

ORDINANCE NO. 2018-56

**AMENDING THE CITY OF KINGSVILLE CODE OF ORDINANCES BY AMENDING CHAPTER V, ARTICLE 3, WATER, SECTIONS 100-103; PROVIDING FOR UPDATED INFORMATION IN THE WATER CONSERVATION MANAGEMENT PLAN; REPEALING ALL ORDINANCES IN CONFLICT HEREWITH AND PROVIDING FOR AN EFFECTIVE DATE AND PUBLICATION.**

**WHEREAS**, this Ordinance is necessary to protect the public safety, health, and welfare of the City of Kingsville.

**NOW THEREFORE, BE IT ORDAINED BY THE CITY COMMISSION OF THE CITY OF KINGSVILLE, TEXAS:**

I.

**THAT** Sections 5-3-100 through 5-3-103 of Article 3: Water of Chapter V, Public Works of the Code of Ordinances of the City of Kingsville, Texas, shall be adopted to read as follows:

**WATER CONSERVATION  
MANAGEMENT PLAN**

**§ 5-3-100 BRIEF DESCRIPTION OF PLANNING AREA**

The City of Kingsville in Kleberg County provides water utility service to portions of approximately 13.6 sq. mi. Service is provided throughout the City limits and to portions of Kleberg County which lie near the City limits. The service population is approximately 26,215. This includes service to Texas A&M Kingsville and Naval Air Station Kingsville (NAS) which are the two major consumers of water. The sources of the City's water supply are groundwater which is composed of 7 wells drilled into the Goliad Aquifer, and surface water which is treated by City of Corpus Christi and purchased from the South Texas Water Authority.

The City also provides wastewater collection and treatment services to nearly all the residents and commercial establishments within the City limits. There are two wastewater treatment plants, the North Plant, capacity of 3MGD and the South Plant, capacity of 1MGD.

**§ 5-3-101 UTILITY EVALUATION DATA**

Projecting future population and water requirements based on historical patterns do not follow state trends. Although the population of Texas is growing, Kingsville's population has remained constant over the past 10 years. The 2010 census reports a population of 26,215 and estimated 2016 demographics by the

U.S. Census Bureau are 26,071. The population has remained fairly stable as the major employers: Texas A&M University-Kingsville, NAS-Kingsville and Celanese have maintained their employment base. The major factor affecting future population is the status of NAS-Kingsville and the Federal Base Closure Committee. If NAS-Kingsville is reduced or closed, the potential decrease in population could be as much as 2,500 employees. Another alternative is a similar increase in population if the Base Closure Committee closes the NAS in Meridian, Mississippi and those forces are relocated to Kingsville.

At this time, Kingsville's water supply is more than double the demand. Average daily demand is 3.6 million gallons per day (mgd) and our current pumping capacity is 14.7 mgd. Peak demand was 4.9 mgd. Our per capita consumption is 141 gallons per day, which represents 3.7 mgd. The remaining pumping capacity of 9.8 mgd is used for city utility usage, commercial supply, firefighting purposes and other emergency conditions. If an additional 2,500 people moved to Kingsville, the average daily demand could be expected to increase to 4.0 mgd based on per capita consumption. Even with a corresponding increase in commercial usage, the existing supply would be sufficient

### **§ 5-3-102 NEED FOR GOALS OF THE PROGRAM**

The major goal of Kingsville's Water Conservation Plan is to reduce gallons per capita per day (gpcd) of water consumption. Currently the daily gpcd water consumption is 141. It is the goal of the City of Kingsville to reduce daily gpcd water consumption by 1% each year resulting in a gpcd of 135.40 in the year 2022.

Additionally, the City of Kingsville has made long range plans for maintaining the City's groundwater supply at least the same capacity as the present, 8mdg. If production from existing wells should fall below this, a replacement well will be required. However, careful investigation and consideration of the location for replacement wells will be made in order to minimize draw down and over pumping the aquifer.

### **§ 5-3-103 LONG-TERM WATER CONSERVATION PLAN ELEMENTS**

#### **A. Education and Information**

The City intends to use public notification and education through the local newspaper, the Kingsville Record; the Public Access station on local Cable-TV station (CMA, KingTV69, KvllTV18); local radio station (KTAI); and area news media such as the Corpus Christi Caller-Times newspaper and the three network affiliate television stations in Corpus Christi: (Channels 3, 6, 10). Brochures prepared by the Texas Water Development Board with general information

concerning water conservation will be distributed to new customers when applying for service.

Other information such as indoor water conservation and landscaping water conservation are distributed to the public at special events such as Earth Day, school functions, Water Utility Awareness Week etc.

**B. Conservation-Oriented Water Rate Structure**

The current water rate structure (increasing block rate) should promote water conservation practices.

**C. Metering Program**

The City completed a residential meter accuracy test in 2017 and is planning to replace radio read devices on meters in FY 2019. The City also has a meter testing program. The Utility Billing Department has a portable meter tester which is utilized in the field for meter testing. All meters six inch and larger are to be tested annually for accuracy and for deviations from 100% greater or less than 2%, the meter is re-calibrated.

**D. Leak detection and repair**

The City will maintain its program as follows:

1. Utility Billing automatically separates high usage readings from the other billings. These are re-read for accuracy. If there is actually high usage, the customer is notified to check for leaks.

2. Monthly comparisons of total water sales and water produced.

3. Continuous monitoring of storage tanks to detect water main breaks.

4. Visual inspection by meter readers and City employees for abnormal conditions indicating leaks.

5. Prompt repair of water system leaks and water main breaks.

**6. Implementation and Enforcement**

Except as provided for by other existing City ordinances, compliance with the City's water conservation program will be voluntary. The user charges for the water system are substantial; therefore, voluntary compliance with water conservation measures should be effective.

**7. Periodic Review and Evaluation**

The City of Kingsville will evaluate the effectiveness of this plan annually and report the progress towards the City's stated goals to the Texas Water Development Board until all financial obligations to the State have been discharged.

8. Water-Conserving Landscape Programs

The City of Kingsville actively supports the efforts of the local Kingsville Gardeners Club and Keep Kingsville Beautiful Committee. This committee of volunteers has conducted several demonstrations and educational events to inform citizens about the use of native, drought tolerant plants in local landscaping.

9. Distribution System Pressure Control

The City's water supply controls operate on a Supervisory Control and Data Acquisition System which monitors storage tank levels and converts that information into pressure readings. There is continual monitoring of these readings. Furthermore, pressure indicators and recorders have been installed in two critical points in the distribution system. This information is also monitored at least daily. These pressure indicators alert City personnel if severe changes occur which are then investigated immediately.

10. Water Recycling and Reuse Programs

The City of Kingsville has an as needed wastewater reuse program for the L.E. Ramey Golf Course to use effluent water for irrigation purposes.

11. Five-year and Ten-year targets

The City of Kingsville has goals to reduce the total gpcd by 1% each year resulting in a gpcd of 133.95 in the year 2023 and a gpcd of 126.90 in the year 2028. Water loss expressed in gpcd also has a goal of 1% reduction each year resulting in a water loss gpcd of 4.75 in the year 2023 and a gpcd of 4.5 in the year 2028.

II.

**THAT** all Ordinances or parts of Ordinances in conflict with this Ordinance are repealed to the extent of such conflict only.

III.


**THAT** if for any reason any section, paragraph, subdivision, clause, phrase, word or provision of this ordinance shall be held invalid or unconstitutional by final judgment of a court of competent jurisdiction, it shall not affect any other section, paragraph, subdivision, clause, phrase, word or provision of this ordinance, for it is the definite intent of this City Commission that every section, paragraph, subdivision, clause, phrase, word or provision hereof be given full force and effect for its purpose.

IV.

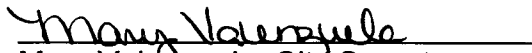
THAT this Ordinance shall be codified and become effective on and after adoption and publication as required by law.

INTRODUCED on this the 10<sup>th</sup> day of September, 2018.

PASSED AND APPROVED on this the 24<sup>th</sup> day of September, 2018.

  
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Sam R. Fugate, Mayor

ATTEST:

  
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Mary Valenzuela, City Secretary

APPROVED AS TO FORM:

  
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Courtney Alvarez, City Attorney

Effective Date: October 11, 2018