

ORDINANCE NO. _____

AN ORDINANCE OF THE TOWN OF ADDISON, TEXAS, AMENDING CHAPTER 82 – UTILITIES, ARTICLE II – WATER, OF THE CODE OF ORDINANCES TO DELETE SECTION 82-98 AND SEPARATELY ADOPTING AN UPDATED WATER CONSERVATION PLAN AS REQUIRED BY CHAPTER 288 OF THE TEXAS ADMINISTRATIVE CODE; AND PROVIDING AN EFFECTIVE DATE.

WHEREAS, the Texas Administrative Code, Chapter 288 requires retail public water suppliers providing water service to more than 3,300 or more connections to adopt a water conservation plan meeting certain minimum requirements; and

WHEREAS, the water conservation plan is an important tool in promoting the conservation of water as a vital natural resource.

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

Section 1. Chapter 82 – Utilities, Article II – Water, Section 82-98 – Water Conservation Plan, of the Code of Ordinances is hereby deleted in its entirety.

Section 2. The Water Conservation Plan attached as **Exhibit A**, is approved and shall be provided to the Texas Commission on Environmental Quality as the official policy and record of the Town. Hereafter, the Town of Addison Water Conservation Plan may be amended by resolution of the City Council.

Section 3. This Ordinance shall become effective from and after its adoption

PASSED AND APPROVED BY THE CITY COUNCIL OF THE TOWN OF ADDISON, TEXAS, on this the 28th day of May 2019.

Joe Chow, Mayor

ATTEST:

Irma Parker, City Secretary

APPROVED AS TO FORM:

Brenda N. McDonald, City Attorney

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Town of Addison
Water Conservation Plan

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Water Conservation Plan For the Town of Addison

1.0 Introduction

The Town of Addison is a thriving metropolitan community located 13.5 miles north of downtown Dallas. The water system serves a permanent population of 15,458 within a 4.5 square mile service area. The Town purchases water treated water from Dallas Water Utilities and sends wastewater to both Dallas Water Utilities and the Trinity River Authority.

During the 2018 calendar year, the Town purchased 1.67 billion gallons of treated water from DWU. The Town's population has remained fairly consistent, but as it grows so will the demand for water. The current contract allows the Town to purchase a maximum of 11 million gallons per day. To date, even in the height of the summer we have yet to ever exceed or even meet that maximum limit. The Town of Addison considers water conservation an integral part of the overall water system.

In 2014 the Town of Addison updated its Water Conservation Five-Year Strategic Plan that included implementation of several Best Management Practices (BMPs) under the following major elements:

- Metering Program
- Leak Detection Program
- Public Education
- "Non-Promotional" Water Rate Structure

The Water Conservation Plan contained herein incorporates data obtained in the 2014 report as well as numerous additional sources such as: North Central Texas Council of Governments, Dallas Water Utilities, Texas Water Development Board, Texas Commission on Environmental Quality, and United States Census Data.

1.1 State of Texas Requirements

The Texas Administrative Code Title 30, Chapter 288 states that for retail public water suppliers providing water service to 3,300 or more connections, a water conservation plan meeting the minimum requirements of Subchapter A of Chapter 288 and using appropriate best management practices must be developed, implemented, and submitted to the Texas Water Development Board (TWDB) no later than May 1, 2019, and every five years after that date to coincide with the regional water planning process.

The requirements of Subchapter A that must be included in the Town of Addison Conservation Plan are summarized below:

- *Minimum Requirements for Municipal Public and Wholesale Water Suppliers*
 - An evaluation of the Applicant's water and wastewater system and customer use characteristics to identify water conservation opportunities and potential targets and goals. Completion of the Water Conservation Utility Profile, TWDB-1965 as part of

Exhibit A



the evaluation is required and should be submitted with the Plan. The utility profile should include the water sales and use for the following classifications: residential (both for single-family and multi-family), commercial, institutional, industrial, agricultural, and wholesale; as appropriate. (Section 2.0 & Appendix A)

- Inclusion of five-year and ten-year targets that are specific and quantified for water savings and include goals for water loss programs in gallons per capita per day, and goals for municipal use and residential use, in gallons per capita per day. A base figure should be included to be able to calculate your savings. Consider state and regional targets and goals, local climate, and demographics. Consider the anticipated savings that can be achieved by utilizing appropriate BMPs and other conservation techniques. (Section 2.1)
- A schedule for implementing the plan to achieve the applicant's targets and goals (Section 3.1)
- A method for tracking the implementation and effectiveness of the plan. The method should track annual water use and provide information sufficient to evaluate the implementation of the conservation methods. The plan should measure progress annually and evaluate the progress towards meeting the goals. (Section 3.2)
- A program of universal metering of both customer and public uses of water, for meter testing, repair, and for periodic replacement. (Section 3.3)
- Measures to determine and control water loss (for example, periodic visual inspections along distribution lines; annual or monthly audit of the water system to determine illegal connections, abandoned services, etc.) (Section 3.4)
- A continuous program of leak detection, repair, and water loss accounting for the transmission, delivery, and distribution system to control water loss. (Section 3.4)
- A program of continuous education and information regarding water conservation. This should include providing water conservation information directly to each residential, industrial, and commercial customer at least annually, and providing water conservation literature to new customers when they apply for service. (Section 3.8)
- A water rate structure which is not "promotional," i.e., a rate structure which is cost-based and which does not encourage the excessive use of water. Include a copy of the current rate structure. (Section 3.5 Appendix A)
- A means of implementation and enforcement evidenced by an ordinance and the formal adoption of the Water Conservation Plan by the governing body of the entity. (Section 3.6, Appendix B and Appendix C)
- Documentation that the regional water planning group for the service area of the applicant has been notified of the applicant's water conservation plan. (Section 3.7)

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- Identification of the person who will be responsible for the preparation of the annual report. (Section 3.9)

This Water Conservation Plan sets forth strategies and BMPs for the long term conservation of water. Under these strategies the Town should be able to improve the overall efficiency of its water uses and help to conserve the area's critical water resources. Short term measures that respond to more temporary or immediate water management conditions (i.e., periods of drought, water emergencies, unforeseen equipment failures or damages, contamination of source water supplies) are described in the Town of Addison's Drought Contingency Plan.

2.0 Water Conservation Planning Goals

The objective of the Town's Water Conservation Plan is to implement methods that efficiently reduce the overall consumption of water, control water losses, and encourage and increase water reuse. The hope is that the implementation of these methods will allow the use of the current available water supply long into the future.

A well-organized and developed water conservation plan successfully reaches its goals without depriving the Town of water for essential uses. It is important to remember that these measures cannot interfere with the minimum pressures and storage requirements set forth by the Texas Commission of Environmental Quality. Thus it is extraordinarily important that the plan is developed with knowledge and input of all the stakeholders, especially the operations staff. A successful water conservation plan will: help the Town avoid future costs associated with the possible purchase of additional water from DWU, extend the life of the existing water supply and water supply infrastructure, and help reduce peak demands in effect increasing the base capacity of the system. Some additional effects may include: positive impact to the environment and improved image to the Town's customer base and surrounding municipalities.

Listed below are several of the planning goals that the Town considered during the water conservation planning process:

- Manage chlorine residuals and water age in the system
- Reduction of water loss and water waste
- Promotion of water reuse such as rainwater harvesting
- Decrease overall consumption without sacrificing critical water need
- Maintain a high quality of life for our customers
- Allow the continued growth of the Town
- Stay within the guidelines of the local water plans (Region C Water Plan)

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- Quantifiable targets and goals
- Public education

2.1 Five- and Ten-Year Goals for Water Savings

The goals described below in Table 1 are based on the historical averages, historical water usage patterns, regional water conservation goals, the implementation of current and future BMP's, and future development possibilities.

Table 1: Town of Addison Five-and Ten-Year Goals for Water Savings

Description	Historic 5 Year Average	Baseline	5-Yr Goal for 2024	10-Yr Goal for 2029
Total (Municipal)	304	305	300	298
Total (Residential)	93	95	92	90
Water Loss (GPCD)	15	20	15	13
Water Loss (Percentage)	5%	7%	5%	4%

The "Total (Municipal)" Category GPCD five- and ten-year category includes the water used by all the use categories. The "Total (Residential)" GPCD five- and ten-year category includes only the usage under the singly-family and multi-family residential categories.

3.0 Addison's Water Conservation Program

This section of the water conservation plan will discuss elements of the Town's existing water conservation plan as well as the enhancements or new BMPs that the Town will implement to achieve our stated water conservation goals.

3.1 Schedule for Implementation

The Town of Addison will adhere to the following schedule to achieve the targets and goals set forth in this Water Conservation Plan:

- Calibrations of meters for all treated water deliveries are conducted annually

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- The Town of Addison meter replacement program
 - Meters will continue to be monitored for accuracy annually and replaced on a fifteen-year cycle or as needed
- Water audits are conducted annually
 - Real water losses are identified and corrected
 - Real water losses are minimized by the replacement of deteriorating water mains and appurtenances. Elements that need replacement are identified utilizing the Town's water system master plan and then are budgeted accordingly
- The Town of Addison will mail out material developed by staff, material obtained by the TCEQ or TWDB, or other sources annually
- The leak detection program is ongoing
 - Yearly valve and hydrant inspections including operation of the unit. Broken or leaking devices are replaced.
 - Pressure is controlled and monitored by the use of a SCADA system. SCADA system is monitored daily and updated annually or sooner if necessary.
 - Pressure zones are operated based on topography
 - Surges in pressure are limited by control valves
- Town of Addison adopted the 2012 International Plumbing Code, and all new construction or renovations in the Town use water conserving fixtures.
- The Town is constantly updating the Water System and Water Storage Facilities Master Plans. Water Storage Master Plan was completed in 2014 and Water System Master Plan was completed in 2016. Plans are reviewed annually for updates
- Annual water loss audit reports are submitted to the TWDB
- Annual water conservation reports are submitted to the TWDB

3.2 Tracking the Effectiveness of the Plan

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

- Logs shall be maintained for meter calibrations, meter testing, and the meter replacement program
- Annual water loss audits shall be performed and submitted to the local agencies. A copy of this report will remain on file at the Town
- Annual water conservation report will be submitted in accordance with requirements
- Staff shall record the number of mail-outs utilized for public awareness and education programs
- Service rates are adopted by local ordinance and we will evaluate those rates annually
- Logs shall be maintained for the Town's leak detection program, including but not limited to the following
 - Annual inspections and soundings of water main fittings and connections
 - Annual intermittent night-flow measurement
 - Annual valve and hydrant inspections
 - Water usage estimates

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3.3 Water Metering

The current Town of Addison ordinance requires metering of all connections to the distribution system. Single-family homes typically have a single meter for both domestic and irrigation. Most multi-family residential locations, such as apartments or condominiums, have individual metering for each building or designated water use and a second meter for irrigation. Most commercial businesses are combined into one “master meter.” However, some areas are individually metered based on the individual needs of the customer/s.

The Town’s Water System Requirements provide further clarification on the approved types of meters. All meters shall meet or exceed the American Water Works Association Standard C707-R92 for Encoder-Type Remote-Registration systems for Cold Water Meters when equipped with an open architecture radio MIU. All irrigation meters, fire meters, and meters four inches (4”) or larger in size shall be turbine meters. All domestic meters two inches (2”) or smaller in size shall be positive displacement meters, unless otherwise approved by the Public Works Director.

Periodic Meter Replacement - Most residential meters with the Town are replaced on a 15-year cycle depending on size and accuracy life of the meter. Repair or replacement of larger meters is generally provided as the accuracy of the meter begins to fall outside the approved plus or minus 1.5 percent range.

3.4 Leak Detection, Repair, and Water Loss Control Measures

The Town of Addison has a fairly comprehensive leak detection and repair program. Leaks are identified by many sources: citizens, Town staff, and water audits. The Town has been utilizing a valve maintenance trailer that allows us to perform a much more intensive program of valve and fire hydrant maintenance. This allows us to be more proactive in the search for leaks which results in much faster location and response times. The Town has updated the Water System Master Plan which includes a Town-wide water model that aids in the identification of deteriorating infrastructure. The plan also includes a Capital Improvements Program for the rehabilitation and replacement of those items.

The Town of Addison will continue to monitor and track water loss. Logs for unaccounted-for water are kept. The Town will also continue to provide the required Water Loss Report to the TWDB annually.

3.5 Water Rate Structure

See attached water rate structure in Appendix A.

3.6 Means to Implement and Enforce the Water Conservation Plan

The Utilities department administers and implements various components of the Water Conservation Program within the Town of Addison as authorized by Ordinance No. 019-19, adopted May 28, 2019.

Exhibit A



3.7 Coordination with the Regional Water Planning Groups

The Town of Addison will provide a copy of this Water Conservation Plan to the Region C Water Planning Group.

3.8 Continuing Public Education Program

- Continue to update and provide new educational material and weblinks on the Town of Addison website to promote and educate customers on all areas of water conservation.
- Coordinate with all internal departments in Addison to promote water conservation efforts by the Town and its associated businesses and residents.
- Provide informational mail-outs and social media posts that will specifically address water conservation efforts to all businesses and residents in Addison.
- Continue to utilize the Surveyor Water Tower Learning Center to promote sustainable water conservation efforts by providing sustainability classes to the public.

3.9 Water Conservation Coordinator Designation

The Town of Addison will designate the Management Assistant for Infrastructure and Development Services as the Water Conservation Coordinator for the Town.

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**Town of Addison Water Conservation Plan
BMPs (Best Management Practices)**

Essential Plan Element	Best Management Practice	Currently Implemented	New Initiative	Recurring
System Operations	System master meters will be calibrated annually	X		X
	Meter Change out program	X		X
	Preparation of annual Water Loss report	X		X
	Visual inspections of distribution lines annually	X		X
	Visual and operational inspections of system valves and hydrants annually	X		X
	Use of audio amplification equipment to locate sources of water leaks		X	X
	Continue to prohibit lawn watering between the hours of 8 AM and 9PM	X		X
	Use of the Town's SCADA system to monitor pressure loss in areas	X		X
Public Education	Continuous updates to the Town's website that promote and educate customers concerning water conservation	X		X
	Work with other Town departments to continually explore water conservation efforts	X		X
	Dedicated mail-outs and door hangers specifically addressing water conservation	X		X

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	Utilize new Learning Center to promote sustainable efforts	X		X
Financial	The Town's present rate structure complies with the "non promotional" water rate structure requirement	X		X

Exhibit A



UTILITY PROFILE FOR RETAIL WATER SUPPLIER

CONTACT INFORMATION

Name of Utility: Town of Addison

Public Water Supply Identification Number (PWS ID): TX0570031

Certificate of Convenience and Necessity (CCN) Number: 10062

Surface Water Right ID Number: _____

Wastewater ID Number: 20018

Contact: First Name: Jason Last Name: Shroyer

Title: Assistant Director of Infrastructure Services

Address: 16801 Westgrove Drive City: Addison State: TX

Zip Code: 75001 Zip+4: _____ Email: jshroyer@addisontx.gov

Telephone Number: 9724502849 Date: 4/2/2019

Is this person the designated Conservation Coordinator? Yes No

Regional Water Planning Group: C

Groundwater Conservation District: _____

Our records indicate that you:

- Received financial assistance of \$500,000 or more from TWDB
- Have 3,300 or more retail connections
- Have a surface water right with TCEQ

A. Population and Service Area Data

1. Current service area size in square miles: 4

Attached file(s):

File Name	File Description
UPDATED Streets_vertical_36x48.pdf	

Exhibit A



UTILITY PROFILE FOR RETAIL WATER SUPPLIER

2. Historical service area population for the previous five years, starting with the most current year.

Year	Historical Population Served By Retail Water Service	Historical Population Served By Wholesale Water Service	Historical Population Served By Wastewater Water Service
2018	15,458	0	15,458
2017	15,368	0	15,368
2016	15,407	0	15,407
2015	15,407	0	15,407
2014	15,180	0	15,180

3. Projected service area population for the following decades.

Year	Projected Population Served By Retail Water Service	Projected Population Served By Wholesale Water Service	Projected Population Served By Wastewater Water Service
2020	14,869	0	14,869
2030	15,895	0	15,895
2040	16,921	0	16,921
2050	17,947	0	17,947
2060	18,973	0	18,973

4. Described source(s)/method(s) for estimating current and projected populations.

Texas Water Development Board - 2021 Regional Water Plan Population Projections

Attached file(s):

File Name	File Description
pop_WUG_search.xlsx	

Exhibit A



UTILITY PROFILE FOR RETAIL WATER SUPPLIER

B. System Input

System input data for the previous five years.
Total System Input = Self-supplied + Imported – Exported

Year	Water Produced in Gallons	Purchased/Imported Water in Gallons	Exported Water in Gallons	Total System Input	Total GPCD
2018	0	1,671,781,188	0	1,671,781,188	296
2017	0	1,738,880,402	0	1,738,880,402	310
2016	0	1,718,372,864	0	1,718,372,864	306
2015	0	1,693,356,926	0	1,693,356,926	301
2014	0	1,714,660,000	0	1,714,660,000	309
Historic Average	0	1,707,410,276	0	1,707,410,276	304

C. Water Supply System

Attached file(s):

File Name	File Description
Figure 2.1 - Existing Water System (Wall Size).pdf	Water System Map

1. Designed daily capacity of system in gallons

2. Storage Capacity
 - 2a. Elevated storage in gallons:
 - 2b. Ground storage in gallons:

Exhibit A



UTILITY PROFILE FOR RETAIL WATER SUPPLIER

D. Projected Demands

1. The estimated water supply requirements for the next ten years using population trends, historical water use, economic growth, etc.

Year	Population	Water Demand (gallons)
2020	14,869	1,730,363,759
2021	15,018	1,734,689,668
2022	15,168	1,739,026,393
2023	15,230	1,743,373,959
2024	15,473	1,747,732,394
2025	15,627	1,752,101,725
2026	15,784	1,756,481,979
2027	15,942	1,760,873,184
2028	16,101	1,765,275,367
2029	16,262	1,769,688,555

2. Description of source data and how projected water demands were determined.

Population data comes from the Texas Water Development Board's Regional Water Plan Population Projections and is adjusted to account for 1% growth in the population per calendar year. The water demand is based on a ten year historical average adjusted 0.25% per year. This accounts for the increased population but does not over-inflate the numbers because of the Town's efforts to educate the population related to water conservation.

Attached file(s):

File Name	File Description
Water Demand Calculations.xlsx	

Exhibit A



UTILITY PROFILE FOR RETAIL WATER SUPPLIER

E. High Volume Customers

1. The annual water use for the five highest volume
RETAIL customers.

Customer	Water Use Category	Annual Water Use	Treated or Raw
CP Addison II, LLC	Commercial	45,820,000	Treated
DCO Glenwood Apartment LP	Residential	22,838,000	Treated
Camden Addison	Residential	19,784,000	Treated
Quorum Hospitality LLC DP	Commercial	18,355,000	Treated
BTP Apartments I LLC	Residential	17,760,000	Treated

2. The annual water use for the five highest volume
WHOLESALE customers.

Customer	Water Use Category	Annual Water Use	Treated or Raw
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F. Utility Data Comment Section

Additional comments about utility data.

Section II: System Data

A. Retail Water Supplier Connections

1. List of active retail connections by major water use category.

Water Use Category Type	Total Retail Connections (Active + Inactive)	Percent of Total Connections
Residential - Single Family	1,773	50.40 %
Residential - Multi-Family	150	4.26 %
Industrial	11	0.31 %
Commercial	900	25.58 %
Institutional	32	0.91 %
Agricultural	652	18.53 %
Total	3,518	100.00 %

Exhibit A



UTILITY PROFILE FOR RETAIL WATER SUPPLIER

2. Net number of new retail connections by water use category for the previous five years.

Net Number of New Retail Connections							
Year	Residential - Single Family	Residential - Multi-Family	Industrial	Commercial	Institutional	Agricultural	Total
2018	0	0	0	0	0	0	0
2017	0	0	0	127	0	463	590
2016	0	0	0	0	0	0	0
2015	33	22	10	97	17	0	179
2014	0	0	0	0	0	651	651

B. Accounting Data

The previous five years' gallons of RETAIL water provided in each major water use category.

Year	Residential - Single Family	Residential - Multi-Family	Industrial	Commercial	Institutional	Agricultural	Total
2018	181,240,590	351,835,200	2,479,000	530,469,480	148,803,400	337,918,400	1,552,746,070
2017	178,901,200	344,949,700	2,833,000	523,279,310	13,970,100	467,993,400	1,531,926,710
2016	176,720,180	322,235,000	2,670,500	513,515,690	18,609,100	448,097,800	1,481,848,270
2015	179,277,250	324,079,270	3,748,900	502,039,030	17,099,600	500,257,340	1,526,501,390
2014	189,591,800	306,888,810	2,454,600	518,082,550	14,323,920	506,645,970	1,537,987,650

Exhibit A



UTILITY PROFILE FOR RETAIL WATER SUPPLIER

C. Residential Water Use

The previous five years residential GPCD for single family and multi-family units.

Year	Residential - Single Family	Residential - Multi-Family	Total Residential
2018	32	63	95
2017	32	61	93
2016	32	57	89
2015	32	58	90
2014	35	55	90
Historic Average	33	59	91

D. Annual and Seasonal Water Use

1. The previous five years' gallons of treated water provided to RETAIL customers.

Month	Total Gallons of Treated Water				
	2018	2017	2016	2015	2014
January	99,697,000	99,910,000	98,218,000	95,425,000	99,515,000
February	90,303,000	94,690,000	103,818,000	86,516,000	93,057,000
March	113,621,000	120,240,000	115,113,000	99,716,000	112,345,000
April	119,819,000	125,710,000	119,795,000	105,757,000	122,162,000
May	155,869,000	156,140,000	119,864,000	99,265,000	147,006,000
June	189,999,000	152,890,000	144,300,000	134,573,000	156,701,000
July	215,757,000	180,790,000	196,946,000	207,160,000	175,081,000
August	208,659,000	181,950,000	205,316,000	244,364,000	194,427,000
September	157,085,000	177,580,000	188,185,000	219,824,000	197,072,000
October	130,622,000	187,990,000	177,200,000	184,622,000	183,439,000
November	109,087,000	141,611,000	129,910,000	111,848,000	125,496,000
December	97,981,000	110,685,000	111,116,000	85,660,000	108,359,000
Total	1,688,499,000	1,730,186,000	1,709,781,000	1,674,730,000	1,714,660,000

Exhibit A



UTILITY PROFILE FOR RETAIL WATER SUPPLIER

2. The previous five years' gallons of raw water provided to RETAIL customers.

Month	Total Gallons of Raw Water				
	2018	2017	2016	2015	2014
January					
February					
March					
April					
May					
June					
July					
August					
September					
October					
November					
December					
Total					

3. Summary of seasonal and annual water use.

	Summer RETAIL (Treated + Raw)	Total RETAIL (Treated + Raw)
2018	614,415,000	1,688,499,000
2017	515,630,000	1,730,186,000
2016	546,562,000	1,709,781,000
2015	586,097,000	1,674,730,000
2014	526,209,000	1,714,660,000
Average in Gallons	557,782,600.00	1,703,571,200.00

Exhibit A



UTILITY PROFILE FOR RETAIL WATER SUPPLIER

E. Water Loss

Water Loss data for the previous five years.

Year	Total Water Loss in Gallons	Water Loss in GPCD	Water Loss as a Percentage
2018	66,621,853	12	3.99 %
2017	82,098,687	15	4.72 %
2016	111,351,594	20	6.48 %
2015	71,115,575	13	4.20 %
2014	92,869,100	17	5.42 %
Average	84,811,362	15	4.96 %

F. Peak Day Use

Average Daily Water Use and Peak Day Water Use for the previous five years.

Year	Average Daily Use (gal)	Peak Day Use (gal)	Ratio (peak/avg)
2018	4,626,024	6678423	1.4437
2017	4,740,235	5604673	1.1824
2016	4,684,331	5940891	1.2682
2015	4,588,301	6370619	1.3884
2014	4,697,698	5719663	1.2175

G. Summary of Historic Water Use

Water Use Category	Historic Average	Percent of Connections	Percent of Water Use
Residential - Single Family	181,146,204	50.40 %	11.87 %
Residential - Multi-Family	329,997,596	4.26 %	21.62 %
Industrial	2,837,200	0.31 %	0.19 %
Commercial	517,477,212	25.58 %	33.91 %
Institutional	42,561,224	0.91 %	2.79 %
Agricultural	452,182,582	18.53 %	29.63 %

Exhibit A



UTILITY PROFILE FOR RETAIL WATER SUPPLIER

H. System Data Comment Section

Section III: Wastewater System Data

A. Wastewater System Data

Attached file(s):

File Name	File Description
SS Collection System 080713.pdf	Sanitary Sewer Map

1. Design capacity of wastewater treatment plant(s) in gallons per day:
2. List of active wastewater connections by major water use category.

Water Use Category	Metered	Unmetered	Total Connections	Percent of Total Connections
Municipal	0	1,923	1,923	67.10 %
Industrial	0	11	11	0.38 %
Commercial	0	900	900	31.40 %
Institutional	0	32	32	1.12 %
Agricultural	0	0	0	0.00 %
Total	0	2,866	2,866	100.00 %

3. Percentage of water serviced by the wastewater system:

Exhibit A



UTILITY PROFILE FOR RETAIL WATER SUPPLIER

4. Number of gallons of wastewater that was treated by the utility for the previous five years.

Month	Total Gallons of Treated Water				
	2018	2017	2016	2015	2014
January					
February					
March					
April					
May					
June					
July					
August					
September					
October					
November					
December					
Total					

5. Could treated wastewater be substituted for potable water?

- Yes
 No

B. Reuse Data

1. Data by type of recycling and reuse activities implemented during the current reporting period.

Type of Reuse	Total Annual Volume (in gallons)
On-site Irrigation	
Plant wash down	
Chlorination/de-chlorination	
Industrial	
Landscape irrigation (park,golf courses)	0
Agricultural	
Discharge to surface water	0
Evaporation Pond	0
Other	
Total	0

Exhibit A



UTILITY PROFILE FOR RETAIL WATER SUPPLIER

C. Wastewater System Data Comment

Additional comments and files to support or explain wastewater system data listed below.

The Town of Addison does not treat wastewater. All wastewater is either treated by Dallas Water Utilities or the Trinity River Authority. The Town does not meter individual wastewater usage.

Exhibit A

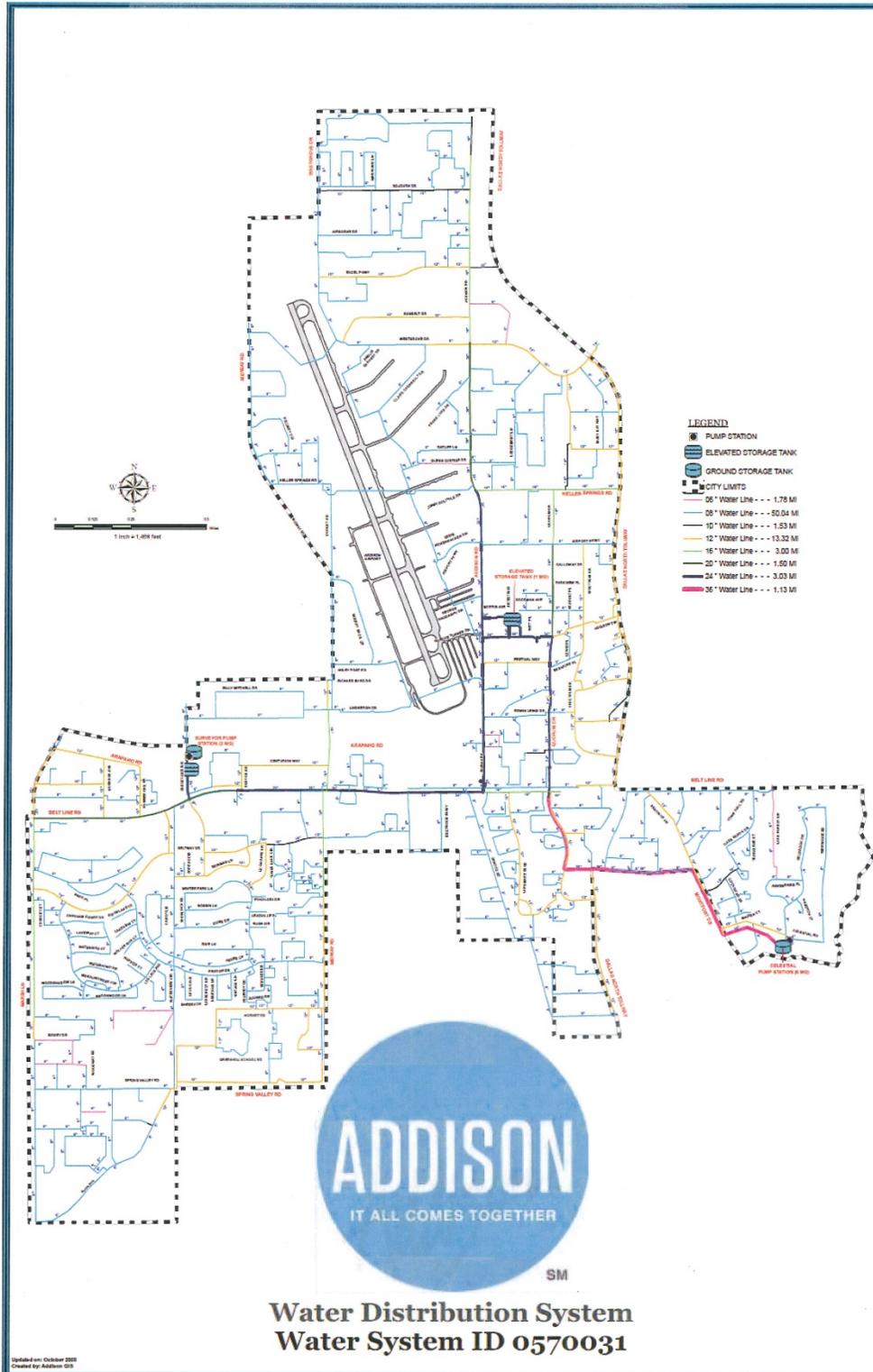


Exhibit A



UTILITY BILLING & COLLECTIONS - CURRENT RATES EFFECTIVE 10/1/2018*

Town of Addison
Finance Department

utilityportal@addisontx.gov

Telephone: (972) 450-7081

Fax: (972) 450-7074

Website: www.addisontexas.net

MINIMUM BILL BY CLASSIFICATION	MINIMUM WATER RATE	MINIMUM SEWER RATE	MINIMUM MONTHLY BILL	VOLUME INCLUDED IN MIN. BILL (GAL)
Single Family 8,000 gal max for sewer	\$12.84	\$15.18	\$28.02	2,000
Multi-Family Large (2" or larger)	\$124.14	\$194.10	\$318.24	37,000
Multi-Family Small (less than 2")	\$54.18	\$81.65	\$135.83	15,000
Municipal	\$38.28	\$56.08	\$94.36	10,000
Schools	\$70.08	\$107.21	\$177.29	20,000
Commercial Large (2" or larger)	\$124.14	\$194.10	\$318.24	37,000
Commercial Small (less than 2")	\$22.38	\$30.52	\$52.90	5,000
Industrial Large (2" or larger)	\$124.14	\$194.10	\$318.24	37,000
Industrial Small (less than 2")	\$16.03	\$20.30	\$36.33	3,000
Hotel/Motel	\$324.48	\$516.14	\$840.62	100,000
Irrigation Large (2" or larger)	\$232.61	None	\$232.61	40,000
Irrigation Small (less than 2")	\$91.28	None	\$91.28	15,000
Fire Meter	\$31.92	None	\$31.92	8,000

VOLUME CHARGE

Water Rate per 1,000 gal Over Minimum	\$3.18
Water Conservation Rate per 1,000 gal	\$5.65
Applies to Irrigation types over the minimum and Single Family type over 15,000 gallons.	
Sewer Rate per 1,000 gal Over Minimum	\$5.12
Residential Monthly Sanitation Charge *(as of 10/01/2018)	\$12.24
Commercial accounts choose their sanitation provider and are not billed by the Town.	

STORMWATER FEES

Residential: Tier 1 (1 - 1,999 sq ft)	\$6.30
Residential: Tier 2 (2,000 - 3,399 sq ft)	\$10.50
Residential: Tier 3 (3,400 - 4,999 sq ft)	\$15.75
Residential: Tier 4 (5,000+ sq ft)	\$26.25
Commercial (per 1,000 sq ft)	\$3.39

**Town of Addison Utility Billing and Collections
P.O. Box 9010, Addison, TX 75001-9010
For questions please call (972) 450-7081**

Exhibit A

Attachment # 1

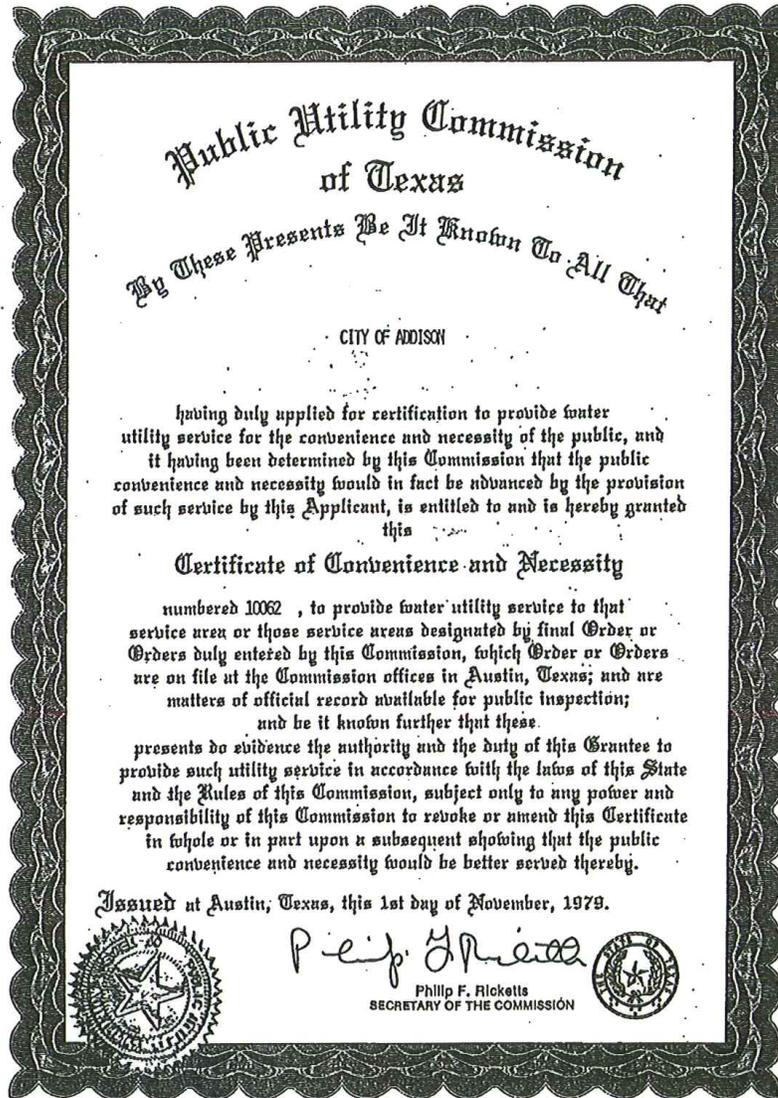


Exhibit A

Appendix B

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ARTICLE V. - DROUGHT CONTINGENCY PLAN

Sec. 34-171. - Non-essential water uses.

Water uses regulated or prohibited under this article (hereinafter referred to as the "Drought Contingency Plan" or the "Plan") are considered to be non-essential and continuation of such uses during times of water shortage or other emergency water supply condition are deemed to constitute a waste of water which subjects the offender(s) to penalties as defined in section 34-179 of this plan.

(Ord. No. 099-030, § 1, 8-24-99; Ord. No. 001-021, § 2(Exh. A), 6-26-01)

Sec. 34-172. - Public education and notification.

- (a) The city, by and through its department of public works, shall periodically provide the public with information about the plan, including information about the conditions under which each stage of the plan is to be initiated or terminated and the drought response measures to be implemented in each stage.
- (b) When drought contingency measures appear to be necessary, the public will be notified through available news media, and additional information on water conservation methods will be distributed. In the event that a trigger condition is reached, the public will be kept fully informed of the status of the drought condition through all available media.
- (c) When a trigger condition has been reached and/or the City of Dallas Water Utilities Department informs the town that drought contingency measures may be necessary, the city manager of the town or the city manager's designee (for purposes of this article, "city manager") will order the initiation of a public notification process. The public notification process will include, but is not limited to, the following:
 - (1) A notice of drought condition will be posted at town hall, the post office, recreation center, and major supermarkets.
 - (2) The notice will be circulated to local newspapers and radio stations via public service announcement. Information regarding the contingency measures for the drought condition will be mailed to all water customers by means of utility bill inserts and posted on the town's web page.

(Ord. No. 099-030, § 2, 8-24-99; Ord. No. 001-021, § 2(Exh. A), 6-26-01; Ord. No. 011-071, § 1(Exh. A), 11-22-11)

Sec. 34-173. - Coordination with regional water planning groups.

The service area of the city is located within Texas Commission on Environmental Quality ("TCEQ") Region C and the Town of Addison, Texas ("town" or "city") has provided a copy of this plan to the TCEQ, City of Dallas, and State Planning Region.

(Ord. No. 099-030, § 3, 8-24-99; Ord. No. 001-021, § 2(Exh. A), 6-26-01; Ord. No. 005-056, § 1(Exh. A), 10-25-05; Ord. No. 011-071, § 1(Exh. A), 11-22-11)

Sec. 34-174. - Authorization.

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

(Ord. No. 099-030, § 4, 8-24-99; Ord. No. 001-021, § 2(Exh. A), 6-26-01; Ord. No. 011-071, § 1(Exh. A), 11-22-11)

Sec. 34-175. - Application.

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

(Ord. No. 099-030, § 5, 8-24-99; Ord. No. 001-021, § 2(Exh. A), 6-26-01)

Sec. 34-176. - Definitions.

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

Aesthetic water use means water use for ornamental or decorative purposes such as fountains, reflecting pools, and water gardens.

Commercial and institutional water use means water use which is integral to the operations of commercial and non-profit establishments and governmental entities such as retail establishments, hotels, and motels, restaurants, and office buildings.

Conservation means 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.

Customer means any person, company, or organization using water supplied by the city.

Domestic water use means water use for personal needs or for household or sanitary purposes such as drinking, bathing, heating, cooking, sanitation, or for cleaning a residence, business, industry, or institution.

Even-numbered address means service addresses on the utility account ending in 0, 2, 4, 6, or 8 and locations without addresses.

Industrial water use means the use of water in processes designed to convert materials of lower value into forms having greater usability and value.

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

Non-essential water use means water uses that are not essential nor required for the protection of public, health, safety, and welfare, including:

- (1) Irrigation of landscape areas, including parks, athletic fields, and golf courses, except as otherwise provided under this plan;
- (2) Use of water to wash any motor vehicle, motorbike, boat, trailer, airplane or other vehicle;
- (3) Use of water to wash down any sidewalks, walkways, driveways, parking lots, tennis courts, or other hard-surfaced areas;
- (4) Use of water to wash down buildings or structures for purposes other than immediate fire protection;
- (5) Flushing gutters or permitting water to run or accumulate in any gutter or street;
- (6) Use of water to fill, refill, or add to any indoor or outdoor swimming pools or Jacuzzi-type pools;
- (7) Use of water in a fountain or pond for aesthetic or scenic purposes except where necessary to support aquatic life;
- (8) Failure to repair a controllable leak(s) within a reasonable period after having been given notice directing the repair of such leak(s); and
- (9) Use of water from hydrants for construction purposes or any other purposes other than fire fighting.

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Odd-numbered address means service addresses on the utility account ending in 1, 3, 5, 7, or 9.

(Ord. No. 099-030, § 6, 8-24-99; Ord. No. 001-021, § 2(Exh. A), 6-26-01; Ord. No. 011-071, § 1(Exh. A), 11-22-11)

Sec. 34-177. - Triggering criteria for initiation and termination of drought response stages.

The triggering criteria for each drought response stage shall be as follows:

Stage 1

Triggering criteria: Total raw water supply in connected lakes drops below 65 percent of total conservation storage, demand exceeds 85 percent of deliverable capacity for four consecutive days, short term deficiencies in distribution system limit supply capability, or natural or man-made contamination of the water supply source(s) occurs.

Below are examples of the types of triggering criteria that might be used in a drought contingency plan. One or a combination of such criteria may be defined for each drought response stage:

Example 1: When, pursuant to requirements specified in the city wholesale water purchase contract with the City of Dallas, notification is received requesting initiation of Stage 1 of the drought contingency plan.

Example 2: Continually falling treated water reservoir levels which do not refill above 60 percent overnight (e.g., based on an evaluation of minimum treated water storage required to avoid system outage).

Goal for use reduction and action available under Stage 1:

The goal for water use reduction under Stage 1 is a five-percent voluntary reduction in water use that would have occurred in the absence of drought contingency measures. The city manager may order the implementation of any of the actions listed below, as deemed necessary:

- The city manager requests voluntary reductions in water use.
- Prohibit residential or commercial lawn watering and car washing between the hours of 9:00 a.m. and 8:00 p.m.
- Accelerate public information efforts to teach and encourage reduced water use.
- Staff will begin a review of the problems which initiated the Stage 1 actions.
- Intensify efforts on leak detection and repair.
- Notify major water users and work with them to achieve voluntary water use reduction.
- Reduce city government use of water for street washing, vehicle washing, operation of ornamental fountains and all other nonessential use.
- Request a reduction in landscape watering by city government.

Termination criteria: All initiated actions will remain in effect until the conditions which triggered Stage 1 have been alleviated and would be unlikely to recur upon termination. If Stage 1 is initiated because of excessive demands, all initiated actions will remain in effect until the city manager or the director of Dallas Water Utilities determines that these measures are no longer required.

Stage 2

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Triggering criteria: Total raw water supply in connected lakes drops below 55 percent of total conservation storage or demand exceeds 90 percent of deliverable capacity for three consecutive days, or short term deficiencies in distribution system limit supply capability, or natural or man-made contamination of the water supply source(s) occurs. Stage 2 actions will not ordinarily be taken until Stage 1 actions have first been implemented.

Goals for reduction and actions available under Stage 2.

The goal for water use reduction under Stage 2 is a 15-percent reduction in the use that would have occurred in the absence of drought contingency measures. All requirements implemented under Stage 1 shall remain in effect during Stage 2, and the city manager may order the implementation of any of the actions listed below, as deemed necessary:

- Prohibit hosing off of paved areas, buildings or windows; operation of swimming pool draining followed by refilling, washing or rinsing vehicles by hose; using water in such a manner as to allow runoff or other water wastes.
Exceptions: Vehicles may be washed or rinsed with a hose at commercial car washes; vehicles may be washed at any location with a bucket or other container.
- Limit landscape watering at each service address to two days per week based on the last digit of the address per the schedule below.

Last Digit of Address	Allowed Water Days
Odd-numbered address	Tuesday and Saturday
Even-numbered address	Wednesday and Sunday

Apartments, office building complexes or other property containing multiple addresses will be identified by the lowest address number.

Where there are no numbers, a number will be assigned by the city manager. These restrictions also apply to government facilities.

Exceptions: Foundations and new plantings (first year) of trees and shrubs may be watered with a hand-held or soaker hose on any day for up to two hours; nurseries may water plant stock only without restrictions; public gardens may water twice per week on Mondays and Fridays.

Enforcement: Violations of restrictions will result in a warning, and then a citation may be issued with a fine not to exceed \$2,000.00 per incident.

Termination criteria: All initiated actions will remain in effect until the conditions which triggered Stage 2 have been alleviated and would be unlikely to recur upon termination. If Stage 2 is initiated because of excessive demands, all initiated actions will remain in effect until the city manager or the director of Dallas Water Utilities determines that conditions exist which will allow removal of Stage 2 actions.

Stage 3

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Triggering criteria: Total raw water supply in connected lakes drops below 45 percent of total conservation storage, demand exceeds 95 percent of deliverable capacity for two consecutive days, short term deficiencies in distribution system limit supply capability, or natural or manmade contamination of the water supply source(s) occurs. Stage 3 actions will not ordinarily be taken until Stage 2 actions have first been implemented.

Goals for reduction and actions available under Stage 3.

The goal for water use reduction under Stage 3 is a 20-percent reduction in the use that would have occurred in the absence of drought contingency measures. All requirements implemented in Stages 1 and 2 shall remain in effect, and the city manager may order the implementation of any of the actions listed below, as deemed necessary:

- Commercial and residential landscape watering will be limited to foundations, shrubs, and trees, which may be watered with soaker or hand-held hose on the same two days per week basis set forth in the schedule in Stage 2 above for up to two hours.
- Public gardens may water on the same two days per week basis set forth in the schedule in Stage 2 above.
- Nurseries may water plant stock only between the hours of 9:00 p.m. and 9:00 a.m.
- Prohibit operations of ornamental fountains, except where necessary to support aquatic life or where equipped with a recirculation system.

Enforcement: Violations of restrictions will result in a warning, and then a citation may be issued with a fine not to exceed \$2,000.00 per incident.

Termination criteria: All initiated actions will remain in effect until the conditions which triggered Stage 3 have been alleviated and would be unlikely to recur upon termination. If Stage 3 is initiated because of excessive demands, all initiated actions will remain in effect until the city manager or the director of Dallas Water Utilities determines that conditions exist which will allow removal of Stage 3 actions.

Stage 4

Triggering criteria: Total raw water supply in connected lakes drops below 30 percent of total conservation storage, demand exceeds 98 percent of deliverable capacity for one day, short term deficiencies in distribution system limit supply capability, or natural or man-made contamination of the water supply source(s) occurs. Stage 4 actions will not ordinarily be taken until Stage 3 actions have first been implemented.

Goals for reduction and actions available under Stage 4:

The goal for water use reduction under Stage 4 is a 25-percent reduction in the use that would have occurred in the absence of drought contingency measures. If circumstances warrant or if required by Dallas Water Utilities ("DWU"), city manager can set a goal for a greater water use reduction.

The city manager must implement any action(s) required by DWU. In addition, the city manager may order the implementation of any of the actions listed below, as deemed necessary. All requirements implemented in Stages 1, 2 and 3 shall remain in effect during Stage 4. Measures described as "requires notification to TCEQ" impose mandatory requirements on customers. The supplier must notify TCEQ within five business days if these measures are implemented:

- Prohibit all commercial and residential landscape watering with the following exceptions:
 - Nurseries' plant stock may be watered between the hours of 9:00 p.m. and 9:00 a.m. two days per week, based on the last digit of their address per the schedule in Stage 2.
 - Public gardens may water foundations, shrubs and trees between the hours of 9:00 p.m. and 9:00

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a.m. two days per week, based on the last digit of their address per the schedule in Stage 2.

- Foundations may be watered for a two-hour period between the hours of 9:00 p.m. and 9:00 a.m. with a soaker or hand-held hose on the two day per week basis prescribed for landscape watering in Stage 2.
- Any and all washing of vehicles is prohibited.
- All commercial water users may be required to reduce water consumption by a percentage determined by the city manager.

Enforcement: Violations of restrictions will result in a warning, and then a citation may be issued with a fine not to exceed \$2,000.00 per incident.

Termination criteria: All initiated actions will remain in effect until the conditions which triggered Stage 4 have been alleviated and are unlikely to recur upon termination. If Stage 4 is initiated because of excessive demands, all initiated actions will remain in effect until the city manager or the director of Dallas Water Utilities determines that conditions exist which will allow removal of Stage 4 actions.

Stage 5

- (a) *System outage due to major water system components—Triggering criteria:* A system outage to one of the town's two water pump stations, which are located at each end of town. In the event of such outage, the second pump station will be used. In addition, the Town of Addison has four City of Dallas emergency stand-by meters connected to the town's distribution system that can be used to supplement the town's supply after notification to the City of Dallas.

Goals for reduction and actions available under Stage 5:

The goal for water use reduction under Stage 5 is a reduction to prevent public health emergencies that would have occurred in the absence of drought contingency measures. If circumstances warrant or if required by Dallas Water Utilities ("DWU"), city manager can set a goal for a greater water use reduction.

The city manager must implement any action(s) required by DWU. In addition, the city manager may order the implementation of any of the actions listed below, or other actions not included, as deemed necessary. Measures described as "requires notification to TCEQ" impose mandatory requirements on member cities and customers. The supplier must notify TCEQ within five business days if these measures are implemented:

- Initiate or continue implementation of all restrictions from previous stages as directed by the city manager.
- Prohibit all commercial and residential landscape watering. All commercial water users will be required to reduce water consumption by a percentage determined by the city manager.

- (b) *Supply source contamination special precautions—Triggering criteria:* Water system contamination caused by low distribution pressures (below 20 psi), repeated unacceptable microbiological samples, or failure to maintain adequate chlorine residuals. In the event of such contamination, the affected area shall be isolated from the distribution system immediately and special precautions shall be taken in accordance with subsection (q), "Special Precautions," of Section 290.46, "Minimum Acceptable Operating Practices for Public Drinking Water Systems," of Subchapter D, "Rules and Regulations for Public Water Systems," of Chapter 290, "Public Drinking Water," of Part 1, "Texas Commission on Environmental Quality," of Title 30, "Environmental Quality," of the Texas Administrative Code, in its current form and as it may hereafter be amended.

Water customers in the affected area shall be notified immediately with a "boil water notice" and a letter explaining the situation and containing recommendations to the water customer regarding the use of bottled water. The "Flow chart" contained in Appendix H of Section 290.47, "Appendices," of Subchapter D, "Rules and Regulations for Public

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Water Systems," of Chapter 290, "Public Drinking Water, of Part 1, "Texas Commission on Environmental Quality," of Title 30, "Environmental Quality," of the Texas Administrative Code, in its current form and as it may hereafter be amended, shall be used to evaluate the response measures necessary to correct the condition.

Actions available (applied to all affected customers).

- Hand deliver boil water notice to all water customers affected.
- Prohibit all water usage for human consumption for 24 to 36 hours, as determined by the city manager.

Enforcement: Violations of restrictions will result in a warning, and then a citation may be issued with a fine not to exceed \$2,000.00 per incident.

Termination criteria: All initiated actions will remain in effect until the conditions which triggered Stage 5 have been alleviated. If Stage 5 is initiated because of water supply contamination, all initiated actions will remain in effect until the city manager determines that conditions exist which will allow removal of Stage 5 actions.

(Ord. No. 099-030, § 7, 8-24-99; Ord. No. 001-021, § 2(Exh. A), 6-26-01; Ord. No. 005-056, § 1(Exh. A), 10-25-05; Ord. No. 011-071, § 1(Exh. A), 11-22-11)

Sec. 34-178. - Variances.

- (a) *Temporary variances.* The city manager 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:
- (1) 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.
 - (2) Alternative methods can be implemented which will achieve the same level of reduction in water use.
- (b) *Exemptions.* Persons requesting an exemption from the provisions of this article shall file a petition for a variance with the city within five days after the plan or a particular drought response stage has been invoked. All petitions for variances shall be reviewed by the city manager and shall include the following:
- (1) Name and address of the petitioner(s).
 - (2) Purpose of water use.
 - (3) Specific provision(s) of the plan from which the petitioner is requesting relief.
 - (4) Detailed statement as to how the specific provision of the plan adversely affects the petitioner or what damage or harm will occur to the petitioner or others if petitioner complies with this article.
 - (5) Description of the relief requested.
 - (6) Period of time for which the variance is sought.
 - (7) Alternative water use restrictions or other measures the petitioner is taking or proposes to take to meet the intent of this plan and the compliance date.
 - (8) Other pertinent information as may be required by the city manager.
- (c) *Special conditions.* Variances granted by the city manager shall be subject to the following conditions, unless waived or modified by the city manager:
- Variances granted shall include a timetable for compliance.
 - Variances granted shall expire when the plan is no longer in effect, unless the petitioner has failed to meet specified requirements.

No variance shall be retroactive or otherwise justify any violation of the plan occurring prior to the issuance of the variance.

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(Ord. No. 099-030, § 8, 8-24-9; Ord. No. 001-021, § 2(Exh. A), 6-26-01; Ord. No. 011-071, § 1(Exh. A), 11-22-11)

Sec. 34-179. - Penalty.

It shall be unlawful for any person to violate any provision of this article, and any person violating or failing to comply with any provision hereof shall be fined, upon conviction, in an amount not more than \$2,000.00, and a separate offense shall be deemed committed each day during or on which a violation occurs or continues.

(Ord. No. 099-030, § 11, 8-24-99; Ord. No. 001-021, § 2(Exh. A), 6-26-01)

Secs. 34-180—34-200. - Reserved.

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Appendix C