



**DROUGHT CONTINGENCY PLAN
FOR
GUADALUPE-BLANCO RIVER
AUTHORITY**

July 17, 2019

flowing solutions

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**DROUGHT CONTINGENCY PLAN
FOR THE
GUADALUPE-BLANCO RIVER AUTHORITY (GBRA)
April 16, 2014**

Section 1.0 Declaration of Policy, Purpose, and Intent

In order to conserve the available water supply, to protect the integrity of water supply facilities, with particular regard 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 shortage or other water supply emergency conditions and to protect environmental flows, the Guadalupe-Blanco River Authority (GBRA) adopts the following revised version of its Drought Contingency Plan (the Plan). This Plan applies to Canyon Reservoir stored water, GBRA's hydroelectric lakes and run-of-river water rights associated with the GBRA Luling water rights and lower basin water rights.

Section 2.0 Public Involvement

Opportunity for the public to provide input into this Plan is being provided by GBRA by means of a notice and a copy of the Plan posted on the GBRA website (www.gbra.org). A copy of the Plan is made available to all GBRA water supply customers for their comment, review and guidance. This Plan was adopted by the GBRA Board of Directors on July 17, 2019. Amendments or updates to this Plan will be done in open session of the GBRA Board of Directors Meeting that meets on the third Wednesday of every month. If any changes are made to the Plan, a copy of those changes will be made available to all customers.

Section 3.0 Wholesale Water Customer Education

GBRA will periodically provide wholesale water customers with information about the Plan, including information about the conditions under which each stage of the Plan is to be initiated or terminated and the drought response measures to be implemented in each stage. This information will be provided by means of: 1) A copy of the Plan will be made available to all of GBRA water supply customers for their comment, review, and guidance. Notice of any changes to the Plan will be provided to all customers. 2) If any drought stage is initiated, GBRA will notify all customers indicating the particular stage and the actions it requires. 3) GBRA will continue to forward copies of educational materials, as they become available, to its customers.

Section 4.0 Coordination with Regional Water Planning Groups

The water service area of GBRA is located within the South Central Texas Region, (L). A copy of the Plan will be made available to all members of the South Central Texas Region group for their review and comment.

Section 5.0 Authorization

The GBRA General Manager, or his/her designee, is hereby authorized and directed to implement

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

Section 6.0 Application

The provisions of this Plan shall apply to all customers utilizing wholesale water provided by GBRA and to all persons taking water from GBRA's hydroelectric lakes. The terms "person" and "customer" as used in the Plan include individuals, corporations, partnerships, associations, and all other legal entities.

Section 7.0 Definitions

"Call" on water: customers request the release of water purchased from storage in Canyon Reservoir on an as-needed basis to meet periodic or drastic low-flow conditions.

Conservation: those practices, techniques, and technologies that reduce the consumption of water, reduce the loss or waste of water, improve the efficiency in the use of water or increase the recycling and reuse of water so that a supply is conserved and made available for future or alternative uses.

Conservation Pool: water level in Canyon Reservoir between 800 feet mean sea level and normal operating elevation of 909 feet mean sea level in which GBRA has management responsibility and release.

Customer: individuals, corporations, partnerships, associations and all other legal entities utilizing water provided by GBRA from storage in Canyon Reservoir and persons taking water from GBRA's hydroelectric lakes.

Domestic water use: water use for personal needs or for household or sanitary purposes such as drinking, bathing, heating, cooking, sanitation, or for cleaning a residence, business, industry, or institution.

Drought of Record: the worst recorded drought since compilation of meteorologic and hydrologic data began. In terms of severity and duration, the drought of the 1950s is considered the drought of record in the Guadalupe River Basin.

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

Firm Yield: amount of water that should be considered available throughout a drought as severe as the Drought of Record.

Non-essential Water Use: water uses that are not essential, nor required for the protection of public, health, safety, and welfare, including:

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

Odd numbered address: street addresses, box numbers, or rural postal route numbers ending in 1, 3, 5, 7, or 9 and locations without addresses.

Stored Water: water that is contained within the conservation pool of Canyon Reservoir and that GBRA has responsibility and release of under a water right granted by the Texas Commission on Environmental Quality.

TCEQ South Texas Watermaster (STWM): program that oversees the surface-water system of rivers and tributaries in a 50-county area in south central Texas; allow diversions as water is available and as it passes individual diversion points.

Section 8.0 Scope

GBRA supplies wholesale water to customers in its' service area through Certificates of Adjudication issued by the Texas Commission on Environmental Quality (TCEQ) authorizing the storage of firm water supply in Canyon Reservoir and run-of-river diversions at multiple locations in the Guadalupe River Basin. The scope of the Drought Contingency Plan must adhere to the findings of TCEQ's adjudication of GBRA's water rights.

The scope of the Drought Contingency Plan is limited to the curtailment of firm water supplies to insure that there is sufficient firm, uninterrupted water to meet projected demands for such water and to protect the environmental flows through a repetition of the Drought of Record. Firm, stored water is subject to curtailment only if it is determined that the drought in effect is worse than the Drought of Record.

In times of shortage of supply caused by drought or emergency, the TCEQ's South Texas Watermaster will determine when water rights holders must reduce or stop diversions of run-of-

river water. GBRA, in accordance with Section 11.039 of the Texas Water Code, will curtail and distribute the available supply or run-of-river water among its water supply customers on a pro rata basis, so that preference is given to no one and all interruptible water supply customers suffer alike.

Section 9.0 Canyon Dam and Reservoir Operation

Canyon Dam and Reservoir was completed in 1964 as a cooperative project that is jointly managed by GBRA and the U.S. Army Corps of Engineers. GBRA is responsible for reservoir water management and release within the “conservation pool”, between 800 feet mean sea level (msl) and the normal operating elevation of 909 msl.

Canyon Reservoir delivers water to customers on a firm yield basis. GBRA has determined, based upon hydrologic and other studies performed by or for GBRA, the amount of stored water from Canyon Reservoir that can be committed and reserved by GBRA on a “firm” basis, meaning the amount that should be considered to be available throughout a drought as severe as the drought that occurred in the 1950’s (also referred to as the “Drought of Record”). GBRA will review such studies and perform additional studies from time to time, and it will not commit to supply to its customers at any time a total amount of stored water on a firm basis in excess of the total amount determined by GBRA at that time that should be considered to be firm. However, reasonable conservation requirements under this Plan and other plans may be imposed at any time, including during periods of normal or wet climatic conditions, and curtailments of stored water may be triggered under this Plan during any severe drought, even if that drought is determined to be less severe than the Drought of Record. Curtailments of stored water may also be triggered under this Plan because of some other condition that significantly reduces the available firm water supply.

GBRA has developed a procedure for identifying a drought worse than the Drought of Record for Canyon Lake watershed. The GBRA Board of Directors will declare a drought worse than the Drought of Record when the following three conditions are simultaneously met: (a) drought at least 24 months (24 months since Canyon Reservoir was last full – 909’ msl); and (b) the cumulative inflow deficit since the beginning of the drought exceeds the envelope curve for cumulative inflow deficits by at least 5% for six consecutive months and (c) the storage of Canyon Reservoir is less than elevation 885’ msl (213,386 acre-feet or approximately 56% full). Historical inflow data for the contributing watershed of Canyon Lake was used in the development of this procedure.

Canyon Reservoir supplies stored water to cities, industries, and agricultural users under a permit issued by the Texas Commission on Environmental Quality (TCEQ). To many users Canyon storage is their sole source of water. These customers rely on daily releases of stored water to meet their demands. For others, Canyon Reservoir provides a dependable source of water during drought conditions and low river flows. These customers “call” for the release of stored water on an as-needed basis to meet periodic or drastic low-flow conditions.

With TCEQ’s approval, GBRA can contract for stored water that will provide for an average annual use of stored water from Canyon, with a special condition that a greater maximum quantity of stored water can be used during any one critical year. This way the use of stored water is

minimized, and an adequate water supply is available during short-term droughts. This is an example of the benefits of reservoir averaging.

Section 9.1 Triggering Criteria for Initiation and Termination of Drought Response Stages for Canyon Reservoir

The General Manager, or his/her designee, shall monitor water supply and/or demand conditions on a weekly basis and shall determine when conditions warrant initiation or termination of each stage of the Plan. Customer notification of the initiation or termination of drought response stages will be made by mail, fax, or telephone. The news media will also be informed.

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

Stage 1 - Mild Water Shortage Conditions

Requirements for initiation - GBRA will recognize that a mild water shortage condition exists when:

Water in storage in Canyon Reservoir is equal to or less than elevation 895 feet msl (274,800 acre-feet or approximately 72.5% full).

Requirements for termination - Stage I of the Plan may be rescinded when Canyon Reservoir returns to elevation 895 feet msl or greater for a period of 30 consecutive days. GBRA will notify its wholesale customers and the media of the termination of Stage I in the same manner as the notification of initiation of Stage 1 of the Plan.

Stage 2 - Moderate Water Shortage Conditions

Requirements for initiation - GBRA will recognize that a moderate water shortage condition exists when:

Water in storage in Canyon Reservoir is equal to or less than 890 feet msl (242,872 acre-feet or approximately 64% full).

Requirements for termination - Stage 2 of the Plan may be rescinded when Canyon Reservoir returns to elevation 890 feet msl or greater for a period of 30 consecutive days. Upon termination of Stage 2, Stage 1 becomes operative. GBRA will notify its wholesale customers and the media of the termination of Stage 2 in the same manner as the notification of initiation of Stage 2 of the Plan.

Stage 3 - Severe Water Shortage Conditions

Requirements for initiation - GBRA will recognize that a severe water shortage condition

exists when:

Water in storage in Canyon Reservoir is equal to or less than 885 feet msl (213,386 acre-feet or approximately 56% full).

Requirements for termination - Stage 3 of the Plan may be rescinded when Canyon Reservoir returns to elevation 885 feet msl or greater for a period of 30 consecutive days. Upon termination of Stage 3, Stage 2 becomes operative. GBRA will notify its wholesale customers and the media of the termination of Stage 3 in the same manner as the notification of initiation of Stage 3 of the Plan.

Stage 4 - Emergency Water Shortage Conditions

Requirements for initiation - GBRA will recognize that an emergency water shortage condition exists when:

1. Mechanical or system failures occur, which cause unprecedented loss of capability to provide water service.
2. Natural or man-made contamination of the water supply source(s) occurs.
3. A drought of greater severity than the Drought of Record occurs. The GBRA Board of Directors will declare a drought worse than the Drought of Record when the following three conditions are simultaneously met: (a) drought at least 24 months (24 months since Canyon Reservoir was last full – 909' msl); and (b) the cumulative inflow deficit since the beginning of the drought exceeds the envelope curve for cumulative inflow deficits by at least 5% for six consecutive months and (c) the storage of Canyon Reservoir is less than elevation 885' msl (213,386 acre-feet or approximately 56% full).

Requirements for termination - Except for a drought of greater severity than the Drought of Record, Stage 4 of the Plan may be rescinded when all of the conditions listed as triggering events have ceased to exist for a period of 30 consecutive days. The GBRA Board of Directors will cancel a declaration of a drought worse than the Drought of Record if any of the following conditions are met: (a) the cumulative inflow deficit since the beginning of the drought is less than the envelope curve for cumulative inflow deficits by at least 5% for six consecutive months; or (b) the storage of Canyon Reservoir is greater than elevation 890' msl (242,872 acre-feet or approximately 64% full). GBRA will notify its wholesale customers and the media of the termination of Stage 4 of the Plan.

Section 9.2 Drought Response Stages for Canyon Reservoir

The General Manager, or his/her designee, shall monitor water supply and/or demand conditions and, in accordance with the triggering criteria for Canyon Reservoir set forth in Section 9.1 shall determine that mild, moderate, or severe water shortage conditions exist or that an emergency condition exists and shall implement the following actions:

Stage 1 - Mild Water Shortage Conditions

Goal: achieve a voluntary 5 percent reduction in comparison to the average monthly usage of contracted water from storage for that time period of the calendar year.

Supply Management Measures: In order to manage limited water supplies and/or reduce water demand during a mild water shortage condition, the General Manager, or his/her designee(s), will implement one or a combination of the following:

- 1) Contact USGS to confirm calibration and operation of all applicable stream gages.
- 2) Coordinate review of water use with the TCEQ's South Texas Watermaster (STWM). In times of shortage of supply caused by drought or emergency, the STWM will determine when water rights holders must reduce or stop diversions.
- 3) Implement water delivery procedures to improve efficiency of the delivery of water from storage.

Demand Management Measures:

- 1) The General Manager, or his/her designee(s), will contact wholesale water customers to discuss water supply and/or demand conditions and will request that wholesale water customers initiate voluntary measures to reduce water use .
- 2) The General Manager, or his/her designee(s), will provide a weekly report to news media with information regarding current water supply and/or demand conditions, projected water supply and demand conditions if drought conditions persist, and consumer information on water conservation measures and practices.

Stage 2 - Moderate Water Shortage Conditions

Goal: achieve a voluntary 10 percent reduction in comparison to the average monthly usage of contracted water from storage for that time period of the calendar year.

Supply Management Measures: In order to manage limited water supplies and/or reduce water demand during a moderate water shortage condition, the General Manager, or his/her designee(s), will implement one or a combination of the following:

- 1) Contact USGS to confirm calibration and operation of all applicable stream gages.
- 2) Coordinate review of water use with the TCEQ's STWM. In times of shortage of supply caused by drought or emergency, the STWM will determine when water rights holders must reduce or stop diversions.
- 3) Implement water delivery procedures to improve efficiency of the delivery of water from storage.

Demand Management Measures:

- 1) The General Manager, or his/her designee(s), will initiate weekly contact with wholesale water customers to discuss water supply and/or demand conditions and the possibility of pro rata curtailment of water diversions and/or deliveries as specified in Section 9.3.
- 2) The General Manager or his/her designee(s) will request wholesale water customers to initiate mandatory measures to reduce non-essential water use.
- 3) The General Manager, or his/her designee(s), will initiate preparations for the implementation of pro rata curtailment of water diversions and/or deliveries by preparing a monthly water usage allocation baseline for each wholesale customer according to the procedures specified in Section 9.3 of the Plan.
- 4) The General Manager, or his/her designee(s), will provide a weekly report to news media with information regarding current water supply and/or demand conditions, projected water supply and demand conditions if drought conditions persist, and consumer information on water conservation measures and practices.

Stage 3 - Severe Water Shortage Conditions

Goal: achieve a voluntary 15 percent reduction in comparison to the average monthly usage of contracted water from storage for that time period of the calendar year.

Supply Management Measures: In order to manage limited water supplies and/or reduce water demand during a severe water shortage condition, the General Manager, or his/her designee(s), will implement one or a combination of the following:

- 1) Contact USGS to confirm calibration and operation of all applicable stream gages.
- 2) Coordinate review of water use with the TCEQ's STWM. In times of shortage of supply caused by drought or emergency, the STWM will determine when water rights holders must reduce or stop diversions.
- 3) Implement water delivery procedures to improve efficiency of the delivery of water from storage.

Demand Management Measures:

- 1) The General Manager, or his/her designee(s), will contact wholesale water customers to discuss water supply and/or demand conditions and will request that wholesale water customers initiate additional mandatory measures to reduce non-essential water use.
- 2) The General Manager, or his/her designee(s), will initiate pro rata curtailment of water diversions and/or deliveries for each wholesale customer according to the procedures specified in Section 9.3 of the Plan.

- 3) The General Manager, or his/her designee(s), will provide a weekly report to news media with information regarding current water supply and/or demand conditions, projected water supply and demand conditions if drought conditions persist, and consumer information on water conservation measures and practices.

Stage 4 - Emergency Water Shortage Conditions

Whenever emergency water shortage conditions exist as defined in Section 9.1 of the Plan, the General Manager shall:

1. Assess the severity of the problem and identify the actions needed and time required to resolve the problem.
2. Inform the utility director or other responsible official of each wholesale water customer by telephone or in person and suggest actions, as appropriate to alleviate problems.
3. If appropriate, notify city, county, and/or state emergency response officials for assistance.
4. Undertake necessary actions, including repairs and/or clean-up as needed.
5. Prepare a post-event assessment report on the incident and critique of emergency response procedures and actions.

Section 9.3 Pro Rata Water Allocation for Canyon Reservoir

In the event that the triggering criteria for Canyon Reservoir specified in Section 9.1 of the Plan for Stage 4 — Emergency Water Shortage Conditions have been met, the General Manager is hereby authorized to initiate allocation of water supplies on a pro rata basis in accordance with Texas Water Code Section 11.039 and according to the following water allocation policies and procedures:

1. A wholesale customer's allocation for water from storage shall be based on the customer's average monthly use of contracted water from storage for that time period of the calendar year. The percentage will be set by resolution of the Board of Director's of GBRA based on the General Manager's assessment of the severity of the water shortage condition and the need to curtail water diversions and/or deliveries and may be adjusted periodically by resolution of the Board of Director's of GBRA as conditions warrant. Once pro rata allocation is in effect, water diversions by or deliveries to each wholesale customer shall be limited to the allocation established for each month.
2. The General Manager shall provide notice, by certified mail, to each wholesale customer informing them of their water usage allocations and shall notify the news media and the executive director of the Texas Commission on Environmental

Quality upon initiation of pro rata water allocation.

3. Upon request of the customer or at the initiative of the General Manager, the allocation may be reduced or increased if, (1) the designated period does not accurately reflect the wholesale customer's average monthly use of contracted water from storage for that time period of the calendar year; (2) the customer with approval from GBRA agrees to transfer part of its allocation to another wholesale customer; or (3) other objective evidence demonstrates that the designated allocation is inaccurate under present conditions. A customer may appeal an allocation established hereunder to the Board of Directors of GBRA.

Section 10.0 Hydroelectric Lakes

CRITICAL PERIOD STAGES

The following critical period stages applies to the diversion of water other than contracted stored water that diverts and uses water from any of the GBRA Hydroelectric Lakes including:

Lake Dunlap	Comal/Guadalupe County
Lake McQueeney	Guadalupe County
Lake Placid	Guadalupe County
Lake Nolte	Guadalupe County
H4 (Lake Gonzales)	Gonzales County
H5 (Lake Wood)	Gonzales County

When the level of the spring flow rate from the Comal Springs, when measured at the Comal River, reaches the following levels:

Stage I

Applies on any day following a day when the average twenty-four (24) hour spring flow rate is **at or below 250 cfs, but greater than 200 cfs.**

When Stage I is in effect, the following restrictions apply:

1. No person may waste water, including allowing irrigation tailwater or water from vehicle washing at a residence to escape from that person's property.
2. No person may use water to wash an impervious outdoor ground covering such as a parking lot, driveway, street or sidewalk unless for health or safety reasons.
3. No person may use water for landscape watering between the hours of 10 a.m. and 8 p.m. However, landscape watering by means of a bucket, hand-held or soaker hose, or a properly installed drip irrigation system is permitted at any time. This subsection does not apply to reclaimed, reuse or recycled water.

4. Every person who owns or has possession of a swimming pool must cover the pool with an effective evaporation cover, screen or shield covering at least 25 percent of the surface of the pool when the pool is not in active use. Active use includes necessary maintenance that requires removal of the cover, screen or shields. Active use of public, commercial and apartment pools is whenever the pool is not officially closed.
5. No person may wash a vehicle at other than a commercial vehicle wash facility except on Monday and Friday, before 10 a.m. and after 8 p.m. Such washing must be done on a lawn or other pervious surface using a bucket or hand-held hose with an automatic shutoff nozzle.

Stage II

Applies on any day following a day when the average twenty-four (24) hour spring flow rate is **at or below 200 cfs, but greater than 150 cfs.**

When Stage II is in effect, the following restrictions apply:

1. All of the prohibitions applicable in Stage I apply in Stage II, except to the extent replaced by more restrictive conditions imposed by this stage.
2. Landscape watering is prohibited between 10 a.m. and 8 p.m., and is further restricted such that properties with an odd numbered address may landscape water only on Mondays, Wednesdays and Fridays and properties with an even numbered address may landscape water only on Tuesdays, Thursdays and Saturdays. However, landscape watering by means of a bucket, hand-held or soaker hose, or a properly installed drip irrigation system is permitted at any time. This subsection does not apply to reclaimed, recycled or reuse water.
3. No person may use water for an ornamental outdoor fountain or similar feature, unless the water is recycled and the only additional water used is to compensate for evaporative losses.
4. No person may wash a vehicle at other than a commercial vehicle wash facility except over a pervious surface area, during the above designated watering days and times with a hand-held hose with automatic shutoff nozzle or using a bucket.

The penalty for wasting water or any violation of Stage II restrictions as determined by the GBRA General Manager, or his designee, is \$100 per day per violation.

Stage III

Applies on any day following a day when the average twenty-four (24) hour spring flow rate is **at or below 150 cfs, but greater than 100 cfs.**

When Stage III is in effect, the following restrictions apply:

1. All of the prohibitions applicable in Stages I and II apply in Stage III, except to the extent replaced by more restrictive conditions imposed by this stage.
2. Landscape watering is prohibited between the hours of 10 a.m. and 8 p.m. and is further restricted such that properties with an odd numbered address may landscape water on Mondays and Fridays, and those with an even numbered address may landscape water on Tuesdays and Saturdays. However, landscape watering by means of a bucket, hand-held hose or soaker hose, or a properly-installed drip irrigation system is permitted at any time. This subsection does not apply to reclaimed, recycled or reuse water.
3. No person may use water for an ornamental outdoor fountain or similar feature.
4. No person may wash a vehicle at other than a commercial vehicle wash facility except over a pervious surface area, during the above designated watering days and times with a hand-held hose with automatic shut-off nozzle or using a bucket.

The penalty for wasting water or any violation of Stage III restrictions, as determined by the GBRA General Manager, or his designee, is \$100 - \$200 per day per violation.

Stage IV

Applies on any day following a day when the average twenty-four (24) hour spring flow rate is **at or below 100 cfs, but greater than 50 cfs.**

When Stage IV is in effect, the following restrictions apply:

1. All of the prohibitions applicable in Stages I, II and III apply in Stage IV, except to the extent replaced by more restrictive conditions imposed by this stage.
2. Landscape watering is prohibited between the hours our 10 a.m. and 8 p.m. and is further restricted such that properties with an odd numbered address may landscape water on Mondays while those with an even numbered address may landscape water on Tuesdays. However, landscape watering by means of a bucket, hand-held hose or soaker hose or a properly installed drip irrigation system is permitted during the hours allotted for watering. This subsection does not apply to reclaimed, recycled or reuse water.
3. Filling of new and existing pools is prohibited unless at least 30 percent of the water is obtained from a source other than the GBRA hydroelectric lakes. Water may be used to replenish swimming pools to maintenance levels. Drainage of swimming pools is permitted only onto a pervious surface, or onto a pool deck where the water is transmitted directly to a pervious surfaced, only if necessary to:
 - a. Remove excess water from the pool due to rain in order to lower the water to the maintenance level;

- b. Repair, maintain, or replace a pool component which has become hazardous; or
 - c. Repair a pool leak.
- 4. Washing of vehicles is prohibited at other than a commercial vehicle wash facility.

The penalty for wasting water or any violation of Stage IV restrictions, as determined by the GBRA General Manager, or his designee, is \$100 - \$500 per day per violation.

Stage V

Applies on any day following a day when the average spring flow rate is **at or below 50 cfs.**

When Stage V takes effect an emergency condition exists and the GBRA General Manager shall convene an emergency session of the GBRA Board of Directors to consider emergency rules to further restrict uses or other appropriate action.

Termination of Restrictions

The GBRA General Manager, or his/her designee, may terminate the restrictions of a Stage when the condition listed as the triggering event for such Stage has ceased to exist for a period of thirty (30) consecutive days. Upon termination of the restrictions of the applicable Stage, the restrictions of the prior Stage become operative.

Section 11.0 GBRA Luling Water Rights and Operations

The GBRA Luling Water Rights authorize run-of-the-river diversion from the San Marcos River just upstream of Zedler Mill Dam in Luling. The majority of the flow in the San Marcos River at Luling is derived from spring flow of the San Marcos Springs with limited amounts of water contributed by the Blanco River, especially during the summer. GBRA pumps raw water from the San Marcos River to the GBRA Luling Water Treatment plant, which delivers treated water on a wholesale basis to both the City of Luling and the City of Lockhart. Water is delivered to Lockhart through almost 15 miles of 14" pipeline.

Section 11.1 Triggering Criteria for Initiation and Termination of Drought Response Stages for Luling Water Rights

The General Manager, or his/her designee, shall monitor water supply and/or demand conditions on a weekly basis and shall determine when conditions warrant initiation or termination of each stage of the Plan. Customer notification of the initiation or termination of drought response stages will be made by email, mail, or telephone. The news media will also be informed.

The triggering criterion to be monitored for determining drought response stages are the demand for treated water delivered to the Cities of Lockhart and Luling, the flow past the Zedler Dam in Luling as measured by the USGS Gauge #08172000, and the flow of the Guadalupe River over

the GBRA Saltwater Barrier and Diversion Dam. These criteria were selected based upon reviewing historical water treatment plant demands and provisions contained within the water rights used to divert water from the San Marcos River.

Stage 1 – Mild Water Shortage Condition

Requirements for initiation – GBRA will recognize that a mild water shortage condition exists when water production at the GBRA Luling Water Treatment Plant for the City of Luling (not including the City of Lockhart demands) equals 2.5 MGD or greater for seven (7) consecutive days or when the average daily flow drops below 130 cfs at USGS Gauging Station #081720000.

Requirement for termination – Stage 1 of the Plan may be rescinded when the conditions listed as triggering events have ceased to exist for a period of 30 consecutive days. GBRA will notify its wholesale customers and the media of the termination of Stage 1 in the same manner as the notification of initiation of Stage 1 of the Plan.

Stage 2 – Moderate Water Shortage Condition

Requirements for initiation – GBRA will recognize that a moderate water shortage condition exists when the average daily flow drops below 80 cfs at USGS Gauging Station #08172000.

Requirement for termination – Stage 2 of the Plan may be rescinded when the conditions listed as triggering events have ceased to exist for a period of 30 consecutive days (i.e., the flow at USGS Gauging Station #08172000 is greater than 80 cfs for 30 consecutive days). Upon termination of Stage 2, Stage 1 becomes operative, unless the trigger criteria for Stage 1 have not been met. GBRA will notify its wholesale customers and the media of the termination of Stage 2 in the same manner as the notification of initiation of Stage 1 of the Plan.

Stage 3 – Severe Water Shortage Condition

Requirements for initiation – GBRA will recognize that a severe water shortage condition exists when the average daily flow drops below 40 cfs at USGS Gauging Station #08172000.

Requirement for termination – Stage 3 of the Plan may be rescinded when the conditions listed as triggering events have ceased to exist for a period of 30 consecutive days. Upon termination of Stage 3, Stage 2 becomes operative. GBRA will notify its wholesale customers and the media of the termination of Stage 3 in the same manner as the notification of initiation of Stage 1 of the Plan.

Stage 4 – Emergency Water Shortage Condition

Requirements for initiation – GBRA will recognize that an emergency water shortage condition exists when any of the following occur:

- 1) A major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service; or
- 2) Natural or man-made contamination of the water supply source occurs.
- 3) Water ceases to flow past the Zedler Dam located in Luling, Caldwell County, Texas.

Requirement for termination – The emergency water shortage condition may be rescinded when the General Manager or his/her designee deems appropriate. GBRA will notify its wholesale customers and the media of the termination of the emergency shortage condition in the same manner as the notification of initiation of Stage 1 of the Plan.

Section 11.2 Drought Response Stages for Luling Water Rights

The General Manager, or his/her designee, shall monitor water supply and/or demand conditions and, in accordance with the triggering criteria set forth in Section 11.1, shall determine that mild, moderate, or severe water shortage conditions exist or that an emergency condition exists and shall implement the following actions:

Stage 1 – Mild Water Shortage Conditions

Target: Achieve a voluntary 5 percent reduction in daily water demand for each retail utility utilizing the GBRA Luling Water Treatment Plant.

Best Management Practices for Supply Management:

- 1) GBRA will encourage each wholesale water customer to utilize alternative water sources such as interconnections with another water system, groundwater, temporary use of a non-municipal water supply, use of reclaimed water for non-potable purposes, etc.
- 2) The City of Luling has priority on water produced by the WTP up to 2.5 MGD. Water produced in excess of the needs of the City of Luling is delivered to the City of Lockhart. As Luling demand increases, water supplied to Lockhart will be reduced. The Chief Operator will notify the GBRA Division Manager for Hays and Caldwell Counties and the GBRA Lockhart Operations Manager of the reduction of available water to Lockhart and the Lockhart Operations Manager will cause increased production from the City of Lockhart groundwater system to supply adequate water to meet demand within the Lockhart distribution system. The Lockhart Operations Manager will notify the Public Works Director of the City of Lockhart of the decrease in water from the Luling WTP and the need to increase production from the groundwater system.

Water Use Restrictions for Reducing Demand:

- 1) The General Manager, or his/her designee(s), will contact wholesale water customers to discuss water supply and/or demand conditions and will request that wholesale water customers initiate voluntary measures to reduce water use (e.g. implement Stage 1 of the customer's drought contingency plan).
- 2) The General Manager, or his/her designee(s), will provide a weekly report to the news media with information regarding current water supply and/or demand conditions, projected water supply and demand conditions if drought conditions persist, and consumer information on water conservation measures and practices.

Stage 2 – Moderate Water Shortage Conditions

Target: Achieve a 10 percent reduction in daily water demand for each retail utility utilizing the GBRA Luling Water Treatment Plant.

Best Management Practices for Supply Management:

GBRA will encourage each wholesale water customer to utilize alternative water sources such as interconnections with another water system, groundwater, temporary use of a non-municipal water supply, use of reclaimed water for non-potable purposes, etc.

Water Use Restrictions for Reducing Demand:

- 1) The General Manager, or his/her designee(s), will initiate weekly contact with wholesale water customers to discuss water supply and/or demand conditions and the possibility of pro rata curtailment of water diversions and/or deliveries.
- 2) The General Manager, or his/her designee(s), will request wholesale water customers to initiate mandatory measures to reduce non-essential water use (e.g. implement Stage 2 of the customer's drought contingency plan).
- 3) The General Manager, or his/her designee(s), will initiate preparations for the implementation of pro rata curtailment of water diversions and/or deliveries by preparing a monthly water usage allocation baseline for each wholesale customer according to procedures specified in Section 11.3 of the Plan.
- 4) The General Manager, or his/her designee(s), will provide a weekly report to the news media with information regarding current water supply and/or demand conditions, projected water supply and demand conditions if drought conditions persist, and consumer information on water conservation measures and practices.

Stage 3 – Severe Water Shortage Conditions

Target: Achieve a 15 percent reduction in daily water demand for each retail utility utilizing the GBRA Luling Water Treatment Plant.

Best Management Practices for Supply Management:

- 1) GBRA will encourage each wholesale water customer to utilize alternative water sources such as interconnections with another water system, groundwater, temporary use of a non-municipal water supply, use of reclaimed water for non-potable purposes, etc.
- 2) If flow drops below 40 cfs at the USGS Gauging Station #08172000, the GBRA Chief Engineer will notify the Division Manager for Hays and Caldwell Counties. The Division Manager will consult with GBRA staff to determine at what minimal rate the WTP can divert water and maintain minimum required flow at the USGS Gauging Station #08172000. The GBRA Luling WTP Chief Operator will cause the water treatment plant to operate at the reduced rate and the Division Manager will inform the Public Works Directors of Lockhart and Luling of the reduced production rate.

Water Use Restrictions for Reducing Demand:

- 1) The General Manager, or his/her designee(s), will contact wholesale water customers to discuss water supply and/or demand conditions and will request that wholesale water customers initiate additional mandatory measures to reduce non-essential water use (e.g. implement Stage 3 of the customer's drought contingency plan).
- 2) The General Manager, or his/her designee(s), will initiate pro rata curtailment of water diversions and/or deliveries for each wholesale customer according to the procedures specified in Section 11.3 of the Plan if deemed appropriate.
- 3) The General Manager, or his/her designee(s), will provide a weekly report to the news media with information regarding current water supply and/or demand conditions, projected water supply and demand conditions if drought conditions persist, and consumer information on water conservation measures and practices.

Stage 4 – Emergency Water Shortage Conditions

Whenever emergency water shortage conditions exist as defined in Section 11.1 of the Plan, the General Manager, or his/her designee(s), shall:

- 1) Assess the severity of the problem and identify the actions needed and the time required to solve the problem.
- 2) Inform the utility director or other responsible official of each wholesale water customer by telephone, email, or in person and suggest actions, as appropriate to alleviate problems (e.g., notification of the public to reduce water use until service is restored).

- 3) If appropriate, notify city, county, and/or state emergency response officials for assistance.
- 4) Undertake necessary actions, including repairs and/or clean-up as needed.
- 5) Prepare a post-event assessment report on the incident and critique of emergency response procedures and actions.

Section 11.3 Pro-Rata Allocation of GBRA Luling Water Rights

In the event that the triggering criteria specified in Section 11.1 of the Plan for Stage 3 - Severe Water Shortage Conditions have been met, the General Manager, or his/her designee(s), is hereby authorized to initiate allocation of water supplies on a pro rata basis in accordance with Texas Water Code Section 11.039. A provision will be included in every wholesale water contract entered into or renewed after adoption of the plan, including contract extensions, that in case of a shortage of water resulting from drought, the water to be distributed shall be divided in accordance with Texas Water Code §11.039.

Section 12.0 Lower Basin Water Rights and Operations

GBRA operates a raw water delivery system that consists of waterworks located on the Guadalupe River at river mile #10 near Tivoli, Texas called the Lower Guadalupe Diversion Dam and Salt Water Barrier (or Barrier herein) and a river outtake structure (immediately upstream of the Barrier) and, further, an open channel diversion system that transports water by gravity flow from the river waterworks utilizing a constructed channel, the streambeds of Goff and Hog Bayous, and large diameter pipes to a pumping station located on the Dow Chemical Company plant property near Seadrift, Texas. After lifting the water by pumping, the water continues to flow through an open canal system, with one branch of the system ending at the GBRA Port Lavaca Water Treatment Plant.

GBRA's Lower Basin Water Rights, some of which are jointly owned with Dow Chemical Company are a major source of raw water supply for industrial users in Calhoun and Victoria Counties. Raw water conveyed by the GBRA canal system is diverted for agricultural users for irrigation and for the Aransas National Wildlife Refuge for ecological purposes. The canal system ultimately conveys raw water to the GBRA Port Lavaca Water Treatment plant, which supplies treated drinking water to the City of Port Lavaca, a majority of the drinking water to the Port O'Connor Improvement District, and all of the drinking water to the GBRA Calhoun County Rural Water Supply System.

Water for GBRA's municipal customers is secured by the Lower Basin run-of-river water rights and backed up with contracts for stored water from Canyon Reservoir. If drought or demand conditions fully engage all of the available GBRA run-of-river water supply, and the water demand continues to increase, then the further water demand will be satisfied by Canyon stored water rights. The Water Supply Division of GBRA, in coordination with the STWM, will determine when these trigger demand points occur, and will inform all GBRA customers affected.

Section 12.1 Triggering Criteria for Initiation and Termination of Drought Response Stages for Lower Basin Water Rights

The General Manager, or his/her designee, shall monitor water supply and/or demand conditions on a weekly basis and shall determine when conditions warrant initiation or termination of each stage of the Plan. Customer notification of the initiation or termination of drought response stages will be made by email, mail, or telephone. The news media will also be informed by the GBRA.

Stage 1 - MILD Water Shortage Conditions

Requirements for initiation: Customers shall be requested to voluntarily conserve water and adhere to the prescribed restrictions on non-essential water uses, defined in Section 7.0, when flow over the top of the Salt Water Barrier (at river mile 10) is 6 inches or less for five consecutive days. The initiation of Stage 1 will also depend on the combined effect of two factors:

- 1) Demand of all GBRA and other permitted customers for surface water.
- 2) Available surface water flow from the Guadalupe River and its tributaries at river mile 10.

Requirements for termination: Stage 1 of the Plan may be rescinded when the condition listed as a triggering event (the operation of the Barrier to raise the pool level) ceases.

Stage 2 – MODERATE Water Shortage Conditions

Requirements for initiation: Customers shall be requested to comply with the requirements and restrictions on certain non-essential water uses defined in Section 7.0 of this Plan when Stage 1 conditions are active and in addition:

Sustained flow over the Barrier is not occurring. The initiation of Stage 2 will also depend on the combined effect of two factors:

- 1) Demand of all GBRA and other permitted customers for surface water.
- 2) Available surface water flow from the Guadalupe River and its tributaries at river mile 10.

Requirements for termination: Stage 2 of the Plan may be rescinded when the condition listed as a triggering event (no flow over the Barrier) ceases. Upon termination of Stage 2, Stage 1 becomes operative.

Stage 3 – SEVERE Water Shortage Conditions

Requirements for initiation: Customers shall be required to comply with the requirements and restrictions on certain non-essential water uses for Stage 3 of this Plan when Stage 2 conditions are active and in addition:

The release of stored water from Canyon Dam to meet customer demand in Calhoun County is being executed by GBRA, to supplement its run-of-river permitted supply available at the Barrier. Also, the General Manager may designate a Stage 3 trigger when voluntary actions by customers in Stage 2 are ineffective in reducing water usage.

The initiation of Stage 3 will depend on the combined effect of two factors:

- 1) Demand of all GBRA and other permitted customers for water from all sources.
- 2) Available surface water flow from the Guadalupe River and its tributaries at river mile 10.
- 3) Release of Canyon water for upstream customers.

Requirements for termination: Stage 3 of the Plan may be rescinded when the condition listed as a triggering event (the release of stored water for upstream customers from Canyon Dam) ceases. Upon termination of Stage 3, Stage 2 becomes operative.

Stage 4 – CRITICAL Water Shortage Conditions

Requirements for initiation: Customers shall be required to comply with the requirements and restrictions on certain non-essential water uses for Stage 4 of this Plan when Stage 3 conditions are active and in addition:

All municipal demand of GBRA customers in Calhoun County is being met by the permitted release of stored water in Canyon Dam.

The initiation of Stage 4 will depend on:

- 1) Demand of GBRA and other permitted customers for water from all sources.
- 2) The cessation of flow from one or both of the two major springs, Comal and San Marcos Springs (equivalent to the drought of record).
- 3) Encroachment of salt water from San Antonio Bay toward the Barrier and Calhoun Canal System through the bayous. Chlorides and salinity will be measured at the highway 35 bridge and the radial gates.
- 4) The call for water released from Canyon Reservoir for Calhoun County customers.

Requirements for termination: Stage 4 of the Plan may be rescinded when the conditions listed as a triggering event (the termination of spring flow and the sole use of stored water from Canyon Dam for Calhoun County customers) ceases. Upon termination of Stage 4, Stage 3 becomes operative.

Stage 5 – EMERGENCY Water Shortage Conditions

Requirements for initiation: Customers shall be required to comply with the requirements and restrictions for Stage 5 of this Plan when the General Manager or his/her designee determines that a water supply emergency exists based on:

- 1) Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service; or
- 2) Natural or man-made contamination of the water supply source(s).
- 3) This condition may occur at any time and is not dependent on being preceded by Stages 1 through 4.

Requirements for termination: Stage 5 of the Plan may be rescinded when all of the conditions listed as triggering events have ceased to exist for a period of 3 (three) consecutive days.

Section 12.2 Drought Response Stages for Lower Basin Water Rights

The General Manager, or his/her designee, shall monitor water supply and/or demand conditions and, in accordance with the triggering criteria for Canyon Reservoir set forth in Section 12.1 shall determine that mild, moderate, severe, critical, or emergency water shortage conditions exist or that an emergency condition exists and shall implement the following actions:

Stage 1 – MILD Water Shortage Conditions

Goal: Achieve a voluntary reduction in total domestic water usage during each month of this stage by 5% in comparison to the average monthly usage for that time period of the calendar year.

Supply Management Measures: The GBRA will encourage each wholesale water customer to monitor end main water pressures and reduce input pressure if end pressure is excessive.

Demand Management Measures: The General Manager, or his/her designee, will initiate weekly contact with the wholesale water customers to discuss water supply and demand conditions and will request that wholesale water customers initiate voluntary measures to reduce water use.

Wholesale water customers are requested to practice water conservation and to minimize or discontinue water use for non-essential purposes.

Stage 2 – MODERATE Water Shortage Conditions

Goal: Achieve a voluntary reduction in total domestic water usage during each month of this stage by 10% in comparison to the average monthly usage for that time period of the calendar year.

Supply Management Measures: See Stage 1. The GBRA Port Lavaca Water Treatment Plant will encourage wholesale water customers to reduce flushing of mains to a minimum to meet regulatory requirements, and to monitor systems to insure timely response to leak repair.

Demand Management Measures :

- 1) The General Manager, or his/her designee, will initiate weekly contact with wholesale water customers to discuss water supply and demand conditions.
- 2) The General Manager, or his/her designee, will request wholesale water customers to initiate mandatory measures to reduce non-essential water use.
- 3) The General Manager, or his/her designee, will initiate preparations for the implementation of pro rata curtailment of water deliveries by preparing a monthly water usage allocation baseline for each wholesale water customer according to procedures specified in Section 12.3 of the Plan.
- 4) The General Manager, or his/her designee, will provide a weekly report to the news media with information regarding current water supply and demand conditions, projected water supply and demand conditions if drought conditions persist, and consumer information on water conservation measures and practices.

All operations of the GBRA PLWTP shall adhere to the same water use restrictions for Stage 2 Response.

Stage 3 – SEVERE Water Shortage Conditions

Goal: Achieve a voluntary reduction in total domestic water usage during each month of this stage by 15% in comparison to the average monthly usage for that time period of the calendar year.

Supply Management Measures: See Stage 2. The GBRA Port Lavaca Water Treatment Plant will encourage the wholesale water customers to eliminate the flushing of mains unless required to decontaminate.

Demand Management Measures:

- 1) The General Manager, or his/her designee, will contact wholesale water customers to discuss water supply and demand conditions and will request that wholesale

water customers initiate additional mandatory measures to reduce non-essential water use.

- 2) The General Manager, or his/her designee, will initiate pro rata curtailment of water deliveries for each wholesale water customer according to procedures specified in Section 12.3 of the Plan, if deemed appropriate.
- 3) The General Manager, or his/her designee, will provide a weekly report to the news media with information regarding current water supply and demand conditions, projected water supply and demand conditions if drought conditions persist, and consumer information on water conservation measures and practices.

All operations of the GBRA PLWTP shall adhere to the same water use restrictions for Stage 3 Response.

Stage 4 – CRITICAL Water Shortage Conditions

Goal: Achieve a voluntary reduction in total domestic water usage during each month of this stage by 20% in comparison to the average monthly usage for that time period of the calendar year.

Supply Management Measures: See Stage 3. The GBRA Port Lavaca Water Treatment Plant will encourage the wholesale water customers to also, upon written notice, disconnect the water meters of willful violators if absolutely necessary to prevent the deliberate wasting of water.

Demand Management Measures:

- 1) The General Manager, or his/her designee, will contact wholesale water customers to discuss water supply and demand conditions and will request that wholesale water customers initiate additional mandatory measures to reduce non-essential water use.
- 2) The General Manager, or his/her designee, will initiate pro rata curtailment of water deliveries for each wholesale water customer according to procedures specified in Stage 12.3 of the Plan.
- 3) The General Manager, or his/her designee, will provide a weekly report to the news media with information regarding current water supply and demand conditions, projected water supply and demand conditions if drought conditions persist, and consumer information on water conservation measures and practices.

All operations of the GBRA PLWTP shall adhere to the same water use restrictions for Stage 4 Response.

Stage 5 – EMERGENCY Water Shortage Conditions

Goal: Achieve a 50% reduction in daily water use.

Supply Management Measures: See Stage 4. Also, contact the County Judge and / or the emergency management coordinator to initiate the use of the Community Alert Network (CAN), an automated phone dial up. Inform the County Sheriff's office, the City of Port Lavaca City Manager, the President of the Board of Directors of the Port O'Connor Improvement District, the President of the Board of Directors of the Calhoun County Rural Water Supply System.

Water Use Restrictions:

- 1) The General Manager, or his/her designee, shall assess the severity of the problem and identify the actions needed and the time required to solve the problem.
- 2) The General Manager, or his/her designee, will inform the responsible official of each wholesale water customer by telephone, email, or in person and suggest actions, as appropriate to alleviate problems (such as; notifying the public to reduce water use until service is restored)
- 3) The General Manager, or his/her designee, will notify city, county, and/or state emergency response officials for assistance.
- 4) The General Manager, or his/her designee, will take any actions necessary, including repairs and/or clean-up as needed.
- 5) The General Manager, or his/her designee, will prepare a post-event assessment report on the incident and critique of emergency response procedures and actions.

Section 12.3 Pro-Rata Water Allocation for Lower Basin Water Rights

In the event that the triggering criteria specified in Section 11.1 of the Plan for Stage 3 - Severe Water Shortage Conditions have been met, the General Manager, or his/her designee(s), is hereby authorized to initiate allocation of water supplies on a pro rata basis in accordance with Texas Water Code Section 11.039. A provision will be included in every wholesale water contract entered into or renewed after adoption of the plan, including contract extensions, that in case of a shortage of water resulting from drought, the water to be distributed shall be divided in accordance with Texas Water Code §11.039. Customers with contracts for stored water from Canyon Reservoir may be subject to curtailment under the provisions of Section 9.3 of the Plan.

Section 13.0 Enforcement

The provisions of this Plan shall apply to all contracts and amendments for commitment of wholesale water executed after the date of approval of this Plan by the TCEQ and to diversions of water from GBRA's hydroelectric lakes, and shall be enforceable by the General Manager, or his/her designee, with assistance from the STWM.

Section 14.0 Variances

The General Manager, or his/her designee, may, in writing, grant a temporary variance to the pro rata water allocation policies provided by this Plan if it is determined that failure to grant such variance would cause an emergency condition adversely affecting the public health, welfare, or safety and if one or more of the following conditions are met:

1. 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.
2. 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 General Manager within 5 days after pro rata allocation has been invoked. All petitions for variances shall be reviewed by the Board of Directors of GBRA, and shall include the following:

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

Variances granted by GBRA's Board of Directors shall be subject to the following conditions, unless waived or modified by the GBRA's Board or its designee:

1. Variances granted shall include a timetable for compliance.

2. Variances granted shall expire when the Plan is no longer in effect, unless the petitioner has failed to meet specified requirements.

No variance shall be retroactive or otherwise justify any violation of this Plan occurring prior to the issuance of the variance.

Section 15.0 Severability

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

GUADALUPE-BLANCO RIVER AUTHORITY RESOLUTION
ADOPTING A WATER CONSERVATION PLAN
FOR WHOLESALE WATER

WHEREAS, the Guadalupe-Blanco River Authority (GBRA) has exercised leadership in promoting, and where appropriate, requiring the conservation of ground and surface waters within GBRA's 10-county statutory district, and

WHEREAS, GBRA's goals are to promote the development and application of practices and technologies that improve water use efficiency, increase the beneficial reuse and recycling of water, and minimize the waste of water such that water supplies are extended, and

WHEREAS, GBRA supports and assists local and state initiatives to develop and apply water conservation measures for municipal, industrial and agricultural uses where appropriate. GBRA provides technical assistance, public information and education programs on water conservation, and

WHEREAS, all water sales contracts contain appropriate conditions requiring conservation measures that are economically feasible, and

WHEREAS, GBRA's efforts in technical assistance focuses on the development and implementation of local water conservation and drought contingency programs that encourage local initiative and achievement, and

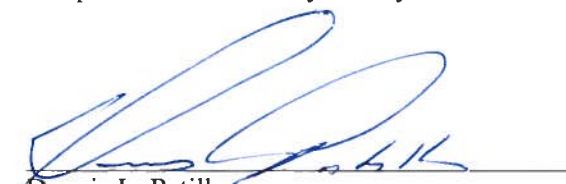
WHEREAS, GBRA shall support research, regulatory initiatives and legislation that advance the conservation and beneficial reuse of water in the GBRA 10-county statutory district, and

WHEREAS, GBRA also shall assist in the research and transfer of technology and information regarding cost effective conservation measures for the benefit of water users within the 10-county statutory district, and

WHEREAS, GBRA shall integrate, as appropriate, water efficiency measures into the development and implementation of GBRA programs and projects. Such programs and projects shall include but not be limited to: water resources planning and demand forecasting and management; water and wastewater utility service studies, projects and service agreements; water rate design; environmental programs, and

NOW THEREFORE BE IT RESOLVED, that the Board of Directors of the Guadalupe-Blanco River Authority does hereby approve and adopt the updates to the Water Conservation Plan for Wholesale Water, and Drought Contingency Plan and directs the General Manager/CEO to submit a copy to the Texas Commission on Environmental Quality, Texas Water Development Board, and to make improvements to the plans on a regular basis as consistent with sound water conservation management, and to administer and enforce the plans as adopted.

Adopted this the 17th day of July 2019.


Dennis L. Patillo
Chairman of the Board of Directors
Guadalupe-Blanco River Authority

Attest:


Kenneth A. Motl, DVM, Secretary
Board of Directors
Guadalupe-Blanco River Authority