

City of University Park
Water Conservation Plan and Drought Contingency Plan
Executive Summary

An updated and revised Water Conservation Plan and Drought Contingency Plan are required to be submitted to the Texas Commission on Environmental Quality (TCEQ), the Texas Water Development Board (TWDB) and Region C Water Planning Group every five years. The Water Conservation Plan is a combination of required and voluntary programs and strategies aimed at reducing the amount of water withdrawn from the City's supply source, Grapevine Lake. The goals established within the Water Conservation Plan are not enforceable. The Drought Contingency Plan is a combination of strategies developed to manage the City's water supply during times of water supply shortages and water emergencies. Stages within the Drought Contingency Plan are initiated during times of drought, water supply contamination, and treatment or delivery system failure.

The Water Conservation Plan has been updated and revised as required due to changes in the governing rules, in the City's strategies, and by adding items omitted from the previous plan. A summary of these changes is provided below.

Total gallons per capita per day (Total GPCD). Total water use goals for the City are the total water purchased in a year by the City from the District divided by the City's population, divided by the number of days in the reporting year.

Residential GPCD. Total gallons sold by the City in a year for residential use (indoor and outdoor) divided by the City's residential population, divided by the number of days in the reporting year.

- *Previous Conservation Plan 2013 Target*
 - Water Use: 235 gpcd (6% reduction in baseline average of 250 gpcd).
 - Water Loss: Reduce water loss to 10% or less
- *Water Use Through 2013*
 - Water Use: Averaged 257.3 GPCD from 2009-2013 (a 5.2% increase over the previous 5-year reporting average of 244.6 from 2004-2008).
 - Water Loss: Averaged 11.94% from 2009-2013, an improvement over the 2004-2008 average of 13.29%
 - The City did not meet its 5-year goals, but has show improvement in calendar year water use since 2011.
- *New Voluntary 5-Year Goals*
 - New goals are consistent with North Texas water suppliers' goals in percent reduction.
 - Target date of December 31, 2018
 - Water Use: Total water use of 247 GPCD. Residential water use of 217.5 GPCD (both are a 4% reduction in total GPCD over the next 5 years).
 - Water Loss: Reduce water loss to 10% or less (24.7 GPCD)

- *New Voluntary 10-Year Goals*
 - Target date of December 31, 2023
 - Water Use: Total water use of 245.7 GPCD. Residential water use of 216.4 GPCD (both are a 4.5% reduction in total GPCD over the next 5 years).
 - Water Loss: Maintain water loss at 10% or less (<24.6 GPCD)

Implementation Reports were submitted over the past 5 years as required by the TWDB in order to track the effectiveness of each conservation measure. This report will continue to be submitted by May 1 every year as required under State law by the City. New requirements related to residential GPCD goals were added to the Plan, as well as revised definitions by the State. All other sections were revised to reflect updates to the City's Water Conservation Program and Code of Ordinances, including the new conservation water rate structure as adopted in Ordinance Number 13-012.

Review of existing conservation strategies and Best Management Practices has led the City to adopt the following changes:

- No Implementation of Water Surveys for Single Family and Multi-Family Customers
- Revised water rate structure in September 2013, in order to implement a conservation surcharge
- Continued study of a tiered rate structure for possible future implementation
- Planned adoption of an Ordinance in May 2014 requiring smart meters on all new irrigation installations in order to better track the City's irrigation use.

There were no changes to the rules related to Drought Contingency Plans by the TCEQ or TWDB. The City of Dallas revised their Drought Contingency Plan so that it now only contains three Stages, which negligibly impacts the City's regional effort clause in Stages I and II of the Drought Contingency Plan. Implementation and enforcement of 4 drought stages is consistent with the guidelines and recommendations set forth in the *2011 Region C Water Plan* for North Texas water suppliers. The District, the City, and the Town all agreed that no changes should be made to the District's regional effort clause in the Drought Contingency Plans.

If the City of Dallas initiates Stage I and/or Stage II of their Drought Contingency Plan, the District and City will continue to initiate Stage I and/or Stage II as well. The second involves modified water supply initiation triggers by the District. Normal volume triggers for initiating various stages for the City remain the same and are as follows:

- *Stage I:* The District's water supply in Grapevine Lake becomes 35% depleted.
- *Stage II:* The District's water supply in Grapevine Lake becomes 45% depleted.
- *Stage III:* The District's water supply in Grapevine Lake becomes 55% depleted.
- *Stage IV:* The District's water supply in Grapevine Lake becomes 70% depleted.