TOWN OF ADDISON, TEXAS

ORDINANCE NO. 009-014

AN ORDINANCE OF THE TOWN OF ADDISON, TEXAS, AMENDING THE CODE OF ORDINANCES OF THE TOWN BY AMENDING CHAPTER 82, UTILITIES, TO ADD A NEW SECTION 82-98 CONSERVATION **OF** WATER REGARDING THE **PROTECTION OF** WATER SUPPLIES; **PROVIDING** FOR EVALUATION OF THE CURRENT WATER USAGE OF THE TOWN; SETTING WATER SAVINGS GOALS FOR FIVE AND TEN YEARS; PROVIDING FOR THE SCHEDULING OF IMPLEMENTATION OF GOALS: PROVIDING FOR A METER TESTING PROGRAM; PROVIDING FOR THE ESTABLISHMENT OF MEASURES TO CONTROL WATER LOSS; ESTABLISHING A WATER RATE STRUCTURE WHICH IS "NON-PROMOTIONAL"; PROVIDING A **SAVINGS** AND REPEALER **CLAUSE: PROVIDING** SEVERABILITY CLAUSE; PROVIDING PENALTY, UPON \mathbf{A} CONVICTION, FOR ANY VIOLATION, NOT TO EXCEED THE SUM OF TWO THOUSAND AND NO/100 DOLLARS (\$2,000.00) AND A SEPARATE OFFENSE SHALL BE DEEMED COMMITTED EACH DAY DURING OR ON WHICH A VIOLATION OCCURS OR CONTINUES: PROVIDING AN EFFECTIVE DATE.

WHEREAS, the Town of Addison, Texas (the "City") is a home rule municipality pursuant to Article 11, Section 5 of the Texas Constitution and its Home Rule Charter; and

WHEREAS, the City Council finds that conservation of water and protection of water supplies are in the best interest of its citizens.

NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE TOWN OF ADDISON, TEXAS:

Section 1. <u>Amendment</u>. The Code of Ordinances of the Town of Addison, Texas (the "<u>City</u>") is hereby amended in the following particulars, and all other chapters, articles, sections, subsections, sentences, phrases and words of the said Code of Ordinances are not amended hereby:

A. Chapter 82, Utilities, of the Code of Ordinances is hereby amended by adding thereto a new Section 82-98 to read as follows:

Section 82-98. Water Conservation Plan.

The Town hereby adopts a water conservation plan for the purpose of setting water conservation goals and best management practices, all as contained in Exhibit "A" attached to the ordinance of the Town adopting this Section 82-98 (the same being Ordinance No. 009-014) and incorporated as if fully set forth herein.

The water conservation plan proposes a goal of reducing water consumption to a level of 290 gallons per capita per day by 2015 and 275 gallons per capita per day by 2020.

- Section 2. <u>Water Conservation Plan</u>. There is attached as <u>Exhibit "A"</u> to this Ordinance and incorporated herein for all purposes the water conservation plan described in the amendment to the Code of Ordinances set forth in Section 1, above.
- Section 3. Savings. This Ordinance shall be cumulative of all other ordinances of the City and shall not repeal any of the provisions of those ordinances except in those instances where the provisions of those ordinances are in direct conflict with the provisions of this Ordinance. Provided, however, that the repeal of such ordinances or parts of such ordinances shall not affect any right, property or claim which was or is vested in the Town of Addison, Texas, or any act done, or right accruing or accrued, or established, or any suit, action or proceeding had or commenced before the time when this Ordinance shall take effect; nor shall said repeals, amendments or changes effect any offense committed, or any penalty or forfeiture incurred, or any suit or prosecution pending at the time when this Ordinance shall take effect under any of the ordinances or sections thereof so repealed; and to that extent and for that purpose the provisions of such ordinances or parts of such ordinances shall be deemed to remain and continue in full force and effect.
- Section 4. Severability. The provisions of this Ordinance are severable, and if any section or provision of this Ordinance or the application of any section or provision to any person, firm, corporation, entity, situation or circumstance is for any reason adjudged invalid or held unconstitutional by a court of competent jurisdiction, the same shall not affect the validity of any other section or provision of this Ordinance or the application of any other section or provision to any other person, firm, corporation, entity, situation or circumstance, and the City Council declares that it would have adopted the valid portions of this Ordinance adopted herein without the invalid parts and to this end the provisions of this Ordinance adopted herein shall remain in full force and effect.
- Section 5. Penalty. It shall be unlawful for any person, firm, corporation, or other business entity to violate any provision of this Ordinance, and any person, firm, corporation, or other business entity violating or failing to comply with any provision hereof shall be fined, upon conviction, in an amount of not more than Two Thousand and No/100 Dollars (\$2,000.00), and a separate offense shall be deemed committed each day during or on which a violation or failure occurs or continues. In addition to and cumulative of all other penalties, the Town of Addison shall have the right to seek injunctive relief (and any other available actions or relief) for any and all violations of this Ordinance.
- **Section 6.** <u>Effective Date</u>. This Ordinance shall become effective from and after its passage and approval and its publication as may be required by law (including, without limitation, the City Charter, and the ordinances of the City).

PASSED AND APPROVED by the City Council of the Town of Addison, Texas this 28th day of April, 2009.

Joe Chow, Mayor

ATTEST:

By: La Dynn City Socretory

Lea Dunn, City Secretary

APPROVED AS TO FORM:

John Hill, City Attorney

Exhibit "A"

Water Conservation Plan

I.	U	til	lity	Pr	ofile
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A.	Population	and Service	Area Data
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- 1. A copy of Addison's Certificate of Convenience and Necessity (CCN) is attached in this plan
- 2. Service area size (square miles): 4.5 square miles
- 3. Current population of service area: 13,409
- 4. Current population served by utility: a: water: <u>13,409</u> b: wastewater: <u>13,409</u>
- 5. Population served by water utility 6. Projected population for service area in the following decades:

Year	Population	Year	Population
2008	<u>_15,300</u>	2010	<u>_17,100</u>
2007	<u>15, 250</u>	2020	<u>_19,300</u>
2006	_14,900	2030	<u>_22,400</u>
2005	14,450	2040	_26,800
2004	<u>_14,100</u>	2050	<u>_29,000</u>

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

<u>Current and previous population was calculated based on previous budget</u>

<u>documents. Future population was based upon NCTCOG projections, consultant studies and schedule of future economic development projects.</u>

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 X or Commercial

<u>Treated water users</u> :	<u>Metered</u>	<u>Not-metered</u>	<u>Total</u>
Residential-Single-Family	_1670	<u>0</u>	<u>_1670</u>

	Resid	lential-Multi-Family	<u>165</u>	0	_	<u>_165</u> _
	Comi	mercial	<u>1016</u>	0		
10	Indus		10	0		
_10	Publi	c	41	0		_41
609	Other	•	609_	0	_	
List the net number of new connections per year for most recent three years:						
Year			2008	2007	2006	
Reside	ential –	Single-Family	<u>6</u>	10	_1	
Reside	ential-N	Aulti-Family	20	2	8	
Comn	nercial		<u>21</u>	<u>8</u>	17	
Indust	trial		0	0	0	
Public	e		0	0	0	
Other			11	12	<u>16</u>	
High Volume Customers List annual water use for the five highest volume retail and wholesale customers						
	(Pleas	se indicate if treated or r Customer	aw water deliver Use (1,000gal./y	ind	licate	
		Customer	<u>Ose (1,000ga1./)</u>	11.) Iteateu C	IX Naw	
	(1)	Hotel Inter-Continenta	al 42,800	Treate	d by DWU	
	(2)	Post Apartment Home	es <u>37,000</u>	Treated	l by DWU_	
	(3)	Greenhill School	33,800	Treated	l by DWU_	
	(4)	Mary Kay Inc.	30,100	Treated	l by DWU_	
	(5)	_AZ Crowne, LP	27,800	Treated	d by DWU	

2.

C.

II. WATER USE DATA FOR SERVICE AREA

A. Water Accounting Data

1. Amount of water use for previous five years (in 1,000 gal.):

Please indicate: Diverted Water

Treated Water X

Year	2004	2005	<u>2006</u>	<u>2007</u>	2008
January	<u>_122,296</u> _	<u>_117,795</u> _	<u>155,494</u>	<u>110,085</u>	<u> 109,840</u>
February	_111,985_	_102,311_	<u>118,168</u>	<u>_105,461</u> _	_101,313
March	130,053	_127,052_	<u>132,650</u>	<u> 136,855</u>	<u>_110,085</u> _
April	152,340	<u> 146,570</u>	<u>161,428</u>	_127,043_	_114,567_
May	176,376	165,052	<u> 185,473</u>	_136,049_	<u> 135,670</u>
June	163,281	193,352	232,129	_140,331_	<u> 178,042</u>
July	199,186	231,670	251,469	<u> 149,410</u>	_226,249_
August	218,511	230,254	259,001	_192,594_	_208,093_
September	200,716	225,642	210,389	<u>_171,485</u> _	_171,402_
October	172,282	218,486	190,974	167,599	165,534
November	122,439	176,072	150,288	143,550	123,289
December	115,195	140,492	119,367	_109,840_	98,498
Total	<u>1,884,660</u>	<u>2,074,748</u>	<u>2,166,830</u>	_1,690,302	<u>1,742,582</u>

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, or from water sales).

Master meter located at entry point from Dallas Water Utilities

2. Amount of water (in 1,000 gallons) delivered (sold) as recorded by the following account types for the past five years.

Year	Residential	<u>Commercial</u>	<u>Industrial</u>	Wholesale	<u>Other</u>	Total Sold_
2004	638,381	<u>569,175</u>	5,258	_0	<u>527,602</u>	1,742,420_
2005	351,375	574,738	4,328	0	<u>631,076</u>	<u>1,863,522</u> _
2006	720,990	604,075	3,916	0	<u>756,759</u>	2,087,746
2007	601,201	566,501	2,997	0	<u>454,208</u>	1,626,914
2008	514,023	529,299	3,104	_0	<u>601,167</u>	1,649,601

	3.	List previous five years records for water loss	4.	List previous five years records for annual peak-to-average daily use		
ratio						
	Year 2004 2005 2006 2007 2008	Amount (gal.) 124,340,343 146,267,636 80,845,070 72,344,160 66,000,000	Year 2004 2005 2006 2007 2008	Average MGD 5,163,452 5,684,241 5,936,521 4,630,964 4,774,197	Peak MGD 8,845,000 8,918,000 9,901,000 8,437,000 8,421,000	Ratio 1.71 1.57 1.67 1.82 1.76

5. Total per capita water use for previous five years:

		Total Diverted (or	Per
<u>Capita</u>			
<u>Year</u>	<u>Population</u>	Treated Less Wholesale	(gpcd)
		Sales (1,000 gal.)	
<u>2004</u>	14,100	1,884,660	
366.2	_	-	
<u>2005</u>	14,450	2,074,748	
393.4	2006	<u>2,166,830</u>	
398.4	_		
2007	<u>15, 250</u>	<u>1,690,302</u>	
303.7			
2008	15,300	<u>1,742,582</u>	
312.0		-	

6. Seasonal water use for the previous five years (in gallons per person per day):

		Base Per	Summer Per
Year	<u>Population</u>	Capita Use	<u>Capita Use</u>
<u>2004</u> _	14,100	<u>275.4</u>	<u>457.8</u>
2005	14,450	277.3	503.9
2006	14,900	293.1	553.8
2007	15,250	237.1	351.4
2008	15,300	224.9	444.7

B. Projected Water Demands

Project water supply requirements for at least the next ten years using population trends, historical water use, and economic growth, etc. Indicate sources of data and how projected water demands were determined.

Projected water use was determined by averaging the number of individuals anticipated to move to Addison in an individual year. After the projected population in a year was determined we multiplied the average per capita water use per individual. We then multiplied that number by 365 days a year and then added it to our current usage for the year 2008.

	Projected Water
Year	Use
2009	1,784,717,600
2010	1,826,853,200
2011	1,868,988,800
2012	1,911,124,400
2013	1,953,260,000
2014	1,995,395,600
2015	2,037,531,200
2016	2,079,666,800
2017	2,121,802,400
2018	2,163,938,000
2019	2,206,073,600

II. WATER SUPPLY SYSTEM

A. Water Supply Sources

List all current water supply sources and the amounts available with each:

			Source	Amount Availa	<u>ble</u>
	Surfa	ce Water:			_MGD
	Groun	ndwater:			_MGD
	Contr	acts:	Dallas Water Utilities	11	_MGD
	Other	:			_MGD
В.	Treat		Distribution System laily capacity of system: 26.8	MGD	
	2.	Ū	Capacity: Elevated 1.0 MGD, Ground	d_ <u>8.0</u> MG	D
	3.		e water, do you recycle filter backwash to the No X	he head of the pl	ant?
	4. Sk	cetch of sy	stem layout is attached.		

IV. WASTEWATER UTILITY SYSTEM

A.	Wastewater System Data					
	1.	Design capacity of wastev PLANT MGD	vater treatment plant(s)	: <u>NO TREATMENT</u>		
	2.	Is treated effluent used for irrigation on-site <u>N/A</u> , off-site <u>N/A</u> , plant washdown <u>N/A</u> , or chlorination/dechlorination <u>N/A</u> ? If yes, approximately <u>N/A</u> gallons per month. Could this be substituted for potable water now being used in these areas <u>N/A</u> ?				
	3.	Briefly describe the wastewater system(s) of the area serviced by the water utility. Describe how treated wastewater is disposed of. Where applicable, identify treatment plant(s) with the TCEQ name and number, the operator, owner, and, if wastewater is discharged, the receiving stream. Please provide a sketch or map which locates the plant(s) and discharge points or disposal sites. N/A				
В.	Wastewater Data for Service Area					
	 Percent of water service area served by wastewater system: N/A% Monthly volume treated for previous three years (in 1,000 gallons): 					
	Year January Februar March April May June July August Septem October Novem Decemb	ber ber	N/A	N/A		
	Total	<u>N/A</u>	N/A	<u>N/A</u>		

V. Water Conservation Goals, Targets, Tracking and Cost Based Rate Structure

A. Water Conservation Goals

The Water conservation goals for the plan are consistent with regional goals and were developed assuming a year of average rainfall. Per capita goals of 290 gpcd and 270 gpcd are the targets for 2015 and 2020 respectively. The Best Management Practices (BMPs) already in place and proposed for future years are outlined in the next section of the plan.

B. Schedule for Implementing Water Conservation Plan to Achieve Targets and Goals

The Town of Addison will adhere to the following schedule; to achieve the targets and goals for water conservation:

- Calibrations of meters for all treated water deliveries are conducted annually
- The Town of Addison meter replacement program is as follows:
 - Meters will continue to be monitored for accuracy annually and replaced on a fifteen-year cycle
- 500 water audits are conducted annually
 - o Real water losses are identified and corrected
 - O Real water losses are minimized by replacement of deteriorating water mains and appurtenances, as is conducted by Town of Addison staff on an on-going basis
- The Town of Addison will mail out material developed by the staff, materials obtained from the Texas Water Development Board, Texas Commission on Environmental Quality or other sources semi-annually (once in the spring and once in the summer) to all customers
- The leak detection program described in the plan is currently in use by the Town of Addison, which reduces real water losses when unaccounted for water is above 6%
 - o Inspections and soundings of all water main fittings and connections are conducted annually when water losses are above 6%
 - o Intermittent night-flow measurements are conducted annually when water losses are above 6%
 - Pressure is controlled to just above the standard-of-service level by use of SCADA system
 - o Pressure zones are operated based on the topography
 - o Surges in pressure are limited by control valves
 - o Nighttime pressure is reduced by control valves when feasible
- The Town of Addison adopted the 2006 International Plumbing Code, and all new construction or renovations in the city use water conserving fixtures

C. Tracking Targets and Goals

The staff shall track targets and goals by utilizing the following procedures:

- Logs shall be maintained for meter calibration, meter testing, and meter replacement programs
- Annual water audits shall be documented and kept in the Utility Department files
- Staff shall keep a record of the number of mail-outs distributed semi-annually
- Rates are tracked by means of ordinances adopted
- Logs shall be maintained for the utility's Leak Detection Program, including but not limited to the following:
 - o Annual inspections and soundings of water main fittings and connections
 - o Annual intermittent night-flow measurement

D. Water Rate Structure

Currently the Town has a water rate structure that is cost-based and which does not encourage the excessive use of water. Below is a copy of the current ordinance rate structure.

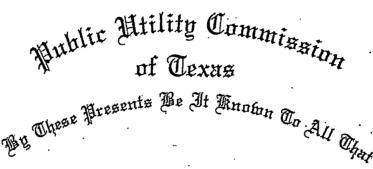
Sec. 82-77. Water rates. The customer classifications, minimum bills, and consumption charges shall be as follows:

(1) Water minimum bills. Minimum monthly bills shall be applied to all customers based upon customer classification and shall include an allowance for volume based upon water consumed as follows:

Customer Classification:	Minimum Monthly Bill	Volume Included (Gallons)
Single-Family Residential	\$9.10	2,000
Multifamily Residential	35.75	15,000
Municipal/Schools	46.00	20,000
Commercial Large (meter size greater than or equal to two inches)	80.85	37,000
Commercial Small (meter size less than two inches)	11.15	3,000
Industrial Large (meter size greater than or equal to two inches)	169.00	80,000
Industrial Small (meter size less than two inches)	11.15	3,000
Hotel/Motel	169.00	80,000
Sprinkler Large (meter size greater than or equal to two inches)	115.70	27,000
Sprinkler Small (meter size less than two inches)	25.50	5,000
Fire Meters	21.40	8,000

⁽²⁾ Water volume rate. All volume exceeds the amount allowed in the minimum bill shall be charged at a rate of \$2.05 per 1,000 gallons of water consumed for all customer classifications, with the exceptions as noted in subsection (3) below.

⁽³⁾ Water conservation volume rate. Single-family residential customers shall be charged a rate of \$4.10 per 1,000 gallons of water for all water consumed in excess of 15,000 gallons. Sprinkler (large and small) customers shall be charged for all volume, which exceeds the amount allowed in the minimum bill, at a rate of \$4.10 per 1,000 gallons of water consumed.



having duly applied for certification to provide water utility service for the convenience and necessity of the public, and it having been determined by this Commission that the public convenience and necessity would in fact be advanced by the provision of such service by this Applicant, is entitled to and is hereby granted this 💛 🐭

Certificate of Convenience and Accessity

numbered 10062, to provide water utility service to that service area or those service areas designated by final Order or Orders duly entered by this Commission, which Order or Orders are on file at the Commission offices in Austin, Texas; and are matters of official record available for public inspection; and be it known further that these.

presents do evidence the authority and the duty of this Grantee to provide such utility service in accordance with the laws of this State and the Rules of this Commission, subject only to any power and responsibility of this Commission to revoke or amend this Certificate in whole or in part upon a subsequent showing that the public convenience and necessity would be better served thereby.

Issued at Austin, Texas, this 1st day of November, 1979.

Philip F. Ricketts SECRETARY OF THE COMMISSION

