

CITY OF GRANBURY

WATER CONSERVATION AND DROUGHT CONTINGENCY PLAN

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**CITY OF GRANBURY
WATER CONSERVATION PLAN**

Section I. Declaration of Policy, Purpose and Intent

The purpose of the Water Conservation Plan (the Plan) is to: promote the wise and responsible use of water by implementing structural programs that result in quantifiable water conservation results; develop, maintain, and enforce water conservation policies and ordinances; and support public education programs to educate customers about water facilities operations, water quantity and quality, water conservation and non-point source protection.

Section II. Utility Profile Summary

The service area for the City of Granbury (City) is situated in Hood County and is located approximately 35-miles southwest of Fort Worth. The City holds certificate of convenience and necessity (CCN) number 10904. The service area for the City's water distribution system encompasses approximately 5.5 square miles and is depicted in Appendix A. A more detailed utility profile is provided in Appendix B.

A. Population

The population of the service area served by the City's water system in the year 2019 was approximately 13,998 water users. Table 1 provides population figures for retail water users served by the City for the previous five years.

Table 1-Population for City (2014-2018)	
Year	Persons
2014	10,706
2015	11,365
2016	12,023
2017	12,681
2018	13,339
Source-2021 Regional Water Plan	

Table 2 depicts projected population figures for the City through the year 2060.

Table 2-Population for City (2020-2060)	
Year	Persons
2020	14,656
2030	17,791
2040	20,037
2050	21,972
2060	23,458
Source-2021 Regional Water Plan	

B. Customer and Water Use Data

City of Granbury water customers consist of a mixture of residential, commercial, institutional and wholesale users. At present the City provides water service to approximately 14,000 retail water users through 5,500 retail service connections, and 1,670 wholesale water users through three wholesale metered connections with three regular wholesale systems consisting of Western Hills Harbor, Comanche Cove and Heritage Heights, and Granbury Acres Water System. The City also maintains emergency interconnections with four other wholesale systems consisting of Bentwater on Lake Granbury, Mallard Pointe Subdivision, Mesa Grande, and the Acton Municipal Utility District. Table 3 summarizes projected population and water demand figures for the City of Granbury retail water users over the next decade.

Year	Population (persons)	Water Use (gallons)	Per Capita Use (gpcd)
2019	13,998	796,762,958	156
2020	14,656	833,164,158	156
2021	14,970	849,893,230	156
2022	15,283	866,576,531	155
2023	15,597	883,214,060	155
2024	15,910	899,805,819	155
2025	16,224	916,351,807	155
2026	16,537	932,852,024	155
2027	16,851	949,306,469	154
2028	17,164	965,715,144	154

Source-2021 Regional Water Plan and Historic City Use Rates

C. Water Supply System

1. Water Sources

The City of Granbury holds water rights number 1861 and 2182 for 2,500 acre-feet per year and 10,800 acre-feet per year respectively of municipal water use from the Brazos Water Management Area. The City also operates 18 regular service wells with an additional 20 wells standby, or inactive.

2. Water Treatment

The City of Granbury WTP is located on the north side of Hwy 377 at 1440 East Pearl Street in Granbury. Capacity of the plant is 2.5 million gallons per day (MGD) of blended, finished water. Steps are underway to expand the treated water production capacity of the WTP. Raw water is drawn from Lake Granbury via a floating pump station equipped with two pumps. Chlorine dioxide is generated onsite and is dosed to the raw water pumped from the lake to serve as a disinfectant, to treat for iron and manganese, and to reduce tastes and odors in the water. Downstream from the chlorine dioxide application point aluminum chlorohydrate (ACH) is dosed to the raw water in a flow paced manner to begin the process of coagulation. Coagulated raw water flows to the dual parallel flocculators where gentle

mixing promotes the formation of floc that settles in the sedimentation basins which are equipped with inclined plate settlers, and sludge collectors.

Clarified effluent from the sedimentation basins overflows the plate settlers and collects in the equalization basin downstream from the plate settlers. Clarified flow that collects in the EQ basin is pumped by the MF feed pumps through a mechanically cleaned, 300-micron screen that is located in the MF feed piping between the membrane feed pumps and the membrane racks. The screen serves as a physical barrier to remove coarse particles from the settled water to prevent damaging the membranes. Screened water is sent to two parallel racks of Pall Microza membranes, which together can yield up to 3.08 MGD of filtrate. MF filtrate flows to the break tank which serves as the suction reservoir for the low pressure RO feed pumps and RO bypass pumps. The ratio of RO feed to RO bypass is approximately 75%:25%. Approximately 75% of the MF filtrate is sent to the RO system for further treatment and 25% of the MF filtrate bypasses the RO system and is pumped to a blending point to be blended with RO filtrate. It is through this blending ratio that the treatment goals are met for removing a portion but not all of the chemical and inorganic constituents such as TDS, hardness, chlorides and sulfates from the treated water. RO reject is routed to the waste holding basin and then to disposal in the lake.

3. Water Distribution

After the water is processed at the treatment plant, it is pumped into the distribution system as described above and stored in ground and elevated storage tanks with a combined volume of 4.08 million gallons (mg) of ground storage and 2.35 mg of elevated storage. The City's water distribution system provides economical and compatible facilities to furnish sufficient water at suitable pressures to system users. The system consists of underground water mains, pumping stations, ground storage tanks, elevated storage tanks, valves, flushing hydrants, and approximately 5,500 metered service connections.

D. Wastewater System

The City of Granbury wastewater collection system consists of a network of sewer lines, lift stations, and manholes serving City of Granbury users. Sewage flows by gravity, aided when necessary by lift stations, through the collection system into the wastewater treatment plant (WWTP). No wholesale customers are served by the City of Granbury sewage collection and treatment system.

The wastewater treatment plant consists of a mechanical activated sludge plant with a permitted capacity of 2.0 mgd. All treated wastewater is disposed of via permitted outfall into Lake Granbury.

Section III. Water Conservation Goals

The 5- and 10-year goals for direct retail users supplied by the City is to maintain per capita use at 155 gpcd and 154 gpcd respectively. The 5- and 10-year goals for residential users supplied by the City is to maintain per capita residential use at or below 65 and 64 gpcd respectively. The 5- and 10-year per capita water loss goals are to maintain per capita loss at or below 18 gpcd and 17 gpcd respectively. These goals are set in

accordance with Texas Water Development Board's policies based on consideration of historic water use trends and Regional Water Planning Group projections (see Appendix C).

Section IV. Schedule for Implementation

The City will adhere to the following schedule, to achieve the targets and goals for water conservation:

- A. Meters will continue to be monitored for accuracy annually and replaced on an as-needed basis.
- B. Water audits will be conducted annually.
- C. Real water losses will be identified and corrected as budget permits. Real water losses are minimized by replacement of deteriorating water mains and appurtenances, as conducted by City staff on an on-going basis as budget permits.
- D. The City will make available to the public material developed by the staff, materials obtained from the Texas Water Development Board, Texas Commission on Environmental Quality or other sources annually to all customers

Section V. Method for Tracking Targets and Implementation

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

- A. Records will be maintained for meter calibration, meter testing, and meter replacement activities.
- B. Annual water audits will be documented and maintained in the City files.
- C. City staff will keep a record of the number of information web postings or mail-outs when distributed.
- D. Records will be maintained for the City's Leak Detection Program.

By enacting this Plan the City expects to meet the water conservation goals as stated herein.

Section VI. Master Metering

It is City of Granbury's policy to purchase meters that meet at least the minimum standards developed by the American Water Works Association. All metering devices used to meter water diverted from the source of supply are accurate to within plus-or-minus 5% to measure and account for water diverted from the source of supply. As meters age they will be systematically replaced to assure reliability of meter performance.

Section VII. Universal Metering

It is City of Granbury's policy to individually meter all water usage, except for system flushing and filling of fire equipment, including all new construction within the City's service area.

Section VIII. Measures to Determine and Control Unaccounted-for Uses of Water

The City's goal for unaccounted-for water use is 15% or less. It is City of Granbury's policy to investigate customer complaints of low pressure and possible leaks. Additionally, City of Granbury personnel monitor water consumption to detect meter readings that vary from previously established use patterns. Any meter found not to be functioning properly is identified for replacement. The City tests meters on the following schedule:

<u>Meter Type</u>	<u>Replacement or Calibration Frequency</u>
Master meters	Annually
Commercial meters	Annually or as-needed
1-inch or smaller	Every eight years or as needed

The City utilizes a record management system which records water pumped, water delivered, water sales and water losses to track water transmission, distribution, and delivery to customers. This information is used to evaluate the integrity of the water delivery system from source to end user to control and minimize unaccounted-for uses of water. The record management system utilized by the City segregates water sales and users into user classes of single family residential, multi-family residential, commercial, public/institutional, industrial, and wholesale users.

Section IX. Leak Detection and Repair

The City practices a leak detection and repair program involving visual inspections of the system and uses a detailed record management system to detect unusual water delivery rates. City of Granbury personnel visually inspect suspected leaks and make quick and timely repairs to those leaks when detected. Leaking pipelines or pipeline sections are repaired or replaced as they are detected.

Section X. Education and Information

The City of Granbury will inform water users of various methods for conserving water. The goal of the program is to deliver the conservation message through media outlets on a regular and ongoing basis, to deliver the conservation message to new customers, and to deliver the conservation message via planned civic activities. Specific program elements consist of:

- A. A fact sheet summarizing elements of the Conservation Plan will be maintained for public review at the City Hall.
- B. A press release summarizing elements of the Conservation Plan will be provided to local print and electronic media upon Plan adoption by the Granbury City Council.
- C. Methods for saving water will be discussed in news articles and radio talk shows. Local media outlet sources will be utilized on a regular and ongoing basis to deliver and promote City of Granbury's water conservation message.
- D. Water conservation presentations will be offered to area civic groups as the opportunities arise.

Section XI. Non-Promotional Water Rate Structure

The City of Granbury utilizes a water rate structure that promotes water conservation. The City periodically evaluates its water rate structure and adjusts costs and/or structure as needed to encourage water conservation. A copy of the City's water rate structure is provided in Appendix E.

Section XII. Plumbing Codes

A. In 1991, the Texas Legislature passed legislation requiring that plumbing fixtures sold in Texas after January 1, 1992, meet certain standards. The legislation imposed requirements directly on the manufacturer, importers, and suppliers of new fixtures in Texas. The standards are:

1. Shower Heads: No more than 2.75 gallons per minute at 80 pounds per square inch of pressure.
2. Lavatory/Sink Faucets and Aerators: No more than 2.2 gallons per minute at 60 pounds per square inch of pressure.
3. Wall Mounted, Flushometer Toilets: No more than 2.0 gallons per flush.
4. All Other Toilets: No more than 1.6 gallons per flush.
5. Drinking Water Fountains: Must be self-closing.

In addition, the City of Granbury encourages the following water conservation measures:

1. Hot Water Pipes: Hot water lines not in or under a concrete slab should be insulated.
2. Pressure Reduction Valves: Pressure reduction valves may be installed by a licensed plumber at the customer's expense where system pressures exceed 80 pounds per square inch.
3. Swimming Pools: Swimming pools should have recirculating filtration equipment.
4. Automatic Dishwashers: Automatic dishwashers installed in residential dwellings should be a design that uses a maximum of six gallons of water per cycle.
5. Automatic Clothes Washers: Automatic clothes washers installed in residential dwellings should be a design that uses a maximum of 14 gallons of water per cycle.
6. New plumbing fixtures that replace or renovate existing plumbing fixtures shall comply with the State's plumbing code.

Section XIII. Water Conservation Retrofit Program

The City of Granbury will encourage customers to utilize low demand fixtures and appliances through educational sources described in this Water Conservation Plan. The City of Granbury will advise customers of low water demand items, shower heads, toilet dams, etc., emphasizing the importance of water saving devices. The City of Granbury may contact local suppliers of plumbing fixtures and encourage them to advise customers to purchase and install water saving devices.

Section XIV. Water Conservation Landscaping

The City of Granbury will make educational materials available to water users including information relating to low water use landscaping. Area home and garden stores selling landscaping materials may be provided with the literature.

Section XV. Additional Wholesale Water Contract Requirements

The City of Granbury will include in every wholesale water supply contract entered into after official adoption of the Plan that each successive wholesale customer develop and implement a water conservation plan or water conservation measures using applicable elements in 30 TAC 288, Subchapter A. If the wholesale customer

intends to resell the water, then the contract between City of Granbury and the wholesale customer will provide that the contract for the resale of the water must have water conservation requirements so that each successive customer in the resale of the water will be required to implement water conservation measures in accordance with 30 TAC 288, Subchapter A.

Section XVI. Public Input

The City Council of Granbury (Council) meets in regular session each month. The agenda for each meeting is posted in accordance with the Texas Open Meetings Act. The posted agenda includes items for discussion and items for action. Meetings are open to the public and the public is afforded the opportunity to speak and voice their views and opinions.

Public Meetings will be held as needed for proposed projects, grant applications and other items. The public meetings will provide an opportunity for discussions and displays of citizen interest. Meetings may be held either during the regularly scheduled Council meetings or at special times established to maximize citizen input. Discussions will be informal to encourage public input.

Section XVII. Enforcement Procedures and Plan Adoption

The Plan is enforced within the City of Granbury service area by providing service taps only to customers complying with adopted water conservation policies, maintaining a non-declining rate structure, and discontinuing service to those customers who do not pay their water bills until payment is made. A copy of the measure adopting this Plan has been included in Appendix D.

Section XVIII. Coordination with Region G Water Planning Group

All customers served by the City are located within the Region G Water Planning Area. City of Granbury has provided a copy of this Plan to the Region G Planning Group. Correspondence with Region G Water Planning Group to that effect is provided in Appendix F.

Section XIX. Reservoir Operations Plan

The Brazos River Authority controls operation of Lake Granbury. As such, the City of Granbury does not maintain a reservoir operation plan for Lake Granbury.

Section XX. Revisions to the Water Conservation Plan

The City will review and update this water conservation plan, as appropriate, based on new or updated information, such as the adoption or revision of the regional water plan. As a minimum the Plan will be updated every five (5) years. Additionally, annual implementation reports will be prepared and submitted by the City in accordance with reporting requirements.

Section XXI. Severability

It is hereby to be the intention of the City that the sections, paragraphs, sentences, clauses, and phrases of this Plan are severable and if, any phrase, clause, sentence, paragraph or section shall be declared unconstitutional

by the valid judgment or decree of any court of competent jurisdiction, such unconstitutionality shall not affect any of the remaining phrases, clauses, sentences, paragraphs or sections of this Plan, since the same would not have been enacted by City without the incorporation into this Plan of any such unconstitutional phrase, clause, sentence, paragraph or section.

**CITY OF GRANBURY
DROUGHT CONTINGENCY PLAN**

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 Granbury hereby adopts the following regulations and restrictions on the delivery and consumption of water. 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 conditions 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 Granbury by means of scheduling and providing public notice of a public meeting to accept input on the Plan.

Section III. Public Education

The City of Granbury 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 newsletter articles and/or city web page.

Section IV. Coordination With Regional Water Planning Group

The service area of the City of Granbury is located within Region G Water Planning Area of the Brazos River Basin. The City of Granbury has provided a copy of this Plan to the Region G Water Planning Group Board of the Brazos River Basin.

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 owners utilizing water provided by the City of Granbury. 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 the City of Granbury.

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.
- (j) odd numbered address: street addresses, box numbers, or rural postal route numbers ending in 1, 3, 5, 7, or 9.

Section VIII. Triggering 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 daily basis and shall determine when conditions warrant initiation or termination of each stage of the Plan. Public notification of the initiation or termination of drought response stages shall be by means of direct mail to each customer, or publication in a newspaper of general circulation.

The triggering criteria described below are based on a statistical analysis of the vulnerability of the water source under drought of record conditions.

1. Stage 1 - Mild Water Shortage Conditions

a. Requirements for Initiation

- i. 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 total daily water demand equals or exceeds 2.9 million gallons for 5 consecutive days or 4.0 million gallons on a single day.

b. Requirements for Termination

- i. 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 7 consecutive days.

2. Stage 2 - Moderate Water Shortage Conditions

a. Requirements for Initiation

- i. Customers shall be required to comply with the requirements and restrictions on certain non-essential water uses provided in Section VII of this Plan when total daily
- ii. water demand equals or exceeds 3.3 million gallons for 5 consecutive days or 4.1 million gallons on a single day.

b. Requirements for Termination

- i. 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 7 consecutive days. Upon termination of Stage 2, Stage 1 becomes operative.

3. Stage 3 - Severe Water Shortage Conditions

a. Requirements for Initiation

- i. Customers shall be required to comply with the requirements and restrictions on certain non-essential water uses for Stage 3 of this Plan when total daily water demand equals or exceeds 4.0 million gallons for 5 consecutive days or 4.3 million gallons on a single day.

b. Requirements for Termination

- i. 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 7 consecutive days. Upon termination of Stage 3, Stage 2 becomes operative.

4. Stage 4 – Critical Water Shortage Conditions

a. Requirements for Initiation

- i. Customers shall be required to comply with the requirements and restrictions on certain non-essential water uses for Stage 4 of this Plan when continually falling treated water reservoir levels which do not refill above 50 percent overnight (e.g., based on an evaluation of minimum treated water storage required to avoid system outage).

b. Requirements for Termination

- i. Stage 4 of the Plan may be rescinded when all of the conditions listed as triggering events have ceased to exist for a period of 7 consecutive days. Upon termination of Stage 4, Stage 3 becomes operative.

5. Stage 5 - Emergency Water Shortage Conditions

a. Requirements for Initiation

- i. Customers shall be required to comply with the requirements and restrictions for Stage 5 of this Plan when the City Manager or his/her designee determines that a water supply emergency exists based on:
 1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service; or
 2. Natural or man-made contamination of the water supply source(s); or
 3. When the specific capacity of the City of Granbury well is equal to or less than 50 percent of the well's original specific capacity; or
 4. When the reservoir level of K1, K2, East Elevated Station, and the Boy Scout Tank falls below a level of 8 feet and the level continues to decrease for 4 hours.

b. Requirements for Termination

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

6. Water Rationing

Requirements for initiation - Customers shall be required to comply with the water allocation plan prescribed in Section X of this Plan and comply with the requirements and restrictions for Stage 5 of this Plan when total daily water demand equals or exceeds 3.1 million gallons for 5 consecutive days or 3.2 million gallons on a single day.

Requirements for termination - Water rationing may be rescinded when all of the conditions listed as triggering events have ceased to exist for a period of 7 consecutive days.

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 the Plan, shall determine that a mild, moderate, severe, critical, or emergency condition exists and shall implement the following actions upon publication of notice in a newspaper of general circulation:

1. Stage 1 - Mild Water Shortage Conditions

a. Goal:

Achieve a voluntary 25 percent reduction in total water use.

b. Supply Management Measures

City of Granbury shall implement measures to manage limited water supplies and by reduced or discontinued flushing of water mains.

c. Water Use Restrictions

1. 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.
2. All operations of the City of Granbury shall adhere to water use restrictions prescribed for Stage 2 of the Plan.
3. Water customers are requested to practice water conservation and to minimize or discontinue water use for non-essential purposes.

2. Stage 2 - Moderate Water Shortage Conditions

a. Target Water Use:

- i. The goal for water use reduction under this drought stage is to achieve a 35 percent reduction in total water use.

b. Supply Management Measures:

- i. The City of Granbury shall implement measures to manage limited water supplies by reduced or discontinued flushing of water mains.

c. Water Use Restrictions:

- i. Under threat of penalty for violation, the following water use restrictions shall apply to all persons:
 1. 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 any time 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.
 2. 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.

3. 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. .
4. 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.
5. Use of water from hydrants shall be limited to firefighting, 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 Granbury.
6. 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 Granbury, the facility shall not be subject to these regulations.
7. All restaurants. are prohibited from serving water to its patrons except when requested.
8. The following uses of water are defined as non-essential and are prohibited:
 - a. wash down of any sidewalks, walkways, driveways, parking lots, tennis courts, or other hard-surfaced areas;
 - b. use of water to wash down buildings or structures for purposes other than immediate fire protection;
 - c. use of water for dust control;
 - d. flushing gutters or permitting water to run or accumulate in any gutter or street; and
 - e. failure to repair a controllable leak(s) within a reasonable period after having been given notice directing the repair of such leak(s).

3. Stage 3 - Severe Water Shortage Conditions

a. Target Water Use:

- i. The goal for water use reduction under this drought stage is to achieve a 42 percent reduction in total water use.

b. Supply Management Measures:

- i. The City of Granbury shall implement measures to manage limited water supplies by discontinued flushing of water mains.

c. Water Use Restrictions:

- i. All requirements of Stage 2 shall remain in effect during Stage 3
- ii. except:
 - 1. 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.
 - 2. The watering of golf course tees is prohibited unless the golf course utilizes a water source other than that provided by the City of Granbury.
 - 3. The use of water for construction purposes from designated fire hydrants under special permit is to be discontinued.

4. Stage 4 - Critical Water Shortage Conditions

a. Target Water Use:

- i. The goal for water use reduction under this drought stage is to achieve a 50 percent reduction in total water use.

b. Supply Management Measures:

- i. The City of Granbury shall implement measures to manage limited water supplies by discontinued flushing of water mains and use of reclaimed water for non-potable purposes.

c. Water Use Restrictions:

- i. All requirements of Stage 2 and 3 shall remain in effect during Stage 4 except:
 - 1. Irrigation of landscaped areas shall be limited to designated watering days between the hours of 6:00 a.m. and 10:00 a.m. and between 8:00 p.m. and 12:00 midnight and shall be by means of hand-held hoses, hand-held buckets, or drip irrigation only. The use of hose-end sprinklers or permanently installed automatic sprinkler systems are prohibited at all times.
 - 2. Use of water to wash any motor vehicle, motorbike, boat, trailer, airplane or other vehicle not occurring on the premises of a commercial car wash and commercial service stations and not in the immediate interest of public health, safety, and welfare is prohibited. Further, such vehicle washing at commercial car washes and commercial service stations shall occur only between the hours of 6:00 a.m. and 10:00 a.m. and between 6:00 p.m. and 10 p.m.
 - 3. The filling, refilling, or adding of water to swimming pools, wading pools, and Jacuzzi-type pools is prohibited.
 - 4. 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.

5. No applications for new, additional, expanded, or increased-in-size water service connections, meters, service lines, pipeline extensions, mains, or water service facilities of any kind shall be allowed or approved.

5. Stage 5 - Emergency Water Shortage Conditions

a. Target Water Use:

- i. The goal for water use reduction under this drought stage is to achieve a 60 percent reduction in total water use.

b. Supply Management Measures:

- i. The City of Granbury shall implement measures to manage limited water supplies by discontinued flushing of water mains and use of reclaimed Water for non-potable purposes.

c. Water Use Restrictions:

- i. All requirements of Stage 2, 3, and 4 shall remain in effect during Stage 5 except:
 1. Irrigation of landscaped areas is absolutely prohibited.
 2. Use of water to wash any motor vehicle, motorbike, boat, trailer, airplane or other vehicle is absolutely prohibited.
 3. Use of water to wash any motor vehicle, motorbike, boat, trailer, airplane or other vehicle not occurring on the premises of a commercial car wash and commercial service stations and not in the immediate interest of public health, safety, and welfare is prohibited. Further, such vehicle washing at commercial car washes and commercial service stations shall occur only between the hours of 6:00 a.m. and 10:00 a.m. and between 6:00 p.m. and 10 p.m.
 4. The filling, refilling, or adding of water to swimming pools, wading pools, and jacuzzi-type pools is prohibited.
 5. 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.
 6. No applications for new, additional, expanded, or increased-in-size water service connections, meters, service lines, pipeline extensions, mains, or water service facilities of any kind shall be allowed or approved.

Section X. Pro Rata Water Allocation

In the event that triggering criteria specified in Section VI of the Plan for Stage 2-5 have been met, the City Manager is hereby authorized to initiate allocation of water supplies on a pro rata basis in accordance with Texas Water Code Section 11.039 and according to the following water allocation policies and procedures:

- A. 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" includes 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 Granbury 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 Granbury offices to complete and sign the foist 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 Granbury 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 Granbury 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 Granbury of a reduction in the number of person in a household shall be fined not less than \$35.00.

Residential water customers shall pay the following surcharges:

- a. \$10.00 for the first 1,000 gallons over allocation.
 - b. \$15.00 for the second 1,000 gallons over allocation. \$20.00 for the third 1,000 gallons over allocation.
 - c. \$25.00 for each additional 1,000 gallons over allocation.
- Surcharges shall be cumulative.

- B. 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 Granbury 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 Granbury 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 Granbury 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 Granbury 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:

- a. \$10.00 for 1,000 gallons over allocation up through 1,000 gallons for each dwelling unit.
- b. \$15.00 thereafter, for each additional 1,000 gallons over allocation up through a second 1,000 gallons for each dwelling unit.
- c. \$20.00 thereafter, for each additional 1,000 gallons over allocation up through a third 1,000 gallons for each dwelling unit.
- d. \$25.00 thereafter for each additional 1,000 gallons over allocation.

 Surcharges shall be cumulative.

- C. Commercial Customers: A monthly water usage 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. If the customer's billing history is shorter than 12 months, the monthly average for the period for which there is a record shall be used for any monthly period for which no history exists. Provided, however, a customer, 50 percent of whose monthly usage is less than 15000 gallons, shall be allocated 10000 gallons. 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 Granbury 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:

- a. Customers whose allocation is 0 gallons through 15000 gallons per month:
 1. \$10.00 per thousand gallons for the first 1,000 gallons over allocation.
 2. \$12.00 per thousand gallons for the second 1,000 gallons over allocation.
 3. \$12.00 per thousand gallons for the third 1,000 gallons over allocation.
 4. \$15.00 per thousand gallons for each additional 1,000 gallons over allocation.

- b. Customers whose allocation is 15,000 gallons per month or more:
 - 1. 1.1 times the block rate for each 1,000 gallons in excess of the allocation up through 5 percent above allocation.
 - 2. 1.2 times the block rate for each 1,000 gallons from 5 percent through 10 percent above allocation.
 - 3. 1.3 times the block rate for each 1,000 gallons from 10 percent through 15 percent above allocation.
 - 4. 1.5 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.

D. Industrial Customers: A monthly water usage 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 80% 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 usage baseline will be computed on the average water usage 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 12 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 customers 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 Granbury 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, if the designated period does not accurately reflect the customer's normal water usage because the customer had shut down a major processing unit for repair or overhaul during the period, the customer has added or is in the process of adding significant additional processing capacity, the customer has shut down or significantly reduced the production of a major processing unit, the customer has previously implemented significant permanent water conservation measures such that the ability to further reduce usage is limited, the customer agrees to transfer part of its allocation to another industrial customer, or 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:

- a. Customers whose allocation is 0 gallons through 25,000 gallons per month:
 - 1. \$8.00 per thousand gallons for the first 1,000 gallons over allocation.
 - 2. \$9.00 per thousand gallons for the second 1,000 gallons over allocation.
 - 3. \$10.00 per thousand gallons for the third 1,000 gallons over allocation.
 - 4. \$12.00 per thousand gallons for each additional 1,000 gallons over allocation.
- b. Customers whose allocation is 25,000 gallons per month or more:
 - 1. 1.2 times the block rate for each 1,000 gallons in excess of the allocation up through 5 percent above allocation.

2. 1.4 times the block rate for each 1,000 gallons from 5 percent through 10 percent above allocation.
3. 1.6 times the block rate for each 1,000 gallons from 10 percent through 15 percent above allocation.
4. 2.0 times the block rate for each 1,000 gallons more than 15 percent above allocation.
5. 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.

E. Wholesale Customers: A wholesale customer's monthly allocation shall be a percentage of the customer's water usage baseline. A monthly water usage allocation shall be established by the City Manager, or his/her designee, for each wholesale customer. The wholesale customer's water usage baseline will be computed on the average water usage by month for the most recent 36-month period as shown in the example given below. If the wholesale water customer's billing history is less than 3 years, 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.

	2016	2017	2018	Avg.	ALLOCATION PERCENTAGE
Jan	4.187	4.021	4.332	4.180	75%
Feb	4.520	3.291	3.868	3.893	75%
Mar	4.870	4.154	4.433	4.486	75%
Apr	4.740	4.004	5.422	4.722	75%
May	6.812	4.866	7.551	6.410	75%
Jun	6.477	8.500	8.257	7.745	75%
Jul	7.668	9.877	9.090	8.878	75%
Aug	5.977	6.565	8.795	7.112	75%
Sep	4.975	6.325	8.831	6.710	75%
Oct	4.358	5.002	6.888	5.416	75%
Nov	3.960	4.407	5.257	4.541	75%
Dec	4.658	4.509	4.765	4.644	75%

*UNITS IN MILLION GALLONS PER MONTH

The Water Superintendent shall provide notice, by certified mail, to each wholesale customer informing them of their monthly water usage allocations and shall notify the news media and the executive director of the Texas Commission on Environmental Quality upon initiation of pro rata water allocation.

Section XI. Enforcement

- A. No person shall knowingly or intentionally allow the use of water from the City of Granbury 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. All violations of this Plan shall be handled as follows:
- a. First Notice: The customer will be given a notice of the violation outlining the City's watering schedule and drought stage.
 - b. Second Notice: The customer will be given a notice of the violation along with a letter from the City outlining the watering violation. A visit will be made by the City to inform the home owner about out water restrictions that are in place and ideas to conserve water.
 - c. Third Notice: The customer will receive a certified letter and phone call informing them that their water is being disconnected due to continuing violations of the current water restrictions set forth in this Plan. Included in the letter will also be a notice informing them of a \$100.00 administrative fee that will be added to their bill. Services discontinued under such circumstances shall be restored only upon payment of a reconnection charge, hereby established at \$60.00, and any other costs incurred by the City of Granbury in discontinuing service. Also, a citation may be issued at this stage. (c) Any person who violates this Plan is guilty of a misdemeanor and, upon conviction shall be punished by a fine of five hundred dollars (\$500.00). Each day that one or more of the provisions in this Plan is violated shall constitute a separate offense. Compliance with this plan may also be sought through injunctive relief in the district court.
 - d. Any person, including a person classified as a water customer of the City of Granbury, 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.
 - e. Any employee of the City of Granbury, police officer, or other security employee designated by the City Manager, may issue a citation to a person he/she reasonably believes to be in violation of this Resolution. The citation shall be prepared in duplicate and shall contain the name and addresses of the alleged violator, if known, the offense charged, and shall direct him/her to appear in the justice of the peace court on the date shown on the citation for which the date shall not be less than 3 days nor more than 5 days from the date the citation was issued. The alleged violator shall be served a copy of the citation. Service of the citation shall be complete upon delivery of the citation to the alleged violator, to an agent or employee of a violator, or to a person over 14 years of age who is a member of the violator's immediate family or is a resident of the violator's residence. The alleged violator shall appear in justice of the peace court to enter a plea of guilty or not guilty for the violation of this Plan. If the alleged violator fails to appear in justice of the 'peace court, a warrant for his/her arrest may be issued. A summons to appear may be issued in lieu of an arrest warrant. These cases shall be expedited and given preferential setting in justice of the peace court before all other cases.

Section XII: 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
- C. water use.

Persons requesting an exemption from the provisions of this Resolution shall file a petition for variance with the City of Granbury 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 Resolution.
- 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.

Variances granted by the City of Granbury shall be subject to the following conditions, unless waived or modified by the City Manager:

- a. Variances granted shall include a timetable for compliance.
- b. 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 this Plan occurring prior to the issuance of the variance.

Section XIII. Coordination with Regional Water Planning Group

The service area of the City is located within the Region G Water Planning Group and the City has provided a copy of the Plan to the Region G Water Planning Group.

Section XIV. Modification, Deletion and Amendment

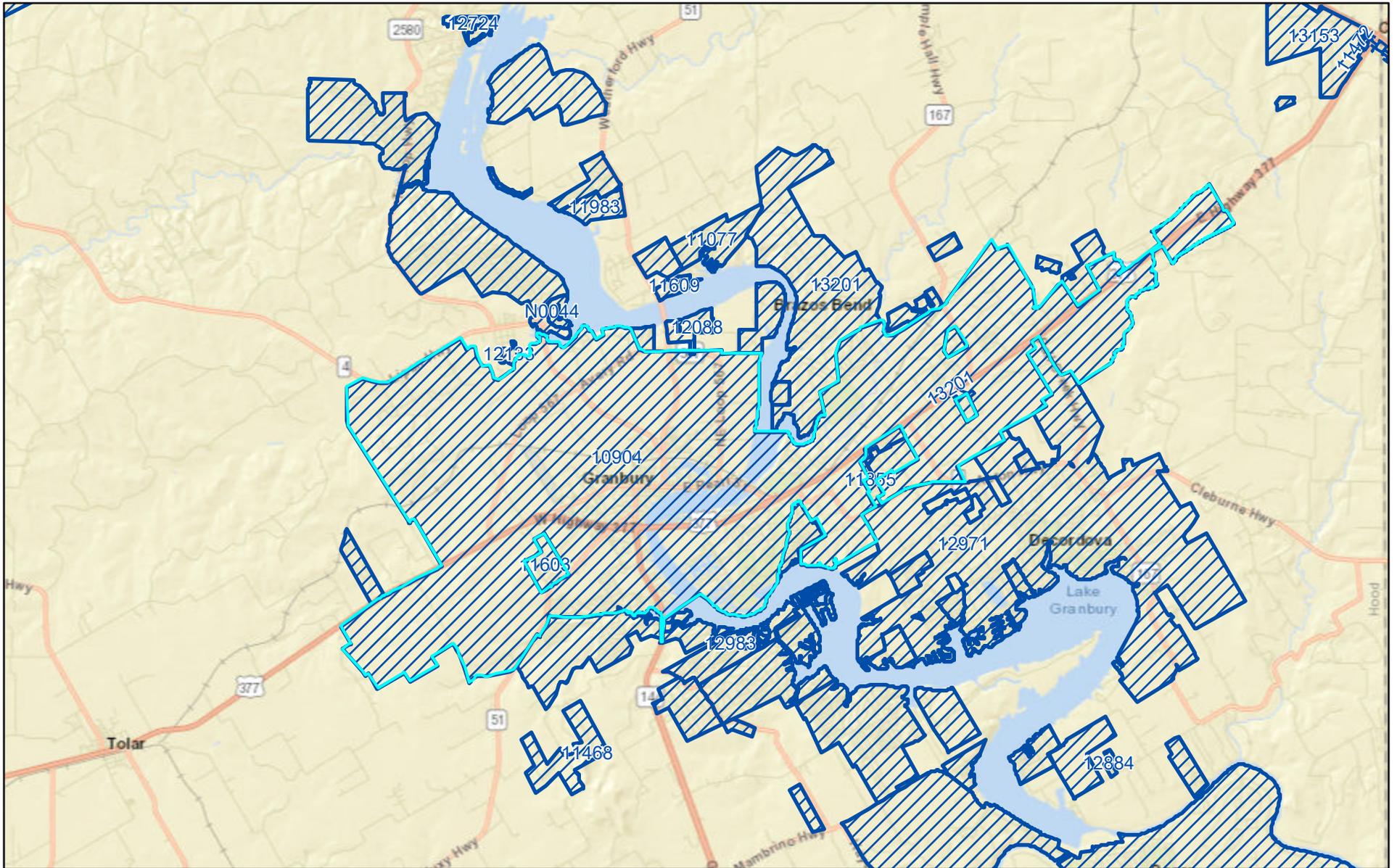
Modification to this Plan in any form shall be presented for public discussion and approved by the City Council in accordance with all State and local laws. The City will review and update this Drought Contingency Plan, as appropriate. As a minimum the Plan will be updated at regular five (5) year intervals.

Section XV. Severability

It is hereby declared to be the intention of the City that the sections, paragraphs, sentences, clauses, and phrases of this Plan are severable and, if any phrase, clause, sentence, paragraph, or section of this Plan shall be declared unconstitutional by the valid judgment or decree of any court of competent jurisdiction, such unconstitutionality shall not affect any of the remaining phrases, clauses, sentences, paragraphs, and sections of this Plan, since the same would not have been enacted by the City without the incorporation into this Plan of any such unconstitutional phrase, clause, sentence, paragraph, or section.

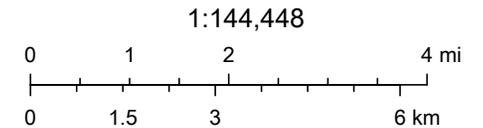
Appendix A
Service Area Map

City of Granbury CCN/Service Area (10904)



February 25, 2019

-  Water CCN Facility Lines
-  Water CCN Service Areas



Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan,

RESOLUTION NO. 19-14

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF GRANBURY, TEXAS AMENDING THE WATER CONSERVATION AND DROUGHT CONTINGENCY PLAN FOR THE CITY OF GRANBURY.

WHEREAS, the City of Granbury (hereinafter referred to as "City") recognizes that the amount of water available to the City and its water utility customers is limited and subject to depletion during periods of extended drought; and

WHEREAS, the City recognizes that natural limitations due to drought conditions and other acts of God cannot guarantee an uninterrupted water supply for all purposes; and

WHEREAS, Section 11.1272 of the Texas Water Code and applicable rules of the Texas Commission on Environmental Quality require all affected public water supply systems in Texas to prepare a water conservation and drought contingency plan; and

WHEREAS, as authorized under law, and in the best interests of the customers of the City, the Granbury City Council deems it expedient and necessary to establish certain rules and policies for the orderly and efficient management of limited water supplies during drought and other water supply emergencies.

NOW THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF GRANBURY, TEXAS THAT:

SECTION 1.

The Water Conservation and Drought Contingency Plan attached hereto as Exhibit A and made part hereof for all purposes be adopted as the official policy of the City of Granbury.

SECTION 2.

This resolution shall take effect immediately upon its passage.

PASSED AND APPROVED this 7th day of May 2019.



Nin Hulett, Mayor

ATTEST:



Carla Walker, City Secretary

