	1,544,250				
17	25%	Sewer Replacement Upsize Scottsdale Road Curry to Gilbert MS						
18	25%	Sewer Replacement Upsize Smith Rd Apache to University	1,528,700					
19	0%	Irrigation Capital Replacement						
20	0%	Catch Basin Retrofit						
21	25%	McAlister Sewer Facility Improvement						
22	0%	Marigold Lane Pump Station						
23	0%	Prof Aviation Noise Analysis						
24	0%	Eisendrath Property Rehab						
25	0%	Sewer Upgrade Farmer 12"						
26	0%	Rural Road Influent Line						
27	0%	Rural Road Sewer Replacement						
28	0%	Gilbert Road Sanitary Sewer						
29	0%	Industrial Grant Program						
30	25%	Kyrene Rec Water Line Study						
31	0%	Kyrene Utility Services Building						
32	0%	Kyrene Reclamation Facility						
33	25%	Kyrene WRF Plant Expansion & Re-Hab						
34	0%	Kyrene Reclaimed Water Transmission/Distribution Line						
35	50%	Integrated Master Plan			250,000			250,000
36	0%	Utility Billing System	600,000					
37		Total Wastewater	\$ 15,251,654	\$ 17,441,000	\$ 24,351,000	\$ 7,780,000	\$ 14,420,000	\$ 12,400,000

**Table B-1
Wastewater Capital Improvement Program**

Line	Growth Allocation	Project	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21
Wastewater Program Summary								
1	100%	SROG - UP01 - 6.5MGD	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2	100%	SROG - UP05 - 3.5MGD						
3	100%	SROG - UP10 - 2.3MGD						
4	100%	SROG- Regional Capacity Management Facilities						
5	0%	SROG- NonGrowth	9,000,000	9,500,000				
6	0%	SROG 2007 Carry Forward						
7	100%	Sewerline Upgrades & Extension	375,000	375,000	375,000	375,000	375,000	375,000
8	0%	Sewerline Replacements	375,000	375,000	375,000	375,000	375,000	375,000
9	0%	SAI Rehab - All Phases						
10	100%	SRO 10MGD Diversion (Priest-48th St)						
11	100%	College/Curry Replacement/Upgrade Sanitary Sewer						
12	0%	KRWTP Capital Equipment Replacement	250,000	250,000	250,000	250,000	250,000	250,000
13	0%	Kyrene Rec Plant Shade Screen						
14	0%	Scottsdale Rd Biofilter Project						
15	0%	Kyrene Scum Automation						
16	25%	Sewer Replacement Upsize 5th Street Price to Smith						
17	25%	Sewer Replacement Upsize Scottsdale Road Curry to Gilbert MS						
18	25%	Sewer Replacement Upsize Smith Rd Apache to University						
19	0%	Irrigation Capital Replacement						
20	0%	Catch Basin Retrofit						
21	25%	McAlister Sewer Facility Improvement						
22	0%	Marigold Lane Pump Station						
23	0%	Prof Aviation Noise Analysis						
24	0%	Eisendrath Property Rehab						
25	0%	Sewer Upgrade Farmer 12"						
26	0%	Rural Road Influent Line						
27	0%	Rural Road Sewer Replacement						
28	0%	Gilbert Road Sanitary Sewer						
29	0%	Industrial Grant Program						
30	25%	Kyrene Rec Water Line Study						
31	0%	Kyrene Utility Services Building						
32	0%	Kyrene Reclamation Facility						
33	25%	Kyrene WRF Plant Expansion & Re-Hab						
34	0%	Kyrene Reclaimed Water Transmission/Distribution Line						
35	50%	Integrated Master Plan			250,000			250,000
36	0%	Utility Billing System						
37		Total Wastewater	\$ 10,000,000	\$ 10,500,000	\$ 1,250,000	\$ 1,000,000	\$ 1,000,000	\$ 1,250,000

**Table B-1
Wastewater Capital Improvement Program**

Line	Growth Allocation	Project	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27
Wastewater Program Summary								
1	100%	SROG - UP01 - 6.5MGD	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2	100%	SROG - UP05 - 3.5MGD						
3	100%	SROG - UP10 - 2.3MGD						
4	100%	SROG- Regional Capacity Management Facilities						
5	0%	SROG- NonGrowth						
6	0%	SROG 2007 Carry Forward						
7	100%	Sewerline Upgrades & Extension	375,000	375,000	375,000	375,000	375,000	375,000
8	0%	Sewerline Replacements	375,000	375,000	375,000	375,000	375,000	375,000
9	0%	SAI Rehab - All Phases						
10	100%	SRO 10MGD Diversion (Priest-48th St)						
11	100%	College/Curry Replacement/Upgrade Sanitary Sewer						
12	0%	KRWTP Capital Equipment Replacement	250,000	250,000	250,000	250,000	250,000	250,000
13	0%	Kyrene Rec Plant Shade Screen						
14	0%	Scottsdale Rd Biofilter Project						
15	0%	Kyrene Scum Automation						
16	25%	Sewer Replacement Upsize 5th Street Price to Smith						
17	25%	Sewer Replacement Upsize Scottsdale Road Curry to Gilbert MS						
18	25%	Sewer Replacement Upsize Smith Rd Apache to University						
19	0%	Irrigation Capital Replacement						
20	0%	Catch Basin Retrofit						
21	25%	McAlister Sewer Facility Improvement						
22	0%	Marigold Lane Pump Station						
23	0%	Prof Aviation Noise Analysis						
24	0%	Eisendrath Property Rehab						
25	0%	Sewer Upgrade Farmer 12"						
26	0%	Rural Road Influent Line						
27	0%	Rural Road Sewer Replacement						
28	0%	Gilbert Road Sanitary Sewer						
29	0%	Industrial Grant Program						
30	25%	Kyrene Rec Water Line Study						
31	0%	Kyrene Utility Services Building						
32	0%	Kyrene Reclamation Facility						
33	25%	Kyrene WRF Plant Expansion & Re-Hab						
34	0%	Kyrene Reclaimed Water Transmission/Distribution Line						
35	50%	Integrated Master Plan			250,000			250,000
36	0%	Utility Billing System						
37		Total Wastewater	\$ 1,000,000	\$ 1,000,000	\$ 1,250,000	\$ 1,000,000	\$ 1,000,000	\$ 1,250,000

Table B-2
Growth Related Wastewater Capital Improvement Program

Line	Growth Allocation	Project	Total- 20 Year Program	2007		2007/08	2008/09	2009/10
				Prior Years Cost	Carryforward			
1	100%	SROG - UP01 - 6.5MGD	\$ 43,763,194	\$ 25,000,000	\$ -	\$ 15,206,600	\$ 3,556,594	\$ -
2	100%	SROG - UP05 - 3.5MGD	27,537,570	8,000,000		2,031,279	2,971,837	8,647,704
3	100%	SROG - UP10 - 2.3MGD	-					
4	100%	SROG- Regional Capacity Management Facilities	25,000,000			800,000	1,220,000	340,000
5	100%	Sewerline Upgrades & Extension	9,084,001		334,001	375,000	375,000	375,000
6	100%	SRO 10MGD Diversion (Priest-48th St)	500,000			500,000		
7	100%	College/Curry Replacement/Upgrade Sanitary Sewer	1,200,000			1,200,000		
8	25%	Sewer Replacement Upsize 5th Street Price to Smith	429,125					43,063
9	25%	Sewer Replacement Upsize Scottsdale Road Curry to Gilbert MS	228,750				228,750	
10	25%	Sewer Replacement Upsize Smith Rd Apache to University	432,175				50,000	382,175
11	25%	McAlister Sewer Facility Improvement	530,520		530,520			
12	25%	Kyrene Rec Water Line Study						
13	25%	Kyrene WRF Plant Expansion & Re-Hab	496,257		496,257			
14	50%	Integrated Master Plan	875,000				125,000	
15		Total Growth Related Wastewater CIP	\$ 110,076,591	\$ 33,000,000	\$ 1,360,777	\$ 20,112,879	\$ 8,527,181	\$ 9,787,942

**Table B-2
Growth Related Wastewater Capital Improvement Program**

Line	Growth Allocation	Project	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16
1	100%	SROG - UP01 - 6.5MGD	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2	100%	SROG - UP05 - 3.5MGD	5,886,750					
3	100%	SROG - UP10 - 2.3MGD						
4	100%	SROG- Regional Capacity Management Facilities	6,500,000	6,580,000	540,000	6,070,000	2,950,000	
5	100%	Sewerline Upgrades & Extension	375,000	1,000,000	1,000,000	375,000	375,000	375,000
6	100%	SRO 10MGD Diversion (Priest-48th St)						
7	100%	College/Curry Replacement/Upgrade Sanitary Sewer						
8	25%	Sewer Replacement Upsize 5th Street Price to Smith	386,063					
9	25%	Sewer Replacement Upsize Scottsdale Road Curry to Gilbert MS						
10	25%	Sewer Replacement Upsize Smith Rd Apache to University						
11	25%	McAlister Sewer Facility Improvement						
12	25%	Kyrene Rec Water Line Study						
13	25%	Kyrene WRF Plant Expansion & Re-Hab						
14	50%	Integrated Master Plan		125,000			125,000	
15		Total Growth Related Wastewater CIP	\$ 13,147,813	\$ 7,705,000	\$ 1,540,000	\$ 6,445,000	\$ 3,450,000	\$ 375,000

**Table B-2
Growth Related Wastewater Capital Improvement Program**

Line	Growth Allocation	Project	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22
1	100%	SROG - UP01 - 6.5MGD	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2	100%	SROG - UP05 - 3.5MGD						
3	100%	SROG - UP10 - 2.3MGD						
4	100%	SROG- Regional Capacity Management Facilities						
5	100%	Sewerline Upgrades & Extension	375,000	375,000	375,000	375,000	375,000	375,000
6	100%	SRO 10MGD Diversion (Priest-48th St)						
7	100%	College/Curry Replacement/Upgrade Sanitary Sewer						
8	25%	Sewer Replacement Upsize 5th Street Price to Smith						
9	25%	Sewer Replacement Upsize Scottsdale Road Curry to Gilbert MS						
10	25%	Sewer Replacement Upsize Smith Rd Apache to University						
11	25%	McAlister Sewer Facility Improvement						
12	25%	Kyrene Rec Water Line Study						
13	25%	Kyrene WRF Plant Expansion & Re-Hab						
14	50%	Integrated Master Plan		125,000			125,000	
15		Total Growth Related Wastewater CIP	\$ 375,000	\$ 500,000	\$ 375,000	\$ 375,000	\$ 500,000	\$ 375,000

**Table B-2
Growth Related Wastewater Capital Improvement Program**

Line	Growth Allocation	Project	2022/23	2023/24	2024/25	2025/26	2026/27
1	100%	SROG - UP01 - 6.5MGD	\$ -	\$ -	\$ -	\$ -	\$ -
2	100%	SROG - UP05 - 3.5MGD					
3	100%	SROG - UP10 - 2.3MGD					
4	100%	SROG- Regional Capacity Management Facilities					
5	100%	Sewerline Upgrades & Extension	375,000	375,000	375,000	375,000	375,000
6	100%	SRO 10MGD Diversion (Priest-48th St)					
7	100%	College/Curry Replacement/Upgrade Sanitary Sewer					
8	25%	Sewer Replacement Upsize 5th Street Price to Smith					
9	25%	Sewer Replacement Upsize Scottsdale Road Curry to Gilbert MS					
10	25%	Sewer Replacement Upsize Smith Rd Apache to University					
11	25%	McAlister Sewer Facility Improvement					
12	25%	Kyrene Rec Water Line Study					
13	25%	Kyrene WRF Plant Expansion & Re-Hab					
14	50%	Integrated Master Plan		125,000			125,000
15		Total Growth Related Wastewater CIP	\$ 375,000	\$ 500,000	\$ 375,000	\$ 375,000	\$ 500,000