



**Drought Contingency Plan
for the
City of Orange
CCN# 11398
PWS# 1810004**

Section I: Declaration of Policy, Purpose, and Intent

In order to conserve the available water supply and protect the integrity of water supply facilities, with particular regard for domestic water use, sanitation, and fire protection, and to protect and preserve public health, welfare, and safety and minimize the adverse impacts of water supply shortage or other water supply emergency conditions, the City of Orange hereby adopts the following regulations and restrictions on the delivery and consumption of water through an ordinance/or resolution.

Water uses regulated or prohibited under this Drought Contingency Plan (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 XI of this Plan.

Section II: Public Involvement

Opportunity for the public to provide input into the preparation of the Plan was provided by the City of Orange by means of City Council Meetings held on the second and fourth Tuesday of each month. Meeting Agenda is posted in accordance with State law, listing items for discussion and items to be acted upon by City Officials. Meetings are open to the public and the public is given opportunity to voice their views and opinions.

Section III: Public Education

The City of Orange will 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. This information will be provided by means of brochures, fact sheets, utility bill inserts, public TV channel and local paper.

Section IV: Coordination with Regional Water Planning Groups

The service area of the City of Orange is located within the Deep East Texas Region I water planning area and the City of Orange has provided a copy of this Plan to the South East Texas Regional Planning Commission.

Section V: Authorization

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

Section VI: Application

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

Section VII: Definitions

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

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

Commercial and institutional water use: 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: 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: any person, company, or organization using water supplied by City of Orange.

Domestic water use: 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 number address: street addresses, box numbers, or rural postal route numbers ending in 0, 2, 4, 6, or 8 and locations without addresses.

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

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

- (a) irrigation of landscape areas, including parks, athletic fields, and golf courses, except otherwise provided under this Plan;
- (b) use of water to wash any motor vehicle, motorbike, boat, trailer, airplane or other vehicle;
- (c) use of water to wash down any sidewalks, walkways, driveways, parking lots, tennis courts, or other hard-surfaced areas;
- (d) use of water to wash down buildings or structures for purposes other than immediate fire protection;
- (e) flushing gutters or permitting water to run or accumulate in any gutter or street;
- (f) use of water to fill, refill, or add to any indoor or outdoor swimming pools or Jacuzzi-type pools;
- (g) use of water in a fountain or pond for aesthetic or scenic purposes except where necessary to support aquatic life;
- (h) failure to repair a controllable leak(s) within a reasonable period after having been given notice directing the repair of such leak(s); and
- (i) use of water from hydrants for construction purposes or any other purposes other than fire fighting.

Odd numbered address: street addresses, box numbers, or rural postal route numbers ending in 1, 3, 5, 7, or 9.

Section VIII: Criteria for Initiation and Termination of Drought Response Stages

The City Manager or his/her designee shall monitor water supply and/or demand conditions on a monthly basis and shall determine when conditions warrant initiation or termination of each stage of the Plan, that is, when the specified "triggers" are reached.

Stage 1 Triggers -- MILD Water Shortage Conditions

Requirements for initiation

Customers shall be requested to voluntarily conserve water and adhere to the prescribed restrictions on certain water uses, defined in Section VII-Definitions, when the specific capacity of the City of Orange wells is equal to or less than 50 percent of the wells combined pumping capacity.

Requirements for termination

Stage 1 of the Plan may be rescinded when all of the conditions listed as triggering events have ceased to exist for a period of 5 consecutive days.

Stage 2 Triggers -- MODERATE Water Shortage Conditions

Requirements for initiation

Customers shall be required to comply with the requirements and restrictions on certain non-essential water uses provided in Section IX of this Plan when the specific capacity of the City of Orange wells is equal to or less than 65 percent of the wells combined pumping capacity.

Requirements for termination

Stage 2 of the Plan may be rescinded when all of the conditions listed as triggering events have ceased to exist for a period of 5 consecutive days. Upon termination of Stage 2, Stage 1 becomes operative.

Stage 3 Triggers -- SEVERE Water Shortage Conditions

Requirements for initiation

Customers shall be required to comply with the requirements and restrictions on certain non-essential water uses for Stage 3 of this Plan when the specific capacity of the City of Orange wells is equal to 85 percent of the wells combined pumping capacity.

Requirements for termination

Stage 3 of the Plan may be rescinded when all of the conditions listed as triggering events have ceased to exist for a period of 5 consecutive days. Upon termination of Stage 3, Stage 2 becomes operative.

Stage 4 Triggers – EMEGANCY Water Shortage Conditions

Requirements for initiation

Customers shall be required to comply with the requirements and restrictions on certain non-essential water uses for Stage 4 of this Plan when the City Manager or his/her designee determines that a water supply emergency exists. This would include major water line breaks, pump failures or a system failure causing an unprecedented loss of the capability to provide water service; or a contamination of the water source(s) being natural or man-made.

Requirements for termination

Stage 4 of the Plan may be rescinded when all of the conditions listed as triggering events have ceased to exist as determined by the City Manager of his/her designee.

Section IX: Drought Response Stages

The City Manager or his/her designee, shall monitor water supply and/or demand conditions on a daily basis and, in accordance with the triggering criteria set forth in Section VIII of this Plan, shall determine that a mild, moderate or severe or water shortage condition exists and shall implement the following notification procedures:

Notification

Notification of the Public:

The City Manager or his/her designee shall notify the public by means of: public service announcements, publication in a newspaper of general circulation and signs posted in public places.

Additional Notification:

The City Manager or his/her designee shall notify directly, or cause to be notified directly, the following individuals and entities:

- Mayor / Chairman and members of the City Council / Utility Board
- Fire Chief(s)
- City and/or County Emergency Management Coordinator(s)
- County Judge & Commissioner(s)
- State Disaster District / Department of Public Safety
- TCEQ (required when mandatory restrictions are imposed)
- Major water users
- Critical water users, i.e. hospitals
- Parks / street superintendents & public facilities managers

Stage 1 Response -- MILD Water Shortage Conditions

Target: Achieve a voluntary 10 percent reduction in total water use.

Voluntary Water Use Restrictions for Reducing Demand :

- (a) Water customers are requested to voluntarily limit the irrigation of landscaped areas to Sundays and Thursdays for customers with a street address ending in an even number (0, 2, 4, 6 or 8), and Saturdays and Wednesdays for water customers with a street address ending in an odd number (1, 3, 5, 7 or 9), and to irrigate landscapes only between the hours of midnight and 10:00 a.m. and 8:00 p.m. to midnight on designated watering days.
- (b) All operations of the City of Orange shall adhere to water use restrictions prescribed for Stage 2 of the Plan.
- (c) Water customers are requested to practice water conservation and to minimize or discontinue water use for non-essential purposes.

Stage 2 Response -- MODERATE Water Shortage Conditions

Target: Achieve a 15 percent reduction in total water use.

Water Use Restrictions for Demand Reduction:

Under threat of penalty for violation, the following water use restrictions shall apply to all persons:

- (a) Irrigation of landscaped areas with hose-end sprinklers or automatic irrigation systems shall be limited to Sundays and Thursdays for customers with a street address ending in an even number (0, 2, 4, 6 or 8), and Saturdays and Wednesdays for water customers with a street address ending in an odd number (1, 3, 5, 7 or 9), and irrigation of landscaped areas is further limited to the hours of 12:00 midnight until 10:00 a.m. and between 8:00 p.m. and 12:00 midnight on designated watering days. However, irrigation of landscaped areas is permitted at anytime if it is by means of a hand-held hose, a faucet filled bucket or watering can of five (5) gallons or less, or drip irrigation system.
- (b) Use of water to wash any motor vehicle, motorbike, boat, trailer, airplane or other vehicle is prohibited except on designated watering days between the hours of 12:00 midnight and 10:00 a.m. and between 8:00 p.m. and 12:00 midnight. Such washing, when allowed, shall be done with a hand-held bucket or a hand-held hose equipped with a positive shutoff nozzle for quick rises. Vehicle washing may be done at any time on the immediate premises of a commercial car wash or commercial service station. Further, such washing may be exempted from these regulations if the health, safety, and welfare of the public is contingent upon frequent vehicle cleansing, such as garbage trucks and vehicles used to transport food and perishables.

- (c) Use of water to fill, refill, or add to any indoor or outdoor swimming pools, wading pools, or Jacuzzi-type pools is prohibited except on designated watering days between the hours of 12:00 midnight and 10:00 a.m. and between 8 p.m. and 12:00 midnight.
- (d) Operation of any ornamental fountain or pond for aesthetic or scenic purposes is prohibited except where necessary to support aquatic life or where such fountains or ponds are equipped with a recirculation system.
- (e) Use of water from hydrants shall be limited to fire fighting, related activities, or other activities necessary to maintain public health, safety, and welfare, except that use of water from designated fire hydrants for construction purposes may be allowed under special permit from the City of Orange.
- (f) Use of water for the irrigation of golf course greens, tees, and fairways is prohibited except on designated watering days between the hours 12:00 midnight and 10:00 a.m. and between 8 p.m. and 12:00 midnight. However, if the golf course utilizes a water source other than that provided by the City of Orange the facility shall not be subject to these regulations.
- (g) All restaurants are prohibited from serving water to patrons except upon request of the patron.
- (h) The following uses of water are defined as non-essential and are prohibited:
 1. wash down of any sidewalks, walkways, driveways, parking lots, tennis courts, or other hard-surfaced areas;
 2. use of water to wash down buildings or structures for purposes other than immediate fire protection;
 3. use of water for dust control;
 4. flushing gutters or permitting water to run or accumulate in any gutter or street; and
 5. failure to repair a controllable leak(s) within a reasonable period after having been given notice directing the repair of such leak(s).

Stage 3 Response -- SEVERE Water Shortage Conditions

Target: Achieve a 25 percent reduction in total water use.

Water Use Restrictions for Demand Reduction:

All requirements of Stage 2 shall remain in effect during Stage 3 except:

- (a) Irrigation of landscaped areas shall be limited to designated watering days between the hours of 12:00 midnight and 10:00 a.m. and between 8 p.m. and 12:00 midnight and shall be by means of hand-held hoses, hand-held buckets, drip

irrigation, or permanently installed automatic sprinkler system only. The use of hose-end sprinklers is prohibited at all times.

- (b) The watering of golf course tees is prohibited unless the golf course utilizes a water source other than that provided by the City of Orange.
- (c) The use of water for construction purposes from designated fire hydrants under special permit is to be discontinued.

Section X: WATER ALLOCATION

In the event that water shortage conditions threaten public health, safety, and welfare, the City Manager is hereby authorized to allocate water according to the following water allocation plan:

Single-Family Residential Customers

The allocation to residential water customers residing in a single-family dwelling shall be as follows:

Persons per Household	Gallons per Month
1 or 2	6,000
3 or 4	7,000
5 or 6	8,000
7 or 8	9,000
9 or 10	10,000
11 or more	12,000

“Household” means the residential premises served by the customer’s meter. “Persons per household” include only those persons currently physically residing at the premises and expected to reside there for the entire billing period. It shall be assumed that a particular customer’s household is comprised of two (2) persons unless the customer notifies the City of Orange of a greater number of persons per household on a form prescribed by the City Manager. The City Manager shall give his/her best effort to see that such forms are mailed, otherwise provided, or made available to every residential customer. If, however, a customer does not receive such a form, it shall be the customer’s responsibility to go to the City of Orange offices to complete and sign the form claiming more than two (2) persons per household. New customers may claim more persons per household at the time of applying for water service on the form prescribed by the City Manager. When the number of persons per household increases so as to place the customer in a different allocation category, the customer may notify the City of Orange on such form and the change will be implemented in the next practicable billing period. If the number of persons in a household is reduced, the customer shall notify the City of Orange in writing within two (2) days. In prescribing the method for claiming more than two (2) persons per household, the City Manager shall adopt methods to insure the accuracy of the claim. Any person who knowingly, recklessly, or with criminal negligence falsely reports the number of persons in a

household or fails to timely notify the City of Orange of a reduction in the number of person in a household shall be fined not less than \$100.00.

Residential water customers shall pay the following surcharges:

- \$3.22 for the first 1,000 gallons over allocation.
- \$4.83 for the second 1,000 gallons over allocation.
- \$6.44 for the third 1,000 gallons over allocation.
- \$8.37 for each additional 1,000 gallons over allocation.

Surcharges shall be cumulative.

Master-Metered Multi-Family Residential Customers

The allocation to a customer billed from a master meter which jointly measures water to multiple permanent residential dwelling units (e.g. apartments, mobile homes) shall be allocated 6,000 gallons per month for each dwelling unit. It shall be assumed that such a customer's meter serves two dwelling units unless the customer notifies the City of Orange of a greater number on a form prescribed by the City Manager. The City Manager shall give his/her best effort to see that such forms are mailed, otherwise provided, or made available to every such customer. If, however, a customer does not receive such a form, it shall be the customer's responsibility to go to the City of Orange offices to complete and sign the form claiming more than two (2) dwellings. A dwelling unit may be claimed under this provision whether it is occupied or not. New customers may claim more dwelling units at the time of applying for water service on the form prescribed by the City Manager. If the number of dwelling units served by a master meter is reduced, the customer shall notify the City of Orange in writing within two (2) days. In prescribing the method for claiming more than two (2) dwelling units, the City Manager shall adopt methods to insure the accuracy of the claim. Any person who knowingly, recklessly, or with criminal negligence falsely reports the number of dwelling units served by a master meter or fails to timely notify the City of Orange of a reduction in the number of person in a household shall be fined not less than \$100.00. Customers billed from a master meter under this provision shall pay the following monthly surcharges:

- \$3.22 for 1,000 gallons over allocation up through 1,000 gallons for each dwelling unit.
- \$4.83, thereafter, for each additional 1,000 gallons over allocation up through a second 1,000 gallons for each dwelling unit.
- \$6.44, thereafter, for each additional 1,000 gallons over allocation up through a third 1,000 gallons for each dwelling unit.
- \$8.37, thereafter for each additional 1,000 gallons over allocation.

Surcharges shall be cumulative.

Commercial Customers

A monthly water allocation shall be established by the City Manager or his/her designee, for each nonresidential commercial customer other than an industrial customer who uses water for processing purposes. The non-residential customer's allocation shall be approximately 75% percent of the customer's usage for corresponding month's billing period for the previous 12 months. The City Manager shall give his/her best effort to see that notice of each non-residential customer's allocation is mailed to such customer. If, however, a customer does not receive such notice, it shall be the customer's responsibility to contact the City of Orange to determine the allocation. Upon request of the customer or at the initiative of the City Manager, the allocation may be reduced or increased if, (1) the designated period does not accurately reflect the customer's normal water usage, (2) one nonresidential customer agrees to transfer part of its allocation to another nonresidential customer, or (3) other objective evidence demonstrates that the designated allocation is inaccurate under present conditions. A customer may appeal an allocation established hereunder to the City Manager. Nonresidential commercial customers shall pay the following surcharges:

Customers whose allocation is 15,000 gallons through 25,000 gallons per month:

- \$4.83 per thousand gallons for the first 1,000 gallons over allocation.
- \$6.44 per thousand gallons for the second 1,000 gallons over allocation.
- \$8.05 per thousand gallons for the third 1,000 gallons over allocation.
- \$10.00 per thousand gallons for each additional 1,000 gallons over allocation.

Customers whose allocation is 26,000 gallons per month or more:

- 2 times the block rate for each 1,000 gallons in excess of the allocation up through 5 percent above allocation.
- 4 times the block rate for each 1,000 gallons from 5 percent through 10 percent above allocation.
- 6 times the block rate for each 1,000 gallons from 10 percent through 15 percent above allocation.
- 8 times the block rate for each 1,000 gallons more than 15 percent above allocation.

The surcharges shall be cumulative. As used herein, "block rate" means the charge to the customer per 1,000 gallons at the regular water rate schedule at the level of the customer's allocation.

Industrial Customers

A monthly water allocation shall be established by the City Manager or his/her designee, for each industrial customer, which uses water for processing purposes. The industrial customer's allocation shall be approximately 90 percent of the customer's water usage baseline. Ninety (90) days after the initial imposition of the allocation for industrial customers, the industrial customer's allocation shall be further reduced to 75 percent of the customer's water usage baseline. The industrial customer's water use baseline will be computed on the average water use for the 12 month period ending prior to the date of

implementation of Stage 2 of the Plan. If the industrial water customer's billing history is shorter than 6 months, the monthly average for the period for which there is a record shall be used for any monthly period for which no billing history exists. The City Manager shall give his/her best effort to see that notice of each industrial customer's allocation is mailed to such customer. If, however, a customer does not receive such notice, it shall be the customer's responsibility to contact the City of Orange to determine the allocation, and the allocation shall be fully effective notwithstanding the lack of receipt of written notice. Upon request of the customer or at the initiative of the City Manager the allocation may be reduced or increased, (1) if the designated period does not accurately reflect the customer's normal water use because the customer had shutdown a major processing unit for repair or overhaul during the period, (2) the customer has added or is in the process of adding significant additional processing capacity, (3) the customer has shutdown or significantly reduced the production of a major processing unit, (4) the customer has previously implemented significant permanent water conservation measures such that the ability to further reduce water use is limited, (5) the customer agrees to transfer part of its allocation to another industrial customer, or (6) if other objective evidence demonstrates that the designated allocation is inaccurate under present conditions. A customer may appeal an allocation established hereunder to the City Manager. Industrial customers shall pay the following surcharges:

Customers whose allocation is 15,000 gallons through 25,000 gallons per month:

- \$4.83 per thousand gallons for the first 1,000 gallons over allocation.
- \$6.44 per thousand gallons for the second 1,000 gallons over allocation.
- \$8.05 per thousand gallons for the third 1,000 gallons over allocation.
- \$10.00 per thousand gallons for each additional 1,000 gallons over allocation.

Customers whose allocation is 26,000 gallons per month or more:

- 2 times the block rate for each 1,000 gallons in excess of the allocation up through 5 percent above allocation.
- 4 times the block rate for each 1,000 gallons from 5 percent through 10 percent above allocation.
- 6 times the block rate for each 1,000 gallons from 10 percent through 15 percent above allocation.
- 8 times the block rate for each 1,000 gallons more than 15 percent above allocation.

The surcharges shall be cumulative. As used herein, "block rate" means the charge to the customer per 1,000 gallons at the regular water rate schedule at the level of the customer's allocation.

Section X: Enforcement

- (a) No person shall knowingly or intentionally allow the use of water from the City of Orange for residential, commercial, industrial, agricultural, governmental, or any other purpose in a manner contrary to any provision of this Plan, or in an amount in excess of that permitted by the drought response stage in effect at the time pursuant to action taken by City Manager or his/her designee, in accordance with provisions of this Plan.
- (b) Any person who violates this Plan is guilty of a class "C" misdemeanor and, upon conviction shall be punished by a fine of not less than two hundred fifty dollars (\$250.00). Each day that one or more of the provisions in this Plan is violated shall constitute a separate offense. If a person is convicted of three or more distinct violations of this Plan, the City Manager shall, upon due notice to the customer, be authorized to discontinue water service to the premises where such violations occur. Services discontinued under such circumstances shall be restored only upon payment of a re-connection charge, hereby established at \$100.00, and any other costs incurred by the City of Orange in discontinuing service. In addition, suitable assurance must be given to the City Manager that the same action shall not be repeated while the Plan is in effect. Compliance with this plan may also be sought through injunctive relief in the district court.
- (c) Any person, including a person classified as a water customer of the City of Orange in apparent control of the property where a violation occurs or originates shall be presumed to be the violator, and proof that the violation occurred on the person's property shall constitute a rebuttable presumption that the person in apparent control of the property committed the violation, but any such person shall have the right to show that he/she did not commit the violation. Parents shall be presumed to be responsible for violations of their minor children and proof that a violation, committed by a child, occurred on property within the parents' control shall constitute a rebuttable presumption that the parent committed the violation, but any such parent may be excused if he/she proves that he/she had previously directed the child not to use the water as it was used in violation of this Plan and that the parent could not have reasonably known of the violation.

Section XI: Variances

The City Manager or his/her designee, may, in writing, grant temporary variance for existing water uses otherwise prohibited under this Plan if it is determined that failure to grant such 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:

- (a) 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.
- (b) Alternative methods can be implemented which will achieve the same level of reduction in water use.

Persons requesting an exemption from the provisions of this Ordinance shall file a petition for variance with the City of Orange within 5 days after the Plan or a particular drought response

stage has been invoked. All petitions for variances shall be reviewed by the City Manager or his/her designee, and shall include the following:

- (a) Name and address of the petitioner(s).
- (b) Purpose of water use.
- (c) Specific provision(s) of the Plan from which the petitioner is requesting relief.
- (d) 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 Ordinance.
- (e) Description of the relief requested.
- (f) Period of time for which the variance is sought.
- (g) 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.
- (h) Other pertinent information.

Section XII: Demand & Supply Limitations

In the last 5 years the most water production for a single day was recorded at approximately 72% of total well production from both wells. The City Manager or his/her designee would have the authority to place the City in Stage 2 (moderate water shortage condition) if this condition should reoccur and/or last more than one day during a drought condition.

In the event that the City should lose its largest producing water plant, the City would still be producing approximately 47% of its total well production. The City Manager or his/her designee would have the authority to place the City in Stage 1 (mild water shortage condition) if this condition should occur and/or last more than one day during a drought condition.

In the event that the City should lose both wells but maintain the use of its service pumps, the City would have approximately 41% of its total well production in total stored water. The City Manager or his/her designee would have the authority to place the City in Stage 3 (severe water shortage condition) if this condition should occur and/or last more than one day during a drought condition. Plans would also have to be made to bring in water from another source should this condition last more than one day.

In the event that the City should lose both water plants, the City would have approximately 15% of its total well production in elevated stored water. Should this condition occur the City would have to bring in water from an outside source. The City Manager or his/her designee would have the authority to place the City in Stage 3 (severe water shortage condition) upon the restoration of one of the City's water plants.

Currently the entities around the City would not be able to supply water in a drought condition. Water would have to be trucked into the City, as was done during natural disasters, as an alternate source.

Water Conservation Plan Annual Report Retail Water Supplier

CONTACT INFORMATION

Name of Utility: City of Orange

Public Water Supply Identification Number (PWS ID): TX1810004

Certification of Convenience and Necessity (CCN) Number: 11398

Surface Water Right ID Number: _____

Wastewater ID Number: 20535

Check all that apply:

- Retail Water Supplier
- Wholesale Water Supplier
- Wastewater Treatment Utility

Address: P.O. Box 520 City: Orange Zip Code: 77630

Email: tcampbell@orangetx.org Telephone Number: 4098831901

Regional Water Planning Group: I

Groundwater Conservation District: _____

Contact: First Name: Timmy Last Name: Campbell

Title: Chief Operator

Is this person the designated Conservation Coordinator? Yes No

Regional Water Planning Group: I

Groundwater Conservation District: _____

Reporting Period (Calendar year):

Period Begin (mm/yyyy): 01/2018 Period End (mm/yyyy): 12/2018

Check all that apply:

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

SYSTEM DATA

1. For this reporting period, select the category(s) used to classify customer water usage:

Retail Customer Water Usage Categories	
<input checked="" type="checkbox"/>	Residential - Single Family
<input checked="" type="checkbox"/>	Residential - Multi-family
<input checked="" type="checkbox"/>	Industrial
<input checked="" type="checkbox"/>	Commercial
<input checked="" type="checkbox"/>	Institutional
<input type="checkbox"/>	Agricultural

Retail Customers Categories*

- Residential Single Family
- Residential Multi-Family
- Industrial
- Commercial
- Institutional
- Agricultural

**Recommended Customer Categories for classifying customer water use. For definitions, refer to Guidance and Methodology on Water Conservation and Water Use.*

2. For this reporting period, enter the number of connections for and the gallons of metered retail water used by each category. If the Customer Category does not apply, enter zero or leave blank. These numbers should be the same as those reported on the Water Use Survey.

Retail Customer Category	Number of Connections	Gallons Metered
Residential - Single Family	6,769	315,344,000
Residential - Multi-family	2,290	86,910,000
Industrial	10	6,108,000
Commercial	695	148,355,000
Institutional	50	8,532,000
Agricultural	0	0
Total Retail Water Metered¹	9,814	565,249,000

¹Residential + Industrial + Commercial + Institutional + Agricultural = Total Retail Water Metered

Water Use Accounting

	Total Gallons During the Reporting Period
1. Corrected Input Volume: The volume of treated water input to the distribution system from own production facilities. Same as line 13b of the Water Loss Audit for reporting periods >= 2015. Same as line 14 of the Water Loss Audit for reporting periods <= 2014.	1,093,589,583
2. Corrected Treated Purchased Water Volume: The amount of treated purchased wholesale water transferred into the utility's distribution system from other water suppliers system. Same as line 14b of the Water Loss Audit for reporting periods >= 2015. Same as line 15 of the Water Loss Audit for reporting periods <= 2014.	0
3. Corrected Treated Wholesale Water Sales Volume: The amount of treated wholesale water transferred out of the utility's distribution system, although it may be in the system for a brief time for conveyance reasons. Same as line 15b of the Water Loss Audit for reporting periods >= 2015. Same as line 16 of the Water Loss Audit for reporting periods <= 2014.	0
4. Total System Input Volume: This is the sum of the corrected input volume plus corrected treated purchased water volume minus corrected treated wholesale water sales volume. Same as line 16 of the Water Loss Audit for reporting periods >= 2015. Same as line 17 of the Water Loss Audit for reporting periods <= 2014. Produced + Imported - Exported = Total System Input Volume	1,093,589,583
5. Billed Metered: All retail water sold and metered. Same as line 17 of the Water Loss Audit for reporting periods >= 2015. Same as line 18 of the Water Loss Audit for reporting periods <= 2014.	565,249,000
6. Other Authorized Consumption: Water that is authorized for other uses such as back flushing, line flushing, storage tank cleaning, fire department use, municipal government offices or municipal golf courses/parks. This water may be metered or unmetered. Same as lines 18, 19, and 20 of the Water Loss Audit for reporting periods >= 2015. Same as lines 19, 20, and 21 of the Water Loss Audit for reporting periods <= 2014.	13,669,870
7. Total Authorized Consumption: All water that has been authorized for use. Same as Line 21 of the Water Loss Audit for reporting periods >= 2015. Same as line 22 of the Water Loss Audit for reporting periods <= 2014. Total Billed and Metered Retail Water + Other Authorized Consumption = Total Authorized Consumption	578,918,870
8. Total Apparent Losses: Water that has been consumed but not properly measured or billed (losses due to customer meter inaccuracy, systematic data handling discrepancy and/or unauthorized consumption such as theft). Same as line 27 of the Water Loss Audit for reporting periods >= 2015. Same as line 28 of the Water Loss Audit for reporting periods <= 2014.	26,286,016

9. Total Real Loss: Physical losses from the distribution system prior to reaching the customer destination (losses due to reported breaks and leaks, physical losses from the system or mains and/or storage overflow). Same as line 30 of the Water Loss Audit for reporting periods >= 2015. Same as line 31 of the Water Loss Audit for reporting periods <= 2014.	488,384,698
10. Total Water Loss: Apparent + Real = Total Water Loss	514,670,714

Programs and Activities

1. What year did your entity adopt or revise their most recent Water Conservation Plan? 2014

2. Does The Plan incorporate Best Management Practices? Yes No

3. Using the table below select the types of Best Management Practices or water conservation and reuse strategies actively administered during this reporting period and estimate the savings incurred in implementing water conservation and reuse activities and programs. Leave fields blank if unknown. **Please separate reuse volumes from gallons saved.**

Methods and techniques for determining gallons saved are unique to each utility as they conduct internal cost analyses and long-term financial planning. Texas Best Management Practice can be found at TWDB's Water Conservation Best Management Practices [webpage](#). The [Alliance for Efficiency Water Conservation Tracking Tool](#) may offer guidance on determining and calculating savings for individual BMPs.

Best Management Practice	Check if Implemented	Estimated Gallons Saved	Estimated Gallons Reused
Conservation Analysis and Planning			
Conservation Coordinator	<input type="checkbox"/>		
Cost Effective Analysis	<input type="checkbox"/>		
Water Survey for Single Family and Multi-family Customers	<input type="checkbox"/>		
Financial			
Wholesale Agency Assistance Programs	<input type="checkbox"/>		
Water Conservation Pricing	<input type="checkbox"/>		
System Operations			
Metering New Connections and Retrofitting Existing Connections	<input type="checkbox"/>		
System Water Audit and Loss Control	<input checked="" type="checkbox"/>	1,000	
Landscaping			
Landscape Irrigation Conservation and Incentives	<input type="checkbox"/>		
Athletic Fields Conservation	<input type="checkbox"/>		
Golf Course Conservation	<input type="checkbox"/>		
Park Conservation	<input type="checkbox"/>		

Residential Landscape Irrigation Evaluation	<input type="checkbox"/>		
Education and Public Awareness			
School Education	<input type="checkbox"/>		
Public Information	<input type="checkbox"/>		
Small Utility Outreach and Education	<input type="checkbox"/>		
Partnerships with Nonprofit Organizations	<input type="checkbox"/>		
Rebate, Retrofit, and Incentive Programs			
Conservation Programs for ICI Accounts	<input type="checkbox"/>		
Residential Clothes Washer Incentive Program	<input type="checkbox"/>		
Water Wise Landscape Design and Conversion Programs	<input type="checkbox"/>		
Showerhead, Aerator, and Toilet Flapper Retrofit	<input type="checkbox"/>		
Residential Toilet Replacement Programs	<input type="checkbox"/>		
ICI Incentive Programs	<input type="checkbox"/>		
Conservation Technology & Reuse			
New Construction Graywater	<input type="checkbox"/>		
Rainwater Harvesting and Condensate Reuse	<input type="checkbox"/>		
Reuse for On-site Irrigation	<input type="checkbox"/>		
Reuse for Plant Washdown	<input type="checkbox"/>		
Reuse for Chlorination/Dechlorination	<input type="checkbox"/>		
Reuse for Industry	<input type="checkbox"/>		
Reuse for Agriculture	<input type="checkbox"/>		
Regulatory and Enforcement			
Prohibition on Wasting Water	<input type="checkbox"/>		
Retail			
Other	<input type="checkbox"/>		
Totals			1,000

4. For this reporting period, estimate the savings from water conservation activities and programs.

Gallons Saved/Conserved	Gallons Recycled/Reused	Total Volume of Water Saved ¹	Dollar Value of Water Saved ²
1,000		1,000	

¹Estimated Gallons Saved + Estimated Gallons Recycled/Reused = Total Volume Saved

²Estimated this value by taking into account water savings, the cost of treatment or purchase of water, and deferred capital cost due to conservation.

5. Comments or Explanations Regarding Data Entered in Sections Above.
 Files to support or explain this may be attached below.

6. During this reporting period, did your rates or rate structure change? Yes No

Select the type of rate pricing structure used. Check all that apply.

<input checked="" type="checkbox"/>	Uniform Rates
<input type="checkbox"/>	Flat Rates
<input type="checkbox"/>	Inclining/Inverted Block Rates
<input type="checkbox"/>	Declining Block Rates
<input type="checkbox"/>	Seasonal Rates
<input type="checkbox"/>	Water Budget Based Rates
<input type="checkbox"/>	Excess Use Rates
<input type="checkbox"/>	Drought Demand Rates
<input type="checkbox"/>	Tailored Rates
<input type="checkbox"/>	Surcharge - usage demand
<input type="checkbox"/>	Surcharge - seasonal
<input type="checkbox"/>	Surcharge - drought
<input checked="" type="checkbox"/>	Other

7. For this reporting period, select the public awareness or educational activities used.

Name	Implemented This Year	Number Of Times This Year	Total Population Reached this Year
Brochures Distributed	<input checked="" type="checkbox"/>	69	69
Messages Provided on Utility Bills	<input checked="" type="checkbox"/>	2	6,999
Press Releases	<input type="checkbox"/>		
TV Public Service Announcements	<input type="checkbox"/>		
Radio Public Service Announcements	<input type="checkbox"/>		
Educational School Programs	<input type="checkbox"/>		
Displays, Exhibits, and Presentations	<input checked="" type="checkbox"/>	1	1,500
Community Events	<input type="checkbox"/>		
Social Media campaign - Facebook	<input type="checkbox"/>		
Social Media campaign - Twitter	<input type="checkbox"/>		
Social Media campaign - Instagram	<input type="checkbox"/>		
Social Media campaign - YouTube	<input type="checkbox"/>		
Facility Tours	<input type="checkbox"/>		
Other	<input type="checkbox"/>		
Total		72	8,568

Leak Detection and Water Loss

1. During this reporting period, how many leaks were repaired in the system or at service connections? 611

2. Select the main cause(s) of water loss in your system.

Water Loss Causes	
<input checked="" type="checkbox"/>	Distribution line leaks and breaks
<input checked="" type="checkbox"/>	Unauthorized use and theft

<input type="checkbox"/>	Master meter problems
<input checked="" type="checkbox"/>	Customer meter problems
<input type="checkbox"/>	Record and data problems
<input type="checkbox"/>	Other

3. For this reporting period, provide the following information on your distribution lines.

Total Length of Main Lines (miles)	Total Length Repaired (feet)	Total Length Replaced (feet)
<u>170</u>	<u> </u>	<u> </u>

4. For this reporting period, provide the following information regarding your meters:

Type of Meter	Total Number	Total Tested	Total Repaired	Total Replaced
Production Meters				
Meters larger than 1 1/2 inches	297		29	14
Meters 1 1/2 inches or smaller	7316		582	339

5. Does your system have automated meter reading? Yes No

Program Effectiveness

1. Program Effectiveness

In your opinion, how would you rank the overall effectiveness of your conservation programs and activities?

Customer Classification	Less Than Effective	Somewhat Effective	Highly Effective	Does Not Apply
Residential Customers	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Industrial Customers	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Institutional Customers	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Commercial Customers	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Agricultural Customers	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

2. During the reporting period, did you implement your Drought Contingency Plan? Yes No

3. Select the areas for which you would like to receive more technical assistance:

Technical Assistance Areas	
<input type="checkbox"/>	Best Management Practices
<input type="checkbox"/>	Drought Contingency Plans
<input type="checkbox"/>	Landscape Irrigation
<input type="checkbox"/>	Leak Detection and Equipment
<input type="checkbox"/>	Rainwater Harvesting
<input type="checkbox"/>	Rate Structures
<input type="checkbox"/>	Educational Resources
<input type="checkbox"/>	Water Conservation Annual Reports
<input type="checkbox"/>	Water Conservation Plans
<input type="checkbox"/>	Water IQ: Know Your Water
<input type="checkbox"/>	Water Loss Audits
<input type="checkbox"/>	Recycling and Reuse

Water Loss, Target and Goals

Total, Residential and Water Loss Gallons Per Capita per Day (GPCD) and Water Loss Percentage

The tables below display your current GPCD totals and water loss percentage for your service area.

Total System Input in Gallons Water Produced + Wholesale Imported - Wholesale Exported	Retail Population ¹	Total GPCD (System Input / Retail Population) / 365
1,093,589,583	18,643	161

¹Retail Population is the total permanent population of the service area, including single family, multi-family, and group quarter populations

Residential Use in Gallons (Single Family + Multi-family)	Residential Population ²	Residential GPCD (Residential Use / Residential Population) / 365
402,254,000	18,643	59

²Residential Population is the total residential population of the service area, including only single family and multi-family populations

Total Water Loss in Gallons Apparent + Real = Total Water Loss	Retail Population	Water Loss GPCD ³	Water Loss Percent
514,670,714	18,643	76	47.06%

³(Total Water Loss / Residential Population) / 365 = Water Loss GPCD
 (Total Water Loss / Total System Input) * 100 = Water Loss Percentage

The table below displays the specific and quantified five-year and ten-year goals listed in your current Water Conservation Plan alongside the current GPCD and water loss totals.

Achieve Date	Target for Total GPCD	Current Total GPCD	Target for Residential GPCD	Current Residential GPCD	Target for Water Loss GPCD	Current Water Loss GPCD	Target for Water Loss Percentage	Current Water Loss Percentage
Five-year Target Date 2019	130	161	60	59	26	76	20.00 %	47.06 %
Ten-year Target Date 2024	125	161	58	59	24	76	19.20 %	47.06 %