WATER CONSERVATION PLAN AND DROUGHT CONTINGENCY PLAN

CITY OF GLEN ROSE

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CITY OF GLEN ROSE, TEXAS WATER CONSERVATION PLAN

Section I Declaration of Policy, Purpose and Intent

The purpose of the Water Conservation Plan (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 that educate customers about water and wastewater facilities operations, water quantity and quality, water conservation and non-point source protection.

Section II Utility Profile Summary

The City of Glen Rose (City) is located approximately 55 miles southwest of Fort Worth, 17 miles south of Granbury and 30 miles east of Stephenville. The City supplies water to approximately 2,748 retail water users (in the year 2024) located within the city limits which encompasses approximately 3.59 square miles as depicted in the service area map in Appendix A.

Sources for treated water for the City of Glen Rose consist of purchased treated potable water from the Somervell County Water District (District) and five ground water wells which serve as a backup source in case of a water emergency. When used, the City chlorinates water from its wells before distributing water to water users. Purchased treated water from the District is delivered to City of Glen Rose users without further treatment. The service area for the public water systems encompasses an area of approximately 3.59 square miles and is depicted in the service area map 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 2024 was approximately 2,703 water users as determined by information from Brazos Region G Water Planning Group. Table 1 provides population figures for the City of Glen Rose for the previous five years.

Table 1: Population for City of Glen Rose (2019-2023)

Year	Persons		
2019	2,639		
2020	2,653		
2021	2,665		
2022	2,678		
2023	2,690		
Source-Brazos Region G Water Planning Group			

Table 2 depicts projected population figures for the City of Glen Rose through the year 2070.

Table 2: Population for City of Glen Rose (2030-2070)

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Year	Persons			
2030	2,776			
2040	2,805			
2050	2,905			
2060	2,890			
2070	2,872			
Source-Brazos Region G Water Planning Group				

B. Customer and Water Use Data

City of Glen Rose customers consist of a mixture of residential, commercial and public/institutional customers. The City of Glen Rose residential users are supplied through approximately 1,461 service connections with up to 148 new service connections added each year. Glen Rose serves approximately 238 commercial connections with several new commercial connections added each year. Glen Rose does not currently serve any industrial or wholesale users. Table 3 summarizes the projected population, total water use, and per capita water use figures for the City of Glen Rose water users over the coming decade.

Table 3: Population and Water Use Projections for the City of Glen Rose (2025-2034)

Year	Population (persons)	Water Use (gallons)	Per Capita Use (gpcd)
2025	2,715	156,516,011	158
2026	2,728	157,043,889	158
2027	2,740	157,571,768	158
2028	2,753	158,099,647	157
2029	2,766	158,627,525	157
2030	2,776	159,155,404	157
2031	2,794	159,630,495	157
2032	2,803	160,105,585	157
2033	2,812	160,580,676	157
2034	2,821	161,055,767	157
	Source-Brazos Re	egion G Water Planning Gro	oup

C. Water Supply System

1. Water Sources

Treated potable water for use by City customers is purchased on a wholesale basis by the City from the District. The City maintains five emergency groundwater wells for use in case of water emergencies.

2. Water Treatment

Treated water purchased from the District and distributed to City of Glen Rose users is treated to finished water standards by the District. The City does not provide additional treatment to potable water purchased from the District. In the event the ground water wells are placed into emergency

service chlorine is applied to the ground water prior to storage and distribution.

3. Water Distribution

The City of Glen Rose's water distribution system consists of underground water mains, a 750,000 gallon ground storage tank, a 511,000 gallon elevated storage tank, fire hydrants, and customer meters.

Purchased water from the District enters the City's system and is stored in ground and elevated storage tanks with a combined volume of 1.261 million gallons. The distribution network is laid out in a continuous looped network to circulate water and maintain constant system pressure. The ground water wells serve as an emergency backup water source in the event of a water emergency.

D. Wastewater System

1. Wastewater Collection

The existing wastewater collection system operated by the City consists of gravity lines and force mains of various sizes, types, and ages. The collection system conveys collected sewage to the City's wastewater treatment plant.

2. Wastewater Treatment

The WWTP is a sequencing batch reactor (SBR) activated sludge plant with a capacity of one million gallons per day (mgd). Several important improvements made over the years include the addition of a reuse pump station. The purpose of the reuse system improvements has been to reduce the volume of well water used at a nearby golf course, thereby reserving potable well water supplies primarily for emergency potable uses only. The plant operates under TPDES permit WQ0010177001 with a permitted capacity of 1.0 mgd.

Section III Water Conservation Goals

The 5- and 10-year total per capita use goals for the City of Glen Rose water users is to maintain total per capita water use at or below 157 gallons per capita per day (gpcd) and 156 gpcd respectively in the years 2029 and 2034. The residential per capita use goals for the City of Glen Rose are 77 gpcd and 76 gpcd respectively in the years 2029 and 2034. The 5- and 10-year per capita water loss goals are to maintain per capita loss at or below 17 gpcd by the year 2029 and 16 gpcd by the year 2034. These goals are set in accordance with Texas Water Development Board's policies based on consideration of Region G Water Planning Group projections and historic water use trends (see Appendix C).

Section IV Metering Devices

It is Glen Rose'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.

Section V Universal Metering

It is the City of Glen Rose's policy to meter all water diverted from the source of supply and distributed to system users.

Section VI Measures to Determine and Control Unaccounted-For Uses of Water

The City of Glen Rose utilizes a record management system designed to account for water use from point of diversion/purchase to point of delivery to system users. Through detailed record keeping and onsite inspection of the treatment and transmission systems the City of Glen Rose will be able to account for water 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.

Section VII Leak Detection and Repair

Operations personnel for the City of Glen Rose practice a leak detection and repair program involving visual inspections of the transmission systems associated with the City's facilities. A record management system is used to detect unusual water delivery rates. City of Glen Rose 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 VIII Water Rate Structure

The water rate structure utilized by the City promotes conservation and shifts the cost of supplying water to those consumers using it most. A copy of the City's water rates is provided in Appendix E.

Section IX Means of Implementation and Enforcement

This Water Conservation Plan has been adopted by the City. A copy of the resolution adopting this Plan is included in Appendix D. The Plan is enforced within the City's service area by providing service taps only to customers complying with Plan elements, maintaining a non-declining rate structure, discontinuing service to those customers who do not pay their water bills until payment is made, and certifying new construction only after verifying if conforms to adopted ordinances and plumbing codes.

Section X Continuing Education and Information

The City of Glen Rose will inform water users of various methods for conserving water. The goal of the program is to deliver the conservation message through local 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 Glen Rose 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 Glen Rose's water conservation message.
- **D.** Water conservation presentations will be offered to area civic groups as the opportunities arise.

Section XI Additional Wholesale Water Contract Requirements

While the City does not presently serve any wholesale customers, it is the City of Glen Rose's policy to include in every wholesale water supply contract entered into or renewed after official adoption of the Plan, including any contract extension, that each successive wholesale customer develop and implement a water conservation plan or water conservation measures using applicable elements in 30 TAC 288. If the wholesale customer intends to resell the water, then the contract between Glen Rose and the wholesale customer must 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.

Section XII Coordination with Regional Water Planning Group

All of the customers served by the City of Glen Rose are located within the Brazos G Regional Water Planning Area. Glen Rose has provided a copy of this Plan to the Brazos G Regional Water Planning Group.

Section XIII Reservoir Operations Plan

There are no reservoirs associated with the City of Glen Rose water production facilities. As such no reservoir operations plans exist for this system.

Section XIV Revisions to the Water Conservation Plan

The City of Glen Rose 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 XV Severability

It is hereby to be the intention of the City of Glen Rose 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 Glen Rose without the incorporation into this Plan of any such unconstitutional phrase, clause, sentence, paragraph or section.

CITY OF GLEN ROSE, TEXAS DROUGHT CONTINGENCY PLAN

Section I Declaration of Policy, Purpose and Intent

In order to conserve the available water supply and/or to 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 Glen Rose, Texas (City) adopts the following Drought Contingency Plan (Plan).

Section II Public Involvement

Opportunity for water customers to provide input into the preparation of the Plan was provided by the City by means of regular City Council meetings.

Section III Public Education

The City 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 the City through public events, press releases or utility bill inserts.

Section IV Coordination with Regional Water Planning Group

The service area of the City of Glen Rose 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 V Authorization

The City Manager for the City of Glen Rose, 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 customers utilizing water provided by the City of Glen Rose. 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:

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

<u>Commercial and institutional water use</u>: 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.

<u>Conservation</u>: 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.

<u>Customer</u>: any person, company, or organization using water supplied by the City of Glen Rose.

<u>Domestic water use</u>: 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.

<u>Even number address</u>: street addresses, box numbers, or rural postal route numbers ending in 0, 2, 4, 6, or 8 and locations without addresses.

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

<u>Landscape irrigation use</u>: 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.

<u>Non-essential water use</u>: water uses that are not essential nor required for the protection of public, health, safety, and welfare, including:

- 1. irrigation of landscape areas, including parks, athletic fields, and golf courses, except otherwise provided under this Plan;
- 2. use of water to wash any motor vehicle, motorbike, boat, trailer, airplane or other vehicle;
- **3.** use of water to wash down any sidewalks, walkways, driveways, parking lots, tennis courts, or other hard-surfaced areas;
- **4.** use of water to wash down buildings or structures for purposes other than immediate fire protection;
- **5.** flushing gutters or permitting water to run or accumulate in any gutter or street;

- **6.** use of water to fill, refill, or add to any indoor or outdoor swimming pools or Jacuzzitype pools;
- 7. use of water in a fountain or pond for aesthetic or scenic purposes except where necessary to support aquatic life;
- **8.** failure to repair a controllable leak(s) within a reasonable period after having been given notice directing the repair of such leak(s); and
- **9.** use of water from hydrants for construction purposes or any other purposes other than firefighting.
- **10.** 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 weekly basis and shall determine when conditions warrant initiation or termination of each stage of the Plan. Customer notification of the initiation or termination of drought response stages will be made by email, mail or telephone. The news media will also be informed.

The triggering criteria described below are based on a combination of two factors.

- A. The City receives treated water on a wholesale basis from the Somervell County Water District (District) which maintains a water conservation and drought contingency plan. Pursuant to pro rata measures described in section §11.039 of the Texas Water Code if a shortage of water in a water supply covered by a water conservation plan prepared in compliance with applicable State Rules results from drought, accident, or other cause, the person, association of persons, or corporation owning or controlling the water shall divide the water to be distributed among all customers pro rata, according to:
 - **1.** The amount of water to which each customer may be entitled; or
 - 2. The amount of water to which each customer may be entitled, less the amount of water the customer would have saved if the customer had operated its water system in compliance with the water conservation plan.

As such the City of Glen Rose recognizes the need to implement drought-related water use restrictions for its customers receiving treated surface water based on the same triggering criteria recognized by the District. One set of triggering criteria defined by the City of Glen Rose in its Plan will be the same as the triggering criteria defined in the District's Drought Contingency Plan.

B. The City also recognizes that conditions in its wholesale and/or retail delivery system may require the City to implement drought contingency measures exclusive of conditions in the District's delivery system. A second set of triggering conditions are therefore defined in the City's Plan based on water usage of its direct retail purchasers and the City's production and delivery systems.

Stage 1 Triggers: Mild Water Shortage Conditions

1. Requirements for Initiation:

- a. The City of Glen Rose will recognize that a mild water shortage condition exists for its direct retail customers receiving treated surface water when the District declares Stage 1 of its Plan to be in effect, and supplemental groundwater supplies are not sufficient to meet demand when combined with available treated surface water, or
- b. Continually falling water storage facility levels in City storage tanks do not refill above the 50% level overnight.

2. Requirements for Termination:

- a. Stage 1 of the Plan may be rescinded when the District rescinds its Stage 1 or when all of the other conditions listed as triggering events have ceased to exist for a period of three (3) consecutive days.
- b. The City of Glen Rose will notify its customers and the media of the termination of Stage 1 in the same manner as the notification of initiation of Stage 1 of the Plan.

Stage 2 Triggers: Moderate Water Shortage Conditions

1. Requirements for Initiation:

- a. The City of Glen Rose will recognize that a moderate water shortage condition exists for wholesale customers receiving treated surface water when the District declares Stage 2 of its Plan to be in effect, and supplemental groundwater supplies are not sufficient to meet demand when combined with available treated surface water, or
- b. When continually falling water storage facility levels in City storage tanks do not refill above the 50% level overnight for three (3) consecutive days.

2. Requirements for Termination:

- a. Stage 2 of the Plan may be rescinded when the District rescinds its Stage 2 or when all of the other conditions listed as triggering events have ceased to exist for a period of three (3) consecutive days.
- b. The City of Glen Rose will notify its wholesale and/or retail customers and the media of the termination of Stage 2 in the same manner as the notification of initiation of Stage 2 of the Plan.
- c. Stage 1 may be implemented upon rescinding Stage 2.

Stage 3 Triggers: Severe Water Shortage Conditions

1. Requirements for Initiation:

- a. The City of Glen Rose will recognize that a severe water shortage condition exists for wholesale customers receiving treated surface water when the District declares Stage 3 of its Plan to be in effect, and supplemental groundwater supplies are not sufficient to meet demand when combined with available treated surface water, or
- b. When continually falling water storage facility levels in the City's storage tanks do not refill above the 50% level overnight for five (5) consecutive days.

2. Requirements for Termination:

- a. Stage 3 of the Plan may be rescinded when the District rescinds its Stage 3 or when all of the other conditions listed as triggering events have ceased to exist for a period of three (3) consecutive days.
- b. The City of Glen Rose will notify its customers and the media of the termination of Stage 3 in the same manner as the notification of initiation of Stage 3 of the Plan.
- c. Stage 1 or 2 may be implemented upon rescinding Stage 3.

Stage 4 Triggers: Emergency Water Shortage Conditions

1. Requirements for Initiation:

a. The City of Glen Rose will recognize that an emergency water shortage condition for wholesale customers receiving treated surface water when the District declares Stage 4 of its Plan to be in effect, and supplemental groundwater supplies are not sufficient to meet demand when combined with available treated surface water, or

- b. When continually falling water storage facility levels do not refill above the 50% level overnight for seven (7) consecutive days, or
- c. When major line breaks, pump system failures, treatment system failures, water supply contamination or other unforeseen conditions occur that cause the City Manager to recommend implementation of Stage 4 of the Plan.

2. Requirements for Termination:

- a. Stage 4 of the Plan may be rescinded when the District rescinds its Stage 4 or when all of the other conditions listed as triggering events have ceased to exist for a period of three (3) consecutive days, or
- b. When at the discretion of the City Manager or his/her designee service has been restored to the point where Stage 4 conditions may be rescinded.
- c. The City of Glen Rose will notify its wholesale and/or retail customers and the media of the termination of Stage 4 in the same manner as the notification of initiation of Stage 4 of the Plan.
- d. Stages 1, 2 or 3 may be implemented upon rescinding Stage 4.

Section IX Drought Response Stages

The City Manager or his/her designee, shall monitor water supply and/or demand conditions and, in accordance with the triggering criteria set forth in Section VII, shall determine that mild, moderate, or severe water shortage conditions exist or that an emergency condition exists and shall implement the following actions:

A. <u>Notification:</u> The City Manager, or his/her designee, will contact water customers through news media or other City information outlets to inform users of water supply and/or demand conditions.

Stage 1 Response: Mild Water Shortage Conditions

1. Target:

a. Maintain total water use by system users to less than 1.36 million gallons per day.

2. Best Management Practices for Supply Management:

a. The City may utilize wells to supplement surface water production when necessary during periods when drought restrictions corresponding to the District stages are in place.

3. <u>Water Use Restrictions for Reducing Demand:</u>

- 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 Glen Rose 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

1. Target:

- a. Maintain total water use by system users to less than 1.25 million gallons per day, and.
- b. Achieve reduction in total water use water system users, to a point where water use drops below Stage 2 trigger conditions.

2. Best Management Practices for Supply Management:

a. The City may utilize wells to supplement surface water production when necessary during periods when drought restrictions corresponding to the District stages are in place.

3. Water Use Restrictions for Reducing Demand:

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 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.
- 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 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 Glen Rose.
- 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 potable water provided by the City of Glen Rose, the facility shall not be subject to these regulations. Watering golf course greens, tees, and fairways with reclaimed/reuse water is allowed.
- 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

1. Target:

- a. Maintain total water use by system users to less than 1.00 million gallons per day, and.
- b. Achieve reduction in total water use water system users, to a point where water use drops below Stage 3 trigger conditions.

2. Best Management Practices for Supply Management:

a. Wholesale customers may utilize wells to supplement surface water production when necessary during periods when drought restrictions corresponding to the District stages are in place.

3. Water Use Restrictions for Reducing Demand:

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 potable water provided by the City of Glen Rose. Watering golf course tees with reclaimed/reuse water is allowed.
- c. The use of water for construction purposes from designated fire hydrants under special permit is to be discontinued. 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.
- d. 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.
- e. The filling, refilling, or adding of water to swimming pools, wading pools, and Jacuzzi-type pools is prohibited.
- f. 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.
- g. No application 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 approved, and time limits for approval of such applications are hereby suspended for such time as this drought response stage or a higher-numbered stage shall be in effect.

Stage 4 Response: Emergency Water Shortage Conditions

1. Target:

a. Limit maximum total water use by system users sufficient to sustain a minimum of 30 psi in all parts of the distribution system throughout the emergency condition.

Whenever emergency water shortage conditions exist as defined in Section VII of the Plan, the City Manager, or his/her designee, shall:

- a. Assess the severity of the problem and identify the actions needed and time required to solve the problem.
- Provide press releases sufficient to inform the public of the water emergency as appropriate to bring about a reduction in water use until full service is restored.
- c. If appropriate, notify city, county, and/or state emergency response officials for assistance.
- d. Undertake necessary actions, including repairs and/or clean-up as needed.
- e. Prepare a post-event assessment report for City use on the incident and critique of emergency response procedures and actions to better prepare for future response measures.

2. Water Use Restrictions for Reducing Demand:

All requirements of Stages 2 and 3 shall remain in effect during Stages 4 except:

- Irrigation of landscaped areas with potable water supplied by the City of Glen Rose public water delivery system is absolutely prohibited.
- b. Use of potable water supplied by the City of Glen Rose public water delivery system to wash any motor vehicle, motorbike, boat, trailer, airplane or other vehicle is absolutely prohibited.
- c. The use of potable water supplied by the City of Glen Rose public water delivery system for construction purposes from designated fire hydrants under special permit is to be discontinued.

Section X Enforcement

A. No person shall knowingly or intentionally allow the use of water from the City of Glen Rose 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 misdemeanor and, upon conviction shall be punished by a fine of not less than one hundred dollars (\$100) and not more than five hundred dollars (\$500). 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 \$200, and any other costs incurred by the City of Glen Rose 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 Glen Rose, 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.
- D. Any employee of the City of Glen Rose, police officer, or other City employee designated by the City Manager, may issue a citation to a person he/she reasonably believes to be in violation of this Plan. The citation shall be prepared in duplicate and shall contain the name and address of the alleged violator, if known, the offense charged, and shall direct him/her to appear in the City of Glen Rose Municipal 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 City of Glen Rose Municipal Court to enter a plea of guilty or not guilty for the violation of this Plan. If the alleged violator fails to appear 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 a preferential setting before all other cases.

Section XI Variances

The City Manager, or his/her designee, may, in writing, grant a temporary variance to the pro rata water allocation policies provided by this Plan if it is determined that failure to grant such variance would cause an emergency condition adversely affecting the public health, welfare, or safety 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 Plan shall file a petition for variance with the City Manager within 5 days after pro rata allocation has been invoked. All petitions for variances shall be reviewed by the City Council of Glen Rose, and shall include the following:

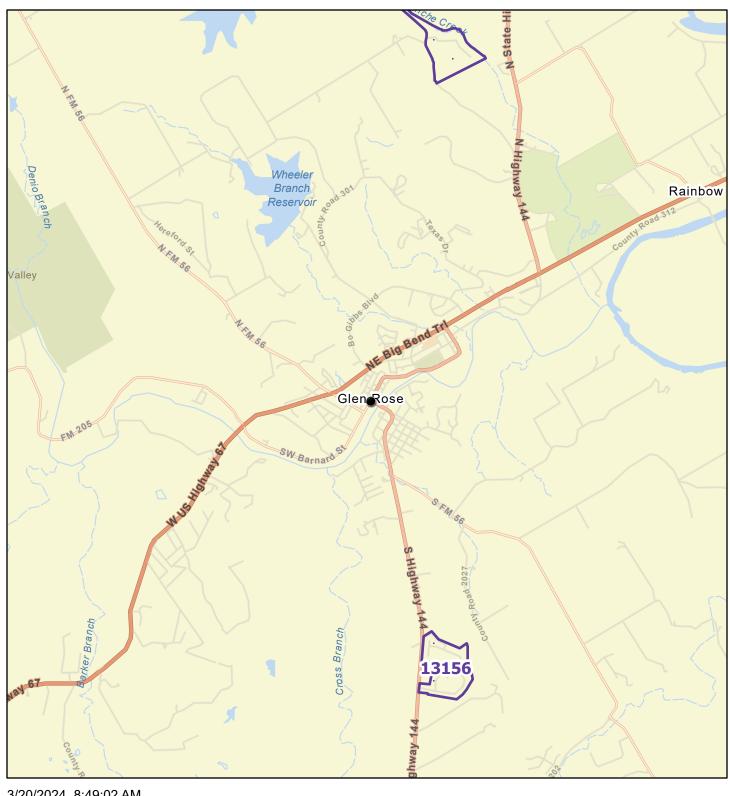
- **1.** Name and address of the petitioner(s).
- 2. Detailed statement with supporting data and information as to how the pro rata allocation of water under the policies and procedures established in the Plan adversely affects the petitioner or what damage or harm will occur to the petitioner or others if petitioner complies with this Resolution.
- **3.** Description of the relief requested.
- **4.** Period of time for which the variance is sought.
- **5.** Alternative measures the petitioner is taking or proposes to take to meet the intent of this Plan and the compliance date.
- **6.** Other pertinent information.

Section XII Severability

It is hereby declared to be the intention of the City Council of Glen Rose 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 Council of Glen Rose without the incorporation into this Plan of any such unconstitutional phrase, clause, sentence, paragraph, or section.

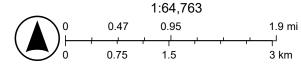
Appendix A
Service Area Map

City of Glen Rose Water Service Area



3/20/2024, 8:49:02 AM

Water CCN Service Areas



Appendix B

Utility Profile for Retail Water Supplier



CONTACT INFORMATION

Name	Name of Utility: CITY OF GLEN ROSE								
Public Water Supply Identification Number (PWS ID): TX2130001									
Certif	Certificate of Convenience and Necessity (CCN) Number:								
Surfa	Surface Water Right ID Number:								
Waste	ewater	ID Number:							
Conta	act:	First Name	: Jim		La	st Name:	Holder		
		Title:							_
Addr	ess:	PO Box 19	49		City:	Glen Ro	ose	State:	TX
Zip C	ode:	76043	Zip+4:		Email:	jim.hold	er@glenrose	etexas.org	
Telep	hone I	Number:	2548972272		- Date:				
	s perso dinato		nated Conser	ration	•	Yes	O No		
Regio	onal W	ater Plannin	g Group:	G					
Grou	ndwate	er Conservat	tion District:						
Our r	ecords	indicate tha	at you:						
√	Receiv	ved financia	l assistance of	\$500,000 o	r more fro	m TWDB			
	Have	3,300 or mo	re retail conne	ctions					
Have a surface water right with TCEQ									
A. Population and Service Area Data									
,	1. Current service area size in square miles: 4								
Attached file(s):									
	File Na			File Desc	ription				
١	Nater S	Service Area	a.pdf						



2. Historical service area population for the previous five years, starting with the most current year.

Year	Historical Population Served By Retail Water Service	Historical Population Served By Wholesale Water Service	Historical Population Served By Wastewater Water Service
2023	2,848	0	2,690
2022	2,725	0	2,678
2021	2,798	0	2,665
2020	2,536	0	2,653
2019	2,627	0	2,639

3. Projected service area population for the following decades.

Year	Projected Population Served By Retail Water Service	Projected Population Served By Wholesale Water Service	Projected Population Served By Wastewater Water Service
2030	2,776	0	2,776
2040	2,865	0	2,865
2050	2,905	0	2,905
2060	2,890	0	2,890
2070	2,872	0	2,872

4. Described source(s)/method(s) for estimating current and projected populations.

Population is estimated using 2026 Regional Water Plan.



B. System Input

System input data for the <u>previous five years</u>.

Total System Input = Self-supplied + Imported – Exported

Year	Water Produced in Gallons	Purchased/Imported Water in Gallons	Exported Water in Gallons	Total System Input	Total GPCD
2023	149,670,707	23,654,545	0	173,325,252	167
2022	140,764,646	32,540,404	0	173,305,050	174
2021	86,412,245	57,774,747	0	144,186,992	141
2020	64,323,469	83,004,040	0	147,327,509	159
2019	21,521,212	124,227,273	0	145,748,485	152
Historic Average	92,538,456	64,240,202	0	156,778,658	159

C. Water Supply System

1. Designed daily capacity of system in gallons 1,361,000

2. Storage Capacity

2a. Elevated storage in gallons: 511,000

2b. Ground storage in gallons: 750,000



D. Projected Demands

1. The estimated water supply requirements for the <u>next ten years</u> using population trends, historical water use, economic growth, etc.

Year	Population	Water Demand (gallons)
2025	2,715	156,516,011
2026	2,728	157,043,889
2027	2,740	157,571,768
2028	2,753	158,099,647
2029	2,766	158,627,525
2030	2,785	159,155,404
2031	2,794	159,630,495
2032	2,803	160,105,585
2033	2,812	160,580,676
2034	2,821	161,055,767

2. Description of source data and how projected water demands were determined.

Population and water use estimates were developed using the 2026 Regional Water Plan and utility records.

E. High Volume Customers

1. The annual water use for the five highest volume **RETAIL customers.**

Customer	Water Use Category	Annual Water Use	Treated or Raw
Cherokee Rose	Commercial	3,500,000	Treated
Glen Lake	Commercial	3,500,000	Treated
Glen Rose Medical Center	Institutional	3,000,000	Treated
Glen Rose ISD	Commercial	2,000,000	Treated
Glen Rose Inn	Commercial	2,000,000	Treated

2. The annual water use for the five highest volume **WHOLESALE customers.**

Customer	Water Use Category	Annual Water Use	Treated or Raw
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F. Utility Data Comment Section

Additional comments about utility data.

Section II: System Data

A. Retail Water Supplier Connections

1. List of active retail connections by major water use category.

Water Use Category Type	Total Retail Connections (Active + Inactive)	Percent of Total Connections
Residential - Single Family	1,137	77.82 %
Residential - Multi-Family	19	1.30 %
Industrial	1	0.07 %
Commercial	238	16.29 %
Institutional	66	4.52 %
Agricultural	0	0.00 %
Total	1,461	100.00 %

2. Net number of new retail connections by water use category for the <u>previous five years.</u>

	Net Number of New Retail Connections						
Year	Residential - Single Family	Residential - Multi-Family	Industrial	Commercial	Institutional	Agricultural	Total
2023	134	8	3	0	3	0	148
2022	13	1	0	54	0	0	68
2021	48	4	5	0	5	0	62
2020	0	0	0	107	0	5	112
2019	0	1	0	0	0	0	1



B. Accounting Data

The <u>previous five years'</u> gallons of RETAIL water provided in each major water use category.

Year	Residential - Single Family	Residential - Multi-Family	Industrial	Commercial	Institutional	Agricultural	Total
2023	82,033,000	12,336,000	0	50,836,000	9,200,000	0	154,405,000
2022	79,200,000	5,551,000	0	48,178,000	15,655,000	0	148,584,000
2021	62,825,000	6,687,000	0	42,715,000	16,015,000	0	128,242,000
2020	64,074,000	4,863,000	0	35,687,000	16,258,000	4,375,000	125,257,000
2019	68,443,000	4,416,000	0	20,716,000	31,463,000	2,720,000	127,758,000

C. Residential Water Use

The previous five years residential GPCD for single family and multi-family units.

Year	Total Residential GPCD
2023	94
2022	85
2021	68
2020	77
2019	82
Historic Average	81



D. Annual and Seasonal Water Use

1. The <u>previous five years'</u> gallons of treated water provided to RETAIL customers.

		Total Ga	llons of Treate	d Water	
Month	2023	2022	2021	2020	2019
January	11,517,000	10,817,000	10,402,000	10,174,000	10,723,000
February	10,285,000	10,474,000	11,602,000	9,142,000	9,644,000
March	13,862,000	12,448,000	10,538,000	9,206,000	11,398,000
April	11,826,000	12,866,000	10,484,000	10,297,000	10,580,000
May	11,578,000	14,779,000	9,953,000	12,843,000	10,511,000
June	14,530,000	17,553,000	12,341,000	14,147,000	11,342,000
July	19,028,000	21,672,000	13,216,000	15,397,000	15,118,000
August	23,526,000	18,062,000	14,444,000	19,886,000	17,305,000
September	17,267,000	14,593,000	15,175,000	11,964,000	15,114,000
October	14,833,000	14,580,000	12,803,000	12,889,000	12,919,000
November	11,524,000	11,095,000	11,359,000	9,830,000	9,815,000
December	11,816,000	12,633,000	9,564,000	9,436,000	9,822,000
Total	171,592,000	171,572,000	141,881,000	145,211,000	144,291,000



2. The <u>previous five years'</u> gallons of raw water provided to RETAIL customers.

	Total Gallons of Raw Water					
Month	2023	2022	2021	2020	2019	
January						
February						
March						
April						
May						
June						
July						
August						
September						
October						
November						
December						
Total						

3. Summary of seasonal and annual water use.

	Summer RETAIL (Treated + Raw)	Total RETAIL (Treated + Raw)
2023	57,084,000	171,592,000
2022	57,287,000	171,572,000
2021	40,001,000	141,881,000
2020	49,430,000	145,211,000
2019	43,765,000	144,291,000
Average in Gallons	49,513,400.00	154,909,400.00



E. Water Loss

Water Loss data for the <u>previous five years</u>.

Year	Total Water Loss in Gallons	Water Loss in GPCD	Water Loss as a Percentage
2023	17,227,366	17	10.00 %
2022	23,532,104	24	13.70 %
2021	14,559,815	14	10.30 %
2020	19,776,871	21	13.60 %
2019	16,168,629	17	11.20 %
Average	18,252,957	19	11.76 %

F. Peak Day Use

Average Daily Water Use and Peak Day Water Use for the previous five years.

Year	Average Daily Use (gal)	Peak Day Use (gal)	Ratio (peak/avg)
2023	470,115	620478	1.3198
2022	470,060	622684	1.3247
2021	388,715	434793	1.1185
2020	397,838	537282	1.3505
2019	395,317	475706	1.2034

G. Summary of Historic Water Use

Water Use Category	Historic Average	Percent of Connections	Percent of Water Use
Residential - Single Family	71,315,000	77.82 %	52.11 %
Residential - Multi-Family	6,770,600	1.30 %	4.95 %
Industrial	0	0.07 %	0.00 %
Commercial	39,626,400	16.29 %	28.96 %
Institutional	17,718,200	4.52 %	12.95 %
Agricultural	1,419,000	0.00 %	1.04 %



Н	. Syste	em Data	Comment	Section	
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Section III: Wastewater System Data

A. Wastewater System Data

1. Design capacity of wastewater treatment plant(s) in gallons per day:

1,000,000

2. List of active wastewater connections by major water use category.

Water Use Category	Metered	Unmetered	Total Connections	Percent of Total Connections
Municipal	0	1,156	1,156	79.18 %
Industrial	0	0	0	0.00 %
Commercial	0	238	238	16.30 %
Institutional	0	66	66	4.52 %
Agricultural	0	0	0	0.00 %
Total	0	1,460	1,460	100.00 %

3. Percentage of water serviced by the wastewater system:

100.00 %



4. Number of gallons of wastewater that was treated by the utility for the previous five years.

	Total Gallons of Treated Water						
Month	2023	2022	2021	2020	2019		
January	4,995,000	6,374,700	5,146,200	5,389,800	8,313,600		
February	6,031,100	5,829,700	5,150,200	5,540,000	7,194,900		
March	8,648,900	6,166,900	5,827,800	7,158,000	10,848,600		
April	5,944,100	6,361,100	6,171,600	6,390,900	8,959,500		
Мау	7,798,200	6,202,000	9,789,700	6,902,300	13,189,500		
June	7,586,300	5,850,500	11,688,600	6,366,900	9,982,000		
July	6,823,000	6,022,900	8,470,900	5,898,200	8,320,300		
August	7,075,300	6,491,600	7,805,100	5,843,100	7,332,100		
September	6,861,900	6,513,900	6,545,600	6,453,100	6,667,100		
October	8,336,600	6,514,400	6,668,200	6,388,000	8,009,700		
November	7,055,300	5,919,200	6,182,500	5,186,000	7,313,400		
December	7,286,300	6,176,600	5,763,700	3,869,600	5,038,700		
Total	84,442,000	74,423,500	85,210,100	71,385,900	101,169,400		

^{5.} Could treated wastewater be substituted for potable water?

Yes	No

B. Reuse Data

1. Data by type of recycling and reuse activities implemented during the current reporting period.

Type of Reuse	Total Annual Volume (in gallons)
On-site Irrigation	
Plant wash down	
Chlorination/de-chlorination	3,600,000
Industrial	
Landscape irrigation (park,golf courses)	38,508,500
Agricultural	
Discharge to surface water	
Evaporation Pond	
Other	
Total	42,108,500



	C.	Wastewater	S	ystem	Data	Commen
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Additional comments and files to support or explain wastewater system data listed below.

Appendix C

Water Conservation Goals for Retail Water Supplier



WATER CONSERVATION GOALS FOR RETAIL WATER SUPPLIER

CONTACT INFORMATION

Name of Utility: CITY OF GLEN ROSE										
Public Water Supply Identification Number (PWS ID): TX2130001										
Certificate of	Certificate of Convenience and Necessity (CCN) Number:									
Surface Water Right ID Number:										
Wastewater	r ID Numbe	er:								
Contact:	First Nam	e: ,	Jim			Last	Name:	Holder		
	Title:									_
Address:	PO Box 1	949			Cit	ty:	Glen R	ose	State:	TX
Zip Code:	Zip Code: 76043 Zip+4: Email: jim.holder@glenrosetexas.org									
Telephone Number: 2548972272 Date:										
Is this person the designated Conservation Coordinator? Yes No										
Regional Water Planning Group: G										
Groundwater Conservation District:										
Our records indicate that you:										
Received financial assistance of \$500,000 or more from TWDB										
Have 3,300 or more retail connections										
Have a surface water right with TCEQ										

	Historic 5 Year Average	Baseline	5-Year Goal for Year 2029	10-Year Goal for Year 2034
Water Loss (GPCD)	159	159	157	156
Residential GPCD	78	78	77	76
Water Loss (GPCD)	18	18	17	16
Water Loss Percentage	11.00%	11.00%	11.00%	10.00%

- Total GPCD = (Total Gallons in System ÷ Permanent Population) ÷ 365
 Residential GPCD = (Gallons Used for Residential Use ÷ Residential Population) ÷ 365
 Water Loss GPCD = (Total Water Loss ÷ Permanent Population) ÷ 365
 Water Loss Percentage = (Total Water Loss ÷ Total Gallons in System) x 100; or (Water Loss GPCD ÷ Total GPCD) x 100

Appendix D

Resolution Adopting the Water Conservation and Drought Contingency Plan

RESOLUTION FOR ADOPTION OF THE AMMENDED CITY OF GLEN ROSE WATER CONSERVATION AND DROUGHT CONTINGENCY PLAN RESOLUTION NO.

A RESOLUTION OF THE CITY COUNCIL ADOPTING A WATER CONSERVATION AND DROUGHT CONTINGENCY PLAN FOR THE CITY OF GLEN ROSE.

WHEREAS, the members of the Glen Rose City Council recognize that the amount of water available to the City of Glen Rose and its water utility customers is limited and subject to depletion during periods of extended drought; and

WHEREAS, the members of the Glen Rose City Council recognize 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 of Glen Rose, the Glen Rose 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 GLEN ROSE:

- SECTION 1. That 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 Glen Rose.
- SECTION 2. That the Mayor is hereby directed to implement, administer, and enforce the Water Conservation and Drought Contingency Plan.
- SECTION 3. That this resolution shall take effect immediately upon its passage.

DULY PASSED BY THE CITY COOUNCIL OF TI day of, 2024.	HE CITY OF GLEN ROSE, ON THISth
ATTESTED TO:	Mayor
City Secretary	

Insert Future – Resolution Adopting the Water Conservation And Drought Contingency Plan

Appendix E

City of Glen Rose Water Rate Structure





Search

UTILITY BILLING

Utility Rates

Residential Water Rates

Increment	Monthly Charge
Base fee	\$16.00
0-10,000 gallons	\$5.40 per 1,000 gallons
10,001 - 50,000 gallons	\$6.14 per 1,000 gallons
50,001 - 100,000 gallons	\$7.00 per 1,000 gallons
100,000 - 1,000,000 gallons	\$8.05 per 1,000 gallons

Commercial Water Rates

Increment	Monthly Charge
Base fee	\$21.57
0-10,000 gallons	\$5.83 per 1,000 gallons
10,001 - 50,000 gallons	\$6.20 per 1,000 gallons
50,001 - 100,000 gallons	\$7.00 per 1,000 gallons
100,000 - 1,000,000 gallons	\$8.05 per 1,000 gallons

Bulk Water Rate - \$8.00 per 1,000 gallons of water.

Utility Rates - Glen Rose Code of Ordinances



Contact Information

Phone Number

(254) 897-2272 ext. 100

Fax Number

Appendix F

Transmittal to Regional Water Planning Group

April 30, 2024

Pamela Hannemann Brazos River Authority P.O. Box 7555, Waco, TX 76714

Re: Updated Water Conservation and Drought Contingency Plan for the City of Glen Rose

PWS 2130001

Dear Ms. Hannemann,

Enclosed for your use please find copies of the recently updated Water Conservation and Drought Contingency Plans for the City of Glen Rose (City). The plans contain required elements as described in 30 Texas Administrative Code Chapter 288. The plans are being submitted to the Region G Water Planning Group, the Texas Water Development Board and the Texas Commission on Environmental Quality. If you have any questions you may reach me at (682) 498-6000. Sincerely

Enprotec/Hibbs & Todd, Inc.

Chris Hay, P.E.

Encl:

cc: City of Glen Rose (3 copies)

Texas Water Development Board; P.O. Box 13231; Austin, TX 78711-3231

Texas Commission on Environmental Quality, Water Availability Division, Resource Protection Team,

MC-160, P.O. Box 13087, Austin, Texas, 78711-3087