ORANGE COUNTY WATER CONTROL & IMPROVEMENT DISTRICT NO. 1

LONG-TERM WATER CONSERVATION PLAN

DESCRIPTION OF DISTRICT –

The District was created by an order of the Texas State Board of Water Engineers on January 26, 1948 and operates pursuant to Chapter 51 of the Texas Water Code. The area of the District is 8,037 acres. The District provides water and sewer service to the Vidor Community located in Orange County, Texas.

GOAL –

The District will strive to obtain significant conservation savings without burdening its customers with extra cost while still generating enough water savings to extend the life of the existing supply. It is the goal of the District to achieve a .5% reduction in gallons per capita per day per year.

Table 1-1. Initial Performance Indicator Goals

DESCRIPTION	UNITS	2019	2024	2029
TOTAL WATER USE	GPCD	73	71	69
RESIDENTIAL WATER USE	GPCD	44	57	55
WATER LOSS	GPCD	12	11	10
WATER LOSS	PERCENTAGE	16	15	14

DESCRIPTIONS OF DISTRICT'S FACILITIES –

Sewer System:

As of April 30, 2014 the District has begun full operation of the new 3.0 MGD Wastewater Treatment Plant. The District owns and operates sewer collection lines with sufficient lift stations. The sewer system has 10 generators for emergency backup.

Water System:

The water system currently consists of the following water wells:

Name	Capacity
Well No. 4	1,000 GPM
Well No. 5	1,900 GPM
Well No. 7	2.500 GPM

With the implementation of the new water facilities, the water system has two 500,000 gallon elevated storage facilities and three ground storage facilities with a combine capacity of 1,322,000 gallons.

The District maintains a master meter to measure and account for the amount of water diverted from the source of supply.

The District has water distributions lines with meters to measure customer usage. Three-fourths of the District's meters are electronic meters and the reading is done by District employees.

WATER USE CHARACTERISTICS AND WATER CONSERVATION POSSIBILITIES –

The District is located in an area of the State that receives ample rainfall which results in little lawn or garden watering. Although this area has ample rainfall, the District has made water conservation a constant goal.

Water Conservation efforts have been significantly improved by the District's methods of operations along with increasing public awareness and expanding public education regarding water conservation.

DISTRICT INITIATIVES:

1. Reduce need for water line flushing by stopping all flushing of dead-end lines as soon as the residual is sufficient.

2. Reduce need for water line flushing by replacing cast iron water lines with PVC.

3. A goal of the District is to refine rate structures to improve their impact on water conservation and to manage cost of service more effectively. To achieve this goal, the trends of use by customer class are being analyzed and rates/fees will be proportionately increased.

   The District's current water and sewer rate structure is shown below is Table 1-2.

Table 1-2. Water and Sewer Rate Structure

RESIDENTIAL - WATER & SEWER				
WATER	GALLONS	0-2000	$ 11.81	MINIMUM
		2000 +	$ 0.26	PER 100
SEWER	GALLONS	0-2000	$ 14.18	MINIMUM
		2000 +	$ 0.26	PER 100
WATER ONLY	FLAT RATE		$ 32.61	
SEWER ONLY	FLAT RATE		$ 34.98	
COMMERCIAL - WATER & SEWER				
WATER	GALLONS	0-2000	$ 13.26	MINIMUM
		2000 +	$ 0.29	PER 100
SEWER	GALLONS	0-2000	$ 15.92	MINIMUM
		2000 +	$ 0.29	PER 100
RESIDENTIAL - OUT OF DISTRICT - WATER & SEWER				
WATER	GALLONS	0-2000	$ 23.62	MINIMUM
		2000 +	$ 0.52	PER 100
SEWER	GALLONS	0-2000	$ 28.36	MINIMUM
		2000 +	$ 0.52	PER 100
WATER ONLY	FLAT RATE		$ 65.22	
SEWER ONLY	FLAT RATE		$ 69.96	
COMMERCIAL - OUT OF DISTRICT - WATER & SEWER				
WATER	GALLONS	0-2000	$ 26.52	MINIMUM
		2000 +	$ 0.58	PER 100
SEWER	GALLONS	0-2000	$ 31.84	MINIMUM
		2000 +	$ 0.58	PER 100

4. Leak detection and repair: The District continues to encourage employees and customers to report all leaks and adheres to its policy of repairing all leaks as soon as practicable. The District is actively pursuing avenues to implement rehabilitation projects for the repair of water lines throughout the system which will result in the lowest level of leakage.

5. The District monitors and provides water meters for both commercial and residential water connections. The District monitors other water use such as line flushing, firefighting, fire training, and other activities related to District operations that utilize water for non-public consumption. The District investigates accounts with abnormal water usage and zero consumption. Suspect water meters are then tested and repair or replaced as needed.

6. The District measures monthly and annually the total amount of water pumped and the total amount of water sold to determine total water loss. This information is provided to the Board of Directors at the monthly Board meetings. The District staff performs monthly audits of customer accounts and the staff reviews the monthly usage reports and flags customers with either high water use or zero consumption. Meters of respective customers are evaluated for accuracy and repaired or replaced as needed. In addition, the District maintains the leak detection and repair program with the policy of repairing discovered leaks as soon as possible.

IMPLEMENTATION AND EFFECTIVENESS OF THE PLAN:

1. The District tracks the total amount of water pumped for water supply wells and the total amount of water sold per month. The total amount of water pumped is compared to the total amount of water sold to determine water loss. Best Management Practices such as public education and the Leak Detection and Repair Program are implemented to reduce the consumption of water, improve and/or maintain efficiency of water use and minimize/mitigate water loss. The District will continue to measure progress and evaluate the effectiveness of existing conservation measures by monthly and annually tracking the total amount of water pumped, total amount of water sold, and resulting total water loss. This information will assists the District in determining the need to change existing conservation measures and/or incorporate new best management practices (BMPs). The District will continue to implement the plan, tract progress annually and evaluate progress towards meeting District targets and goals every five years.

PUBLIC EDUCATION AND INFORMATION:

1. It is the intent of the District to continue educating the public by distributing educational materials to its customers and by posting information on the District's website. Also by publishing informative water conservation information in the local newspaper. The staff of the District will coordinate with the staff of the Texas Water Development Board in preparing such informative articles to be published. Also, the staff will utilize educational materials as provided by the Texas Water Development Board for distribution to its customers.

ANNUAL REPORTING:

1. The District will comply with the rules and regulations of the Texas Water Development Board concerning the evaluation and reporting of the effectiveness of the Water Conservation Plan.