A How-to Guide for submitting a

WATER CONSERVATION PLAN

WHO IS REQUIRED TO SUBMIT?

- Entities required to submit a Water Conservation Plan are:
  - Those with financial assistance of $500,000 or greater from the Texas Water Development Board.
  - Those with 3,300 or more service connections.
  - Those with a non-irrigation surface water right of 1,000 ac/ft or more from the Texas Commission on Environmental Quality.
  - Those with an irrigation surface water right of 10,000 ac/ft or more from the Texas Commission on Environmental Quality.

WHAT ARE YOU REQUIRED TO SUBMIT?

- A Water Conservation Plan (WCP)
- A Utility Profile (UP)
- A Drought Contingency Plan (DCP)
- A Water Conservation Plan Annual Report (AR)

THE WATER CONSERVATION PLAN (WCP)

- Is a strategy for:
  - Reducing the consumption of water
  - Reducing the loss of water
  - Improving the efficiency of the use of water
  - Increasing the reuse of water
- Contains Best Management Practice's (BMP's) to meet identified targets and goals.
- Should be reviewed and updated every 5 years.

THE UTILITY PROFILE (UP)

- Is a part of the WCP.
- Assists with the development of your WCP to ensure important information is considered.
- Evaluates your water and wastewater system to identify potential targets and goals for water conservation.
- Should be reviewed and updated every 5 years.

THE DROUGHT CONTINGENCY PLAN (DCP)

- Is a strategy for responding to temporary water supply shortages.
- Must include quantified and specific targets for water reduction during the water shortage.
- Should be reviewed and updated every 5 years.
- Can be a part of your WCP.

THE ANNUAL REPORT (AR)

- Details progress in the implementation of the minimum requirements of your WCP.
- Is submitted annually by May 1st .
- There are separate forms for water suppliers and non-water suppliers. To access these forms, visit the Texas Water Development Municipal Web site.

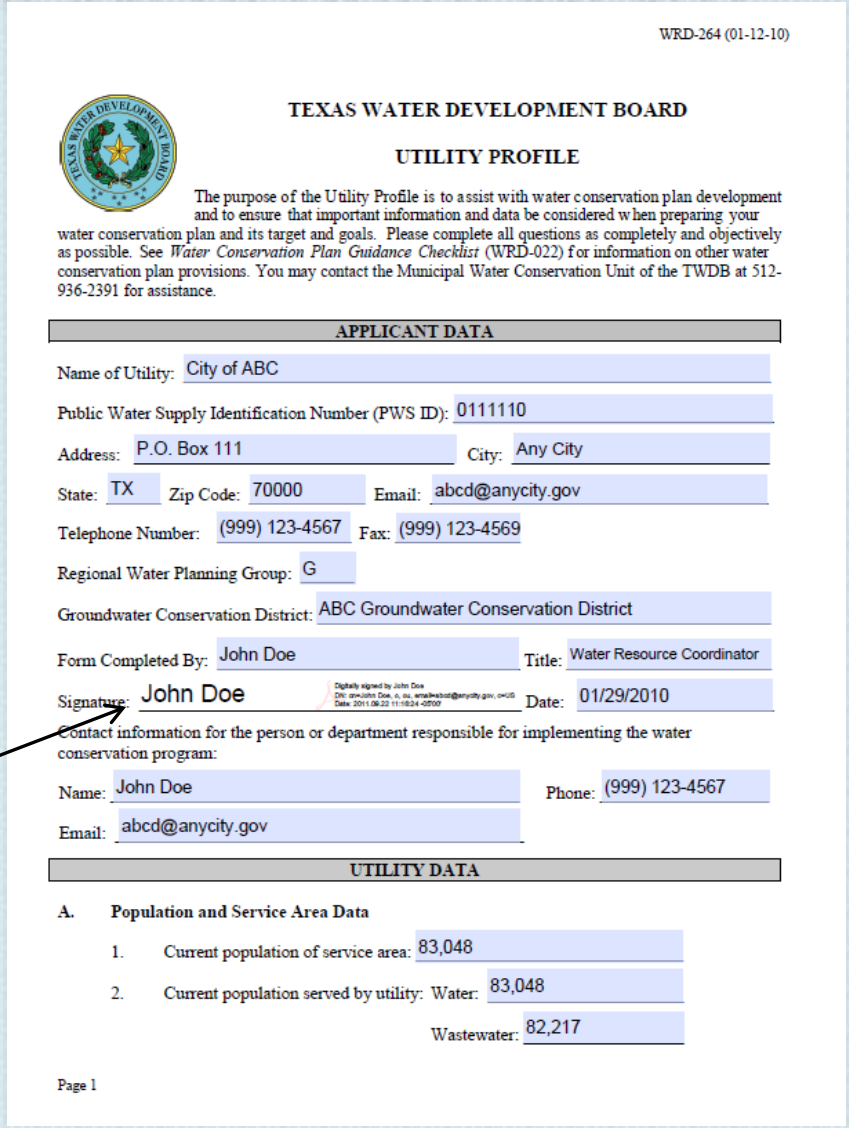
WATER CONSERVATION PLAN REQUIREMENTS

- A1) Complete a Utility Profile (UP)
  - The UP should be submitted using the writable pdf form.

Utility information

Digitally sign form

Population information



WRD-264 (01-12-10)

TEXAS WATER DEVELOPMENT BOARD

UTILITY PROFILE

The purpose of the Utility Profile is to assist with water conservation plan development and to ensure that important information and data be considered when preparing your water conservation plan and its target and goals. Please complete all questions as completely and objectively as possible. See *Water Conservation Plan Guidance Checklist* (WRD-022) for information on other water conservation plan provisions. You may contact the Municipal Water Conservation Unit of the TWDB at 512-936-2391 for assistance.

APPLICANT DATA

Name of Utility: City of ABC

Public Water Supply Identification Number (PWS ID): 0111110

Address: P.O. Box 111 City: Any City

State: TX Zip Code: 70000 Email: abcd@anycity.gov

Telephone Number: (999) 123-4567 Fax: (999) 123-4569

Regional Water Planning Group: G

Groundwater Conservation District: ABC Groundwater Conservation District

Form Completed By: John Doe Title: Water Resource Coordinator

Signature: John Doe Digitally signed by John Doe DN: cn=John Doe, o, ou, email=abcd@anycity.gov, c=US Date: 2011.09.22 11:18:24 -05'00' Date: 01/29/2010

Contact information for the person or department responsible for implementing the water conservation program:

Name: John Doe Phone: (999) 123-4567

Email: abcd@anycity.gov

UTILITY DATA

A. Population and Service Area Data

1. Current population of service area: 83,048
2. Current population served by utility: Water: 83,048

Wastewater: 82,217

Page 1

UTILITY PROFILE CONTINUED

Population information →

Describe the break down of active connections. Make sure to include those that are metered as well as those that are not metered. Highlighted fields auto-calculate. →

Total new connections →

3. Population served by water utility for the previous five years starting with the most recent year:

Year	Population
2011	83,048
2010	80,495
2009	76,580
2008	73,714
2007	71,528

4. Projected population for service area in the following decades:

Year	Population
2010	85,539
2020	103,665
2030	124,772
2040	145,879
2050	166,985

5. List source(s)/method(s) for the calculation of current and projected population:

2000 Census Population Count and estimates from Any City Planning and Development Services Department, based on Certificates of Occupancy. Population figures listed above do not include the approximately 10,000 students living on the University campus who are served by the University's water system.

B. Active Connections

1. Current number of active connections by user type. If not a separate classification, check whether multi-family service is counted as **Residential** (•) or **Commercial** ( )

Water User Type*	Metered	Un-metered	Total
Residential Single Family	20,313	0	20,313
Residential Multi-family	14,422	0	14,422
Commercial/Institutional	2,514	0	2,514
Industrial	0	0	0
Other (please describe):			
Sprinkler only (Res & Comm'l)	798	0	798

* See Appendix A #1.

2. List the net number of new connections per year for most recent three years:

Water User Type*	2011	2010	2009
Residential Single Family	255	13,605	1,203
Residential Multi-family	-111	-14,533	0
Commercial/Institutional	682	661	36
Industrial	0	0	0
Other (please describe):			
Sprinkler only (Res & Comm'l)	34	764	0

* See Appendix A #1.

Page 2

UTILITY PROFILE CONTINUED

List the top 5 high volume users along with their total water use for the current year.

Provide data of your system.

List the total water produced for the previous five years, in gallons. Highlighted fields auto-calculate.

C. High Volume Customers

List annual water use for the five highest volume retail and wholesale customers.
Please indicate if treated or raw water delivery.

Customer	Water User Type*	Annual Water Use (in gallons)	Treated	Raw
ABC Special Utility District	Wholesale	54,505,000	◉	○
ABC Corp.	Retail	40,026,000	◉	○
ABC Development Corp.	Retail	28,262,000	◉	○
Veterans Park	Retail	23,056,000	◉	○
ABC Medical Center	Retail	22,882,000	◉	○

* See Appendix A #1

D. Water Supply System

1. Design daily capacity of system: 26,000,000 gallons per day
2. Storage Capacity: Elevated 5,000,000 gallons per day
   Ground 8,000,000 gallons per day
3. If surface water, do you recycle filter backwash to the head of the plant?
   Yes ○ No ◉. If yes, approximately _____ gallons per day.

E. Water Accounting Data

1. Amount of water use in gallons for previous five years.
   Please indicate whether: Treated Water ◉ or Raw Water ○

YEAR	2011	2010	2009	2008	2007
January	264,071,979	248,965,975	241,543,357	266,999,674	215,855,752
February	271,045,779	240,521,942	234,056,287	225,402,719	207,601,706
March	308,727,056	269,860,774	281,826,428	275,218,908	226,119,308
April	311,832,690	320,068,884	285,935,355	342,339,125	301,465,045
May	352,699,298	363,034,489	293,285,758	368,117,409	378,782,347
June	573,892,626	570,057,483	320,133,903	443,251,573	477,021,324
July	616,865,451	611,904,673	290,825,504	430,772,481	469,074,904
August	554,971,893	477,422,248	392,564,785	528,292,812	430,468,428
September	396,571,735	427,579,277	414,919,644	459,372,329	522,748,397
October	278,593,701	395,900,099	396,767,068	340,157,660	441,126,027
November	262,714,923	308,209,645	317,564,943	282,551,413	313,193,918
December	230,798,529	256,257,609	244,179,051	237,516,609	252,856,872
TOTAL	4,422,785,660	4,489,783,098	3,713,602,083	4,199,992,712	4,236,314,028

UTILITY PROFILE CONTINUED

- Highlighted fields auto-calculate.

List all water sold for the past five years.

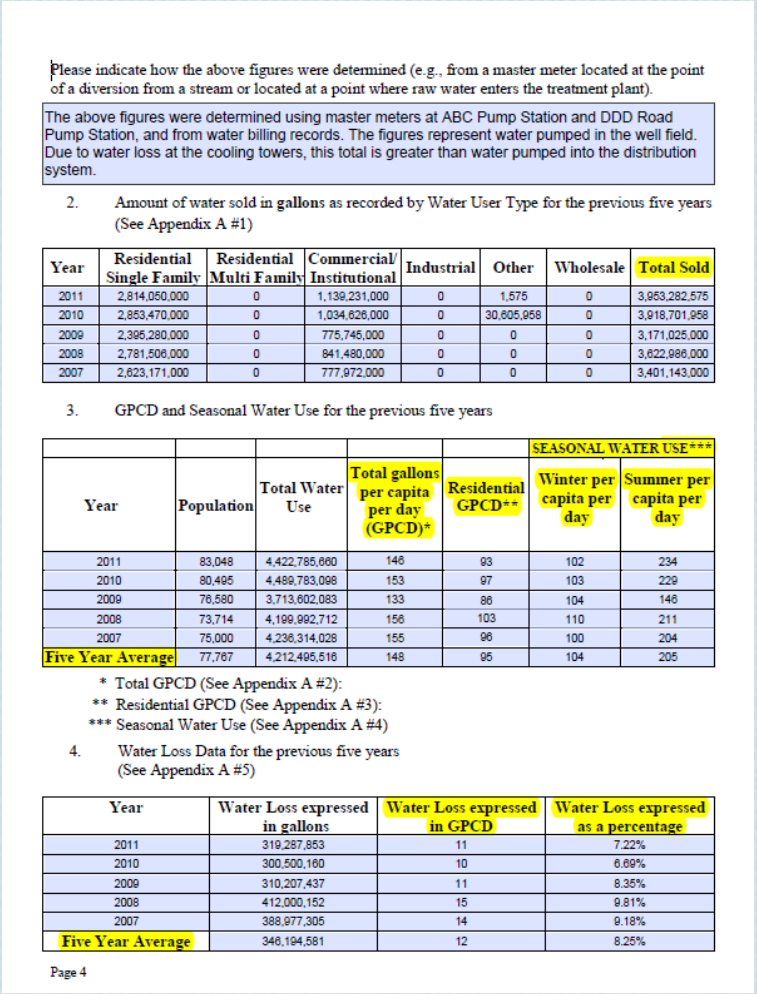
Residential: Single and multi-family
Commercial/Institutional: Restaurants, retail, office, airports, schools, hospitals
Industrial: Manufacturing
Wholesale: Deliveries to successive customers
Other: Uses not included in above categories

Calculate the total GPCD for the previous five years. Include separate numbers for Residential GPCD as well as seasonal GPCD.

Total GPCD = ((total water produced - wholesale) ÷ population served) ÷ 365.
Residential GPCD = ((single family + multi-family) ÷ population served) ÷ 365.
Winter GPCD = ((December + January + February) ÷ winter population) ÷ 90.
Summer GPCD = ((June + July + August) ÷ summer population) ÷ 90.

Calculate water loss in gallons, GPCD, and percentage for the previous five years.

Water loss data is your total apparent and real losses which should be pulled from your water loss audit worksheet.
Water loss in GPCD = (total water loss ÷ population served) ÷ 365.
Water loss in percentage = water loss ÷ total water produced.



Please indicate how the above figures were determined (e.g., from a master meter located at the point of a diversion from a stream or located at a point where raw water enters the treatment plant).

The above figures were determined using master meters at ABC Pump Station and DDD Road Pump Station, and from water billing records. The figures represent water pumped in the well field. Due to water loss at the cooling towers, this total is greater than water pumped into the distribution system.

2. Amount of water sold in **gallons** as recorded by Water User Type for the previous five years (See Appendix A #1)

Year	Residential Single Family	Residential Multi Family	Commercial/ Institutional	Industrial	Other	Wholesale	Total Sold
2011	2,814,050,000	0	1,139,231,000	0	1,575	0	3,953,282,575
2010	2,853,470,000	0	1,034,626,000	0	30,605,958	0	3,918,701,958
2009	2,396,280,000	0	775,745,000	0	0	0	3,171,025,000
2008	2,781,506,000	0	841,480,000	0	0	0	3,622,986,000
2007	2,623,171,000	0	777,972,000	0	0	0	3,401,143,000

3. GPCD and Seasonal Water Use for the previous five years

					SEASONAL WATER USE***	
Year	Population	Total Water Use	Total gallons per capita per day (GPCD)*	Residential GPCD**	Winter per capita per day	Summer per capita per day
2011	83,048	4,422,785,660	146	93	102	234
2010	80,495	4,489,783,098	153	97	103	229
2009	76,580	3,713,602,083	133	86	104	146
2008	73,714	4,199,992,712	156	103	110	211
2007	75,000	4,236,314,028	155	96	100	204
Five Year Average	77,767	4,212,495,516	148	95	104	205

* Total GPCD (See Appendix A #2):
** Residential GPCD (See Appendix A #3):
*** Seasonal Water Use (See Appendix A #4)

4. Water Loss Data for the previous five years (See Appendix A #5)

Year	Water Loss expressed in gallons	Water Loss expressed in GPCD	Water Loss expressed as a percentage
2011	319,287,853	11	7.22%
2010	300,500,160	10	6.69%
2009	310,207,437	11	8.35%
2008	412,000,152	15	9.81%
2007	388,977,305	14	9.18%
Five Year Average	346,194,581	12	8.25%

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UTILITY PROFILE CONTINUED

Record and calculate the Peak Day use and Average Day use for the previous 5 years. Highlighted fields auto-calculate.

Peak Day to Average Day ratio = (peak daily pumpage ÷ average daily pumpage) ÷ 365.

Estimate water supply requirements for the next 10 years.

5. Peak Day Use (in **gallons**) to Average Daily Use (in **gallons**) Ratio for the previous five years (See Appendix A #6)

Year	Average Daily Use	Peak Day Use	Ratio
2011	12,117,221	24,719,000	2.04
2010	12,300,776	22,896,805	1.86
2009	10,174,252	16,481,495	1.62
2008	11,506,829	20,423,624	1.77
2007	11,606,340	20,628,145	1.78

F. Projected Demands

Estimate water supply requirements for at least the next ten years using population trends, historical water use, and economic growth, etc.

Year	Population	Water Demand (in gallons)
2013	90,610	6,070,000
2016	99,011	6,436,000
2018	105,041	6,692,000
2023	121,772	7,378,000
2028	141,167	8,156,000

Indicate sources of data and how projected water demands were determined. Attach additional sheets if necessary.

Data in Item F above are from the report, "Assessment of Water Demands, Needs, and Alternative Supplies for the Any City" prepared by AAA Engineering, April 2008. Future water demands were calculated using population projections and estimated per capita water use, and factoring in projected land uses and associated water use. Population projections used City population figures, US Census 2000 figures, building permits, and occupancy rates. Water demand figures represent scenario #3, which assumes 1% annual reduction in GPCD, conservation, and reuse.

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UTILITY PROFILE CONTINUED

Wastewater and reuse data →

Calculate treated wastewater volume in gallons, for the previous five years. Highlighted fields auto-calculate. →

Submit form by email by pressing this button. You can save the document by selecting "Save As" from the File drop down menu or print the form for your records. →

G. Wastewater System Data

1. Design capacity of wastewater treatment plant(s): 11,500,000 **gallons per day**
2. Is treated effluent used for:

Use	Total Annual Volume (in gallons)
On-site irrigation	0
Plant wash down	0
Chlorination/de-chlorination	0
Industrial	0
Landscape irrigation (parks, golf courses)	0
Agricultural	0
Other (please describe):	
	0

Could treated effluent be substituted for certain potable water now being used? **Yes** ◉ **No** ○

H. Wastewater Data for Service Area

1. Percent of water service area served by wastewater system: 99 %
2. Monthly wastewater volume in **gallons**, treated for previous five years.

YEAR	2011	2010	2009	2008	2007
January	188,840,570	192,763,842	210,813,449	171,476,003	184,621,461
February	191,429,933	203,204,738	175,339,071	165,502,395	198,376,565
March	210,921,694	208,141,694	205,832,961	179,064,285	197,257,667
April	219,294,378	205,429,107	191,285,167	180,296,258	188,335,092
May	200,449,920	198,842,333	198,895,008	177,202,258	178,525,584
June	185,276,313	189,009,983	191,036,770	169,988,827	168,825,911
July	201,021,251	192,727,013	194,878,328	178,131,882	181,075,478
August	201,992,576	217,445,103	202,762,245	186,442,029	190,086,405
September	219,029,483	227,152,931	207,442,559	197,665,554	197,044,745
October	235,982,410	215,751,507	207,553,082	221,829,867	195,631,566
November	206,571,727	201,936,985	200,121,356	185,194,508	183,105,543
December	195,394,964	183,762,060	187,413,752	184,309,636	167,069,458
TOTAL	2,456,205,219	2,436,167,296	2,373,373,748	2,197,103,502	2,229,955,475

Submit Form by Email | Print Form | Reset Form

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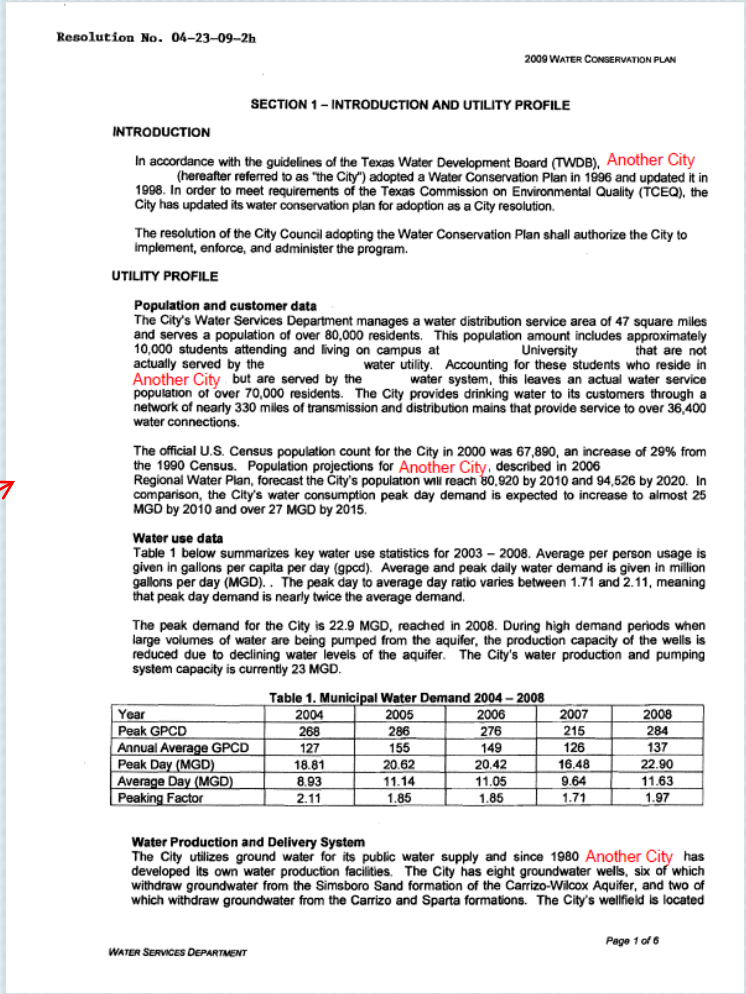
WATER CONSERVATION PLAN REQUIREMENTS

- A2) Summarize the Utility Profile

Utility Profile Summary



Resolution No. 04-23-09-2h

2009 WATER CONSERVATION PLAN

SECTION 1 – INTRODUCTION AND UTILITY PROFILE

INTRODUCTION

In accordance with the guidelines of the Texas Water Development Board (TWDB), Another City (hereafter referred to as "the City") adopted a Water Conservation Plan in 1996 and updated it in 1998. In order to meet requirements of the Texas Commission on Environmental Quality (TCEQ), the City has updated its water conservation plan for adoption as a City resolution.

The resolution of the City Council adopting the Water Conservation Plan shall authorize the City to implement, enforce, and administer the program.

UTILITY PROFILE

Population and customer data

The City's Water Services Department manages a water distribution service area of 47 square miles and serves a population of over 80,000 residents. This population amount includes approximately 10,000 students attending and living on campus at University that are not actually served by the water utility. Accounting for these students who reside in Another City but are served by the water system, this leaves an actual water service population of over 70,000 residents. The City provides drinking water to its customers through a network of nearly 330 miles of transmission and distribution mains that provide service to over 36,400 water connections.

The official U.S. Census population count for the City in 2000 was 67,890, an increase of 29% from the 1990 Census. Population projections for Another City, described in 2006 Regional Water Plan, forecast the City's population will reach 80,920 by 2010 and 94,526 by 2020. In comparison, the City's water consumption peak day demand is expected to increase to almost 25 MGD by 2010 and over 27 MGD by 2015.

Water use data

Table 1 below summarizes key water use statistics for 2003 – 2008. Average per person usage is given in gallons per capita per day (gpcd). Average and peak daily water demand is given in million gallons per day (MGD). . The peak day to average day ratio varies between 1.71 and 2.11, meaning that peak day demand is nearly twice the average demand.

The peak demand for the City is 22.9 MGD, reached in 2008. During high demand periods when large volumes of water are being pumped from the aquifer, the production capacity of the wells is reduced due to declining water levels of the aquifer. The City's water production and pumping system capacity is currently 23 MGD.

Table 1. Municipal Water Demand 2004 – 2008

Year	2004	2005	2006	2007	2008
Peak GPCD	268	286	276	215	284
Annual Average GPCD	127	155	149	126	137
Peak Day (MGD)	18.81	20.62	20.42	16.48	22.90
Average Day (MGD)	8.93	11.14	11.05	9.64	11.63
Peaking Factor	2.11	1.85	1.85	1.71	1.97

Water Production and Delivery System

The City utilizes ground water for its public water supply and since 1980 Another City has developed its own water production facilities. The City has eight groundwater wells, six of which withdraw groundwater from the Simsboro Sand formation of the Carrizo-Wilcox Aquifer, and two of which withdraw groundwater from the Carrizo and Sparta formations. The City's wellfield is located

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WATER SERVICES DEPARTMENT

WATER CONSERVATION PLAN REQUIREMENTS

- B) Include 5- and 10-year targets that are specific and that quantify water savings. Also, include goals for water loss and municipal use in GPCD.

Specific 5- and 10- year goals

1. Specific, Quantified 5 & 10-Year Targets

Projected Average Day Savings from Water Conservation*

	Projected Population		Projected Pumpage without additional Conservation (MGD)		Projected Savings	Projected Pumpage with Conservation and Reuse (MGD)		Projected Gallons Per Capita Per Day (GPCD) with Conservation and Reuse (MGD)	
Year	Total (Retail + Wholesale)	Retail	Total	Retail Non-Industrial	Conservation and Reuse (MGD)	Total	Retail Non-Industrial	Total	Retail Non-Industrial
2009	862,342	818.34	156.84	136.5	9.87	146.97	126.66	170.43	154.78
2014	943,920	899,920	171.11	149	21.99	147.14	126.96	156	141.08
2019	1,032,537	988,337	186.57	162.4	29.73	154.86	132.68	149.95	134.24

* Note- Retail, Non-Industrial Projections do not include wholesale consumption or consumption by large industrial customers. Retail, Non-Industrial GPCD is calculated based on retail population; total pumpage includes population in wholesale districts.

Of the projected conservation and reuse savings, 3.68 MGD of the projected savings in 2009 is attributed to the expansion of the reclaimed system through Capital Improvement Projects. Additional planned reclaimed expansions are expected to contribute 20.01 MGD of savings in 2014 and 27.75 in 2019. Reclaimed water projects specifically authorized through the 2007 Water Conservation Task Force recommendations are under construction, with projected savings of 1.98 MGD in 2014 and 2019.

Water Loss Goals

Another City is undertaking a comprehensive effort to reduce unaccounted-for water, and to improve the quality of data in water loss estimates. It is expected that water loss percentages will fluctuate annually with weather and demand conditions, and that some fluctuation will occur as a result of improved data collection. Another City intends to reduce its percentage of lost water as follows:

Year	% Total Loss (Real and Apparent)
FY 2009	not more than 12.0%
FY 2014	not more than 11.5%
FY 2019	not more than 11.0%

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5- AND 10-YEAR TARGETS AND GOALS

Use these tables in your WCP to show 5- and 10-year goals for GPCD and water loss.

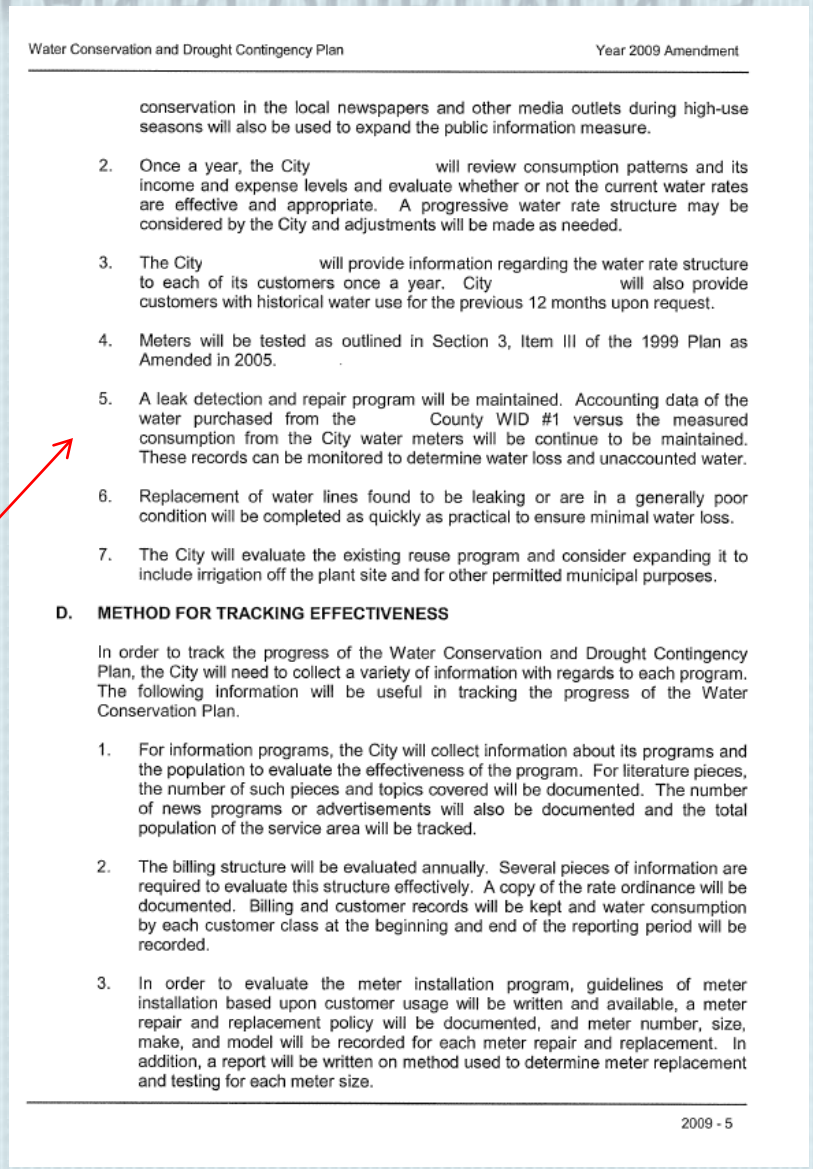
Description	Current Average (GPCD)	5-year Goal (GPCD)	10-year Goal (GPCD)
Total GPCD			
Water Conservation Goals			

Description	Current Average	5-year Goal	10-year Goal
Water Loss Goals (GPCD)			
Water Loss Goals (%)			

WATER CONSERVATION PLAN REQUIREMENTS

- C) Include a schedule for implementing your WCP.
  - The schedule can be in phases based on your activity or BMP's.

Implementation schedule



Water Conservation and Drought Contingency Plan Year 2009 Amendment

conservation in the local newspapers and other media outlets during high-use seasons will also be used to expand the public information measure.

2. Once a year, the City will review consumption patterns and its income and expense levels and evaluate whether or not the current water rates are effective and appropriate. A progressive water rate structure may be considered by the City and adjustments will be made as needed.

3. The City will provide information regarding the water rate structure to each of its customers once a year. City will also provide customers with historical water use for the previous 12 months upon request.

4. Meters will be tested as outlined in Section 3, Item III of the 1999 Plan as Amended in 2005.

5. A leak detection and repair program will be maintained. Accounting data of the water purchased from the County WID #1 versus the measured consumption from the City water meters will be continue to be maintained. These records can be monitored to determine water loss and unaccounted water.

6. Replacement of water lines found to be leaking or are in a generally poor condition will be completed as quickly as practical to ensure minimal water loss.

7. The City will evaluate the existing reuse program and consider expanding it to include irrigation off the plant site and for other permitted municipal purposes.

D. METHOD FOR TRACKING EFFECTIVENESS

In order to track the progress of the Water Conservation and Drought Contingency Plan, the City will need to collect a variety of information with regards to each program. The following information will be useful in tracking the progress of the Water Conservation Plan.

1. For information programs, the City will collect information about its programs and the population to evaluate the effectiveness of the program. For literature pieces, the number of such pieces and topics covered will be documented. The number of news programs or advertisements will also be documented and the total population of the service area will be tracked.

2. The billing structure will be evaluated annually. Several pieces of information are required to evaluate this structure effectively. A copy of the rate ordinance will be documented. Billing and customer records will be kept and water consumption by each customer class at the beginning and end of the reporting period will be recorded.

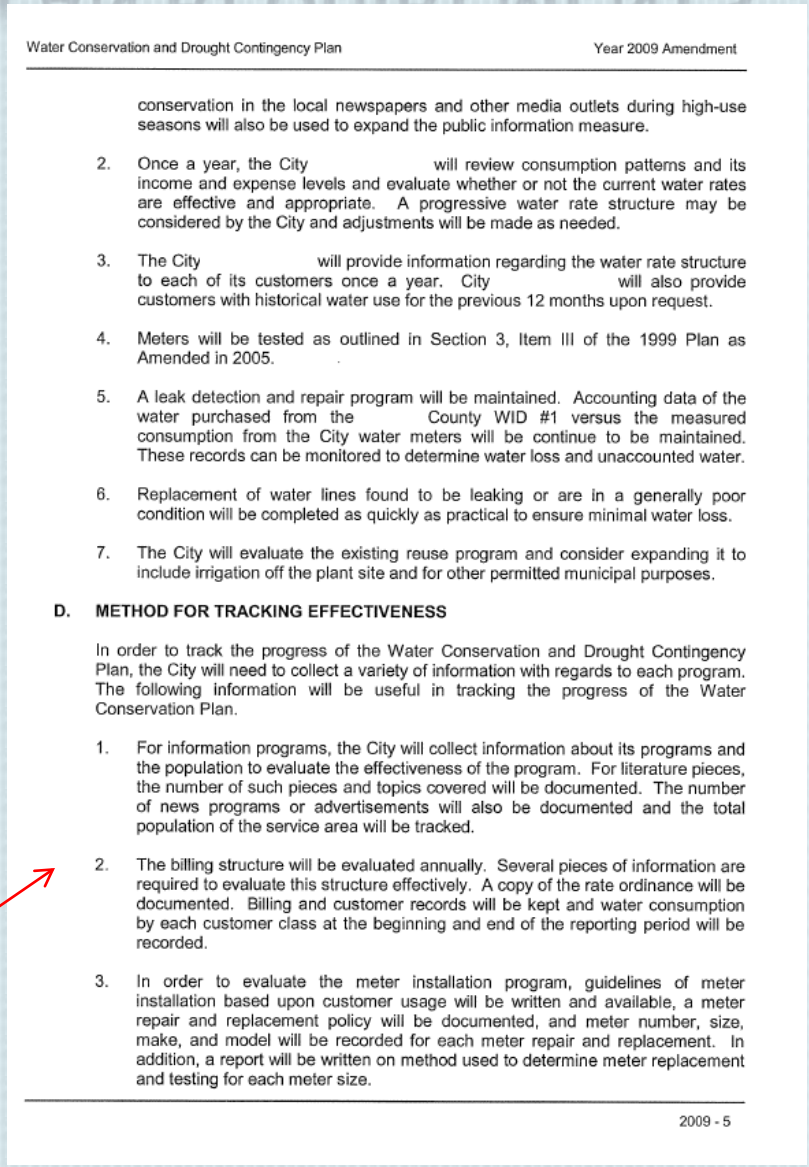
3. In order to evaluate the meter installation program, guidelines of meter installation based upon customer usage will be written and available, a meter repair and replacement policy will be documented, and meter number, size, make, and model will be recorded for each meter repair and replacement. In addition, a report will be written on method used to determine meter replacement and testing for each meter size.

2009 - 5

WATER CONSERVATION PLAN REQUIREMENTS

- D) Include a method for tracking the effectiveness of your WCP.
  - This method should relate to the conservation activities of the established targets and goals.

Tracking method



Water Conservation and Drought Contingency Plan — Year 2009 Amendment

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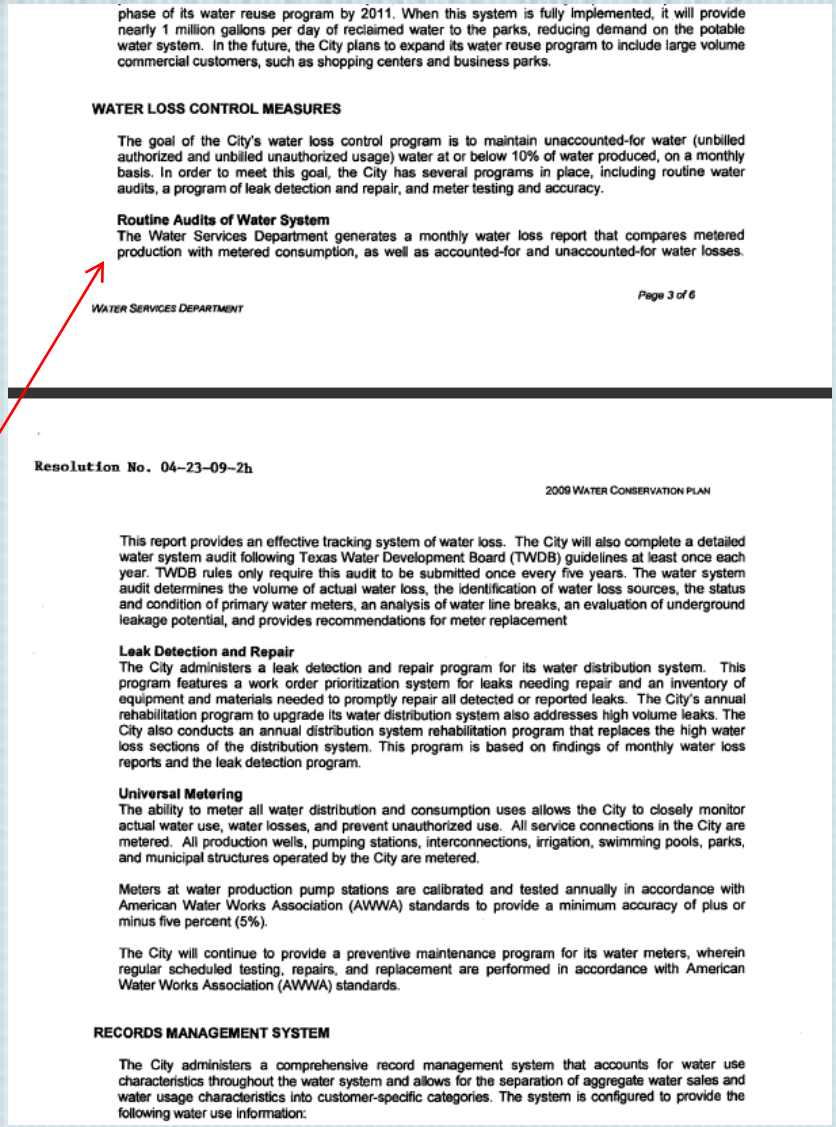
2009 - 5

WATER CONSERVATION PLAN REQUIREMENTS

- E) Describe the master meter and account for water diverted from the source of supply.

Description of how water diverted from source supply is tracked using a master metering system.



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WATER LOSS CONTROL MEASURES

The goal of the City's water loss control program is to maintain unaccounted-for water (unbilled authorized and unbilled unauthorized usage) water at or below 10% of water produced, on a monthly basis. In order to meet this goal, the City has several programs in place, including routine water audits, a program of leak detection and repair, and meter testing and accuracy.

Routine Audits of Water System
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Page 3 of 6

WATER SERVICES DEPARTMENT

Resolution No. 04-23-09-2h

2009 WATER CONSERVATION PLAN

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Universal Metering
The ability to meter all water distribution and consumption uses allows the City to closely monitor actual water use, water losses, and prevent unauthorized use. All service connections in the City are metered. All production wells, pumping stations, interconnections, irrigation, swimming pools, parks, and municipal structures operated by the City are metered.

Meters at water production pump stations are calibrated and tested annually in accordance with American Water Works Association (AWWA) standards to provide a minimum accuracy of plus or minus five percent (5%).

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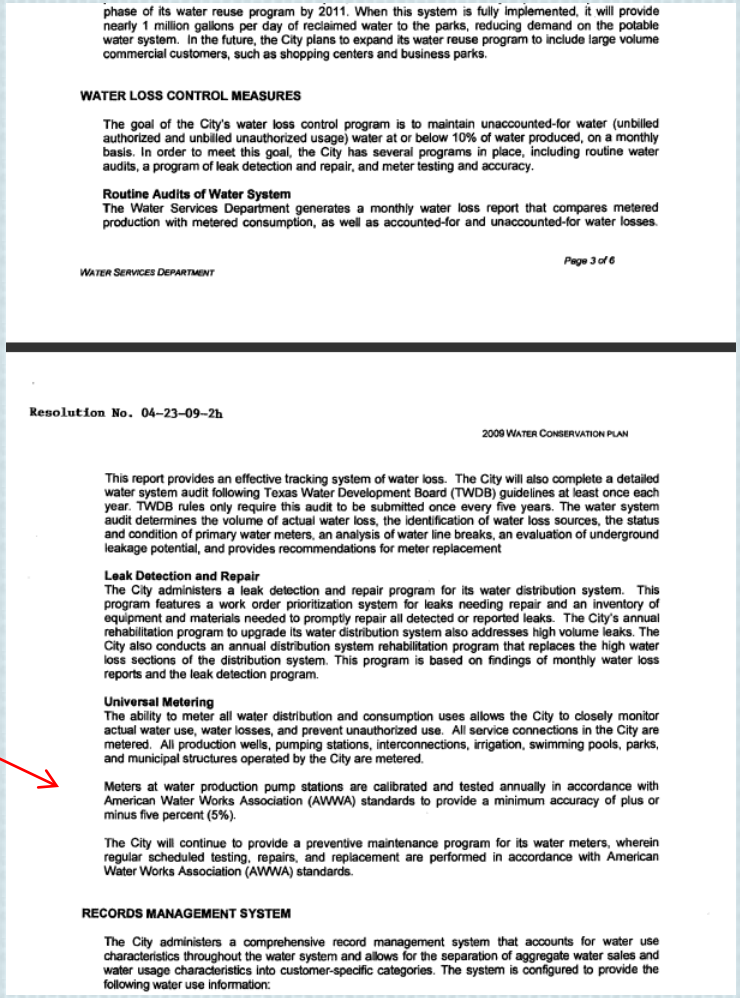
WATER CONSERVATION PLAN REQUIREMENTS

- F) Describe the universal metering system.

Universal metering system



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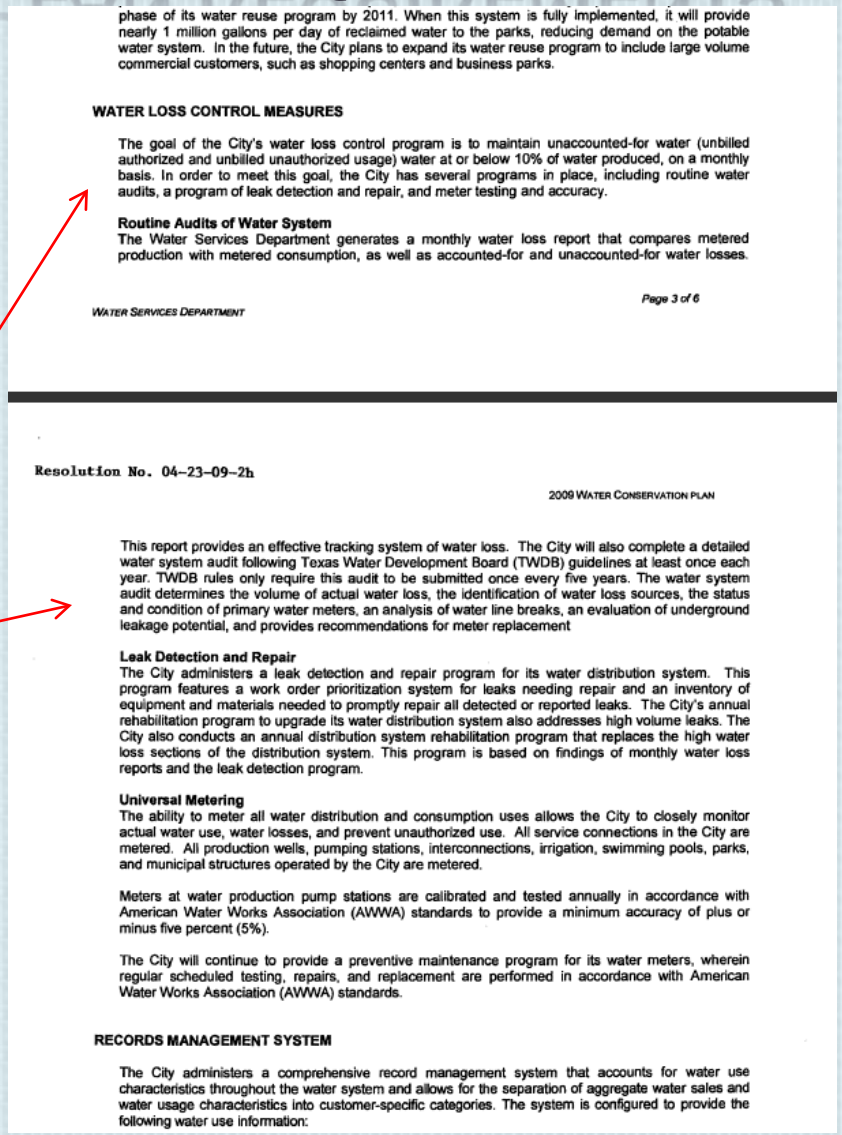
- G) Describe the measures used to control water loss.

Measures to control water loss



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- H) Describe your leak detection and repair program.

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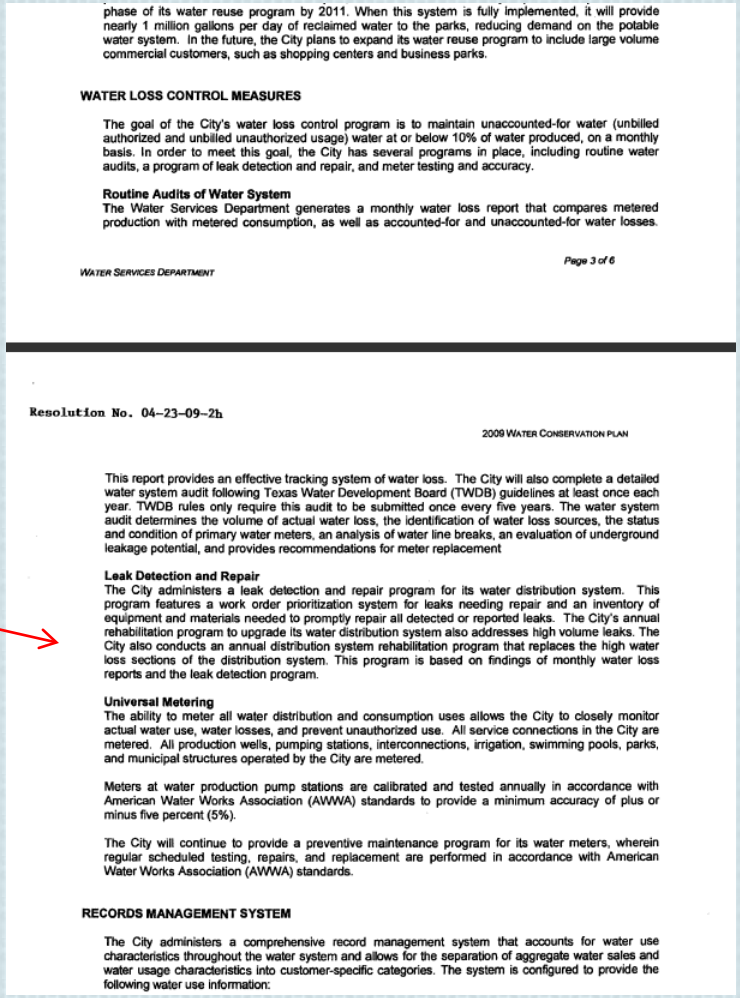

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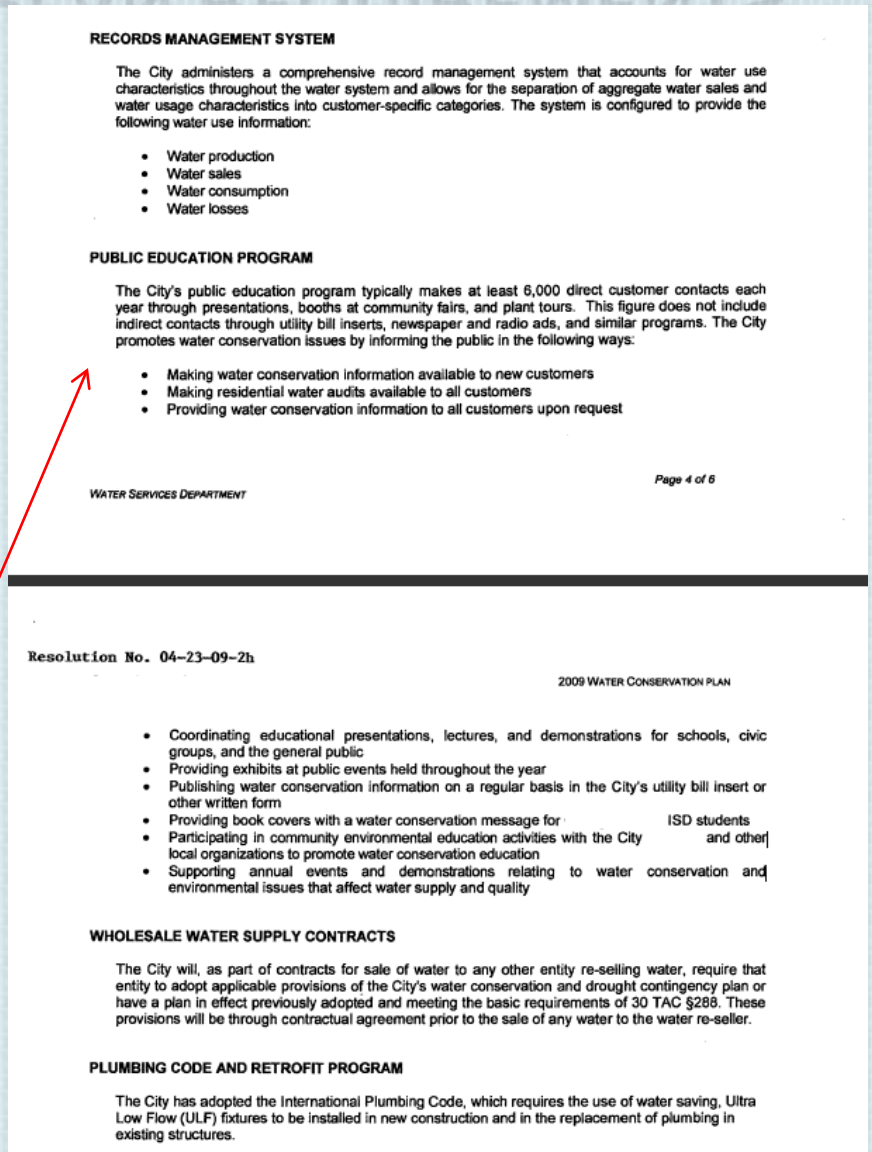
WATER CONSERVATION PLAN REQUIREMENTS

- I) Describe the public education and information program; which can include school programs, outreach, and/or public information.



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- Water production
- Water sales
- Water consumption
- Water losses

PUBLIC EDUCATION PROGRAM

The City's public education program typically makes at least 6,000 direct customer contacts each year through presentations, booths at community fairs, and plant tours. This figure does not include indirect contacts through utility bill inserts, newspaper and radio ads, and similar programs. The City promotes water conservation issues by informing the public in the following ways:

- Making water conservation information available to new customers
- Making residential water audits available to all customers
- Providing water conservation information to all customers upon request

- Coordinating educational presentations, lectures, and demonstrations for schools, civic groups, and the general public
- Providing exhibits at public events held throughout the year
- Publishing water conservation information on a regular basis in the City's utility bill insert or other written form
- Providing book covers with a water conservation message for ISD students
- Participating in community environmental education activities with the City and other local organizations to promote water conservation education
- Supporting annual events and demonstrations relating to water conservation and environmental issues that affect water supply and quality

WHOLESALE WATER SUPPLY CONTRACTS

The City will, as part of contracts for sale of water to any other entity re-selling water, require that entity to adopt applicable provisions of the City's water conservation and drought contingency plan or have a plan in effect previously adopted and meeting the basic requirements of 30 TAC §288. These provisions will be through contractual agreement prior to the sale of any water to the water re-seller.

PLUMBING CODE AND RETROFIT PROGRAM

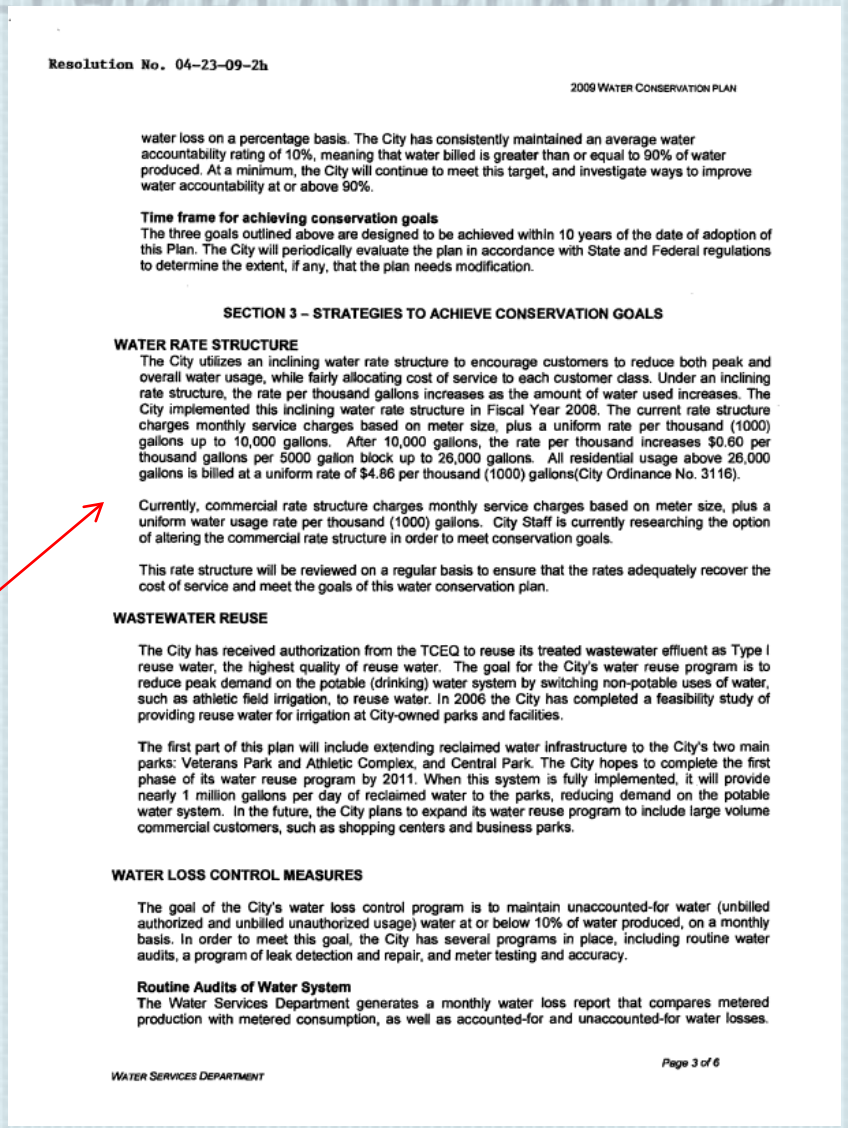
The City has adopted the International Plumbing Code, which requires the use of water saving, Ultra Low Flow (ULF) fixtures to be installed in new construction and in the replacement of plumbing in existing structures.

Public education and information program

WATER CONSERVATION PLAN REQUIREMENTS

- J) Describe the non-promotional water rate structure (does not encourage the excessive use of water).

Water rate structure



Resolution No. 04-23-09-2h

2009 WATER CONSERVATION PLAN

water loss on a percentage basis. The City has consistently maintained an average water accountability rating of 10%, meaning that water billed is greater than or equal to 90% of water produced. At a minimum, the City will continue to meet this target, and investigate ways to improve water accountability at or above 90%.

Time frame for achieving conservation goals
The three goals outlined above are designed to be achieved within 10 years of the date of adoption of this Plan. The City will periodically evaluate the plan in accordance with State and Federal regulations to determine the extent, if any, that the plan needs modification.

SECTION 3 – STRATEGIES TO ACHIEVE CONSERVATION GOALS

WATER RATE STRUCTURE

The City utilizes an inclining water rate structure to encourage customers to reduce both peak and overall water usage, while fairly allocating cost of service to each customer class. Under an inclining rate structure, the rate per thousand gallons increases as the amount of water used increases. The City implemented this inclining water rate structure in Fiscal Year 2008. The current rate structure charges monthly service charges based on meter size, plus a uniform rate per thousand (1000) gallons up to 10,000 gallons. After 10,000 gallons, the rate per thousand increases $0.60 per thousand gallons per 5000 gallon block up to 26,000 gallons. All residential usage above 26,000 gallons is billed at a uniform rate of $4.86 per thousand (1000) gallons(City Ordinance No. 3116).

Currently, commercial rate structure charges monthly service charges based on meter size, plus a uniform water usage rate per thousand (1000) gallons. City Staff is currently researching the option of altering the commercial rate structure in order to meet conservation goals.

This rate structure will be reviewed on a regular basis to ensure that the rates adequately recover the cost of service and meet the goals of this water conservation plan.

WASTEWATER REUSE

The City has received authorization from the TCEQ to reuse its treated wastewater effluent as Type I reuse water, the highest quality of reuse water. The goal for the City's water reuse program is to reduce peak demand on the potable (drinking) water system by switching non-potable uses of water, such as athletic field irrigation, to reuse water. In 2006 the City has completed a feasibility study of providing reuse water for irrigation at City-owned parks and facilities.

The first part of this plan will include extending reclaimed water infrastructure to the City's two main parks: Veterans Park and Athletic Complex, and Central Park. The City hopes to complete the first phase of its water reuse program by 2011. When this system is fully implemented, it will provide nearly 1 million gallons per day of reclaimed water to the parks, reducing demand on the potable water system. In the future, the City plans to expand its water reuse program to include large volume commercial customers, such as shopping centers and business parks.

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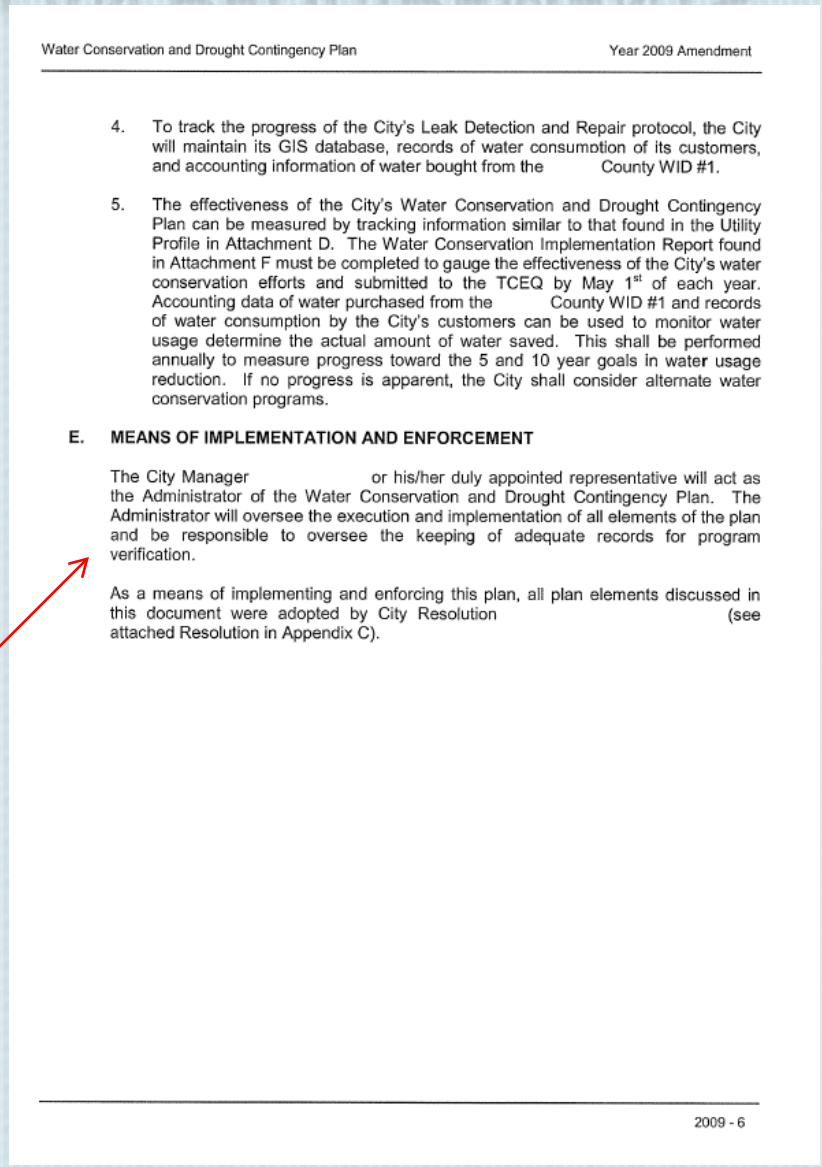
WATER CONSERVATION PLAN REQUIREMENTS

- K) Describe the means of implementation and enforcement of your WCP by official adoption and the description of the authority implementing and enforcing your WCP.

Means for implementation and enforcement



Water Conservation and Drought Contingency Plan Year 2009 Amendment

4. To track the progress of the City's Leak Detection and Repair protocol, the City will maintain its GIS database, records of water consumption of its customers, and accounting information of water bought from the County WID #1.

5. The effectiveness of the City's Water Conservation and Drought Contingency Plan can be measured by tracking information similar to that found in the Utility Profile in Attachment D. The Water Conservation Implementation Report found in Attachment F must be completed to gauge the effectiveness of the City's water conservation efforts and submitted to the TCEQ by May 1st of each year. Accounting data of water purchased from the County WID #1 and records of water consumption by the City's customers can be used to monitor water usage determine the actual amount of water saved. This shall be performed annually to measure progress toward the 5 and 10 year goals in water usage reduction. If no progress is apparent, the City shall consider alternate water conservation programs.

E. MEANS OF IMPLEMENTATION AND ENFORCEMENT

The City Manager or his/her duly appointed representative will act as the Administrator of the Water Conservation and Drought Contingency Plan. The Administrator will oversee the execution and implementation of all elements of the plan and be responsible to oversee the keeping of adequate records for program verification.

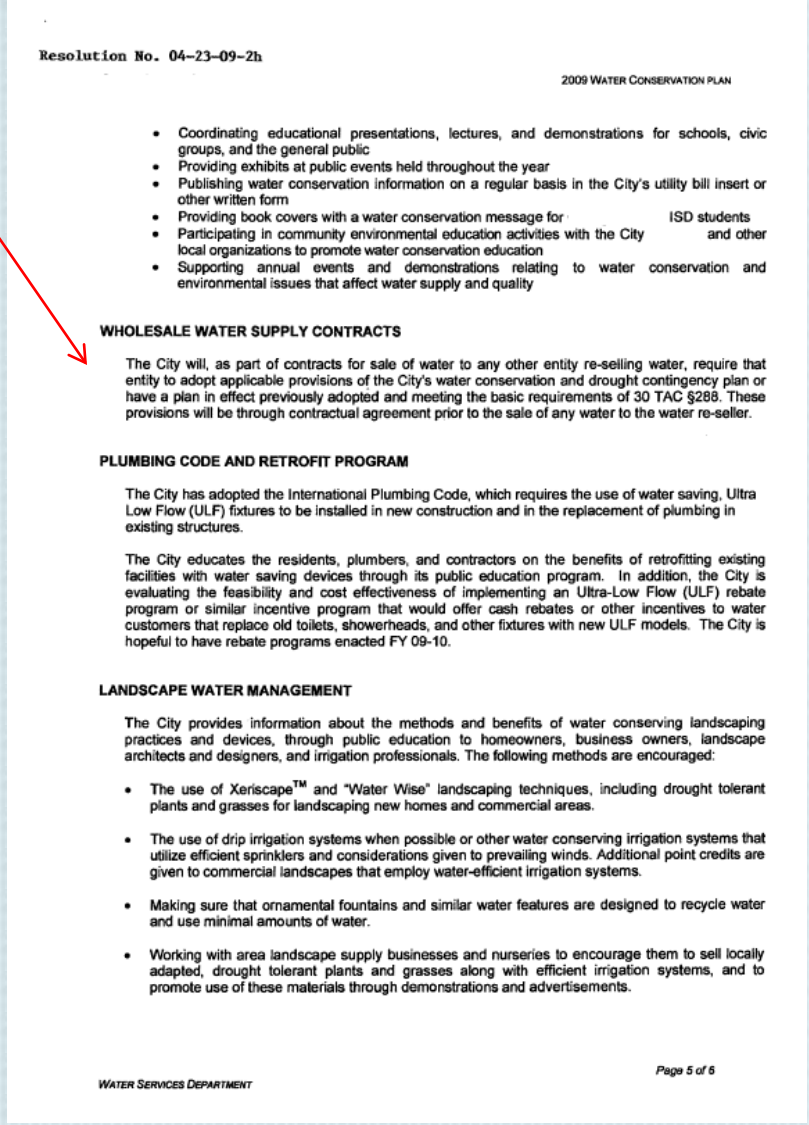
As a means of implementing and enforcing this plan, all plan elements discussed in this document were adopted by City Resolution (see attached Resolution in Appendix C).

2009 - 6

WATER CONSERVATION PLAN REQUIREMENTS

- L) For entities who supply water to other retail providers, that entity must (TWDB loans recipients only):
  - Submit a separate WCP.
  - Submit all existing customer retail utility WCP's.
  - Require that customer retail utilities adopt their own WCP, as necessary.

Wholesale contracts



Resolution No. 04-23-09-2h

2009 WATER CONSERVATION PLAN

- Coordinating educational presentations, lectures, and demonstrations for schools, civic groups, and the general public
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The City will, as part of contracts for sale of water to any other entity re-selling water, require that entity to adopt applicable provisions of the City's water conservation and drought contingency plan or have a plan in effect previously adopted and meeting the basic requirements of 30 TAC §288. These provisions will be through contractual agreement prior to the sale of any water to the water re-seller.

PLUMBING CODE AND RETROFIT PROGRAM

The City has adopted the International Plumbing Code, which requires the use of water saving, Ultra Low Flow (ULF) fixtures to be installed in new construction and in the replacement of plumbing in existing structures.

The City educates the residents, plumbers, and contractors on the benefits of retrofitting existing facilities with water saving devices through its public education program. In addition, the City is evaluating the feasibility and cost effectiveness of implementing an Ultra-Low Flow (ULF) rebate program or similar incentive program that would offer cash rebates or other incentives to water customers that replace old toilets, showerheads, and other fixtures with new ULF models. The City is hopeful to have rebate programs enacted FY 09-10.

LANDSCAPE WATER MANAGEMENT

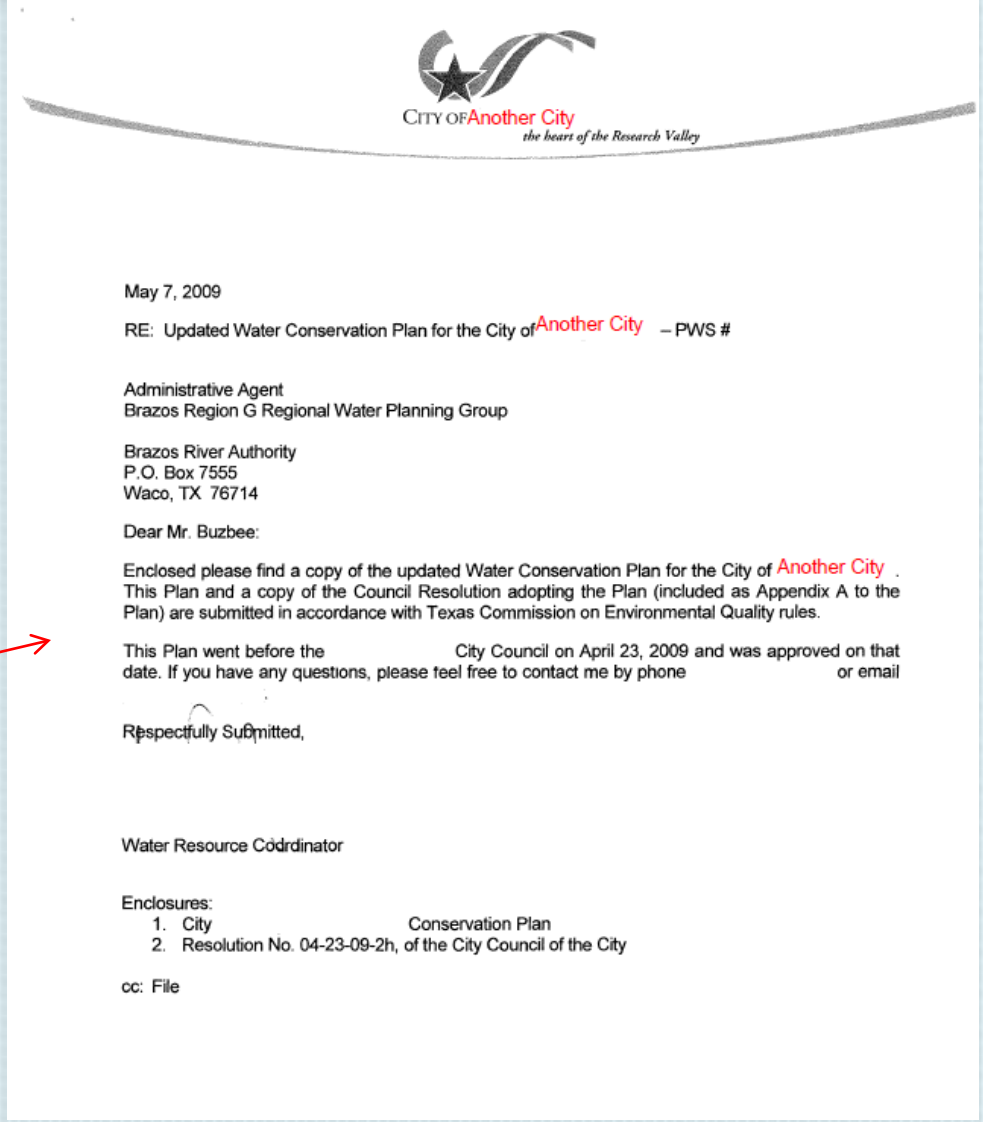
The City provides information about the methods and benefits of water conserving landscaping practices and devices, through public education to homeowners, business owners, landscape architects and designers, and irrigation professionals. The following methods are encouraged:

- The use of Xeriscape™ and "Water Wise" landscaping techniques, including drought tolerant plants and grasses for landscaping new homes and commercial areas.
- The use of drip irrigation systems when possible or other water conserving irrigation systems that utilize efficient sprinklers and considerations given to prevailing winds. Additional point credits are given to commercial landscapes that employ water-efficient irrigation systems.
- Making sure that ornamental fountains and similar water features are designed to recycle water and use minimal amounts of water.
- Working with area landscape supply businesses and nurseries to encourage them to sell locally adapted, drought tolerant plants and grasses along with efficient irrigation systems, and to promote use of these materials through demonstrations and advertisements.

WATER CONSERVATION PLAN REQUIREMENTS

- M) Document that the Regional Water Planning group has been notified of your WCP.

Official notification on company letterhead



CITY OF Another City
the heart of the Research Valley

May 7, 2009

RE: Updated Water Conservation Plan for the City of Another City – PWS #

Administrative Agent
Brazos Region G Regional Water Planning Group

Brazos River Authority
P.O. Box 7555
Waco, TX 76714

Dear Mr. Buzbee:

Enclosed please find a copy of the updated Water Conservation Plan for the City of Another City . This Plan and a copy of the Council Resolution adopting the Plan (included as Appendix A to the Plan) are submitted in accordance with Texas Commission on Environmental Quality rules.

This Plan went before the City Council on April 23, 2009 and was approved on that date. If you have any questions, please feel free to contact me by phone or email

Respectfully Submitted,

Water Resource Coordinator

Enclosures:
1. City Conservation Plan
2. Resolution No. 04-23-09-2h, of the City Council of the City

cc: File

WATER CONSERVATION PLAN REQUIREMENTS

- N) Complete a Drought Contingency Plan (DCP) (TWDB loans recipients only)

Inclusion of DCP

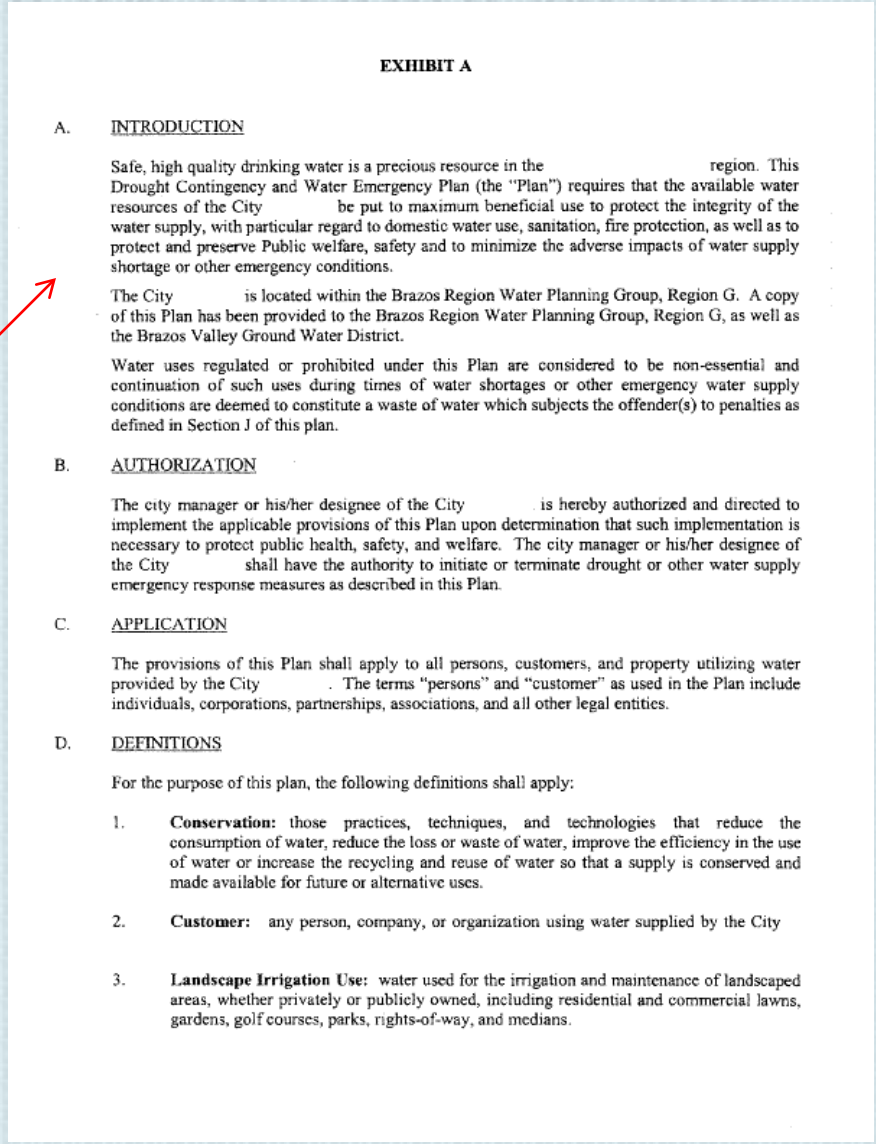


EXHIBIT A

A. INTRODUCTION

Safe, high quality drinking water is a precious resource in the region. This Drought Contingency and Water Emergency Plan (the "Plan") requires that the available water resources of the City be put to maximum beneficial use to protect the integrity of the water supply, with particular regard to domestic water use, sanitation, fire protection, as well as to protect and preserve Public welfare, safety and to minimize the adverse impacts of water supply shortage or other emergency conditions.

The City is located within the Brazos Region Water Planning Group, Region G. A copy of this Plan has been provided to the Brazos Region Water Planning Group, Region G, as well as the Brazos Valley Ground Water District.

Water uses regulated or prohibited under this Plan are considered to be non-essential and continuation of such uses during times of water shortages or other emergency water supply conditions are deemed to constitute a waste of water which subjects the offender(s) to penalties as defined in Section J of this plan.

B. AUTHORIZATION

The city manager or his/her designee of the City is hereby authorized and directed to implement the applicable provisions of this Plan upon determination that such implementation is necessary to protect public health, safety, and welfare. The city manager or his/her designee of the City shall have the authority to initiate or terminate drought or other water supply emergency response measures as described in this Plan.

C. APPLICATION

The provisions of this Plan shall apply to all persons, customers, and property utilizing water provided by the City . The terms "persons" and "customer" as used in the Plan include individuals, corporations, partnerships, associations, and all other legal entities.

D. DEFINITIONS

For the purpose of this plan, the following definitions shall apply:

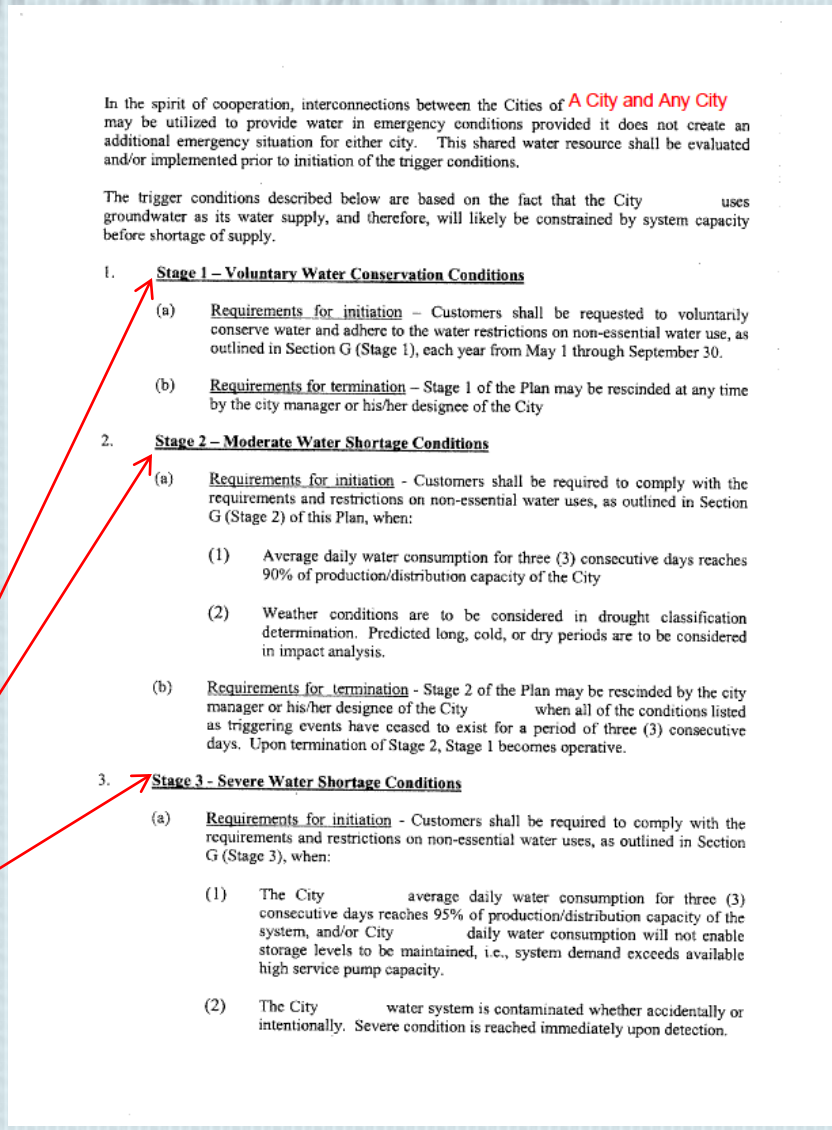
1. **Conservation:** those practices, techniques, and technologies that reduce the consumption of water, reduce the loss or waste of water, improve the efficiency in the use of water or increase the recycling and reuse of water so that a supply is conserved and made available for future or alternative uses.

2. **Customer:** any person, company, or organization using water supplied by the City

3. **Landscape Irrigation Use:** water used for the irrigation and maintenance of landscaped areas, whether privately or publicly owned, including residential and commercial lawns, gardens, golf courses, parks, rights-of-way, and medians.

DROUGHT CONTINGENCY PLAN (DCP)

- The DCP must include:
  1. Trigger conditions that outline what will cause the DCP to be activated. Some examples are supply source contamination, system outages, low reservoir levels, etc.



In the spirit of cooperation, interconnections between the Cities of A City and Any City may be utilized to provide water in emergency conditions provided it does not create an additional emergency situation for either city. This shared water resource shall be evaluated and/or implemented prior to initiation of the trigger conditions.

The trigger conditions described below are based on the fact that the City uses groundwater as its water supply, and therefore, will likely be constrained by system capacity before shortage of supply.

1. **Stage 1 – Voluntary Water Conservation Conditions**

   (a) Requirements for initiation – Customers shall be requested to voluntarily conserve water and adhere to the water restrictions on non-essential water use, as outlined in Section G (Stage 1), each year from May 1 through September 30.

   (b) Requirements for termination – Stage 1 of the Plan may be rescinded at any time by the city manager or his/her designee of the City

2. **Stage 2 – Moderate Water Shortage Conditions**

   (a) Requirements for initiation - Customers shall be required to comply with the requirements and restrictions on non-essential water uses, as outlined in Section G (Stage 2) of this Plan, when:

      (1) Average daily water consumption for three (3) consecutive days reaches 90% of production/distribution capacity of the City

      (2) Weather conditions are to be considered in drought classification determination. Predicted long, cold, or dry periods are to be considered in impact analysis.

   (b) Requirements for termination - Stage 2 of the Plan may be rescinded by the city manager or his/her designee of the City when all of the conditions listed as triggering events have ceased to exist for a period of three (3) consecutive days. Upon termination of Stage 2, Stage 1 becomes operative.

3. **Stage 3 - Severe Water Shortage Conditions**

   (a) Requirements for initiation - Customers shall be required to comply with the requirements and restrictions on non-essential water uses, as outlined in Section G (Stage 3), when:

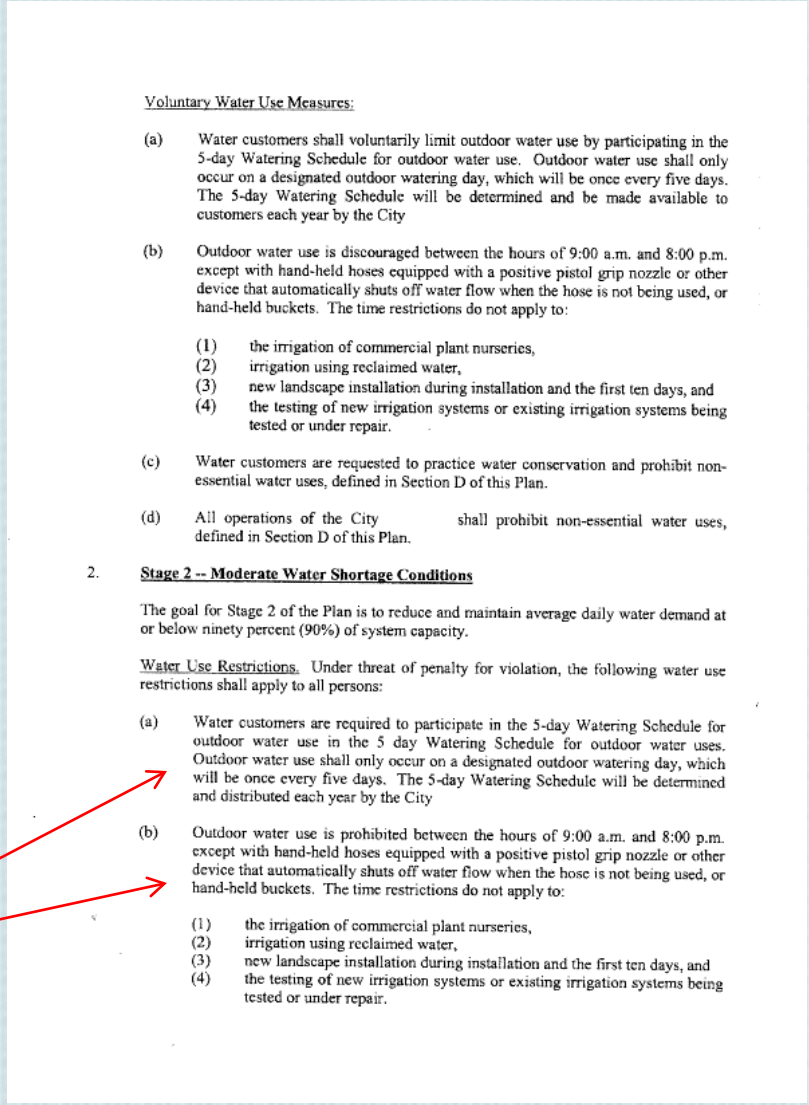
      (1) The City average daily water consumption for three (3) consecutive days reaches 95% of production/distribution capacity of the system, and/or City daily water consumption will not enable storage levels to be maintained, i.e., system demand exceeds available high service pump capacity.

      (2) The City water system is contaminated whether accidentally or intentionally. Severe condition is reached immediately upon detection.

Trigger conditions

DROUGHT CONTINGENCY PLAN (DCP) CON'T

2. Demand management measures that refer to actions to be taken at each stage of the DCP and must include quantified and specific targets for water use reduction.



Voluntary Water Use Measures:

(a) Water customers shall voluntarily limit outdoor water use by participating in the 5-day Watering Schedule for outdoor water use. Outdoor water use shall only occur on a designated outdoor watering day, which will be once every five days. The 5-day Watering Schedule will be determined and be made available to customers each year by the City

(b) Outdoor water use is discouraged between the hours of 9:00 a.m. and 8:00 p.m. except with hand-held hoses equipped with a positive pistol grip nozzle or other device that automatically shuts off water flow when the hose is not being used, or hand-held buckets. The time restrictions do not apply to:

(1) the irrigation of commercial plant nurseries,
(2) irrigation using reclaimed water,
(3) new landscape installation during installation and the first ten days, and
(4) the testing of new irrigation systems or existing irrigation systems being tested or under repair.

(c) Water customers are requested to practice water conservation and prohibit non-essential water uses, defined in Section D of this Plan.

(d) All operations of the City shall prohibit non-essential water uses, defined in Section D of this Plan.

2. **Stage 2 -- Moderate Water Shortage Conditions**

The goal for Stage 2 of the Plan is to reduce and maintain average daily water demand at or below ninety percent (90%) of system capacity.

Water Use Restrictions. Under threat of penalty for violation, the following water use restrictions shall apply to all persons:

(a) Water customers are required to participate in the 5-day Watering Schedule for outdoor water use in the 5 day Watering Schedule for outdoor water uses. Outdoor water use shall only occur on a designated outdoor watering day, which will be once every five days. The 5-day Watering Schedule will be determined and distributed each year by the City

(b) Outdoor water use is prohibited between the hours of 9:00 a.m. and 8:00 p.m. except with hand-held hoses equipped with a positive pistol grip nozzle or other device that automatically shuts off water flow when the hose is not being used, or hand-held buckets. The time restrictions do not apply to:

(1) the irrigation of commercial plant nurseries,
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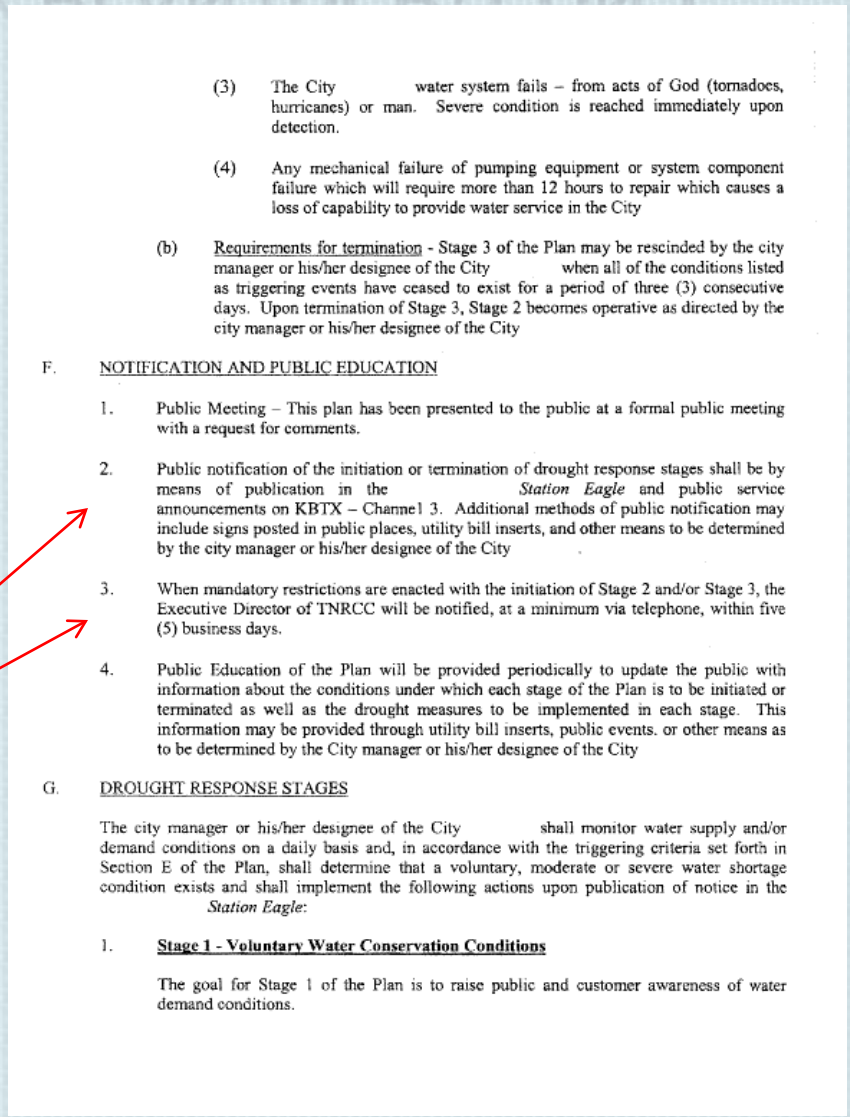
(3) new landscape installation during installation and the first ten days, and
(4) the testing of new irrigation systems or existing irrigation systems being tested or under repair.

Demand management measures

DROUGHT CONTINGENCY PLAN (DCP) CON'T

3. Initiation and termination procedures of each stage, including public notification.

Notification procedures



(3) The City water system fails – from acts of God (tornadoes, hurricanes) or man. Severe condition is reached immediately upon detection.

(4) Any mechanical failure of pumping equipment or system component failure which will require more than 12 hours to repair which causes a loss of capability to provide water service in the City

(b) Requirements for termination - Stage 3 of the Plan may be rescinded by the city manager or his/her designee of the City when all of the conditions listed as triggering events have ceased to exist for a period of three (3) consecutive days. Upon termination of Stage 3, Stage 2 becomes operative as directed by the city manager or his/her designee of the City

F. NOTIFICATION AND PUBLIC EDUCATION

1. Public Meeting – This plan has been presented to the public at a formal public meeting with a request for comments.

2. Public notification of the initiation or termination of drought response stages shall be by means of publication in the *Station Eagle* and public service announcements on KBTX – Channel 3. Additional methods of public notification may include signs posted in public places, utility bill inserts, and other means to be determined by the city manager or his/her designee of the City

3. When mandatory restrictions are enacted with the initiation of Stage 2 and/or Stage 3, the Executive Director of TNRCC will be notified, at a minimum via telephone, within five (5) business days.

4. Public Education of the Plan will be provided periodically to update the public with information about the conditions under which each stage of the Plan is to be initiated or terminated as well as the drought measures to be implemented in each stage. This information may be provided through utility bill inserts, public events. or other means as to be determined by the City manager or his/her designee of the City

G. DROUGHT RESPONSE STAGES

The city manager or his/her designee of the City shall monitor water supply and/or demand conditions on a daily basis and, in accordance with the triggering criteria set forth in Section E of the Plan, shall determine that a voluntary, moderate or severe water shortage condition exists and shall implement the following actions upon publication of notice in the *Station Eagle*:

1. **Stage 1 - Voluntary Water Conservation Conditions**

The goal for Stage 1 of the Plan is to raise public and customer awareness of water demand conditions.

DROUGHT CONTINGENCY PLAN (DCP) CON'T

4. Specify variances and enforcement to the DCP.

Specific enforcement

Specific variances

(2) The Department of Environmental Services may seek assistance through the local and/or state emergency management system.

H. VARIANCES

1. The city manager or his/her designee of the City may, in writing, grant temporary variance for existing water uses otherwise prohibited under this Plan if it is determined that failure to grant such a variance would cause an emergency condition adversely affecting the health, sanitation, or fire protection for the public or the person requesting such variance and if one or more of the following conditions are met:

   (a) Compliance with this Plan cannot be technically accomplished during the duration of the water supply shortage or other condition for which the Plan is in effect.

   (b) Alternative methods can be implemented which will achieve the same level of reduction in water use.

2. Persons requesting an exemption from the provisions of this Ordinance shall file a petition for variance to the City within 5 days after the Plan has been initiated or a particular drought response stage has been invoked. Persons requesting such an exemption shall file the petition with the city in which water service is purchased. All petitions for variances shall be reviewed by the city manager or his/her designee of the City and shall include the following:

J. ENFORCEMENT

No person shall knowingly or intentionally allow the use of water from the City for residential, commercial, industrial, agricultural, governmental, or any other purpose in a manner contrary to any provision of this Plan, or in an amount in excess of that permitted by the drought response stage in effect at the time pursuant to action taken by city manger or his/her designee of the City , in accordance with provisions of this Plan.

Any person who violates this Plan is guilty of a misdemeanor and, upon conviction shall be punished by a fine not to exceed five hundred dollars ($500.00). Each day that one or more of the provisions in this Plan is violated shall constitute a separate offense. If a person is convicted of

three or more distinct violations of this Plan, the city manager or his/her designee of the City shall, upon due notice to the customer, be authorized to discontinue water service to the premises where such violations occur. Services discontinued under such circumstances shall be restored only upon payment of a re-connection charge, hereby established at fifty dollars ($50.00), and any other costs incurred by the City in discontinuing service. In addition, suitable assurance must be given to the city manager or his/her designee of the City , that the same action shall not be repeated while the Plan is in effect. Compliance with this plan may also be sought through injunctive relief in the district court.

Any person, including a person classified as a water customer of the City , in apparent control of the property where a violation occurs or originates, shall be presumed to be the violator, and proof that the violation occurred on the person's property shall constitute a rebuttable presumption that the person in apparent control of the property committed the violation, but any such person shall have the right to show that he/she did not commit the violation. Parents shall be presumed to be responsible for violations of their minor children and proof that a violation, committed by a child, occurred on property within the parents' control shall constitute a rebuttable presumption that the parent committed the violation, but any such parent may be excused if he/she proves that he/she had previously directed the child not to use the water as it was used in violation of this Plan and that the parent could not have reasonably known of the violation.

Any employee of the City police officer, or other employee designated by the city manager or his/her designee of the City , may issue a citation to a person he/she reasonably believes to be in violation of this Ordinance. The citation shall be prepared in duplicate and shall contain the name and address of the alleged violator, if known, the offense charged, and shall direct him/her to appear in Municipal Court, as appropriate, on the date shown on the citation for which the date shall not be less than 3 days nor more than 5 days from the date the citation was issued. The alleged violator shall be served a copy of the citation. Service of the citation shall be complete upon delivery of the citation to the alleged violator, to an agent or employee of a violator, or to a person over 14 years of age who is a member of the violator's immediate family or is a resident of the violator's residence. The alleged violator shall appear in the Municipal Court to enter a plea of guilty or not guilty for the violation of this Plan. If the alleged violator fails to appear in the Municipal Court, a warrant for his/her arrest may be issued. A summons to appear may be issued in lieu of an arrest warrant. These cases shall be expedited and given preferential setting in the Municipal Court before all other cases.

DROUGHT CONTINGENCY PLAN (DCP) CON'T

5. Measures to inform and educate the public on the preparation of the DCP.

Measures to inform public

(3) The City water system fails – from acts of God (tornadoes, hurricanes) or man. Severe condition is reached immediately upon detection.

(4) Any mechanical failure of pumping equipment or system component failure which will require more than 12 hours to repair which causes a loss of capability to provide water service in the City

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1. **Stage 1 - Voluntary Water Conservation Conditions**

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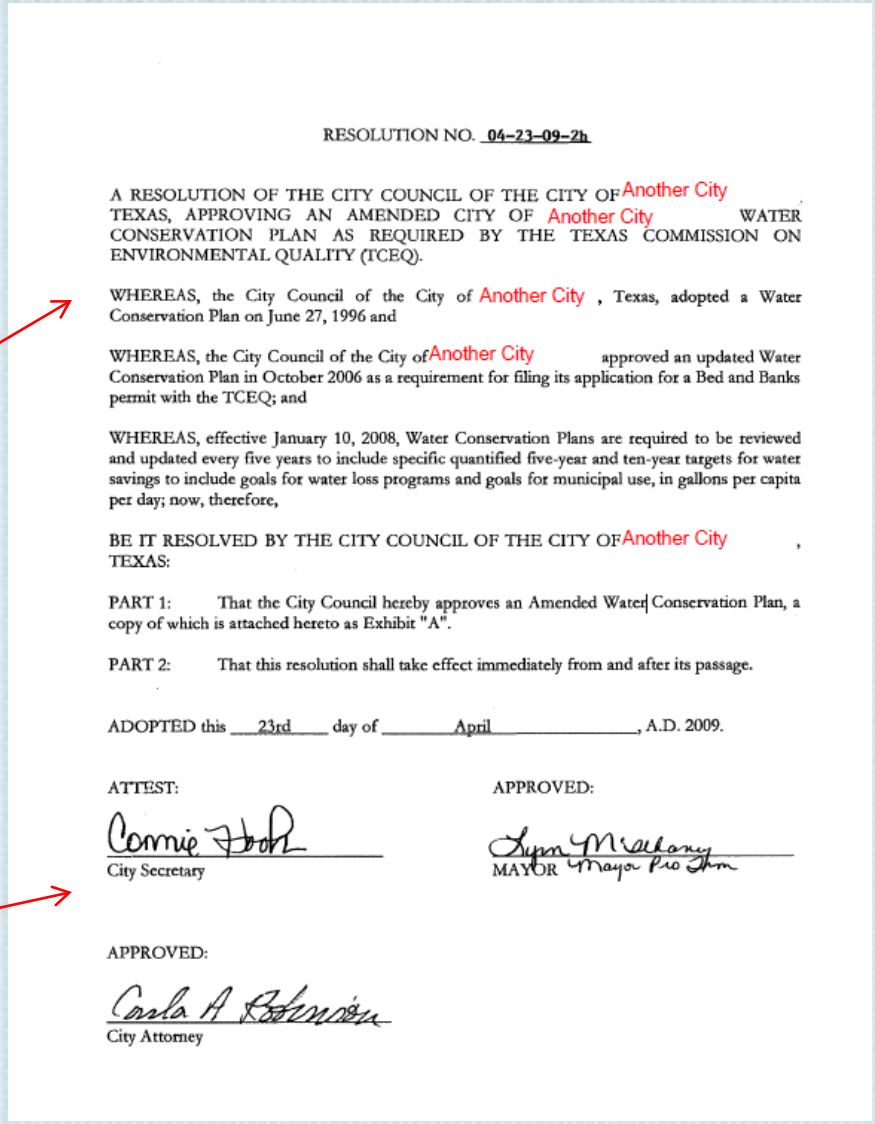
WATER CONSERVATION PLAN REQUIREMENTS

- O) Adopt your WCP.

Resolution of official adoption of your WCP

Adoption must be signed to be complete



RESOLUTION NO. 04-23-09-2b

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF Another City TEXAS, APPROVING AN AMENDED CITY OF Another City WATER CONSERVATION PLAN AS REQUIRED BY THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ).

WHEREAS, the City Council of the City of Another City , Texas, adopted a Water Conservation Plan on June 27, 1996 and

WHEREAS, the City Council of the City of Another City approved an updated Water Conservation Plan in October 2006 as a requirement for filing its application for a Bed and Banks permit with the TCEQ; and

WHEREAS, effective January 10, 2008, Water Conservation Plans are required to be reviewed and updated every five years to include specific quantified five-year and ten-year targets for water savings to include goals for water loss programs and goals for municipal use, in gallons per capita per day; now, therefore,

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF Another City , TEXAS:

PART 1: That the City Council hereby approves an Amended Water Conservation Plan, a copy of which is attached hereto as Exhibit "A".

PART 2: That this resolution shall take effect immediately from and after its passage.

ADOPTED this 23rd day of April, A.D. 2009.

ATTEST:

City Secretary

APPROVED:

MAYOR Mayor Pro Tem

APPROVED:

City Attorney

WATER CONSERVATION PLAN REQUIREMENTS

- P) Report annually on the effectiveness of the WCP using the Water Conservation Plan Annual Report (AR).
  - There is one form for water suppliers and one form for non-water suppliers.
  - The annual report should be submitted using the writable pdf form.
  - TWDB also provides instruction on submitting an Annual Report.

For additional help, contact:

TWDB MUNICIPAL: 512-463-7955