

Brazos River Authority

4600 Cobbs Drive
Waco, Texas 76710
(254) 761-3100



Water Conservation Plan

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Introduction

As a wholesale and agricultural irrigation water supplier, the Brazos River Authority (BRA) is required to adopt a Water Conservation Plan in conformance with the rules governing Water Conservation Plans for Wholesale Water Providers and Water Conservation Plans for Agricultural Use. These rules are set forth by the Texas Administrative Code, Title 30, Chapter 288, Subchapter A, Rule 288.5 and 288.4, respectively. Copies of the rules are contained in Appendix A.

This Water Conservation Plan, dated May 20, 2024, supersedes the Water Conservation Plan dated April 29, 2019. Water conservation planning helps the BRA effectively convey to its customers the benefits of water conservation. These benefits may include:

- Delay expensive capital investments to upgrade or expand existing water facilities.
- Delay the need for new or expanded wastewater treatment facilities.
- Conserve energy as less water needs to be treated, pumped and distributed to the consumers.
- Reduce stream diversions, thereby enhancing water quality, environmental and recreational functions.
- Maintain water levels in reservoirs.

Regulatory Requirements

Description of BRA's Service Area

The BRA's service area consists of the Brazos River Basin in Texas (Figure 1). The Brazos River Basin in Texas covers approximately 42,000 square miles and includes all or part of 70 counties. The main stem of the Brazos River begins in eastern Stonewall County, Texas and extends to the Gulf of Mexico. As the Brazos makes its way downstream, it gathers flows from tributary rivers, such as the Clear Fork, Bosque, Lampasas, Leon, Little, and Navasota Rivers. The BRA has a statutory responsibility to develop, manage, and protect the water resources of the Brazos River Basin, making them available for beneficial use. The BRA also supplies water to the San Jacinto-Brazos Coastal Basin and a small part of the Trinity River Basin.

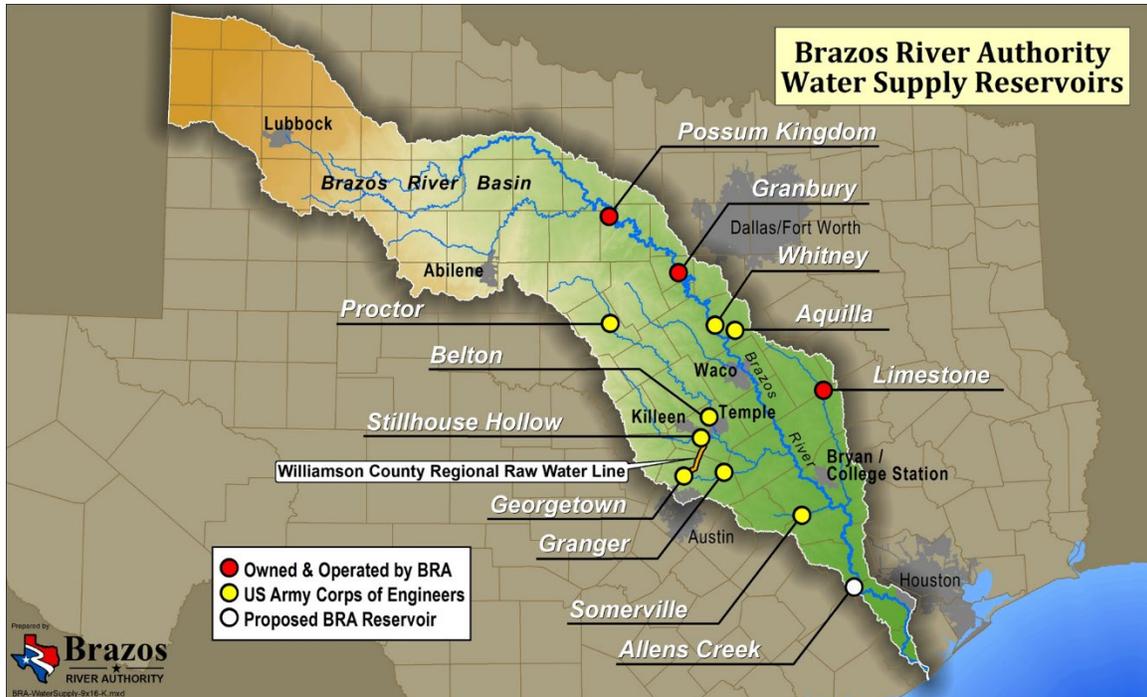


Figure 1: Brazos River Authority Water Supply Facilities

Water Supply System Data

The BRA water supply system is made up of 11 reservoirs located along, and operated in conjunction with, the Brazos River and its tributary channel network (Figure 1). The BRA holds 17 State water right authorizations (Table 1). Three water rights authorize reservoirs owned and operated by the BRA – Possum Kingdom Lake, Lake Granbury, and Lake Limestone. The BRA also holds State water right authorizations, and associated storage contracts with the U.S. Army Corps of Engineers, in eight multi-purpose federal reservoirs – Lakes Whitney, Belton, Proctor, Somerville, Stillhouse Hollow, Granger, Georgetown and Aquilla. In addition to these reservoir water rights, the BRA also holds the System Operation Permit, issued in 2016, which authorizes a supply of water made available by the integration of naturally occurring, run-of-river, flows and return flows from wastewater treatment plants in conjunction with the water supply in the 11 existing reservoirs. The incorporated Water Management Plan governs the operating principles upon which decisions are made for diversion, storage, and use of water appropriated under the System Operation Permit. Additionally, the BRA holds Water Use Permit 2925 for the proposed Allens Creek Reservoir.

Table 1. BRA Water Right Authorizations

Water Right ID	Description	Authorized Storage (acft)	Priority Date	Priority Diversion (acft/yr)
Reservoir Storage and Diversion Authorizations				
COA 12-5155	Possum Kingdom	724,739	4/6/1938	230,750
COA 12-5156	Granbury	155,000	2/13/1964	64,712
COA 12-5157	Whitney	50,000	8/30/1982	18,336
COA 12-5158	Aquilla	52,400	10/25/1976	13,896
COA 12-5159	Proctor	59,400	12/16/1963	19,658
COA 12-5160	Belton	457,600	12/16/1963	100,257
COA 12-5161	Stillhouse Hollow	235,700	12/16/1963	67,768
COA 12-5162	Georgetown	37,100	2/12/1968	13,610
COA 12-5163	Granger	65,500	2/12/1968	19,840
COA 12-5164	Somerville	160,110	12/16/1963	48,000
COA 12-5165	Limestone	225,400	5/6/1974 - 217,494 acft; 9/4/1979 - 7,906 acft	65,074
System Order ¹	<i>All Above Reservoirs</i>	N/A	Reservoir Priority	N/A
Permit 2925	Allens Creek	145,533	9/1/1999	202,000 from Brazos ² 99,650 from Reservoir
Run-of-River Diversion Authorizations				
COA 12-5166	Excess Flows ³	N/A	Non-Priority	650,000 ⁴
Permit 5851	System Operation Permit ⁵	N/A	10/05/2004	334,345
Interbasin Use Authorizations⁶				
COA 12-5167 ⁷	IBT-San Jacinto	N/A	Reservoir Priority	200,000
P5730	LCRA Contract ⁸	N/A	N/A	25,000

¹ not a water right, but an order allowing integrated use of BRA System Reservoirs

² run-of-river Brazos River diversion supplements storage in Allens Creek reservoir

³ all water diverted must be charged against the available water from the System Reservoir with the most senior priority date which has water available.

⁴ diversion is non-priority and is therefore junior to all other water rights in the basin

⁵ represents a water supply made available through integrated reservoir, run-of-river, and return flow availability as described in the Water Management Plan incorporated into this Permit

⁶ interbasin transfer is also authorized as part of COA 5155 and COA 5156 for usage in Trinity basin

⁷ authorizes water supply in System Reservoirs for usage in San Jacinto-Brazos Coastal Basin

⁸ water right authorizes supply from the Colorado basin for use by designated BRA customers in the Brazos basin in Williamson County in accordance with the Lower Colorado River Authority (LCRA) and BRA Water Conservation and Drought Contingency Plans

The BRA also has the ability under Certificate of Adjudication 12-5166 (Excess Flows) to utilize unappropriated flows at specific locations in the lower Brazos River Basin to meet customer demands on a non-priority basis, accounting for these diversions by assigning them to the most senior BRA reservoir included in the System Order.

The BRA is a wholesale water supplier and makes raw water available from the BRA water supply system to municipal, industrial, mining and agricultural irrigation water customers. Collectively, the firm yield of BRA's total authorized priority diversions is 744,568 acre-feet per year. Additionally, the BRA has contractual arrangements to divert approximately 43,000 ac-ft of water under permits issued to the Lower Colorado River Authority, City of Stamford, City of Abilene, and Palo Pinto County Municipal Water District No. 1.

The BRA makes wholesale treated water available from the East Williamson County Regional Water System (EWCRWS) adjacent to Lake Granger. Customers of the EWCRWS include the City of Taylor, Jonah Water Special Utility District, and Lone Star Regional Water Authority.

Reservoir System Operation Plan

To the maximum extent possible within regulatory, institutional, and physical constraints, the BRA seeks to optimize water supply from its reservoirs and run-of-the-river supplies through coordinated system operation authorized by the BRA's System Operation Permit, System Order, and Excess Flows Permit.

Naturally occurring, available, run-of-river, flow originating downstream of the BRA's water supply reservoirs, can be firmed up by supplemental releases from the upstream BRA reservoirs to achieve a "System" yield that is substantially greater than the sum of the individual reservoir yields.

The System Order provides operational flexibility so that, when appropriate, the BRA can utilize reservoir supplies in wetter portions of the basin to meet downstream customer needs while preserving supplies in dryer Basin regions.

The BRA also operates the Williamson County Regional Raw Water Line (WCRRWL), which transfers water from Lake Stillhouse Hollow to Lake Georgetown.

Specification of Conservation Strategies

Water conservation is an increasingly critical element in meeting the water supply needs within the Brazos River Basin. This section presents the BRA's water conservation strategies.

The Brazos River Basin is very large and has highly varied climatic conditions. The basin includes a multitude of water users. Some of these water users store and divert water under their own water rights, some purchase water from the BRA, and some are both a purchaser and a water right holder. Upon request, the BRA provides assistance to its customers (industries, municipalities, and irrigators) in the development and

implementation of conservation programs. The BRA adopts the following conservation strategies:

- **Water Supply Operations:** To the maximum extent possible within regulatory, institutional, and physical constraints, optimize supply from the BRA's water supply system through system operation.
- **Leak Detection:** Maintain a program of regular inspection, maintenance and repair of pipelines and pump stations in the BRA's delivery system. Emphasize control of leaks and water losses.
- **Education and Public Awareness:** Continue to develop and improve the BRA's existing water conservation education and information program, with the objective to enhance public cooperation and support for water conservation.
- **Reuse:** Pursue wastewater reuse as opportunities arise and support opportunities for customers to pursue wastewater reuse projects.
- **Water Resource Projects:** When authorized by the BRA's Board of Directors, cooperate with various local entities in planning, developing and operating regional water resource projects.
- **Data Collection and Sharing:** Cooperate with federal and state agencies in monitoring, developing, and disseminating water quantity and quality data.
- **Site-Specific Activities:** Develop and implement appropriate water conservation plans and programs to meet the needs of the BRA Water Supply System.
- The BRA will provide contract holders with information on ways to reduce water consumption and be water wise. The information may include methods and recommendations to reduce water consumption and water waste plus methods for improving water use efficiency as applicable to the water contract holder's type of use.
- **Promotion of Conservation Activities:** Encourage wholesale water customers and other users that supply potable water to others to consider and implement the following conservation activities, as appropriate:
 - Set specific conservation goals including, where appropriate, per capita water use targets, maximum acceptable water loss, and a time frame for achieving these goals.
 - Establish conservation-oriented rate structures such as uniform or increasing block rates and/or seasonal rates to inhibit the waste or inefficient use of water. Similar rate structures should also be applied to wastewater returned to the sewerage system for treatment.
 - Establish an aggressive program for calibrating water meters and for repairing or replacing those found to have an error of five percent or more. The program should focus initially on master meters and those of major users, then expand to include the meters of all users.

- Establish and maintain an active leak detection and repair program to identify sections of distribution systems with excessive water losses. Implement maintenance programs which will result in long-term solutions to repetitive line breaks or other events which result in the loss of water.
- Establish a goal to reduce annual water loss in distribution systems to no more than 12 percent within five years of the date of the water conservation plan and maintain unaccounted losses at no more than 12 percent for each year thereafter. (Water suppliers in rural areas with large distances between customers may set a goal higher than 12 percent, if appropriate.)
- Publicize the financial benefits of water conservation with regard to their role in preventing costly expansions of water supply and wastewater treatment systems.
- Encourage the use of landscaping that will minimize water requirements.
- Publicize and encourage demand reduction practices, i.e., off-peak watering of lawns, etc.
- Conservation Pricing: Encourage water rate structures that communicate the value of water and that will effectively promote its long-term efficient use.

The BRA will adopt any other water conservation practice, method, or technique which the BRA finds to be appropriate for achieving the stated goals of this Water Conservation Plan.

BRA Customers Who Obtain Water from the Colorado River Basin

House Bill 1437, passed by the Texas Legislature in 1999, allows the BRA to contract with the Lower Colorado River Authority (LCRA) for up to 25,000 ac-ft of water from the Colorado River Basin (LCRA water) for use in Williamson County. This contractual obligation between BRA and LCRA was memorialized in Permit No. 5730, which requires water authorized under this Permit to be used in compliance with both the LCRA and BRA Water Conservation Plans.

BRA customers who utilize LCRA water, including each successive wholesale customer, shall develop, adopt, and implement a Water Conservation Plan that complies with the LCRA's Water Conservation Plan and applicable LCRA rules. Further, such customers shall make their plan available for LCRA review.

Description of Practices Utilized to Measure and Account for Diversions

The Texas Commission on Environmental Quality Brazos Watermaster Program (Watermaster) and BRA's current raw water contract forms require that all diversions of water by the BRA's water customers must be metered or otherwise measured with an error of less than plus or minus five percent and reported to the BRA in a timely manner.

Further, all BRA customers are required to have their meters verified by the Watermaster prior to diversion of water. Metering devices must also be tested and calibrated each contract year with reports of such testing and calibration results furnished to the BRA.

The BRA maintains an accounting/delivery plan that estimates daily amounts of water used, the source, type of use, priority date, losses associated with the conveyance, specific points of diversion, associated travel times, and the commencement and termination of transit for conveyed waters.

Monitoring and Record Management Program

The U.S. Geological Survey operates numerous stream gaging stations throughout the basin which provide information on BRA reservoirs and stream flows, including releases from the reservoirs. The BRA and the U.S. Army Corps of Engineers also perform daily water balance accounting for all reservoirs in the BRA System.

Permit 5851 (System Operation Permit) requires the BRA to maintain an accounting/delivery plan that estimates daily amounts of water used, the source, type of use, priority date, losses associated with the conveyance, specific points of diversion, associated travel times, and the commencement and termination of transit for conveyed waters. BRA's accounting plan is available to the public in electronic format during normal business hours.

BRA has water use reporting requirements outlined in its water supply agreements in addition to the reporting requirements imposed by the Watermaster. The BRA coordinates with its customers, the Watermaster and other water right holders in the basin on a regular basis to ensure the requirements are met and to ensure the water supplies in the basin are being effectively managed.

The BRA preserves its records in accordance with its Records Retention Policy, which is modeled after the procedures used by the Texas State Library. This policy is consistent with the provisions of the Local Government Records Act (Texas Water Code § 49.065(c); Texas Local Government Code §§ 201.001-205.009).

Metering, Leak Detection, and Repair

Currently the BRA uses lakeside diversion or the bed and banks of the Brazos River and its tributaries to deliver water to the majority of its customers. The BRA also delivers some raw water by pipeline in the WCRRWL and wholesale treated water from the EWCRWS. Deliveries through these pipelines are expected to increase over time. The BRA maintains a program of regular inspection, maintenance, and repair of the pipeline and pump station, focusing on the monitoring of water loss and the detection and repair of leaks.

Conservation Requirements in BRA Contracts

In order to manage, protect, and prolong the beneficial use of water resources in the Brazos basin, the Brazos River Authority will maintain Water Conservation and Drought Contingency Plans in accordance with State requirements and its water rights. BRA customers will be required to comply with these plans. The BRA requires every new, renewed, and amended contract to comply with the BRA's Water Conservation Plan and

requires contract holders to develop and implement conservation plans pursuant to Texas Commission on Environmental Quality rules. Long-term contract holders shall submit copies of their water conservation and drought contingency plans to the BRA.

Documentation of Coordination with Regional Water Planning Groups

The BRA is providing a copy of this Water Conservation Plan to each of the Regional Water Planning Groups located within the Brazos River Basin [Region B, Region C, Region F, Brazos G, Region H, Lower Colorado (Region K) and Llano-Estacado (Region O)].

Means for Implementation and Enforcement

This Water Conservation Plan and all plans developed hereunder are required to be followed by purchasers in all of the BRA's water availability agreements. Violation of the Plan is a violation of the agreement provision and will be treated as such. A copy of the resolution by the Board of Directors (Board) of the BRA adopting this Water Conservation Plan may be found in Appendix B.

Review and Update of Water Conservation Plan

The BRA will review and update this Water Conservation Plan, as appropriate, every five years to coincide with development of the Regional Water Plans prepared by the Regional Water Planning Groups located within the Brazos River Basin. Each update will include water conservation goals and new or updated information.

Part I: Water Conservation Plan for Wholesale Water Providers

Population Data

Figure 2 shows the location of the Brazos River Basin, the San Jacinto-Brazos Coastal Basin, and the Brazos Colorado Coastal Basin. Table 2 shows the projected populations for the Brazos River Basin and the San Jacinto-Brazos and Brazos-Colorado Coastal Basins as approved by the Texas Water Development Board from the 2021 Regional Water Plans [1]. For 2020, the population of the Brazos River Basin was approximately 3.16 million, the population of the San Jacinto-Brazos Coastal Basin was approximately 1.36 million, and the population of the Brazos-Colorado Coastal Basin was approximately 96,000. The projected year 2070 population for the Brazos River Basin is approximately 5.66 million, the projected year 2070 population for the San Jacinto-Brazos Coastal Basin is approximately 2.13 million, and the projected 2070 population for the Brazos-Colorado Coastal Basin is approximately 238,000.



Figure 2: Brazos River Basin Location Map

**Table 2: Population Projections for the Brazos River Basin
and the San Jacinto-Brazos and Brazos-Colorado Coastal Basins**

Year	Projected Brazos River Basin Population	Projected San Jacinto-Brazos Population	Projected Brazos-Colorado Population
2020	3,155,984	1,363,787	95,691
2030	3,652,759	1,520,725	111,567
2040	4,083,033	1,695,204	131,802
2050	4,587,685	1,850,178	157,546
2060	5,104,625	1,991,711	191,640
2070	5,657,780	2,127,319	238,318

Customer Data

Table 3 lists customers with long-term contracts for 5,000 acre-feet per year or more. Appendix C gives a complete listing of all long-term BRA contract information.

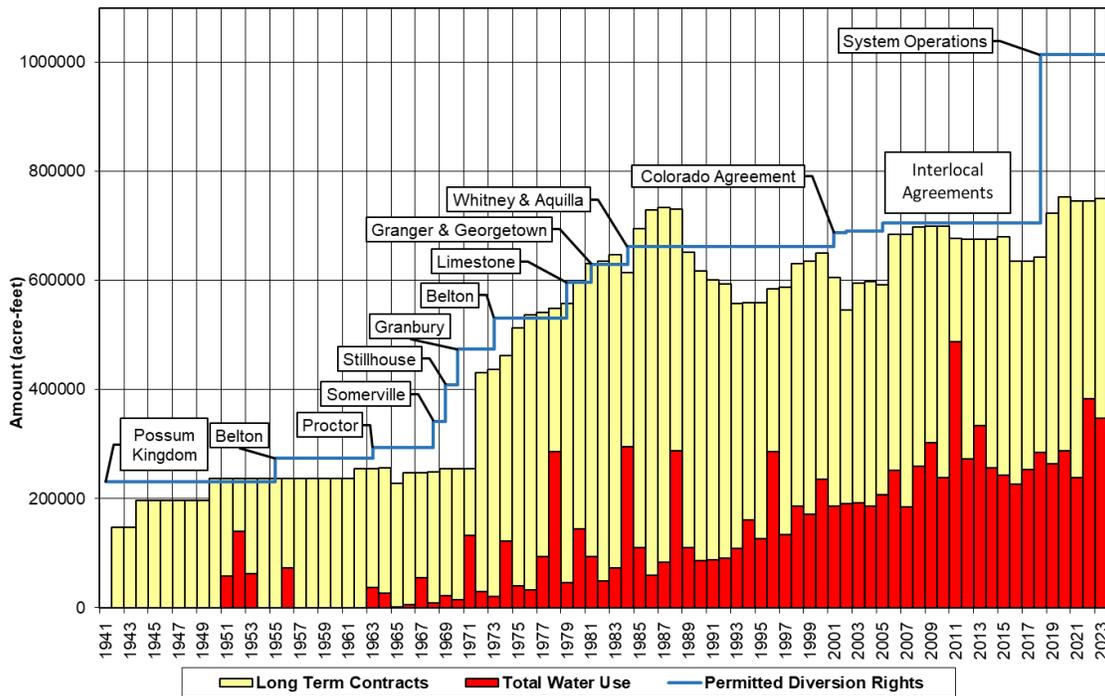
**Table 3: Brazos River Authority Long-Term Contracts of
5,000 Acre-Feet per Year or More**

Entity	Contract Amount (Acre-Feet per Year)
NRG Texas, LLC	104,837
Gulf Coast Water Authority	86,242
TXU - Luminant Electric Company	85,438
Bell County WCID #1	62,509
City of Georgetown	46,907
City of Round Rock	45,782
Dow Chemical Company	31,473
City of Temple	30,453
City of Abeline	19,418
City of Sugar Land	16,667
City of Cleburne	15,000
Central Texas WSC	13,545
East Williamson Co. RWS	13,000
City of Granbury	10,800
Wolf Hollow Services, LLC	10,000
Johnson County SUD	9,210
Kempner WSC	8,900
Bluebonnet WSC	8,301
Acton MUD	7,000
Calpine Bosque Energy Center, LLC	6,500

Entity	Contract Amount (Acre-Feet per Year)
Upper Leon River MWD	6,437
Aquilla WSD	5,953
City of Gatesville	5,898
City of Richmond	5,705
Blanchard Refining Company, LLC	5,700
SLR Property I, LP	5,000

Water Use Data

BRA’s total authorized diversion across all water rights (excluding Allen’s Creek) and contractual agreements is approximately 1,014,246 ac-ft (Figure 3). Of that total authorization, 787,568 acre-feet of water is firm and available for diversion. Figure 3 also shows the total annual amount of water that BRA has committed under long-term contracts with customers and the annual customer use of that contracted water.



Note that permitted diversion rights listed as of reservoir completion or impoundment and include permitted priority reservoir and run-of-river diversions and contractual agreements

Figure 3: Total permitted diversion rights, long term contracts, & annual water use

BRA Long Term Contracts by Type of Use

Currently, approximately 725,520 acre-feet of water, sourced from BRA water rights, is contracted with municipalities, water supply districts, water supply corporations, electric utilities and industries, irrigators, mining operations, and other uses throughout the basin (Figure 4). For this report, customers that are authorized to divert water for multiple uses

are categorized by the type of use they primarily report under. The combined amount contracted to Industrial and Steam Electric companies is 295,171 acre-feet, which represents 40% of total contracted amount. Municipal commitments add up to 405,393 acre-feet, representing 56% of the total contracted amount, and approximately 22,280 acre-feet are committed to irrigation uses, representing 3% of the total contracted amount. The remaining < 1% of the contracted amount is committed to mining and other uses¹.

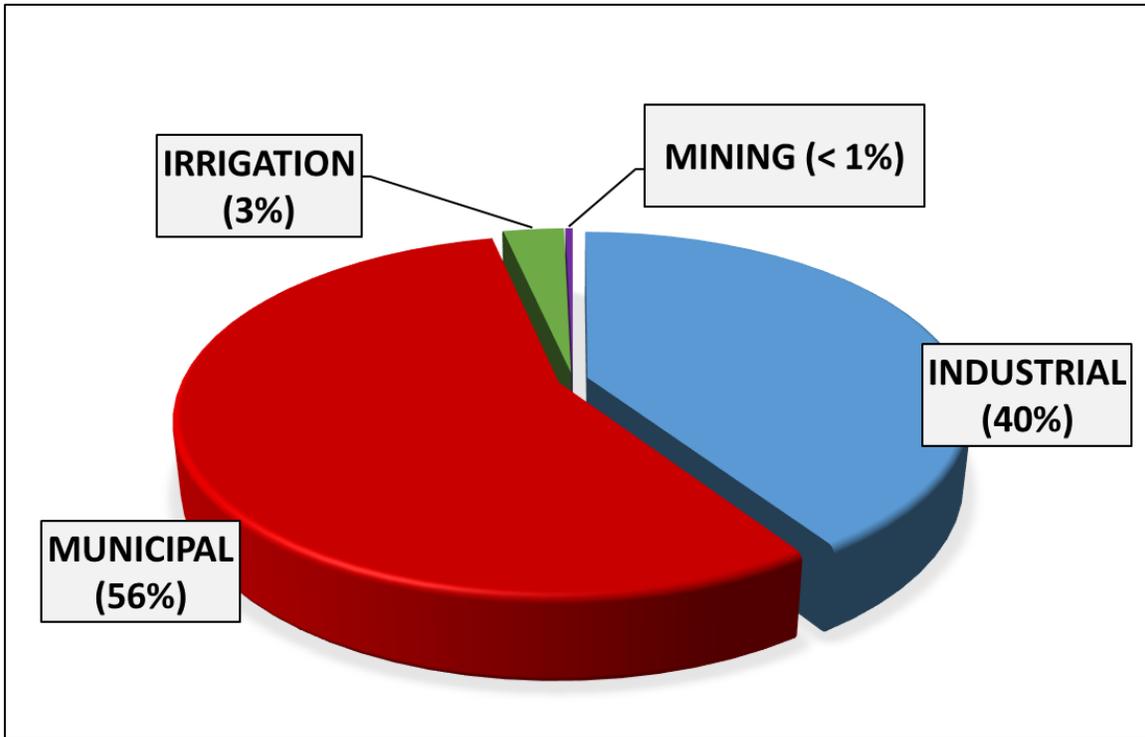


Figure 4: Current Long Term Commitments – 725,520 acre-feet

Wastewater Treatment Facilities

The BRA currently operates nine (9) wastewater treatment facilities – the Temple-Belton Regional Sewerage System, the Doshier Farm Wastewater Treatment Plant (City of Temple), the Clute-Richwood Regional Sewerage System, the City of Sugar Land’s Wastewater Treatment Plants (South, North, Greatwood, and New Territory), and the City of Hutto’s Wastewater Treatment Plants (Central and South). The reuse activity of these facilities is reported each year as part of the BRA’s Annual Water Conservation Report.

Water Conservation Goals for Municipal Users

In accordance with 30 TAC §288.5, the BRA has set specific, quantified five-year and ten-year targets for water savings. These goals include targets for municipal use in gallons per capita per day (gpcd) for the BRA’s service area and maximum acceptable water loss.

¹ Other uses include uses under non-revenue generating commitments, such as firefighting, roadside parks, state parks, fish hatchery and environmental flows.

Most of BRA’s municipal customers are located within the Brazos G Regional Water Planning Area. The 2021 Brazos G Regional Water Plan recommends water conservation strategies for Water User Groups (WUGs) with per capita usage rates exceeding 140 gpcd [2]. Therefore, the BRA adopts 140 gpcd as a ten-year goal. BRA’s five-year goal is 147 gpcd and represents the rate of water use a WUG would need to achieve in five years if it is to reach 140 gpcd in 10 years, assuming an approximately one percent (1%) reduction per year.

The maximum acceptable water loss goal for distribution systems within the BRA’s service area is 12 percent. (Water suppliers in rural areas with large distances between customers may set a goal higher than 12 percent, if appropriate.)

These goals are used as a recommendation to the BRA’s customers at the end user level. BRA customers that are already meeting these goals or achieving even lower gpcd use and/or meeting the water loss goal are commended and encouraged to continue to do so.

The goals contained in this Plan are provided as guidance for customers within the Brazos River Basin. Current or future BRA water sales, contracts or other agreements will not depend upon adoption or achievement of these goals by BRA customers. The BRA will continue to encourage customers to adopt goals based on criteria specific to the customer’s situation.

Part II: Water Conservation Plan for Agricultural Users

BRA Water Rights Authorized for Irrigation Use

Table 4 shows the authorized storage capacity and diversion right amount for each of the BRA reservoirs, excluding the proposed Allens Creek Reservoir.

Table 4: BRA Irrigation Water Rights in Existing Reservoirs

Water Right	Reservoir or Source	Storage Capacity (acre-feet)	Authorized Irrigation Use (acre-feet)*
CA 5155	Possum Kingdom	724,739	250,000
CA 5156	Granbury	155,000	14,500
CA 5159	Proctor	59,400	18,000
CA 5160	Belton	457,600	149,500
CA 5161	Stillhouse Hollow	235,700	73,700
CA 5162	Georgetown	37,100	4,100
CA 5163	Granger	65,500	5,500
CA 5164	Somerville	160,110	50,000
CA 5165	Limestone	225,400	70,000
CA 5158	Aquilla	52,400	0
CA 5157	Whitney	50,000	0
TOTAL		2,222,949	635,300
* System Order authorizes diversions in excess of the amount listed in this table for the purpose of irrigation, but may not exceed the total authorized diversions for all purposes from that reservoir in any year.			

Irrigation Contracts

As of March 2024, the BRA has 26 customers with 22,280 acre-feet of water per year committed under long-term irrigation contracts. Table 5 lists the current, long-term, irrigation customers of the BRA.

Table 5: BRA Irrigation Contracts

Entity	Contract Amount (Acre-Feet per Year)
GULF COAST WATER AUTH.	5625
NORTH LEON RIVER IRRIGATION	2909
LENMO, INC.	2774
LAKE PROCTOR IRRIGATION AUTH.	2743
KING RANCH TURFGRASS, L.P.	1300
AREA 1 WATER COMPANY LLC	1000
HORIZON TURF GRASS, INC.	698
DOUBLE DIAMOND PROPERTIES, INC.	619
DECORDOVA BEND ESTATES OWNER'S	400
NEUHAUS TRUSTS PARTNERSHIP	309
ALL SEASONS TURF GRASS	140
MM TERRY RANCH, LTD	125
JERRY GLAZE	100
ROCKER B LAND & CATTLE COMPANY, LLC	50
ARNOLD CARAWAY ACRES, LLC.	20
ZRT LAND AND CATTLE, LLC	10
COUNTRY HARVEST	8
WHITE BLUFF PROPERTY OWNER'S ASSOC.	1000
PECAN PLANTATION OWNER'S ASSOC.	750
SUGAR TREE, INC.	400
COUNTY OF SOMERVELL	350
RANCH OWNER'S ASSOC.	250
HILL COUNTRY HARBOR, L.P.	250
MOUNTAIN LAKES RANCH PROPERTY OWNER'S	200
WILDFLOWER COUNTRY CLUB, INC.	200
GRANBURY RECREATIONAL ASSOC.	50

Practices Used to Account for Water Deliveries

The BRA maintains an accounting/delivery plan that estimates daily amounts of water used, the source, type of use, priority date, losses associated with the conveyance, specific points of diversion, associated travel times, and the commencement and

termination of transit for conveyed waters. BRA's accounting plan is available to the public in electronic format during normal business hours.

Delivery Efficiency

The BRA supplies irrigation water for lakeside diversion from BRA reservoirs and uses the natural bed and banks of the Brazos River and its tributaries, to deliver water. Delivery efficiency is achieved through reservoir management decisions that seek to minimize evaporation, transportation, and other losses when possible. Transportation losses are channel losses in the natural stream channel, which may consist of evaporation, transpiration, filling of bank storage, alluvium recharge and illegal diversions. Channel losses are variable with season, antecedent weather conditions, temperature and location. Channel loss estimates used by the BRA are given in Table 6.

Table 6: Estimated Chanel Loss Factors

RESERVOIR	USGS Stream Gages				
	WACO	HIGHBANK	BRYAN	HEMPSTEAD	RICHMOND
Possum Kingdom	7%	8%	10%	12%	15%
Granbury	3%	4%	6%	8%	11%
Whitney	1%	2%	3%	6%	9%
Aquilla	1%	2%	3%	6%	9%
Lake Belton			6%	9%	12%
Stillhouse			6%	8%	11%
Granger			4%	6%	9%
Limestone			2%	5%	8%
Somerville				2%	5%

Historical Diversions

Figure 5 shows the history of annual irrigation water use from BRA water rights. Figure 6 shows the history of annual water use for municipal, irrigation, industrial and mining from BRA water rights. Over the last 20 years irrigation use has ranged from 14 percent to 4 percent of total water delivered by the BRA in any one year. The average annual amount of water delivered by the BRA for irrigation use over the last 20 years is 20,584 acre-feet, or approximately seven percent of total water delivered.

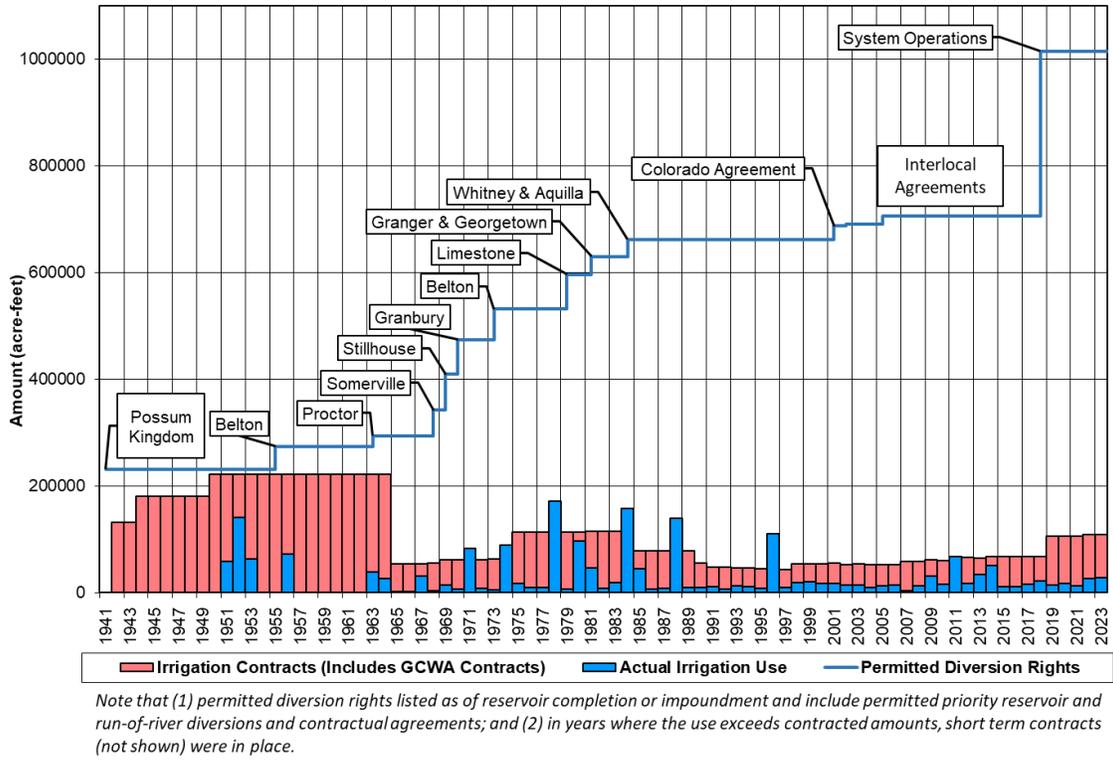


Figure 5: Permitted Diversions Rights and Irrigation Contracts & Water Use

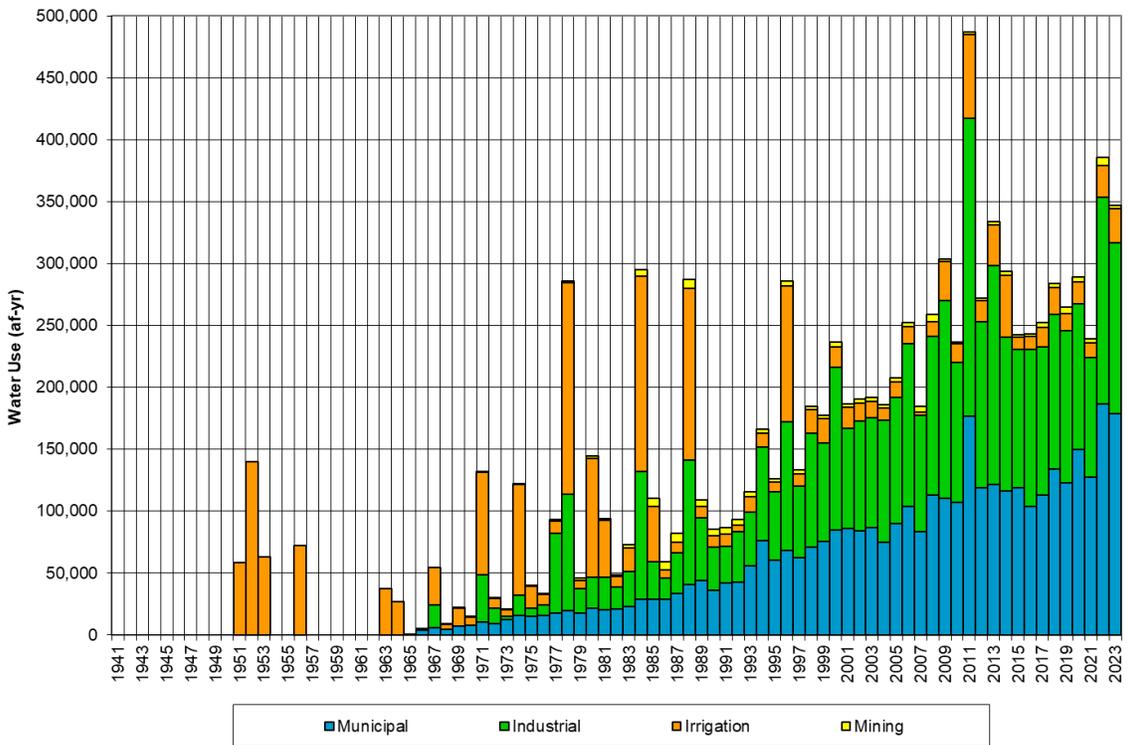


Figure 6: Total Water Use by Type

Water Pricing Policy

In October 2004, the BRA Board of Directors first adopted a temporary policy for pricing water for agricultural use. Previously, water for agricultural use was priced at the same rate as all other uses. In July 2009, the Board adopted a formal policy for pricing water for agricultural use. Appendix D contains the agriculture water pricing policy. The pricing policy sets the Agriculture Rate equal to seventy percent (70%) of the System Rate. Those customers strictly meeting the Agricultural definition in Texas Administrative Code, Title 30, Rule 288.1 qualify for the reduced Agricultural Rate. If the customer's water supply agreement authorizes other uses in addition to agricultural use, the reduced Agricultural Rate will not apply.

Water Conservation Goals for Agricultural Irrigation Users

In accordance with 30 TAC §288.4, the BRA has established 12 percent as both the quantified five and ten-year target for water savings that includes maximum acceptable water losses for agricultural irrigation use storage and distribution systems.

The five and ten-year target is to encourage agricultural irrigation customers to reduce annual water loss in storage and distribution systems to no more than 12 percent.

These goals are provided as guidance for BRA's agricultural irrigation customers. Current or future BRA water sales, contracts or other agreements will not depend upon adoption or achievement of these goals by BRA customers. As a wholesale water provider, the BRA does not directly, quantitatively track the historical or projected type or extent of irrigation customer's crops, irrigation systems, drainage systems or total acreage. The BRA does coordinate with our customers to help facilitate and assist them in their efforts to develop on-farm water conservation and pollution prevention measures specific to their agricultural circumstances. The BRA will continue to encourage customers to adopt goals based on criteria specific to the customer's situation.

References

1. 2021 Regional Water Plan Population and Water Demand Projections. Available at: <https://www.twdb.texas.gov/waterplanning/data/projections/2022/popproj.asp>.
2. 2021 Region G Regional Water Plan. Available at: <https://www.twdb.texas.gov/waterplanning/rwp/plans/2021/index.asp>

APPENDIX A

Texas Administrative Code

Title 30, Part 1, Chapter 288, Subchapter A, Rules 288. 4 and 288.5

TITLE 30 ENVIRONMENTAL QUALITY

PART 1 TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

CHAPTER 288 WATER CONSERVATION PLANS, DROUGHT CONTINGENCY PLANS, GUIDELINES AND REQUIREMENTS

SUBCHAPTER A WATER CONSERVATION PLANS

RULE §288.4 Water Conservation Plans for Agricultural Use

(a) A water conservation plan for agricultural use of water must provide information in response to the following subsections. If the plan does not provide information for each requirement, the agricultural water user must include in the plan an explanation of why the requirement is not applicable.

(1) For an individual agricultural user other than irrigation:

(A) a description of the use of the water in the production process, including how the water is diverted and transported from the source(s) of supply, how the water is utilized in the production process, and the estimated quantity of water consumed in the production process and therefore unavailable for reuse, discharge, or other means of disposal;

(B) specific, quantified five-year and ten-year targets for water savings and the basis for the development of such goals. The goals established by agricultural water users under this subparagraph are not enforceable;

(C) a description of the device(s) and/or method(s) within an accuracy of plus or minus 5.0% to be used in order to measure and account for the amount of water diverted from the source of supply;

(D) leak-detection, repair, and accounting for water loss in the water distribution system;

(E) application of state-of-the-art equipment and/or process modifications to improve water use efficiency; and

(F) any other water conservation practice, method, or technique which the user shows to be appropriate for achieving the stated goal or goals of the water conservation plan.

(2) For an individual irrigation user:

(A) a description of the irrigation production process which shall include, but is not limited to, the type of crops and acreage of each crop to be irrigated, monthly irrigation diversions, any seasonal or annual crop rotation, and soil types of the land to be irrigated;

(B) a description of the irrigation method, or system, and equipment including pumps, flow rates, plans, and/or sketches of the system layout;

(C) a description of the device(s) and/or methods, within an accuracy of plus or minus 5.0%, to be used in order to measure and account for the amount of water diverted from the source of supply;

(D) specific, quantified five-year and ten-year targets for water savings including, where appropriate, quantitative goals for irrigation water use efficiency and a pollution

abatement and prevention plan. The goals established by an individual irrigation water user under this subparagraph are not enforceable;

(E) water-conserving irrigation equipment and application system or method including, but not limited to, surge irrigation, low pressure sprinkler, drip irrigation, and nonleaking pipe;

(F) leak-detection, repair, and water-loss control;

(G) scheduling the timing and/or measuring the amount of water applied (for example, soil moisture monitoring);

(H) land improvements for retaining or reducing runoff, and increasing the infiltration of rain and irrigation water including, but not limited to, land leveling, furrow diking, terracing, and weed control;

(I) tailwater recovery and reuse; and

(J) any other water conservation practice, method, or technique which the user shows to be appropriate for preventing waste and achieving conservation.

(3) For a system providing agricultural water to more than one user:

(A) a system inventory for the supplier's:

(i) structural facilities including the supplier's water storage, conveyance, and delivery structures;

(ii) management practices, including the supplier's operating rules and regulations, water pricing policy, and a description of practices and/or devices used to account for water deliveries; and

(iii) a user profile including square miles of the service area, the number of customers taking delivery of water by the system, the types of crops, the types of irrigation systems, the types of drainage systems, and total acreage under irrigation, both historical and projected;

(B) specific, quantified five-year and ten-year targets for water savings including maximum allowable losses for the storage and distribution system. The goals established by a system providing agricultural water to more than one user under this subparagraph are not enforceable;

(C) a description of the practice(s) and/or device(s) which will be utilized to measure and account for the amount of water diverted from the source(s) of supply;

(D) a monitoring and record management program of water deliveries, sales, and losses;

(E) a leak-detection, repair, and water loss control program;

(F) a program to assist customers in the development of on-farm water conservation and pollution prevention plans and/or measures;

(G) a requirement in every wholesale water supply contract entered into or renewed after official adoption of the plan (by either ordinance, resolution, or tariff), and including any contract extension, that each successive wholesale customer develop and implement a water conservation plan or water conservation measures using the applicable elements in this chapter. If the customer intends to resell the water, the contract between the initial supplier and 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 applicable provisions of this chapter;

(H) official adoption of the water conservation plan and goals, by ordinance, rule, resolution, or tariff, indicating that the plan reflects official policy of the supplier;

(I) any other water conservation practice, method, or technique which the supplier shows to be appropriate for achieving conservation; and

(J) documentation of coordination with the regional water planning groups, in order to ensure consistency with appropriate approved regional water plans.

(b) A water conservation plan prepared in accordance with the rules of the United States Department of Agriculture Natural Resource Conservation Service, the Texas State Soil and Water Conservation Board, or other federal or state agency and substantially meeting the requirements of this section and other applicable commission rules may be submitted to meet application requirements in accordance with a memorandum of understanding between the commission and that agency.

(c) An agricultural water user shall review and update its water conservation plan, as appropriate, based on an assessment of previous five-year and ten-year targets and any other new or updated information. An agricultural water user shall review and update the next revision of its water conservation plan every five years to coincide with the regional water planning group.

Source Note: The provisions of this §288.4 adopted to be effective May 3, 1993, 18 TexReg 2558; amended to be effective February 21, 1999, 24 TexReg 949; amended to be effective April 27, 2000, 25 TexReg 3544; amended to be effective August 15, 2002, 27 TexReg 7146; amended to be effective October 7, 2004, 29 TexReg 9384; amended to be effective December 6, 2012, 37 TexReg 9515

[https://texreg.sos.state.tx.us/public/readtac\\$ext.TacPage?sl=R&app=9&p_dir=&p_rloc=&p_tloc=&p_ploc=&pg=1&p_tac=&ti=30&pt=1&ch=288&rl=4](https://texreg.sos.state.tx.us/public/readtac$ext.TacPage?sl=R&app=9&p_dir=&p_rloc=&p_tloc=&p_ploc=&pg=1&p_tac=&ti=30&pt=1&ch=288&rl=4)

TITLE 30 ENVIRONMENTAL QUALITY

PART 1 TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

CHAPTER 288 WATER CONSERVATION PLANS, DROUGHT CONTINGENCY PLANS, GUIDELINES AND REQUIREMENTS

SUBCHAPTER A WATER CONSERVATION PLANS

RULE §288.5 **Water Conservation Plans for Wholesale Water Suppliers**

A water conservation plan for a wholesale water supplier must provide information in response to each of the following paragraphs. If the plan does not provide information for each requirement, the wholesale water supplier shall include in the plan an explanation of why the requirement is not applicable.

- (1) Minimum requirements. All water conservation plans for wholesale water suppliers must include the following elements:
 - (A) a description of the wholesaler's service area, including population and customer data, water use data, water supply system data, and wastewater data;
 - (B) specific, quantified five-year and ten-year targets for water savings including, where appropriate, target goals for municipal use in gallons per capita per day for the wholesaler's service area, maximum acceptable water loss, and the basis for the development of these goals. The goals established by wholesale water suppliers under this subparagraph are not enforceable;
 - (C) a description as to which practice(s) and/or device(s) will be utilized to measure and account for the amount of water diverted from the source(s) of supply;
 - (D) a monitoring and record management program for determining water deliveries, sales, and losses;
 - (E) a program of metering and leak detection and repair for the wholesaler's water storage, delivery, and distribution system;
 - (F) a requirement in every water supply contract entered into or renewed after official adoption of the water conservation plan, and including any contract extension, that each successive wholesale customer develop and implement a water conservation plan or water conservation measures using the applicable elements of this chapter. If the customer intends to resell the water, then the contract between the initial supplier and 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 applicable provisions of this chapter;
 - (G) a reservoir systems operations plan, if applicable, providing for the coordinated operation of reservoirs owned by the applicant within a common watershed or river

basin. The reservoir systems operations plans shall include optimization of water supplies as one of the significant goals of the plan;

(H) a means for implementation and enforcement, which shall be evidenced by a copy of the ordinance, rule, resolution, or tariff, indicating official adoption of the water conservation plan by the water supplier; and a description of the authority by which the water supplier will implement and enforce the conservation plan; and

(I) documentation of coordination with the regional water planning groups for the service area of the wholesale water supplier in order to ensure consistency with the appropriate approved regional water plans.

(2) Additional conservation strategies. Any combination of the following strategies shall be selected by the water wholesaler, in addition to the minimum requirements of paragraph (1) of this section, if they are necessary in order to achieve the stated water conservation goals of the plan. The commission may require by commission order that any of the following strategies be implemented by the water supplier if the commission determines that the strategies are necessary in order for the conservation plan to be achieved:

(A) conservation-oriented water rates and water rate structures such as uniform or increasing block rate schedules, and/or seasonal rates, but not flat rate or decreasing block rates;

(B) a program to assist agricultural customers in the development of conservation pollution prevention and abatement plans;

(C) a program for reuse and/or recycling of wastewater and/or graywater; and

(D) any other water conservation practice, method, or technique which the wholesaler shows to be appropriate for achieving the stated goal or goals of the water conservation plan.

(3) Review and update requirements. The wholesale water supplier shall review and update its water conservation plan, as appropriate, based on an assessment of previous five-year and ten-year targets and any other new or updated information. A wholesale water supplier shall review and update the next revision of its water conservation plan every five years to coincide with the regional water planning group.

Source Note: The provisions of this §288.5 adopted to be effective May 3, 1993, 18 TexReg 2558; amended to be effective February 21, 1999, 24 TexReg 949; amended to be effective April 27, 2000, 25 TexReg 3544; amended to be effective October 7, 2004, 29 TexReg 9384; amended to be effective December 6, 2012, 37 TexReg 9515

[https://texreg.sos.state.tx.us/public/readtac\\$ext.TacPage?sl=R&app=9&p_dir=&p_rloc=&p_tloc=&p_ploc=&pg=1&p_tac=&ti=30&pt=1&ch=288&rl=5](https://texreg.sos.state.tx.us/public/readtac$ext.TacPage?sl=R&app=9&p_dir=&p_rloc=&p_tloc=&p_ploc=&pg=1&p_tac=&ti=30&pt=1&ch=288&rl=5)

APPENDIX B

Board Resolution Adopting Water Conservation Plan



Brazos River Authority

**RESOLUTION OF THE BOARD OF DIRECTORS OF
THE BRAZOS RIVER AUTHORITY
MAY 20, 2024**

**Agenda Item No. 4
Water Conservation Plan Update**

"BE IT RESOLVED by the Board of Directors of the Brazos River Authority that the Water Conservation Plan, as presented at the May 20, 2024, Board of Directors' Meeting and prepared in conformance with the requirements of the Texas Administrative Code, is hereby adopted; and

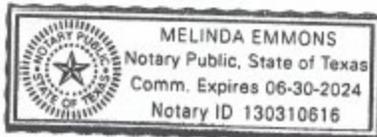
BE IT FURTHER RESOLVED by the Board of Directors of the Brazos River Authority that this newly adopted Water Conservation Plan supersedes the Water Conservation Plan dated April 29, 2019; and

BE IT FURTHER RESOLVED that the General Manager/CEO is directed to submit the adopted Brazos River Authority Water Conservation Plan to the Texas Commission on Environmental Quality."

The aforementioned resolution was approved by the Board of Directors of the Brazos River Authority on May 20, 2024, to certify which witness my hand and seal.

Cynthia A. Flores
Presiding Officer

SUBSCRIBED AND SWORN TO BEFORE ME on this the 20 day of May, 2024, to certify which witness my hand and official seal.



Melinda Emmons
Notary Public in and for the
State of Texas

APPENDIX C

BRA Long-Term Contract Information

BRA Customer	Use Type¹	Annual Contract Amount (acre-feet)	Diversion Location²	Contract Expiration Date³
439 WATER SUPPLY CORP.	MU	560	Lake Belton	8/31/2049
439 WATER SUPPLY CORP.	MU	849	Lake Belton	8/31/2029
ABILENE, CITY OF	MU	4,481	Possum Kingdom Lake	8/31/2045
ABILENE, CITY OF	MU	7,200	Possum Kingdom Lake	8/31/2045
ABILENE, CITY OF	MU	7,737	Possum Kingdom Lake	8/31/2045
ACTON MUD	MU	1,000	Lake Granbury	12/31/2033
ACTON MUD	MU	2,000	Lake Granbury	12/31/2041
ACTON MUD	MU	4,000	Lake Granbury	8/31/2048
ALL SEASONS TURF GRASS	IR	50	Hempstead to Richmond Gage	8/31/2026
ALL SEASONS TURF GRASS	IR	90	Hempstead to Richmond Gage	8/31/2045
AQUILLA WATER SUPPLY DIST.	MU	5,953	Lake Aquilla	12/31/2040
AREA 1 WATER COMPANY LLC	IR	1,000	Lake Proctor to Leon at Gatesville Gage	8/31/2040
ARNOLD CARAWAY ACRES, LLC.	IR	20	Palo Pinto gage to Dennis gage	8/31/2040
BASA RESOURCES, INC.	MI	560	Possum Kingdom Lake	8/31/2026
BASF CORPORATION	IN	3,868	Richmond Gage to Gulf	8/31/2045
BELL COUNTY WATER CONTROL & IMP. DIST.	MU	3,000	Lake Belton	8/31/2031
BELL COUNTY WATER CONTROL & IMP. DIST.	MU	10,000	Lake Stillhouse Hollow	8/31/2031
BELL COUNTY WATER CONTROL & IMP. DIST.	MU	49,509	Lake Belton	12/31/2041
BELTON, CITY OF	MU	2,500	Lake Belton	12/31/2041
BLANCHARD REFINING COMPANY, LLC	IN	5,700	Richmond Gage to Gulf	8/31/2045
BLUEBONNET WATER SUPPLY CORP.	MU	567	Lake Belton	12/31/2041
BLUEBONNET WATER SUPPLY CORP.	MU	3,050	Lake Belton	8/31/2050
BLUEBONNET WATER SUPPLY CORP.	MU	4,684	Lake Belton	12/31/2041
BRENHAM, CITY OF	MU	774	Lake Somerville	8/31/2045
BRENHAM, CITY OF	MU	4,200	Lake Somerville	8/31/2047
BRUSHY CREEK MUD	MU	4,000	Lake Stillhouse Hollow	8/31/2036
CALPINE BOSQUE ENERGY CENTER, LLC	IN	6,500	Lk Whitney to Aquilla/Brazos Confluence	8/31/2037
CENTRAL TEXAS WATER SUPPLY CORP.	MU	100	Lake Stillhouse Hollow	12/31/2041
CENTRAL TEXAS WATER SUPPLY CORP.	MU	895	Lake Stillhouse Hollow	8/31/2030
CENTRAL TEXAS WATER SUPPLY CORP.	MU	1,000	Lake Stillhouse Hollow	8/31/2030
CENTRAL TEXAS WATER SUPPLY CORP.	MU	1,500	Lake Stillhouse Hollow	8/31/2030
CENTRAL TEXAS WATER SUPPLY CORP.	MU	3,100	Lake Stillhouse Hollow	12/31/2041
CENTRAL TEXAS WATER SUPPLY CORP.	MU	6,950	Lake Stillhouse Hollow	8/31/2045
CITY OF MANVEL	MU	3,731	Richmond Gage to Gulf	8/31/2045
CLEBURNE, CITY OF	MU	4,700	Lake Whitney	12/31/2032
CLEBURNE, CITY OF	MU	5,000	Lake Whitney	8/31/2032
CLEBURNE, CITY OF	MU	5,300	Lake Whitney	12/31/2032
CORYELL CITY WATER SUPPLY DIST.	MU	300	Lake Belton	8/31/2025
COUNTRY HARVEST ⁴	IR	8	Lampasas nr Belton Gage to Little R at Little River Gage	8/31/2034
COUNTY OF SOMERVELL	IR	350	Lake Granbury	8/31/2066
DECORDOVA BEND ESTATES OWNER'S	IR	100	Lake Granbury	8/31/2040
DECORDOVA BEND ESTATES OWNER'S	IR	300	Lake Granbury	8/31/2040

BRA Customer	Use Type¹	Annual Contract Amount (acre-feet)	Diversion Location²	Contract Expiration Date³
DOUBLE DIAMOND PROPERTIES, INC.	IR	619	Glen Rose Gage to Lake Whitney	8/31/2045
DOUBLE DIAMOND PROPERTIES, INC.	IR	1,000	Possum Kingdom Lake	12/31/2034
DOW CHEMICAL COMPANY	IN	15,473	Richmond Gage to Gulf	8/31/2045
DOW CHEMICAL COMPANY	IN	16,000	Richmond Gage to Gulf	12/31/2041
EAST WILLIAMSON CO. REGIONAL WATER TREATMENT SYSTEM	MU	13,000	Lake Granger	See Note 5
FORT GATES WATER SUPPLY CORP.	MU	200	Lake Belton	8/31/2031
FORT GRIFFIN SUD	MU	353	Possum Kingdom Lake	8/31/2052
GATESVILLE, CITY OF	MU	248	Lake Belton	8/31/2045
GATESVILLE, CITY OF	MU	450	Lake Belton	8/31/2045
GATESVILLE, CITY OF	MU	1,200	Lake Belton	12/31/2041
GATESVILLE, CITY OF	MU	4,000	Lake Belton	8/31/2050
GEORGETOWN, CITY OF	MU	1,200	Colorado Basin	8/31/2030
GEORGETOWN, CITY OF	MU	2,439	Lake Stillhouse Hollow	8/31/2040
GEORGETOWN, CITY OF	MU	4,760	Lake Stillhouse Hollow	8/31/2048
GEORGETOWN, CITY OF	MU	6,340	Lake Stillhouse Hollow	8/31/2048
GEORGETOWN, CITY OF	MU	6,720	Lake Georgetown	8/31/2050
GEORGETOWN, CITY OF	MU	10,000	Lake Stillhouse Hollow	8/31/2040
GEORGETOWN, CITY OF	MU	15,448	Lake Stillhouse Hollow	8/31/2040
GRAHAM, CITY OF	MU	1,000	Possum Kingdom Lake	12/31/2041
GRANBURY RECREATIONAL ASSOC.	IR	50	Lake Granbury	8/31/2029
GRANBURY, CITY OF	MU	10,800	Lake Granbury	8/31/2048
GULF COAST WATER AUTH.	MU	3,100	Richmond Gage to Gulf	8/31/2057
GULF COAST WATER AUTH.	IR	5,625	Richmond Gage to Gulf	12/31/2024
GULF COAST WATER AUTH.	IN	9,335	Hempstead to Richmond Gage	12/31/2022
GULF COAST WATER AUTH.	IN	31,820	Richmond Gage to Gulf	8/31/2027
GULF COAST WATER AUTH.	IN	36,362	Richmond Gage to Gulf	8/31/2045
HARKER HEIGHTS, CITY OF	MU	300	Lake Stillhouse Hollow	8/31/2031
HARKER HEIGHTS, CITY OF	MU	3,235	Lake Belton	8/31/2031
HIGH GABRIEL WATER SUPPLY CORP.	MU	310	Lake Stillhouse Hollow	12/31/2041
HILL COUNTRY HARBOR, L.P.	IR	250	Possum Kingdom Lake	8/31/2046
HORIZON TURF GRASS, INC.	IR	150	Highbank Gage to Brazos/Little Confluence	8/31/2040
HORIZON TURF GRASS, INC.	IR	200	Bryan Gage to Brazos/Yegua Confluence	8/31/2027
HORIZON TURF GRASS, INC.	IR	348	Highbank Gage to Brazos/Little Confluence	8/31/2045
JARRELL-SCHWERTNER WATER SUPPLY CORP.	MU	1,000	Lake Stillhouse Hollow	8/31/2034
JERRY GLAZE	IR	100	Lake Stillhouse Hollow	8/31/2047
JOHNSON COUNTY SUD	MU	9,210	Lake Granbury	8/31/2048
KEMPNER WATER SUPPLY CORP.	MU	500	Lake Stillhouse Hollow	12/31/2041
KEMPNER WATER SUPPLY CORP.	MU	1,750	Lake Stillhouse Hollow	8/31/2030
KEMPNER WATER SUPPLY CORP.	MU	2,000	Lake Stillhouse Hollow	8/31/2031
KEMPNER WATER SUPPLY CORP.	MU	2,000	Lake Stillhouse Hollow	8/31/2029
KEMPNER WATER SUPPLY CORP.	MU	2,650	Lake Stillhouse Hollow	8/31/2050

BRA Customer	Use Type¹	Annual Contract Amount (acre-feet)	Diversion Location²	Contract Expiration Date³
KING RANCH TURFGRASS, L.P.	IR	540	Brazos/Yegua Confluence to Brazos/Navasota Confluence	8/31/2035
KING RANCH TURFGRASS, L.P.	IR	760	Lake Granbury	8/31/2035
LAKE PROCTOR IRRIGATION AUTH.	IR	2,743	Lake Proctor	8/31/2040
LAKE WHITNEY WATER COMPANY	MU	150	Lake Aquilla	8/31/2033
LAKES AT TIMBER COVE PROPERTY OWNERS ASSOCIATION, INC.	MU	90	Lake Granbury	8/31/2031
LAMPASAS, CITY OF	MU	500	Lake Stillhouse Hollow	12/31/2041
LAMPASAS, CITY OF	MU	1,000	Lake Stillhouse Hollow	8/31/2050
LAMPASAS, CITY OF	MU	2,000	Lake Stillhouse Hollow	8/31/2029
LENMO, INC.	IR	350	Lake Granbury	8/31/2035
LENMO, INC.	IR	774	Lake Granbury	8/31/2040
LENMO, INC.	IR	1,650	Lake Granbury	8/31/2035
LIBERTY HILL, CITY OF	MU	600	Colorado Basin	8/31/2050
LIBERTY HILL, CITY OF	MU	1,372	Colorado Basin	8/31/2050
LIBERTY HILL, CITY OF	MU	600	Colorado Basin	4/1/2034
LORENA, CITY OF	MU	1,000	Waco Gage to Highbank Gage	8/31/2047
LORENA, CITY OF	MU	1,500	Waco Gage to Highbank Gage	8/31/2050
LOWELL UNDERWOOD	MI	54	Lk Granbury to Glen Rose Gage	8/31/2025
LUBBOCK, CITY OF	MU	961	Possum Kingdom Lake	See Note 6
MARLIN, CITY OF	MU	1,200	Waco Gage to Highbank Gage	8/31/2040
MCGREGOR, CITY OF	MU	810	Lake Belton	12/31/2041
MM TERRY RANCH, LTD	IR	125	Possum Kingdom Lake	8/31/2044
MOUNTAIN LAKES RANCH PROPERTY OWNER'S	IR	200	Lake Whitney	8/31/2036
NEUHAUS TRUSTS PARTNERSHIP	IR	309	Waco Gage to Highbank Gage	8/31/2040
NORTH LEON RIVER IRRIGATION	IR	2,909	Lake Proctor to Leon at Gatesville Gage	8/31/2040
NRG TEXAS, LLC	IN	5,026	Lake Limestone	7/15/2040
NRG TEXAS, LLC	IN	7,837	Lake Limestone	8/31/2037
NRG TEXAS, LLC	IN	8,974	Lake Limestone	7/15/2040
NRG TEXAS, LLC	IN	83,000	Hempstead to Richmond Gage	12/31/2030
OAK GROVE MANAGEMENT, LLC	IN	3,838	Lake Limestone	8/31/2050
PARKER COUNTY SUD	MU	774	Palo Pinto gage to Dennis gage	8/31/2045
PARKER COUNTY SUD	MU	1,100	Palo Pinto gage to Dennis gage	8/31/2048
PECAN GROVE MUD	MU	700	Richmond Gage to Rosharon Gage	8/31/2040
PECAN PLANTATION OWNER'S ASSOC.	IR	250	Lake Granbury	8/31/2044
PECAN PLANTATION OWNER'S ASSOC.	IR	500	Lk Granbury to Glen Rose Gage	8/31/2040
POSSUM KINGDOM WATER SUPPLY CORP.	MU	750	Possum Kingdom Lake	8/31/2048
POSSUM KINGDOM WATER SUPPLY CORP.	MU	1,934	Possum Kingdom Lake	8/31/2045
RANCH OWNER'S ASSOC.	IR	250	Possum Kingdom Lake	8/31/2046
RICHMOND, CITY OF	MU	172	Hempstead to Richmond Gage	8/31/2050
RICHMOND, CITY OF	MU	2,760	Hempstead to Richmond Gage	8/31/2050
RICHMOND, CITY OF	MU	2,773	Hempstead to Richmond Gage	8/31/2045
ROBINSON, CITY OF	MU	2,323	Waco Gage to Highbank Gage	8/31/2050

BRA Customer	Use Type¹	Annual Contract Amount (acre-feet)	Diversion Location²	Contract Expiration Date³
ROCKER B LAND & CATTLE COMPANY, LLC	IR	50	Possum Kingdom to Palo Pinto gage	8/31/2050
ROSEBUD, CITY OF	MU	100	Highbank Gage to Brazos/Little Confluence	8/31/2045
ROSENBERG, CITY OF	MU	4,500	Brazos/Navasota Confluence to Hempstead Gage	8/31/2050
ROUND ROCK, CITY OF	MU	4,500	Colorado Basin	8/31/2052
ROUND ROCK, CITY OF	MU	6,720	Lake Georgetown	8/31/2050
ROUND ROCK, CITY OF	MU	6,944	Colorado Basin	8/31/2051
ROUND ROCK, CITY OF	MU	9,484	Colorado Basin	8/31/2051
ROUND ROCK, CITY OF	MU	18,134	Lake Stillhouse Hollow	8/31/2040
SALADO WATER SUPPLY CORP.	MU	800	Lake Stillhouse Hollow	8/31/2036
SALADO WATER SUPPLY CORP.	MU	800	Lake Stillhouse Hollow	8/31/2050
SLC WATER SUPPLY CORP.	MU	200	Lake Limestone	8/31/2045
SLR PROPERTY I, LP ⁷	IN	5,000	Little/San Gabriel Confluence to Cameron Gage	8/31/2045
SPORTSMAN'S WORLD MUD	MU	125	Possum Kingdom Lake	8/31/2050
SPORTSMAN'S WORLD MUD	MU	290	Possum Kingdom Lake	8/31/2045
STAMFORD, CITY OF	MU	1,820	Possum Kingdom Lake	8/31/2041
STEPHENS COUNTY SUD	MU	800	Possum Kingdom Lake	8/31/2053
SUGAR LAND, CITY OF	MU	6,388	Richmond Gage to Gulf	8/31/2040
SUGAR LAND, CITY OF	MU	10,279	Richmond Gage to Gulf	8/31/2045
SUGAR TREE, INC.	IR	400	Palo Pinto gage to Dennis gage	8/31/2040
SUN CITY GEORGETOWN	IR	15	Lake Granger	8/31/2045
TEMPLE, CITY OF ⁷	MU	2,500	Lake Belton Dam to Leon Belton Gage	8/31/2047
TEMPLE, CITY OF ⁷	MU	9,453	Lake Belton Dam to Leon Belton Gage	12/31/2041
TEMPLE, CITY OF ⁷	MU	18,500	Lake Belton Dam to Leon Belton Gage	12/31/2099
TEXAS PARKS & WILDLIFE DEPT.	MU	15	Possum Kingdom Lake	8/31/2030
TEXAS PARKS & WILDLIFE DEPT.	IN	1,200	Possum Kingdom Lake	12/31/2040
TEXAS WATER UTILITIES, L.P.	MU	600	Lake Granbury	8/31/2050
THE GROVE WATER SUPPLY CORP.	MU	400	Lake Belton	8/31/2029
TXU - LUMINANT ELECTRIC COMPANY	IN	3,600	Lake Limestone	8/31/2030
TXU - LUMINANT ELECTRIC COMPANY	IN	8,974	Lake Limestone	12/31/2029
TXU - LUMINANT ELECTRIC COMPANY	IN	14,000	Possum Kingdom Lake	12/31/2030
TXU - LUMINANT ELECTRIC COMPANY	IN	16,026	Lake Limestone	7/15/2040
TXU - LUMINANT ELECTRIC COMPANY	IN	39,000	Lake Granbury	8/31/2066
UPPER LEON RIVER MWD	MU	232	Lake Proctor	12/31/2042
UPPER LEON RIVER MWD	MU	2,890	Lake Proctor	8/30/2049
UPPER LEON RIVER MWD	MU	3,315	Lake Proctor	N/A
VULCAN CONSTRUCTION MATERIALS, LLC	MI	387	Hempstead to Richmond Gage	8/31/2035
VULCAN CONSTRUCTION MATERIALS, LLC	MI	1,000	Hempstead to Richmond Gage	8/31/2040
WELLBORN SUD	MU	4,000	Easterly Gage to Navasota/Brazos Confluence	8/31/2047
WEST CENTRAL TEXAS MUNICIPAL WATER DISTRICT	IR	125	Possum Kingdom Lake	8/31/2045
WEST CENTRAL TEXAS MUNICIPAL WATER DISTRICT	MU	130	Possum Kingdom Lake	8/31/2045

BRA Customer	Use Type¹	Annual Contract Amount (acre-feet)	Diversion Location²	Contract Expiration Date³
WEST CENTRAL TEXAS MUNICIPAL WATER DISTRICT	MI	235	Possum Kingdom Lake	8/31/2025
WEST CENTRAL TEXAS MUNICIPAL WATER DISTRICT	MI	440	Possum Kingdom Lake	8/31/2045
WHITE BLUFF PROPERTY OWNER'S ASSOC.	IR	1,000	Lake Whitney	8/31/2030
WHITNEY, CITY OF	MU	750	Lake Whitney	12/31/2033
WILDFLOWER COUNTRY CLUB, INC. ⁷	IR	200	Leon R nr Belton Gage to Little R at Little River Gage	8/31/2027
WOLF HOLLOW SERVICES, LLC	IN	10,000	Lake Granbury	8/31/2032
ZRT LAND AND CATTLE, LLC	IR	10	Palo Pinto gage to Dennis gage	8/31/2023

1 – Contract Use Types: MU-Municipal, IN- Industrial, IR- Irrigation, MI- Mining

2 – Stream segments as defined in the 2018 BRA Water Management Plan. The physical location of each entity is contained within the associated stream Segment. The boundaries of each stream segment are either USGS stream flow gages or the confluences of tributaries or rivers (see the map below for general locations of each stream segment). Some entities have multiple contracts with multiple locations in the basin (example: City of Georgetown has BRA contracts that are sourced from Lake Georgetown, Lake Stillhouse Hollow and the Colorado Basin).

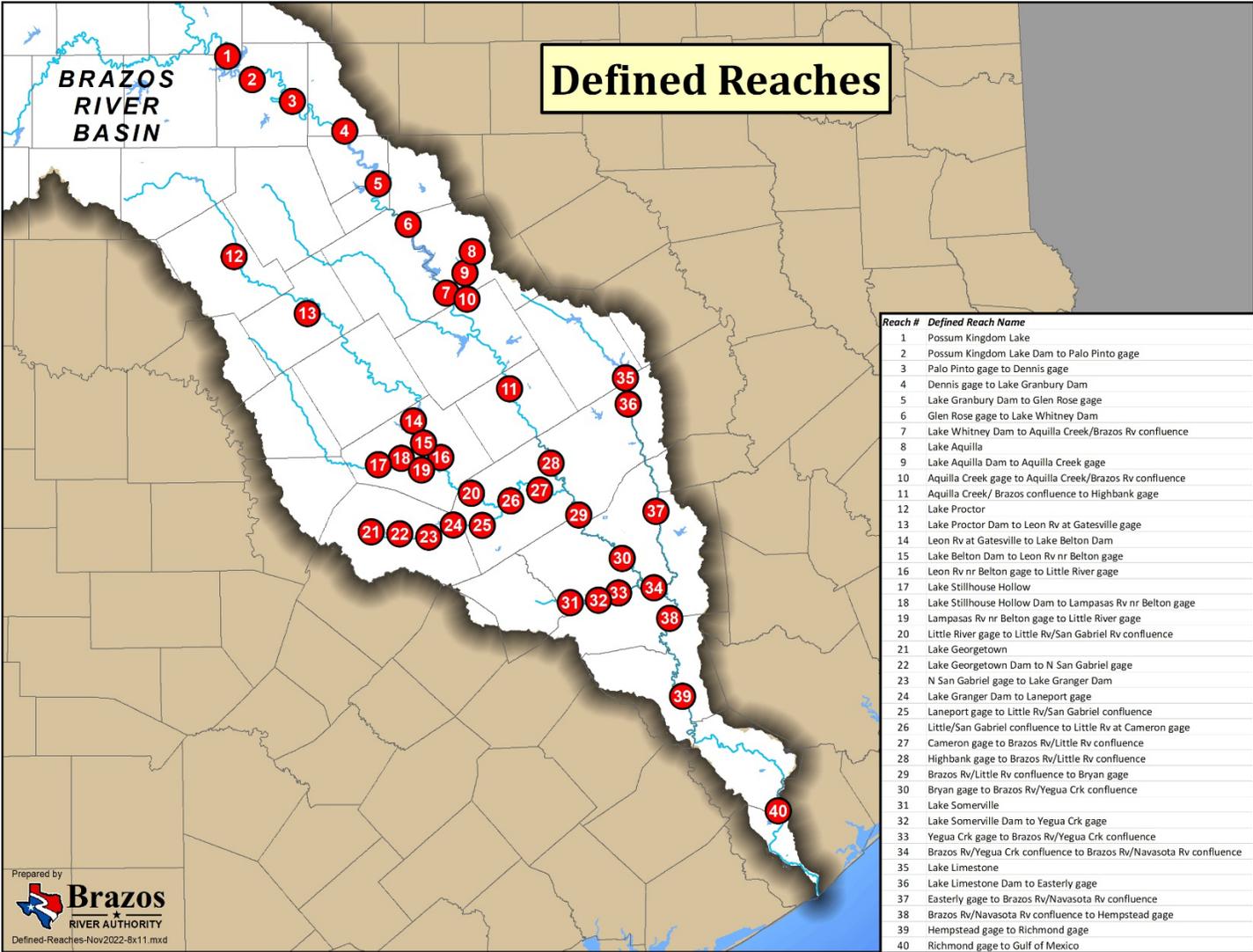
3 – Contract extension/renewal is contingent on water availability and provisions outlined in the customer's contract related to renewal and term limits at the time of the expiration date.

4 – This diversion location is located downstream of Lake Stillhouse Hollow and water is supplied through releases from Lake Stillhouse Hollow.

5 – BRA reserves this water for treated water needs from its East Williamson County Regional Water Treatment System (EWCWTS). Treated water customers at EWCWTS include the City of Taylor, Jonah Water SUD, and Lonestar Regional Water Authority.

6 – BRA agreement with the City of Lubbock for the firm yield impacts to Possum Kingdom Lake from Lake Alan Henry, perpetual terms.

7 – This diversion location is located downstream of Lake Belton and water is assumed to be supplied through releases from Lake Belton.



Defined Reaches

**BRAZOS
RIVER
BASIN**

Reach #	Defined Reach Name
1	Possum Kingdom Lake
2	Possum Kingdom Lake Dam to Palo Pinto gage
3	Palo Pinto gage to Dennis gage
4	Dennis gage to Lake Granbury Dam
5	Lake Granbury Dam to Glen Rose gage
6	Glen Rose gage to Lake Whitney Dam
7	Lake Whitney Dam to Aquilla Creek/Brazos Rv confluence
8	Lake Aquilla
9	Lake Aquilla Dam to Aquilla Creek gage
10	Aquilla Creek gage to Aquilla Creek/Brazos Rv confluence
11	Aquilla Creek/ Brazos confluence to Highbank gage
12	Lake Proctor
13	Lake Proctor Dam to Leon Rv at Gatesville gage
14	Leon Rv at Gatesville to Lake Belton Dam
15	Lake Belton Dam to Leon Rv nr Belton gage
16	Leon Rv nr Belton gage to Little River gage
17	Lake Stillhouse Hollow
18	Lake Stillhouse Hollow Dam to Lampasas Rv nr Belton gage
19	Lampasas Rv nr Belton gage to Little River gage
20	Little River gage to Little Rv/San Gabriel Rv confluence
21	Lake Georgetown
22	Lake Georgetown Dam to N San Gabriel gage
23	N San Gabriel gage to Lake Granger Dam
24	Lake Granger Dam to Laneport gage
25	Laneport gage to Little Rv/San Gabriel confluence
26	Little/San Gabriel confluence to Little Rv at Cameron gage
27	Cameron gage to Brazos Rv/Little Rv confluence
28	Highbank gage to Brazos Rv/Little Rv confluence
29	Brazos Rv/Little Rv confluence to Bryan gage
30	Bryan gage to Brazos Rv/Yegua Crk confluence
31	Lake Somerville
32	Lake Somerville Dam to Yegua Crk gage
33	Yegua Crk gage to Brazos Rv/Yegua Crk confluence
34	Brazos Rv/Yegua Crk confluence to Brazos Rv/Navasota Rv confluence
35	Lake Limestone
36	Lake Limestone Dam to Easterly gage
37	Easterly gage to Brazos Rv/Navasota Rv confluence
38	Brazos Rv/Navasota Rv confluence to Hempstead gage
39	Hempstead gage to Richmond gage
40	Richmond gage to Gulf of Mexico

APPENDIX D

Board Resolution Adopting Agricultural Water Pricing Policy



Brazos River Authority

**RESOLUTION OF THE BOARD OF DIRECTORS OF
THE BRAZOS RIVER AUTHORITY
JULY 27-28, 2009**

**Agenda Item 19
Plan for Pricing Water for Agricultural Use**

"BE IT RESOLVED by the Board of Directors of the Brazos River Authority that it recognizes the different economics between customers of Brazos River Authority System Water solely for Agricultural Uses, and other users of System Water; and

BE IT FURTHER RESOLVED that there are System Water and Interruptible Water customers whose use of the Brazos River Authority's water is for Agriculture as defined in the State of Texas Water Code, Chapter 11; and

BE IT FURTHER RESOLVED that the Agriculture Rate shall be an amount equal to Seventy Percent (70%) of the System Rate for each Fiscal Year and shall be offered to System Water and Interruptible Water customers that meet the definitions contained within this Resolution; and

BE IT FURTHER RESOLVED that the Agriculture Rate shall be adopted every subsequent Fiscal Year concurrent with the adoption of the Annual Budget and the System Rate for that Fiscal Year."

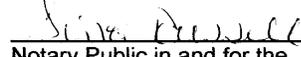
The aforementioned resolution was approved by the Board of Directors of the Brazos River Authority on **July 27, 2009**, to certify which witness my hand and seal.



Christopher DeCluitt
Presiding Officer

SUBSCRIBED AND SWORN TO BEFORE ME on this the 28th day of July, 2009, to certify which witness my hand and official seal.





Notary Public in and for the
State of Texas