

SOMERVELL COUNTY WATER DISTRICT



Water Conservation, Drought Contingency and Water Emergency Response Plan

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Somervell County Water District

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1.0 INTRODUCTION AND OBJECTIVES

Water supply has always been a key issue in the development of Texas. In recent years, growing population and economic development have led to increasing demands for water supplies. At the same time, easily available supplies are largely in use. Development of additional supplies to meet higher demands will be expensive and challenging. It is therefore important that Texans make efficient use of existing supplies. This will delay the need for new supplies, minimize the associated environmental impacts, and delay expenditures for additional water supply facilities.

Recognizing the need for efficient use of existing water supplies, the Texas Commission on Environmental Quality (TCEQ) and the Texas Water Development Board (TWDB) have developed rules governing the development of water conservation and drought contingency plans for public water suppliers. The Somervell County Water District (SCWD) has developed this *Water Conservation, Drought Contingency and Water Emergency Response Plan* following these rules. This plan replaces the District's *Water Conservation, Drought Contingency and Water Emergency Response Plan* dated May 2014.

The objectives of the water conservation plan are as follows:

- To reduce water consumption from the levels that would prevail without conservation efforts.
- To reduce the loss and waste of water.
- To improve efficiency in the use of water.
- To extend the life of current water supplies by reducing the rate of growth in demand.

The objectives of the Drought Contingency and Water Emergency Response Plan are discussed in Section 11.

2.0 STATE AGENCY REQUIREMENTS FOR WATER CONSERVATION PLANS

The Texas Commission on Environmental Quality rules governing development of water conservation plans for public water suppliers are contained in Title 30, Part 1, Chapter 288, Subchapter A, Rule 288.2 of the Texas Administrative Code. For the purpose of these rules, a water conservation plan is defined as “A strategy or combination of strategies for reducing the volume of water withdrawn from a water supply source, for reducing the loss or waste of water, for maintaining or improving the efficiency in the use of water, for increasing the recycling and reuse of water, and for preventing the pollution of water.”

The TWDB rules governing development of water conservation plans for public water suppliers are contained in Title 31, Part 10, Chapter 363, Subchapter A, Rule 363.15 of the Texas Administrative Code.

This plan addresses the requirements in the TCEQ and TWDB rules.

3.0 WATER UTILITY PROFILE AND DESCRIPTION OF SERVICE AREA

The Somervell County Water District was created by the 69th Texas Legislature in 1985 as a conservation and reclamation district. The District's service area includes all of Somervell County, which is located about 50 miles southwest of the Dallas-Fort Worth Metroplex. Until recently, the municipal water needs of the County are being met by groundwater. However, the groundwater level has been rapidly declining in recent years. The District has developed a surface water supply system for Somervell County.

The District has completed facilities for raw water supply and recreational use and water treatment and transmission facilities. An 8-foot high channel dam on the Paluxy River within the City of Glen Rose provides head for diversions from the Paluxy River. Water diverted from the Paluxy River is pumped to a storage reservoir located on Wheeler Branch approximately 2 miles northwest of Glen Rose. The top of conservation level for Wheeler Branch Reservoir is at 785 feet above mean sea level, and the reservoir has a storage capacity of 4,118 acre-feet. The natural drainage area to this dam is only 1.6 square miles, so the majority of the water stored in the reservoir will be pumped from the Paluxy River. Figure 3.1 shows the District's raw water supply facilities.

The District provides treated water to the City of Glen Rose on a wholesale basis and serves rural Somervell County as a retail supplier. The District also provides commercial supplies to the Comanche Peak Steam Electric Station for potable water. The population of Somervell County was 8,490 in 2010, and the amount of water used for municipal purposes was estimated to be 1,541 acre-feet. This is approximately 162 gallons per person per day (gpcd) (TWDB Water Use Survey). Table 3.1 shows the projected population for the county, and Table 3.2 shows the projected dry-year municipal water use. The projected population growth and water use are based on figures adopted for the 2016 Brazos G Regional Water Plan.

Somervell County Water District's Water Conservation Utility Profile has been completed and submitted via the water loss, use and conservation (LUC) online reporting program.

Figure 3.1 - Somervell County Water District Raw Water Facilities

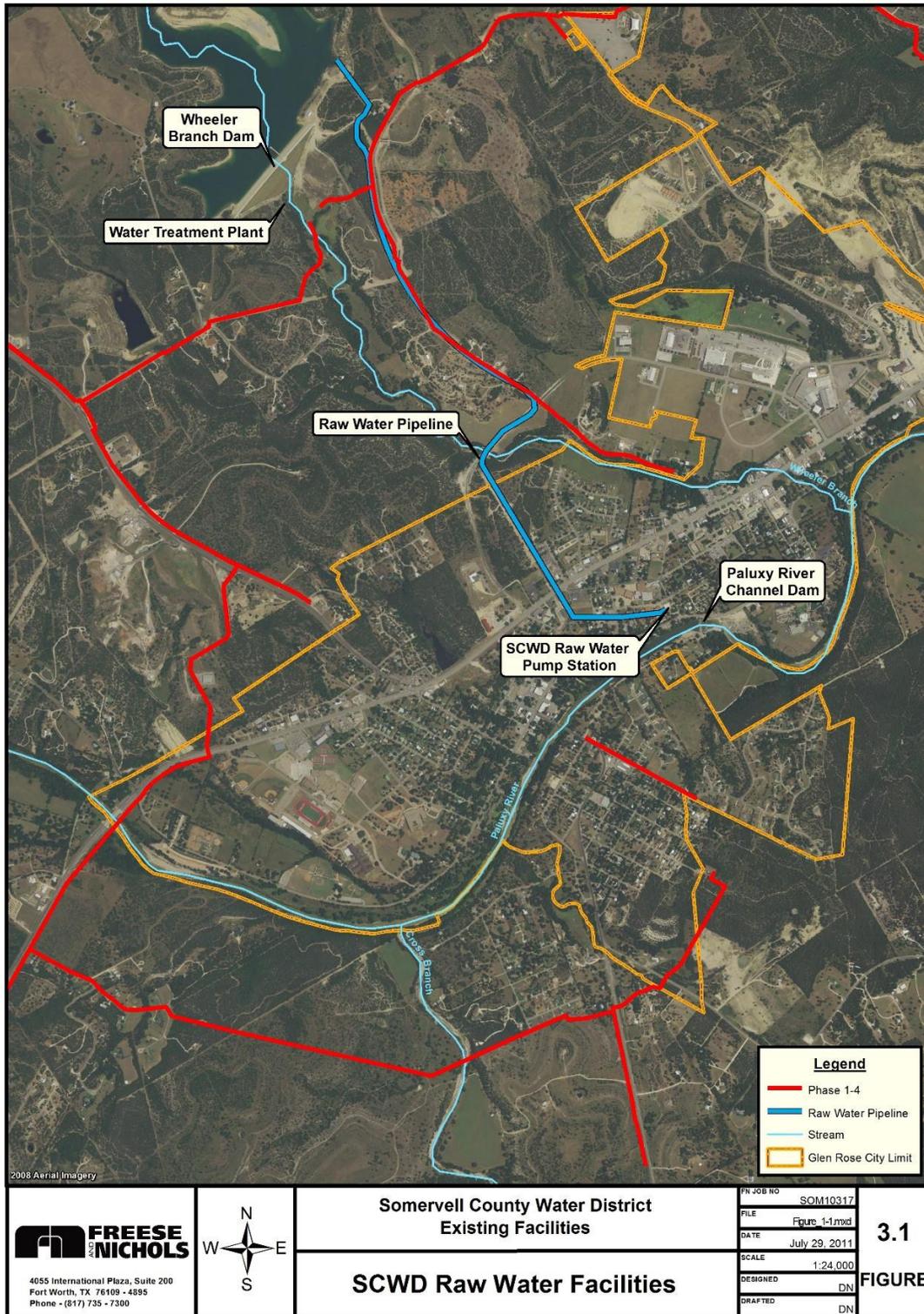


Table 3.1: Projected Population in Glen Rose and Somervell County

	2020	2030	2040	2050	2060	2070
Glen Rose	2,730	3,050	3,281	3,459	3,610	3,731
Rest of Somervell County	6,752	7,544	8,114	8,554	8,929	9,227
Total County Population	9,482	10,594	11,395	12,013	12,539	12,958

Table 3.2: Projected Dry Year Municipal Water Use in Glen Rose and Somervell County (Acre-Feet per Year)

	2020	2030	2040	2050	2060	2070
Glen Rose	583	638	677	709	738	763
Rest of Somervell County	822	892	941	982	1,022	1,056
Total County Demand	1,405	1,530	1,618	1,691	1,760	1,819

The per capita use for Glen Rose has ranged from a high of 196 gallons per capita per day (2011) to a low of 142 gallons per capita per day (2007), averaging 164 gallons per capita over the last five years. Water supply for rural Somervell County is largely from individual household wells. As a result, the historical use in Table 3.2 is estimated by TWDB and cannot be established with certainty. Based on TWDB estimated use and census population, the per capita use in rural Somervell County was 172 gpcd in 2011.

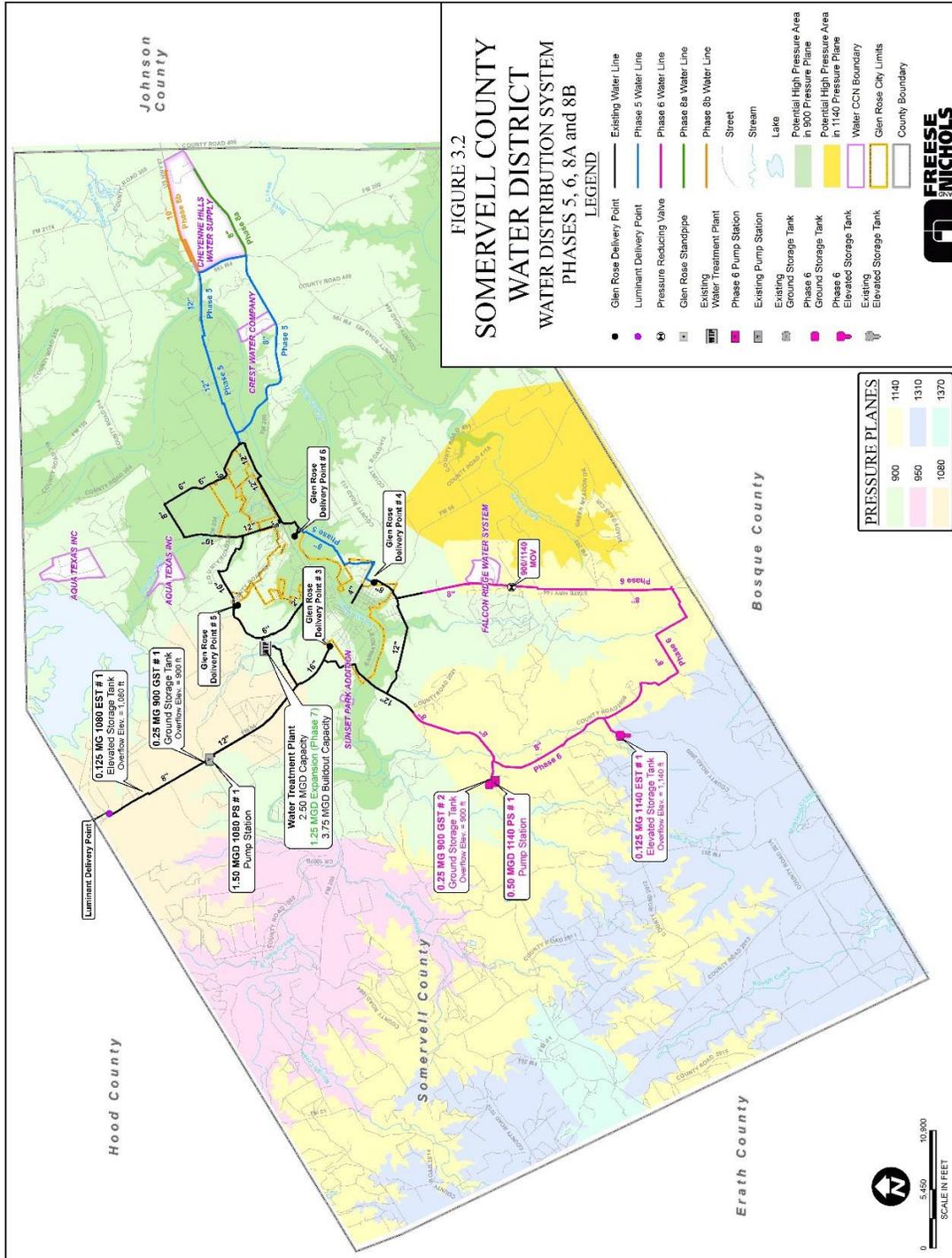
The District is providing water for potable supply to Luminant’s Comanche Peak Steam Electric Station, located in northern Somervell County. The industrial demand for the Comanche Peak Steam Electric Station is 10,750,000 gallons per year. (This does not include power plant cooling water, which is not provided by the District.) The water supplied by the District is used for potable supply at the power plant.

Figure 3.2 shows the water treatment and transmission system as it is currently designed. The District’s system will be developed over time, and it is likely that the final design may differ from the current concept shown in Figure 3.2.

The City of Glen Rose owns and operates the only wastewater treatment facility in the County. Over the past several years, the City of Glen Rose’s wastewater treatment plant has consistently discharged an average of 0.30 mgd. Since the remainder of the County is served by individual septic systems, there is no return flow in the rural portions of the County.

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Figure 3.2 – Somervell County Water District Water Distribution System, Phases 5-8



4.0 SPECIFICATION OF WATER CONSERVATION GOALS

TCEQ and TWDB rules require the adoption of specific water conservation goals for a water conservation plan. These must include 5-year and 10-year goals for total and residential per capita use. The goals for this water conservation plan include the following:

- Maintain the per capita municipal water use below the specified amount in gallons per capita per day in a dry year, as shown in the completed Table 4.1.
- Once the treated water transmission system is fully developed, maintain the level of water loss in the system below 15 percent annually, as discussed in Section 5.4. (The Somervell County Water System is still under expansion and will always be a rural system with relatively long distances between customers. This makes it challenging to maintain low water loss.)
- Implement and maintain a program of universal metering and meter replacement and repair, as discussed in Section 5.2.
- Raise public awareness of water conservation and encourage responsible public behavior by a public education and information program, as discussed in Section 6.
- Prior SCWD Conservation Plans were based on projections. This is the first plan adopted that is based on actual usage of the new system.

Table 4.1: Five-Year and Ten-Year Goals

Description	Current 5-Year Average	Highest Recent Year (2014-2018)	5-Year Goal	10-Year Goal
Glen Rose Total GPCD	136	154	160	158
Glen Rose Residential GPCD	57	66	78	76
Rural Somervell County Total GPCD	124	125	138	136
Rural Somervell County Residential GPCD	55	56	78	76
SCWD Water Loss GPCD	37	50	38	36
SCWD Water Loss %	30	40	31	29

*all numbers are based on TWDB water conservation reports

*Averages are based on number of years available in TWDB water conservation reports

5.0 METERING, WATER USE RECORDS, CONTROL OF UNACCOUNTED WATER, AND LEAK DETECTION AND REPAIR

One of the key elements of water conservation is tracking water use and controlling losses through illegal diversions and leaks. It is important to carefully meter water use, detect and repair leaks in the distribution system and provide regular monitoring of unaccounted water.

5.1 ACCURATE METERING OF RAW WATER PUMPING

Raw water pumping from Wheeler Branch Lake by Somervell County Water District (SCWD) will be metered by the District using meters with accuracy of \pm five percent. These meters will be calibrated annually by SCWD to maintain the required accuracy.

5.2 METERING OF CUSTOMER AND PUBLIC USES AND METER TESTING, REPAIR, AND REPLACEMENT

Water delivered to all wholesale and retail customers, including public and governmental users, will be metered. SCWD will meter deliveries to all of its retail and wholesale customers. Any wholesale customers that do not currently meter all of their water deliveries will be required to implement a program to meter all water deliveries within five years of beginning deliveries from SCWD.

SCWD will replace all retail customer meters on a minimum of a 15-year cycle. Wholesale customers that do not currently have a meter testing and replacement program should implement such a program within the five years of beginning deliveries from SCWD.

5.3 RECORD MANAGEMENT SYSTEM

As required by TAC Title 30, Part 1, Chapter 288, Subchapter A, Rule 288.2(a)(2)(B), the SCWD record management system allows for the separation of water sales into residential, commercial, public/institutional, and industrial categories.

5.4 DETERMINATION AND CONTROL OF WATER LOSS

Flow meters will be used to measure and account for all water diverted from the District's water supply. All water sales will be metered in order to record the amount of water used. The District recognizes the importance of metering and of keeping meters checked and maintained for accuracy. This will require the installation and maintenance of the proper metering equipment by the District and its wholesale customers. Water meters will be required to measure in accordance with American Water Works

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Association (AWWA) Standards with an accuracy tolerance not to exceed five percent. Meters are to be calibrated by their owner with the other party having the right to be present during the calibration.

The District will meter all water used, whether for individual customer use, wholesale customer use, or for use by the District. The District will periodically test these meters for accuracy and will have a meter replacement program for meters as they exceed their useful age as recommended by AWWA.

The District will periodically perform water balances to determine if there are any excessive losses that would indicate leaks in the system or unaccounted-for uses which might indicate water theft. The District will seek to minimize water losses through these water balances, through periodic visual inspections along the transmission and distribution lines, and by utilizing, if necessary, the conservation services of the Texas Water Development Board (TWDB) and the Texas Rural Water Association (TRWA). The District will provide technical assistance to any water customers through these same agencies. The TRWA provides water audits and leak detection services to rural users.

5.5 LEAK DETECTION AND REPAIR

SCWD crews and personnel will look for and report evidence of leaks in the water distribution system. Areas of the water distribution system in which numerous leaks and line breaks occur will be targeted for replacement as funds are available. SCWD will utilize leak detection meter reading software.

5.6 WATER CONSERVATION IMPLEMENTATION REPORT

The TCEQ requires an annual water conservation implementation report, which is due by May 1 of every year, starting in the year 2010. This report is to list the various water conservation strategies that have been implemented, including the date the strategy was implemented. The report must also include the five-year and ten-year per capita water use goals from the previous water conservation plan and indicate whether or not these goals have been met. The amount of water saved by conservation measures is also requested. TWDB requires an annual report on progress on implementing each of the minimum requirements in the water conservation plan and the status of customers' water conservation plan that are required by contract. SCWD will provide these annual reports as required.

5.7 SCHEDULE FOR WATER CONSERVATION PLAN IMPLEMENTATION

Continuing public education efforts began in 2008. These efforts include:

- Information included in bill stuffers, handouts, school tours and through the districts website (<http://www.scwd.com/>)
- Conservation-oriented rates for retail customers.
- Wholesale contracts and agreements with retail customers allow for enforcement of the Water Conservation, Drought Contingency, and Water Emergency Plan.
- Metering, record management, unaccounted water control, and leak detection and repair.

6.0 CONTINUING PUBLIC EDUCATION AND INFORMATION PROGRAM

The Somervell County Water District's continuing public education and information campaign on water conservation will include the following elements:

- Provide water conservation education materials produced by the TWDB and TCEQ to the public at the District office.
- Provide water conservation education messages through the District's website (<http://www.scwd.com/>).
- Insert water conservation information with water bills. Inserts will include material obtained from the TWDB, the TCEQ, and other sources.
- Encourage local media coverage of water conservation issues and the importance of water conservation.
- Notify local organizations, schools, and civic groups that District staff are available to make presentations on the importance of water conservation and ways to save water.
- Promote the Texas Smartscape web site (www.txsmartscape.com) and provide water conservation brochures and other water conservation materials available to the public at the District offices and through the District's website.
- Make information on water conservation available on its website and include links to the Texas Smartscape website and to information on water conservation on the TWDB and TCEQ web sites and other resources.

7.0 WATER RATE STRUCTURE

The District has an increasing block rate water structure for residential and commercial customers that is intended to encourage water conservation and discourage excessive use and waste of water. The water rate structure is as follows:

- Monthly minimum charge - \$15 for residential meters (5/8", 3/4"), \$30 for a (1") residential meter, \$37.50-\$300 for commercial and larger meters (1"-8").
- Residential Volume Charge
 - 0-15,000 gallons - \$2.00 per thousand
 - 15,000 gallons to 25,000 gallons - \$2.50 per thousand
 - 25,000 gallons to 100,000 gallons - \$3.00 per thousand
 - 100,000 gallons or more - \$3.25 per thousand
- Commercial\Industrial Volume Charge
 - 0-20,000 gallons - \$2.25 per thousand
 - 20,000 gallons to 50,000 gallons - \$2.50 per thousand
 - 50,000 gallons to 100,000 gallons - \$3.00 per thousand
 - 100,000 gallons or more - \$3.25 per thousand

8.0 OTHER WATER CONSERVATION MEASURES

8.1 RESERVOIR SYSTEM OPERATION

The Somervell County Water District stores water in Wheeler Branch Reservoir, with the channel dam on the Paluxy River providing head to allow pumping from the river during high flows. As the District develops additional sources of supply in the future, it will consider and implement reservoir system operation to optimize water supplies.

8.2 ORDINANCES, PLUMBING CODES, OR RULES ON WATER-CONSERVING FIXTURES

The state has required water-conserving fixtures in new construction and renovations since 1992. The state standards call for flows of no more than 2.5 gallons per minute (gpm) for faucets, 2.5 gpm for showerheads, and 1.6 gallons per flush for toilets. Similar standards are now required nationally under federal law. These state and federal standards assure that all new construction and renovations will use water-conserving fixtures. As of January 2014, Texas law mandates that all toilets sold, offered for sale or distributed must be a dual flush toilet that may not exceed 1.28 gallons per flush on average or for one full flush⁽⁹⁾.

8.3 REQUIREMENT FOR WATER CONSERVATION PLANS BY WHOLESALE CUSTOMERS

Every contract for the wholesale sale of water that the District enters into, renews, or extends after the adoption of this water conservation plan will include a requirement that the wholesale customer and any wholesale customers of that wholesale customer develop and implement a water conservation plan meeting the requirements of Title 30, Part 1, Chapter 288, Subchapter A, Rule 288.2 of the Texas Administrative Code ⁽¹⁾ and Title 31, Part 10, Chapter 363, Subchapter A, Rule 363.15 of the Texas Administrative Code ⁽⁴⁾. The requirement will also extend to each successive wholesale customer in the resale of the water.

8.4 COORDINATION WITH REGIONAL WATER PLANNING GROUP

SCWD will send this Water Conservation, Drought Contingency and Water Emergency Response Plan to the chair of the Brazos regional water planning group.

9.0 IMPLEMENTATION AND ENFORCEMENT OF THE WATER CONSERVATION PLAN

Appendix A contains a copy of a resolution by the Somervell County Water District's board adopting the model water conservation plan. The resolution designates the District's General Manager as the responsible official to implement and enforce the water conservation plan.

10.0 REVIEW AND UPDATE OF THE WATER CONSERVATION PLAN

TCEQ requires that the water conservation plans be updated every five years. The plan will be updated as required and as appropriate based on new or updated information.

11.0 DROUGHT CONTINGENCY AND WATER EMERGENCY RESPONSE PLAN

11.1 INTRODUCTION

The purpose of this drought contingency and water emergency response plan is as follows:

- To conserve the available water supply in times of drought and emergency
- To maintain supplies for domestic water use, sanitation, and fire protection
- To protect and preserve public health, welfare, and safety
- To minimize the adverse impacts of water supply shortages
- To minimize the adverse impacts of emergency water supply conditions.

A drought is defined as an extended period of time when an area receives insufficient amounts of rainfall to replenish the water supply, causing water supply sources, in this case a reservoir, to be depleted. In the absence of drought response measures, water demands tend to increase during a drought due to the need for additional outdoor irrigation. The severity of a drought depends on the degree of depletion of supplies and on the relationship of demand to available supplies.

11.2 STATE REQUIREMENTS FOR DROUGHT CONTINGENCY PLANS

This Drought Contingency and Water Emergency Response Plan is consistent with Texas Commission on Environmental Quality guidelines and requirements for the development of drought contingency plans for public water suppliers, contained in Title 30, Part 1, Chapter 288, Subchapter B, Rule 288.20 of the Texas Administrative Code.⁽²⁾ This rule is contained in Appendix B. The plan is also consistent with the Texas Water Development Board requirements in Title 31, Part 10, Chapter 363, Subchapter A, Rule 363.15 of the Texas Administrative Code.

11.3 PROVISIONS TO INFORM THE PUBLIC AND OPPORTUNITY FOR PUBLIC INPUT

The Somervell County Water District provided opportunity for public input in the development of this Drought Contingency and Water Emergency Response Plan by the following means:

- Providing written notice of the proposed plan and the opportunity to comment on the plan in a posted notice and on the District's web site.

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- Making the draft plan available on the District's web site.
- Providing the draft plan to anyone requesting a copy.
- Holding a Board meeting at the District's offices on May 13, 2019.

11.4 PROVISIONS FOR CONTINUING PUBLIC EDUCATION AND INFORMATION

The District will inform and educate the public about the Drought Contingency and Water Emergency Response Plan by the following means:

- Preparing a bulletin describing the plan and making it available at the District offices.
- Making the plan available to the public through the District's web site.
- Including information about the Drought Contingency and Water Emergency Response Plan on the District's web site.
- Including periodic comments about the plan in customer bills.
- Notifying local organizations, schools, and civic groups that staff are available to make presentations on the Drought Contingency and Water Emergency Response Plan.

At any time that the Drought Contingency and Water Emergency Response Plan is activated or the drought stage or water emergency response stage changes, the District will notify local media of the issues, the drought response stage or water emergency response stage (if applicable), and the specific actions required of the public. The information will also be publicized on the District's web site. Billing inserts will also be used as appropriate.

11.5 INITIATION AND TERMINATION OF DROUGHT OR WATER EMERGENCY RESPONSE STAGES

Initiation of a Drought or Water Emergency Response Stage

The District's General Manager or official designee may order the implementation of a drought or water emergency response stage when one or more of the trigger conditions for that stage is met. The following actions will be taken when a drought or water emergency response stage is initiated:

- The public will be notified through local media and the District's web site.

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- Wholesale customers will be notified by e-mail with a follow-up letter or fax that provides details of the reasons for initiation of the drought/water emergency response stage.
- If any mandatory provisions of the Drought Contingency and Water Emergency Response Plan are activated, the District will notify the Executive Director of the TCEQ within 5 business days.

The General Manager may decide not to order the implementation of a drought response stage or water emergency even though one or more of the trigger criteria for the stage are met. Factors which could influence such a decision include, but are not limited to, the time of the year, weather conditions, the anticipation of replenished water supplies, or the anticipation that additional facilities will become available to meet needs. The reason for this decision should be documented.

Termination of a Drought/Water Emergency Response Stage

The General Manager may order the termination of a drought or water emergency response stage when the conditions for termination are met or at their discretion. The following actions will be taken when a drought or emergency response stage is terminated:

- The public will be notified through local media and the District's web site.
- Wholesale customers will be notified by e-mail with a follow-up letter or fax.
- If any mandatory provisions of the drought contingency and water emergency response plan that have been activated are terminated, the District will notify the Executive Director of the TCEQ within 5 business days.

The General Manager may decide not to order the termination of a drought or water emergency response stage even though the conditions for termination of the stage are met. Factors which could influence such a decision include, but are not limited to, the time of the year, weather conditions, or the anticipation of potential changed conditions that warrant the continuation of the drought stage. The reason for this decision should be documented.

11.6 DROUGHT CONTINGENCY AND WATER EMERGENCY RESPONSE STAGES AND MEASURES

The General Manager shall monitor water supply conditions 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 mail and/or telephone. The news media will also be informed.

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The triggering criteria described below are based on water contracts and demands placed on the District's water supply system and on drought of record determinations for the Wheeler Branch Reservoir.

Stage 1 - Mild Water Shortage Conditions

Requirement for initiation - The District may recognize that mild water shortage conditions exist when one or more of the following conditions is met:

- The content of Wheeler Branch Reservoir is equal to or less than 75 percent of total capacity.
- The total daily water demand of all customers combined equals or exceeds 85 percent of the capacity of the water treatment plant for 5 consecutive days or 90 percent on a single day.
- Water demand is projected to approach the limit of the permitted supply.
- Water demand for all or part of the District's delivery system approaches delivery capacity because delivery capacity is inadequate.
- The District's supply source becomes contaminated.
- A system outage due to failure of major water system components makes mild water shortage conditions appropriate.
- The General Manager or official designee finds that initiation of mild water shortage conditions is appropriate.

Requirement for termination - Termination of the mild water shortage condition and corresponding measures will take place when conditions that initiated the mild water shortage condition have ceased to exist for a period of thirty (30) consecutive days.

Goals and measures for Stage 1 – The goals of Stage 1, mild water shortage conditions, are to inform the District's customers and the general public of the situation, encourage the wise use of water and reduce water use by at least 2 percent from levels that would otherwise occur. The General Manager may order the implementation of any or all of the actions listed below, as deemed necessary:

- Allow wholesale customers the option of utilizing backup groundwater wells.
- Initiate 100% usage of SCWD backup groundwater wells.
- Request voluntary reductions in water use by the public and by wholesale customers.
- Inform its wholesale customers of the drought condition by mail and telephone.

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- Notify wholesale customers of actions being taken and request implementation of similar procedures.
- Increase public education efforts on ways to reduce water use.
- Review the problems that caused the initiation of Stage 1.
- Initiate engineering studies to evaluate alternatives should conditions worsen.
- Intensify efforts on leak detection and repair.
- Notify major water users and work with them to achieve voluntary water use reductions.
- Inform its retail customers by local news media, its web site, inserts in water bills, and other methods.
- Discuss the drought condition and its impact on the water supply situation with wholesale customers.
- Discuss the drought condition and its impact on the water supply situation in the news media.
- Advise its wholesale customers of the reservoir elevations weekly.

Stage 2 - Moderate Water Shortage Conditions

Requirement for initiation - The District may recognize that moderate water shortage conditions exist when one or more of the following conditions is met:

- The content of Wheeler Branch Reservoir is equal to or less than 66 percent of total capacity.
- The total daily water demand of all customers combined equals or exceeds 90 percent of the capacity of the water treatment plant for 5 consecutive days or 95 percent on a single day.
- Water demand is projected to approach the limit of the permitted supply.
- Water demand for all or part of the District's delivery system approaches delivery capacity because delivery capacity is inadequate.
- The District's supply source becomes contaminated.
- A system outage due to failure of major water system components makes moderate water shortage conditions appropriate.
- The General Manager or official designee finds that initiation of moderate water shortage conditions is appropriate.

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Requirement for termination - Termination of the moderate water shortage condition and corresponding measures will take place when conditions that initiated the moderate water shortage condition have ceased to exist for a period of thirty (30) consecutive days.

Goals and measures for Stage 2 - The goals of Stage 2, moderate water shortage conditions, are to inform the District's customers and the general public of the situation, encourage the wise use of water, and reduce water use by at least 5 percent from levels that would otherwise occur. If circumstances warrant, the General Manager or official designee can set a goal for greater water use reduction. The General Manager or official designee may order the implementation of any or all of the actions listed below, as deemed necessary. Measures described as "requires notification to TCEQ" impose mandatory requirements on customers. The supplier must notify TCEQ and TWDB within five business days if these measures are implemented:

- Continue or initiate any measures listed under Stage 1.
- Require wholesale customers to utilize any backup groundwater wells available.
- Inform its wholesale customers by mail and by telephone that the drought has reached the moderate trigger level. This information will be given at weekly intervals as long as the moderate drought condition continues.
- Inform local new media that the drought has reached the moderate trigger level. This information will be given at weekly intervals as long as the moderate drought condition continues.
- Encourage the public to wait until the current drought or emergency situation has passed before establishing new landscaping.
- Further accelerate public education efforts on ways to reduce water use.
- **Requires Notification to TCEQ** – During the moderate water shortage conditions, the District may curtail water delivered to its customers on a pro-rata basis, if necessary.
- The District may request its municipal customers to implement voluntary lawn irrigation restrictions through the media. The District itself will use the media to inform the general public of the need to curtail outdoor water use.
- The District may request its municipal customers to prohibit such other non-essential outdoor uses as car washing, filling of swimming pools, etc.
- The District may request its municipal customers to halt non-essential city government water use. (Examples include street cleaning, vehicle washing, operation of ornamental fountains, etc.

Stage 3 - Severe Water Shortage Conditions

Requirements for initiation - The District may recognize that severe water shortage conditions exist when one or more of the following conditions is met:

- The content of Wheeler Branch Reservoir is equal to or less than 50 percent of total capacity.
- The total daily water demand of all customers combined equals or exceeds 95 percent of the capacity of the water treatment plant for 5 consecutive days or 100 percent on a single day.
- Water demand is projected to approach or exceed the limit of the permitted supply.
- The District's water demand exceeds the amount that can be delivered to customers.
- The District's water demand for all or part of the delivery system seriously exceeds delivery capacity because the delivery capacity is inadequate.
- The District's supply source becomes contaminated.
- A system outage due to failure of major water system components makes severe water shortage conditions appropriate.
- The General Manager or official designee finds that initiation of severe water shortage conditions is appropriate.
- The Governor of Texas declares the county to be in a State of Emergency concerning water supply.

Requirement for termination - Termination of the severe water shortage condition and corresponding measures will take place when reservoir capacity or demand conditions that initiated the severe water shortage condition have ceased to exist for a period of thirty (30) consecutive days, or when the State of Emergency declared by the Governor has been lifted.

Goals and measures for Stage 3 - The goals of Stage 3, severe water shortage conditions, are to inform the District's customers and the general public of the situation, encourage the wise use of water, preserve water for critical uses, and reduce water use by at least 10 percent from levels that would otherwise occur. If circumstances warrant, the General Manager or official designee can set a goal for greater water use reduction. The General Manager or official designee may order the implementation of any or all of the actions listed below, as deemed necessary. Measures described as "requires notification to TCEQ" impose mandatory requirements on customers. The District must notify TCEQ and TWDB within five business days if these measures are implemented:

Somervell County Water District

- Continue or initiate any measures listed under Stages 1 and 2.
- Inform its wholesale customers by mail and by telephone that the drought has reached the severe trigger level. This information will be given at weekly intervals as long as the moderate drought condition continues.
- Notify wholesale customers of actions being taken and require them to implement similar procedures.
- Inform local news media that the drought has reached the severe trigger level. This information will be given at weekly intervals as long as the severe drought condition continues.
- Encourage the public to wait until the current drought or emergency situation has passed before establishing new landscaping.
- Further accelerate public education efforts on ways to reduce water use.
- **Requires Notification to TCEQ** – During the severe water shortage conditions, the District may curtail water delivered to its customers on a pro-rata basis, if necessary.
- Implement viable alternative water supply strategies.
- **Requires Notification to TCEQ** – Initiate mandatory water use restrictions as follows:
 - Prohibit hosing of paved areas, buildings, or windows. (Pressure washing of impervious surfaces is allowed.)
 - Prohibit operation of all ornamental fountains or other amenity impoundments to the extent they use treated water.
 - Prohibit washing or rinsing of vehicles by hose except with a hose end cutoff nozzle.
 - Prohibit using water in such a manner as to allow runoff or other waste.
- **Requires Notification to TCEQ** – Prohibit commercial and residential landscape watering, except that foundations and trees may be watered for 2 hours on any day with a hand-held hose, drip irrigation or a soaker hose.
- **Requires Notification to TCEQ** – Limit landscape watering with sprinklers or irrigation systems at each service address to once every seven days. Exceptions are as follows:
 - Foundations, new landscaping, new plantings (first year) of shrubs, and trees may be watered for up to 2 hours on any day by a hand-held hose, a soaker hose, or a dedicated zone using a drip irrigation system.
 - Golf courses may water greens and tee boxes without restrictions.

Somervell County Water District

- Public athletic fields used for competition may be watered twice per week.
- Locations using other sources of water supply for irrigation may irrigate without restrictions.
- **Requires Notification to TCEQ** - Initiate a rate surcharge for all water use over a certain level.
- **Requires Notification to TCEQ** – Prohibit watering of golf courses using treated water, except as needed to keep greens and tee boxes alive.

Stage 4 - Emergency Water Shortage Conditions

The failure of a major component of any of the pump stations or the treatment plant or any significant impairment to the water quality of Wheeler Branch Reservoir may have a significant impact on the supply of water to the District's customers. However, the supply restriction will tend to be of short duration in this situation. In the event of an emergency condition, the District will notify its customers of the water supply situation and make such operational changes it finds necessary while the emergency condition exists. Customers will be notified when the situation has been rectified and the system is fully operational.

11.7 PROCEDURES FOR GRANTING VARIANCES TO THE PLAN

The General Manager may grant temporary variances for existing water uses otherwise prohibited under this plan if one or more of the following conditions are met:

- 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.
- 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.
- 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 Somervell County Water District within 5 days after the plan or a particular drought response stage has been invoked. All petitions for variances shall be reviewed by the General Manager and shall include the following:

- Name and address of the petitioner(s).
- Purpose of water use.

Somervell County Water District

- Specific provision(s) of the plan from which the petitioner is requesting relief.
- Detailed statement as to how the specific provision of the plan adversely affects the petitioner or what damage or harm will occur to the petitioner or others if petitioner complies with this Ordinance.
- Description of the relief requested.
- Period of time for which the variance is sought.
- 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 data.
- Other pertinent information.

Variations granted by the Somervell County Water District shall be subject to the following conditions, unless waived or modified by the General Manager:

- Variations granted shall include a timetable for compliance.
- Variations 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.

11.8 PRO RATA WATER ALLOCATION

If the Somervell County Water District curtails water deliveries on a pro rata basis under Stage 2, 3, or 4 of this plan, the District shall proceed in accordance with Texas Water Code Section 11.039. Any wholesale water contracts entered into shall contain a provision that in case of a shortage of water resulting from drought, the water to be distributed shall be allocated in accordance with Texas Water Code 11.039.

11.9 PROCEDURES FOR ENFORCING MANDATORY WATER USE RESTRICTIONS

Mandatory water use restrictions may be imposed in Stage 2, Stage 3 and Stage 4 drought contingency and water emergency response stages. Appendix G contains a copy of the Somervell County Water District Board resolution adopting the *Water Conservation, Drought Contingency, and Water Emergency Plan*.

11.10 COORDINATION WITH THE REGIONAL WATER PLANNING GROUPS

Appendix F includes a copy of a letter sent to the Chair of the Brazos G Regional Water Planning Group with this *Water Conservation, Drought Contingency, and Water Emergency Plan*.

11.11 REVIEW AND UPDATE OF DROUGHT CONTINGENCY AND WATER EMERGENCY RESPONSE PLAN

As required by TCEQ rules, the Somervell County Water District will review the drought contingency and water emergency response plan every five years. The *Water Conservation, Drought Contingency, and Water Emergency Plan* will be updated as appropriate based on new or updated information.

APPENDIX A

**SOMERVELL COUNTY WATER DISTRICT BOARD RESOLUTION
ADOPTING THIS WATER CONSERVATION, DROUGHT
CONTINGENCY, AND WATER EMERGENCY RESPONSE PLAN**

APPENDIX A
SOMERVELL COUNTY WATER DISTRICT

RESOLUTION NO. 19-05
May 13, 2019

The following Resolution was adopted by the Somervell County Water Board on the above date:

BE IT ORDERED AND RESOLVED THAT THE BOARD OF DIRECTORS TO HEREBY ADOPT THE WATER CONSERVATION, DROUGHT CONTINGENCY, AND WATER EMERGENCY MANAGEMENT PLAN FOR THE SOMERVELL COUNTY WATER DISTRICT.

WHEREAS, the Board recognizes that the amount of water available to the Somervell County Water District and to its future wholesale and retail customers is limited and subject to depletion during periods of extended drought;

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

WHEREAS, Section 11.1271 of the Texas Water Code and applicable rules of the Texas Commission on Environmental Quality require that a water right holder of 1,000 acre-feet per year or more for municipal, industrial, and other uses prepare a water conservation plan;

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

WHEREAS, Section 11.039 of the Texas Water Code authorizes water suppliers to distribute available water supplies on a pro rata basis during times of water supply shortage; and

WHEREAS, as authorized under law, and in the best interests of the customers of the Somervell County Water District, the Board 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 BOARD OF DIRECTORS OF THE SOMERVELL COUNTY WATER DISTRICT:

SECTION 1. That the previously adopted June 2014 Revised Water Conservation and Drought Contingency Plans are hereby repealed and that the Water Conservation, Drought Contingency, and Water Emergency Management Plan attached hereto is hereby adopted as the official policy of the Somervell County Water District.

SECTION 2. That the General Manager is hereby directed to implement, administer, and enforce the Water Conservation, Drought Contingency, and Water Emergency Management Plan and to grant variances to the plan as described therein.

SECTION 3. That this resolution shall take effect immediately upon its passage.

Somervell County Water District

DULY PASSED BY THE BOARD OF DIRECTORS OF THE SOMERVELL COUNTY
WATER DISTRICT ON THIS 13TH DAY OF MAY, 2019.

Voting for: _____

Voting against: _____

Abstaining: _____

Absent, not voting: _____

President, Board of Directors

ATTESTED TO:

Secretary, Board of Directors

APPENDIX B
WATER CONSERVATION UTILITY PROFILE

UTILITY PROFILE FOR RETAIL WATER SUPPLIER

APPENDIX B

CONTACT INFORMATION

Name of Utility: Somervell Co WD

Public Water Supply Identification Number (PWS ID): TX2130042

Certificate of Convenience and Necessity (CCN) Number: 12895, 13156

Surface Water Right ID Number: 5744-A

Wastewater ID Number:

Contact: First Name: Kevin Last Name: Taylor

Title: General Manager

Address: P.O. Box 1386 City: Glen Rose State: TX

Zip Code: 76043 Zip+4: 1386 Email: ktaylor@scwd.com

Telephone Number: 2548974141 Date: 4/26/2019

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

A. Population and Service Area Data

1. Current service area size in square miles: 186

UTILITY PROFILE FOR RETAIL WATER SUPPLIER

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
2018	2,031	3,681	0
2017	1,752	3,588	0
2016	1,440	3,471	0
2015	1,350	3,962	0
2014	756	3,456	0

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
2020	2,500	3,800	0
2030	3,750	4,218	0
2040	4,125	4,682	0
2050	4,538	5,197	0
2060	4,991	5,769	0

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

SCWD retail customer base is currently growing at a rate of around 15% per year due to its recent expansions into areas of Somervell County that were previously not served by municipal water. We are projecting this rate for the next couple of years and then lowering our projections to around 5% per year for the 2020-2030 decade until most existing and new customers in rural Somervell County are on municipal water. The remaining three decades from 2030 through 2060 are lowered to a growth rate of around 11% per decade to be in line with growth percentages projected in the Texas State Water Plan for Somervell County.

SCWD wholesale customer base (City of Glen Rose) is projected the grow at a rate of 11% per decade which is in line with the growth percentages projected in the Texas State Water Plan for Somervell County.

All the above projections above are population actually receiving SCWD surface water and do not include County Residents remaining on groundwater wells.

UTILITY PROFILE FOR RETAIL WATER SUPPLIER

B. System Input

System input data for the previous five years.

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
2018	258,730,461	0	163,318,637	95,411,824	129
2017	218,518,036	0	140,019,038	78,498,998	123
2016	203,069,339	0	137,276,553	65,792,786	125
2015	143,571,284	0	84,260,782	59,310,502	120
2014	191,829,086	0	118,509,000	73,320,086	266
Historic Average	203,143,641	0	128,676,802	74,466,839	153

C. Water Supply System

1. Designed daily capacity of system in gallons 2,500,000
2. Storage Capacity
 - 2a. Elevated storage in gallons: 250,000
 - 2b. Ground storage in gallons: 750,000

UTILITY PROFILE FOR RETAIL WATER SUPPLIER

D. Projected Demands

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

Year	Population	Water Demand (gallons)
2020	6,300	296,635,500
2021	6,459	304,122,015
2022	6,625	311,938,125
2023	6,798	320,083,830
2024	6,978	328,559,130
2025	7,165	337,364,025
2026	7,360	346,545,600
2027	7,563	365,103,855
2028	7,776	366,132,960
2029	7,997	376,538,745

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

SCWD retail customer base is currently growing at a rate of around 15% per year due to its recent expansions into areas of Somervell County that were previously not served by municipal water. We are projecting this rate for the next couple of years and then lowering our projections to around 5% per year for the 2020-2030 decade until most existing and new customers in rural Somervell County are on municipal water. The remaining three decades from 2030 through 2060 are lowered to a growth rate of around 11% per decade to be in line with growth percentages projected in the Texas State Water Plan for Somervell County.

SCWD wholesale customer base (City of Glen Rose) is projected to grow at a rate of 11% per decade which is in line with the growth percentages projected in the Texas State Water Plan for Somervell County.

All the above projections above are population actually receiving SCWD surface water and do not include County Residents remaining on private groundwater wells.

UTILITY PROFILE FOR RETAIL WATER SUPPLIER

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
Comanche Peak Nuclear Plant	Commercial	10,142,000	Treated
Tres Rios Campground	Commercial	2,693,000	Treated
Bill Briley	Commercial	1,431,000	Treated
Girl Scout Camp	Commercial	1,201,000	Treated
Fossil Rim Park	Commercial	754,000	Treated

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

Customer	Water Use Category	Annual Water Use	Treated or Raw
City of Glen Rose	Municipal	162,992,000	Treated

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	677	94.42 %
Residential - Multi-Family	0	0.00 %
Industrial	0	0.00 %
Commercial	36	5.02 %
Institutional	4	0.56 %
Agricultural	0	0.00 %
Total	717	100.00 %

UTILITY PROFILE FOR RETAIL WATER SUPPLIER

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

Year	Net Number of New Retail Connections						Total
	Residential - Single Family	Residential - Multi-Family	Industrial	Commercial	Institutional	Agricultural	
2018	677			36	4		717
2017	584			34	4		622
2016	480			22			502
2015	351			16			367
2014	252			10			262

B. Accounting Data

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

Year	Residential - Single Family	Residential - Multi-Family	Industrial	Commercial	Institutional	Agricultural	Total
2018	48,036,000	0	0	20,360,000	719,000	0	69,115,000
2017	35,501,000	0	0	17,444,000	508,000	0	53,453,000
2016	28,657,000	0	0	18,579,000	0	0	47,236,000
2015	21,938,000	0	0	11,812,000	0	0	33,750,000
2014	12,176,000	0	0	8,368,000	0	0	20,544,000

C. Residential Water Use

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

Year	Residential - Single Family	Residential - Multi-Family	Total Residential
2018	65	0	65
2017	56	0	56
2016	55	0	55
2015	45	0	45
2014	44	0	44
Historic Average	53	0	53

UTILITY PROFILE FOR RETAIL WATER SUPPLIER

D. Annual and Seasonal Water Use

1. The previous five years' gallons of treated water provided to RETAIL customers.

Month	Total Gallons of Treated Water				
	2018	2017	2016	2015	2014
January	4,492,000	3,729,000	2,750,003	2,024,000	1,174,000
February	3,719,000	3,184,000	3,211,000	1,839,000	1,195,000
March	3,493,000	3,537,000	2,967,000	1,548,000	1,232,000
April	4,767,000	4,213,000	3,063,000	2,125,000	1,636,000
May	5,465,000	5,488,000	3,076,000	2,130,000	1,370,000
June	9,240,000	5,313,000	3,626,000	2,349,000	1,430,000
July	9,282,000	4,876,000	6,442,000	4,494,000	1,272,000
August	8,748,000	5,842,000	6,887,000	5,045,000	2,283,000
September	6,284,000	5,952,000	4,510,000	3,693,000	2,150,000
October	4,121,000	3,921,000	4,327,000	3,826,000	2,386,000
November	3,770,000	3,610,000	3,391,000	2,677,000	2,433,000
December	4,162,000	3,687,000	3,175,000	2,127,000	1,941,000
Total	67,543,000	53,352,000	47,425,003	33,877,000	20,502,000

UTILITY PROFILE FOR RETAIL WATER SUPPLIER

2. The previous five years' gallons of raw water provided to RETAIL customers.

Month	Total Gallons of Raw Water				
	2018	2017	2016	2015	2014
January	0	0	0	0	0
February	0	0	0	0	0
March	0	0	0	0	0
April	0	0	0	0	0
May	0	0	0	0	0
June	0	0	0	0	0
July	0	0	0	0	0
August	0	0	0	0	0
September	0	0	0	0	0
October	0	0	0	0	0
November	0	0	0	0	0
December	0	0	0	0	0
Total	0	0	0	0	0

3. Summary of seasonal and annual water use.

	Summer RETAIL (Treated + Raw)	Total RETAIL (Treated + Raw)
2018	27,270,000	67,543,000
2017	16,031,000	53,352,000
2016	16,955,000	47,425,003
2015	11,888,000	33,877,000
2014	4,985,000	20,502,000
Average in Gallons	15,425,800.00	44,539,800.60

UTILITY PROFILE FOR RETAIL WATER SUPPLIER

E. Water Loss

Water Loss data for the previous five years.

Year	Total Water Loss in Gallons	Water Loss in GPCD	Water Loss as a Percentage
2018	7,403,317	10	7.76 %
2017	8,207,279	13	10.45 %
2016	5,675,000	11	8.62 %
2015	10,175,839	21	17.16 %
2014	4,000,000	10	8.00 %
Average	7,092,287	13	10.40 %

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)
2018	185,049	296413	1.6018
2017	146,169	174250	1.1921
2016	129,931	184293	1.4184
2015	92,813	129217	1.3922
2014	56,169	54184	0.9647

G. Summary of Historic Water Use

Water Use Category	Historic Average	Percent of Connections	Percent of Water Use
Residential - Single Family	29,261,600	94.42 %	65.29 %
Residential - Multi-Family	0	0.00 %	0.00 %
Industrial	0	0.00 %	0.00 %
Commercial	15,312,600	5.02 %	34.16 %
Institutional	245,400	0.56 %	0.55 %
Agricultural	0	0.00 %	0.00 %

UTILITY PROFILE FOR RETAIL WATER SUPPLIER

H. System Data Comment Section

Section III: Wastewater System Data

A. Wastewater System Data

1. Design capacity of wastewater treatment plant(s) in gallons per day:
2. List of active wastewater connections by major water use category.

Water Use Category	Metered	Unmetered	Total Connections	Percent of Total Connections
Municipal			0	0.00 %
Industrial			0	0.00 %
Commercial			0	0.00 %
Institutional			0	0.00 %
Agricultural			0	0.00 %
Total			0	100.00 %

3. Percentage of water serviced by the wastewater system: %

UTILITY PROFILE FOR RETAIL WATER SUPPLIER

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

Month	Total Gallons of Treated Water				
	2018	2017	2016	2015	2014
January					
February					
March					
April					
May					
June					
July					
August					
September					
October					
November					
December					
Total					

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	
Industrial	
Landscape irrigation (park,golf courses)	0
Agricultural	
Discharge to surface water	
Evaporation Pond	
Other	
Total	0

UTILITY PROFILE FOR RETAIL WATER SUPPLIER

C. Wastewater System Data Comment

Additional comments and files to support or explain wastewater system data listed below.

APPENDIX C

LETTER TO BRAZOS G REGIONAL WATER PLANNING GROUP

APPENDIX C

Letter to Brazos G Regional Water Planning Group

April 26, 2019

Brazos G Water Planning Group
Brazos River Authority
P.O. Box 7555
Waco, TX 76714

Dear Sir:

Enclosed please find a copy of the *Water Conservation, Drought Contingency and Water Emergency Response Plan* for the Somervell County Water District. We are submitting a copy of this model plan to the Brazos G Water Planning Group in accordance with Texas Water Development Board and Texas Commission on Environmental Quality rules. The Board of the Somervell County Water District will adopt the *Water Conservation, Drought Contingency and Water Emergency Response Plan* on May 13, 2019.

Sincerely,

Kevin Taylor

Kevin Taylor
General Manager