CITY OF BLUE RIDGE WATER CONSERVATION PLAN AND DROUGHT CONTINGENCY PLAN

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CITY OF BLUE RIDGE

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DROUGHT CONTINGENCY PLAN

1.0 INTRODUCTION

In 1997, the Texas Legislature passed Senate Bill 1 to require most public water suppliers to prepare a Drought Contingency Plan. The Texas Natural Resource Conservation Commission (TNRCC), now the Texas Commission on Environmental Quality (TCEQ), amended is rules (Title 30, Texas Administrative Code, Chapter 288) regarding Drought Contingency Plans to reflect the Senate Bill 1 requirements. Blue Ridge was required to prepare and/update a Water Management Plan to meet these statutory requirements, and submit the plan by September 1, 1993. Blue Ridge's Water Management Plan includes both a Drought Contingency Plan and a Water Conservation Plan.

The TCEQ guidelines and requirements for water suppliers are included in Appendix G. This Drought Contingency Plan is consistent with the TCEQ guidelines and requirements for the development of Drought Contingency Plans by public drinking water suppliers, contained in Title 30, Par 1, Chapter 288, SubChapter B, Rule 288.20 of the Texas Administrative Code. The provisions of Chapter 288 require the City of Blue Ridge to develop, submit, and implement a combination of strategies for supply and demand Management responses to temporary and potentially recurring water supply shortages and other water supply emergencies.

The objectives of the Drought Contingency plan are:

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

This document describes the City of Blue Ridge Drought Contingency Plan and includes updates to the previous plan as required by the Texas Commission on Environmental Quality (TCEQ).

2.0 DECLARATION OF POLICY, PURPOSE, AND INTENT

The Drought Contingency portion of the Water Management Plan has several important purposes. Water is critical to sanitation, fire protection, and the defense and preservation of public health as well as meeting basic life needs through domestic water use. The City of Blue Ridge hereby adopts the regulations and restrictions on the delivery and consumption of water contained in this document. The regulations and restrictions in this report are designed to ensure the available water supply and protect the integrity of the Blue Ridge water system, with particular regard for preserving public health, welfare, and safety. Additionally, the response actions contained herein are intended to minimize the adverse impacts of water supply shortages or other water supply emergency conditions.

It is vital the City of Blue Ridge initiate this Drought Contingency Plan (The Plan) to manage available water resources and ensure sufficient water is available to maintain water pressure and firefighting supply, as well as drinking and sanitation requirements. Furthermore, this Plan also establishes provisions for enforcement.

Water uses regulated or prohibited under this Plan are considered to be non-essential. The continuation of such uses during times of water shortage or other emergency water supply conditions is deemed to constitute a waste of water which subjects the offender(s) to penalties as defined in Chapter 9.0.

3.0 PUBLIC INVOLVEMENT

The City of Blue Ridge provided several opportunities for public input into the preparation of the original Plan and subsequent revisions. The Drought Contingency Plan stages and requirements for the stages are streamlined and simplified in comparison to the Plan implemented in 1993.

The City provided opportunity for public input in the development of this Drought Contingency Plan by the following means:

- City Council meetings.
- Two public meetings, a Neighborhood Round Table held in March 19, 2019 and April 2, 2019
- Making the plan available on the City's web site, www.blueridgecity.com.
- Providing a draft plan to anyone requesting a copy and other water conservation materials available to the public at City Hall.
- Utilize information regarding ways to conserve from Texas Commission on Environmental Quality's web site, https://www.tceq.texas.gov/response/drought/conservation.html.

4.0 PUBLIC EDUCATION

The Blue Ridge Water Utilities Department will periodically provide the public with information about the Drought Contingency Plan, including information about the trigger conditions under which each set of Drought stage responses is initiated or terminated and the specific water use restrictions to be implemented under each stage.

- Public education and information will be provided by various methods, including: publication in newspapers of general circulation in the City; announcements on the City Hall message board; messages distributed through social media including Facebook; and utility bill messages and inserts.
- Updated information about the Drought Contingency plan is posed and maintained on the City's web site, www.blueridgecity.com.
- Water Utilities staff members maintain contact with local organizations, schools, and civic groups with the express purpose of providing information and support regarding water- related programs, including information on the Plan. Blue Ridge Water Utilities staff members are available to make presentations on the Drought Contingency Plan (usually in conjunction with presentations on water conservation programs).

Any time the Drought Contingency Plan is activated or the drought stage changes, Blue Ridge will notify local media of the issues, the drought response stage, and the specific actions required of the public.

The information will also be publicized on the Blue Ridge web-site, www.blueridgecity.com. In addition, messages and inserts with the utility bill will be used as appropriate.

The Blue Ridge Water Utilities staff will ensure the City Council is provided with status reports on conditions requiring drought response activation and water emergencies as well as the respective results of such situations.

5.0 COORDINATION WITH OTHER WATER UTILITIES

In February 1975, Blue Ridge implemented the delivery of its water from Fresh Water Well for treatment and delivery to Blue Ridge residents.

The drought stages and triggering conditions in the City of Blue Ridge Drought Contingency Plan are similar to provisions established by North Texas Municipal Water District (an area water supplier - but not a supplier for the City of Blue Ridge). Implementation of Stage 2 restrictions in Blue Ridge requires residents to limit irrigation to once per week. Likewise, Stage 2 by NTMWD allows for only once-per-week watering.

In an effort to simplify the ability of the City of Blue Ridge to enact such restrictions, Blue Ridge has worked with NTMWD and other large regional water entities to establish drought restrictions consistent across the Dallas, Fort Worth region. Such consistency across water agencies will also greatly assist water customers in understanding restrictions because drought plans are now both simplified and similar, resulting in less confusion about the requirements of each stage. In the past, cities have varied in the naming and numbering of drought stages, as well as in the restrictions imposed a each successive level.

6.0 AUTHORIZATION

The Blue Ridge City Code establishes the City's policy in the event of shortages or delivery limitations in the City's water system (See Appendix C to reference this code section.) Under the City Code, the Blue Ridge City Secretary is authorized to implement measures prescribed in this Drought Contingency Plan. The Director, or his/her designee, is to enforce the measures implemented and to promulgate regulations authorized by the Plan.

The Director, upon determination critical conditions exist, advises the City Secretary who orders the implementation of the appropriate stage of this Drought Contingency Plan to protect the public health, safety, and welfare.

7.0 APPLICATION

The provisions of this Plan shall apply to all persons, customers, and property utilizing water provided by the City of Blue Ridge Water Utilities. The terms "person" and "customer" as used in the Plan include individuals, corporations, partnerships, associations, and all other legal entities.

The water use restrictions imposed under this Plan do not apply to the use of water sources other than provided by Blue Ridge Water Utilities. Customers using alternate water sources are required to provide proper signage indicating the source is not City of Blue Ridge Water.

8.0 DROUGHT RESPONSE STAGE CRITERIA AND WATER USE RESTRICTIONS

The Director, or his/her designee, shall monitor water system and/or demand conditions and shall determine when those conditions warrant initiation or termination of each stage of this Plan. Public notification of the initiation or termination of drought response stages shall be by means which may include, but are not limited to:

- Publication in newspapers of general circulation, direct mail to each customer, signs posed in public places, press releases to local and area news media, messages distributed through social media including Facebook, and utility bill inserts.
- Notification of the Executive Director of the TCEQ within five business days regarding activation or termination of mandatory provisions of the Drought Contingency Plan.

The Blue Ridge City Code requires the initiation of this Plan to be effective, therefore the order must be (1) made by public announcement; and (2) published in a newspaper of general circulation in the City as soon as practical after the public announcement. The order then becomes immediately effective upon publication.

The triggering criteria described herein for each response stage are based on historical analysis and recognized vulnerability of the water supply source and water distribution system during high water use demands and drought conditions.

8.1 DROUGHT STAGE TRIGGER CONDITIONS

The Director or his/her designee shall monitor water supply and/or demand conditions, at a minimum, on a weekly basis and shall determine when conditions warrant initiation or termination of each stage of the Drought Contingency Plan. The presence of conditions warrant implementing a higher level stage of the Drought Contingency Plan is considered to be a "trigger ."

The Director reserves the authority to recommend a Stage not be initiated based on the time of year, weather conditions, total water supply availability, anticipation of replenished water supplies, or anticipation facilities will soon come on-line to increase water supply, treatment or distribution capacity.

Upon recommendation of the Director, the City Secretary may upgrade or downgrade a stage when the triggering conditions occur. Customer notification of the initiation or termination of drought response stages will be made by the Director or his/her designee by:

- Press releases
- Public service announcements
- Messages distributed through social media
- Publication in a newspaper of general circulation to the City within 24 hours after the public announcement

The Director or his/her designee shall notify directly, or cause to be notified directly by fax, mail, email or telephone, the following individuals and entities as appropriate to the respective drought stages:

- Mayor and members of the City Council
- City and County Emergency Management Coordinator
- Executive Director of the TCEQ (required within five (5) business days of the implementation of any mandatory restrictions)
- City of Blue Ridge Department Directors

The triggering criteria described below are based on the ability of the City to deliver treated water to its customers. To set trigger conditions, City staff examined models showing diminished water supplies during a drought equal to the drought of record and examined water demand and system delivery capacity. Trigger conditions examine water supply capability and are based on how much water supply or delivery capacity remains available relative to water demand for all or part of the system.

8.1.1 Stage 1 triggers

- Stage 1 may be implemented when one or more of the following trigger conditions occur:
  - Condition 1: Notification is received from TCEQ requesting initiation of Stage 1 restrictions.
  - Condition 2: Water demand exceeds ninety percent (90%) of the water well flow rate for water supply for seven (7) consecutive days.
  - Condition 3: Blue Ridge's combined water storage is less than 65 percent (65%) of capacity.
  - Condition 4: Deficiencies in the City's distribution system limit supply capabilities.
  - Condition 5: Supply source becomes contaminated.
  - Condition 6: As determined by the Director due to drought or reduced water supply.
- Requirements for termination: Stage 1 of the Plan may be rescinded when all of the trigger conditions listed have ceased to exist as determined by the Director. Upon termination of Stage 1, no drought restrictions are in effect.

8.1.2 Stage 2 triggers

- Stage 2 may be implemented when one or more of the following trigger conditions occur:
  - Condition 1: Notification is received from TCEQ requesting initiation of Stage 2 restrictions.
  - Condition 2: Water use exceeds 100 percent (100%) of the combined current maximum flow rate from Blue Ridge water supply for five (5) consecutive days.
  - Condition 3: Blue Ridge's combined water storage is less than 45 percent (45%) of total storage capacity.
  - Condition 4: Short-term deficiencies in the City's distribution system limit supply capabilities, such as system outage due to the failure or damage of major water system components.
  - Condition 5: Inability to maintain or replenish adequate volumes of water in storage to provide for public health and safety.

- Condition 6: Supply source becomes contaminated.
- Condition 7: As determined by Director due to drought or reduced water supply.

- Requirements for termination: Stage 2 of the Plan may be rescinded when all of the trigger conditions listed have ceased to exist as determined by the Director. Upon termination of Stage 2, Stage 1 drought restrictions will remain in effect.

8.1.3 Stage 3 triggers

- Stage 3 may be implemented when one or more of the following conditions occur:
  - Condition 1: Notification is received from TCEQ requesting initiation of Stage 3 of the Plan.
  - Condition 2: Blue Ridge's combined water storage is less than 20 percent (20%) of Blue Ridge's total storage capacity.
  - Condition 3: Short-term deficiencies in the City's distribution system limit supply capabilities, such as system outage due to the failure or damage of major water system components.
  - Condition 4: Inability to maintain or replenish adequate volumes of water in storage to provide for public health and safety.
  - Condition 5: Supply source becomes contaminated.
  - Condition 6: As determined by the Director due to drought or reduced water supply.
- Requirements for termination: Stage 3 may be rescinded when the trigger conditions listed have ceased to exist as determined by the Director. Upon termination of Stage 3, a less restrictive stage will be designated.

8.2 DROUGHT STAGE REQUIREMENTS

8.2.1 Stage 1 Drought Response

Total. Reduce the average daily water demand by three percent (3%) from the use which would have occurred in the absence of drought measures.

Water Use Restrictions. Under threat of penalty for violation, the following water use restrictions shall apply during a Stage 1 Drought Response. Following is a menu of possible actions. Specific actions taken during any drought situation will be determined by the Director. The Director may also take other actions not listed, if deemed necessary.

A. Irrigation: Landscape watering is limited to mandatory maximum **two-days-per-week** based on the last digit of the service address.

1. Even-numbered addresses (ending in 0, 2, 4, 6, or 8) water Tuesdays and Saturdays only.
2. Odd-numbered addresses (ending in 1, 3, 5, 7, or 9) water Wednesdays and Sundays only.
3. Properties having Multiple addresses will be identified by the lowest address number. If no number exists, the Director or his/her designee will assign one.
4. Unless using a hand-held hose with attached positive shutoff spray nozzle, landscape watering will not be permitted on Mondays, Thursdays, or Fridays. Watering is permitted on any day with a hand-held hose with appropriate spray nozzle for up to one hour.
5. Recommend irrigation of landscaped areas by means of hand-held hose with attached positive shutoff spray nozzle, soaker hose, bucket, or drip irrigation system.
6. Watering only one-day-per-week is encouraged.

B. Vehicle Wash:

1. Use of water to wash any motor vehicle, motorbike, boat, trailer, airplane or other vehicle is prohibited, except on designated landscape watering days or at a commercial car wash facility.
2. Such washing, when done, shall be with a hose with a positive shutoff nozzle and/or buckets for hand washing.
3. Commercial car washing may continue on any day.
4. Fund raiser car washes are prohibited unless held at a commercial car wash facility.

5. City staff will reduce car washing to the extent practical for business operations given the need for health, safety and welfare considerations.

C. Foundations:

1. Foundations may be watered up to two hours on the designated watering days as prescribed for Stage (1) irrigation. Watering of Foundations should be accomplished by soaker hose, hand-held hose with positive shutoff, spray nozzle or drip systems.

D. Golf Course and Athletic Field Irrigation:

1. Maintenance personnel must use the twice weekly watering schedule prescribed in Stage 1 of this Plan for fairways and Athletic fields.
2. Tee boxes and greens may be watered on Tuesday, Wednesday, Saturday and Sunday though watering should be kept at a level that meets only minimum requirements.

E. Filling Pools and Hot tubs: Filling pools and hot tubs is prohibited except for required maintenance and repair or new construction. Loss due to evaporation may be replaced.

F. Cool Season Grass Overseeding: Installation of cool season grasses for aesthetic purposes is prohibited. Overseeding of grasses for erosion control is permitted for up to 30 days only with a written variance from the Director (see Section 11.0).

G. Non-essential Use: The following uses of water are defined as non-essential and are prohibited in Stage 1 and all subsequent stages:

1. Washing sidewalks, walkways, driveways, parking lots, tennis courts or other hard-surfaced areas other than for human health and safety.
2. Washing buildings or structures for purposes other than immediate fire protection or in preparation for painting.
3. Use of water for dust control.
4. Flushing gutters or permitting water to run or accumulate in any gutter or street.
5. Operation of free-flowing hoses for any purpose.
6. Operation of any equipment or device which uses water for recreation purposes (e.g. slides, bounce houses, etc.)

7. Obvious water waste including but not limited to: water ponding in a parking lot or driveway, water ponding or running down the street, broken sprinkler equipment, unattended free flowing hoses or unrepaired leaks.

8.2.2 Stage 2 Drought Response

Total. Reduce the average daily water demand by eight percent (8%) from the use which would have occurred in the absence of drought measures.

Water Use Restrictions. All requirements of Stage 1 Drought Response shall remain in effect during Stage 2. The following is a menu of possible actions. Specific actions taken during any drought situation will be determined by the Director and enforced under threat of penalty for violation. The Director may also take other actions not listed, if deemed necessary:

A. Irrigation: Landscape watering is limited to mandatory maximum **one-day-per-week** based on the last digit of the service address.

1. Industrial, commercial and multi-family water customers with even-numbered addresses (ending in 0, 2, 4, 6, or 8) water Tuesdays only.
2. Residential water customers with even-numbered addresses (ending in 0, 2, 4, 6, or 8) water Saturdays only.
3. Industrial, commercial and multi-family water customers with odd-numbered addresses (ending in 1, 3, 5, 7, or 9) water Wednesdays only.
4. Residential water customers with odd-numbered addresses (ending in 1, 3, 5, 7, or 9) water Sundays only.
5. It is strongly encouraged automated irrigation systems be turned off at the controller when not in use and only set manually for use on the designated watering day.
6. Watering is allowed on any permitted watering day (Sunday, Tuesday, Wednesday or Saturday) for up to one hour using a hand-held hose with attached positive shutoff spray nozzle.

B. Vehicle Wash:

1. All vehicle washing is prohibited, except on the once weekly designated irrigation day or at a commercial car wash facility.
2. Commercial car washing may continue on any day.

3. City vehicle washing will be further reduced from the level used during Stage 1.

C. **Foundations:** Foundations may be watered for up to two hours on the designated watering day as prescribed in Stage 2 using only a soaker hose, a hand-held hose with positive shutoff spray nozzle or drip systems.

D. **Golf Course and Athletic Field Irrigation:**

1. Maintenance personnel must use the once-per-week watering schedule prescribed in Stage 2 of this Plan for fairways and Athletic fields.
2. Tee boxes may be watered only twice per week on either Tues./Sat. or Wed. /Sun.
3. Greens may be watered only three times per week (Tues. a.m., Wed. p.m. and Sat. a.m.)

E. **Filling Pools and Hot tubs: Same as Stage 1 restrictions.**

F. **Cool Season Grass Overseeding:** Same as Stage 1 restrictions with a maximum of 15 days for a variance.

G. **High Demand Surcharge:** This surcharge must be approved by the City Council prior to implementation.

1. Residential Customers -A rate increase of up to 25 percent (25%) for high water demand users (greater than 20,000 gallons per month per account) shall be initiated to discourage non-essential use.
2. Apartment, Commercial and Industrial Customers - A rate increase of up to 25 percent (25%) for high water demand users (greater than 20,000 gallons per month and 1.4 times annual average monthly usage per account) shall be initiated to discourage non-essential use.

8.2.3 Stage 3 Drought Response

Goal. Reduce the average daily water demand by twenty percent (20%) from the use which would have occurred in the absence of DROUGHT measures.

Water Use Restrictions. All requirements of Stages 1 and 2 DROUGHT Response shall remain in effect during Stage 3. The following is a menu of possible actions. Specific actions taken during any drought situation will be determined by the Director and enforced under threat of penalty for violation. The Director may also take other actions not listed, if deemed necessary.

A. **Irrigation: All landscape watering is prohibited.**

B. **Vehicle Wash:** Vehicles may only be washed at a commercial vehicle wash site and such washing shall be limited for health, safety and welfare of the public. Fund raiser car washes are prohibited.

C. **Foundation Watering:** Foundations may be watered up to two hours on Saturday using only a soaker hose, a hand-held hose with positive shutoff spray nozzle or drip systems.

D. **Golf Course and Athletic Field Irrigation:** All irrigation is prohibited.

E. **Filling Pools and Hot tubs:** Filling restrictions are the same as Stages 1 and 2. Construction of new pools is prohibited during Stage 3.

F. **Repair of Known Leaks:** Same as Water Conservation Plan with only one week allowed for repairing leaks.

G. **Cool Season Grass Overseeding:** Irrigation of cool season grasses is prohibited.

H. **High Demand Surcharge:** This surcharge must be approved by the City Council prior to implementation.

1. Residential Customers -A rate increase of up to 50 percent (50%) for high water demand users (greater than 20,000 gallons per month per account) shall be initiated to discourage non-essential use.
2. Apartment, Commercial and Industrial Customers - A rate increase of up to 50 percent (50%) for high water demand users (greater than 20,000 gallons per month and 1.4 times annual average monthly usage per account) shall be initiated to discourage non-essential use.

In the event water shortage conditions threaten public health, safety, and welfare, the Director is hereby authorized to ration water. The Director may combine water rationing with any or all stages and/or individual water use restriction of this Drought Contingency Plan as necessary. A Water Rationing Plan will be developed to meet the critical water shortage condition. Water will be rationed according to a water allocation plan for different customer classifications . An example water rationing plan is included in Appendix E.

9.0 ENFORCEMENT

Violations of this plan may be observed by City staff or reported to City staff through telephone or email messages. Citations will be issued only when a violation is observed by City of Blue Ridge staff members. The Blue Ridge City Code, 6-6-93-4**,** shown in Appendix C, enforces the Water Conservation Plan as such:

Violation of section. A person commits an offense if he or she knowingly makes, causes or permits use of water supplied by the City, contrary to the measures implemented by the City Secretary as prescribed in the Water Management Plan. For purposes of this subsection, it is presumed a person has knowingly made, caused or permitted use of water supplied by the City, contrary to the measures implemented by the Water Management Plan if the mandatory measures have been formally ordered consistent with the terms of the Plan and:

(1) the manner of use has been prohibited by the Water Management Plan; or

(2) the amount of water used exceeds the allowance by the Water Management Plan.

Penalty. A person who commits an offense under this section is guilty of a misdemeanor, punishable by a fine of no less than one dollar ($1.00) and no more than two hundred dollars ($200.00). Each day one or more of the provisions of this section is violated constitutes a separate offense.

Rebuttable presumption. Any person, including a person classified as a water customer of the City, in apparent control of the property where a violation occurs or originates shall be presumed to be the violator, and proof the offense occurred on the person's property shall constitute a reputable presumption the person in apparent control of the property committed the offense, but any such person shall have the right to show he/she did not commit the offense.

Parents shall be presumed to be responsible for offenses committed by their minor children and proof an offense committed by a minor child, occurred on property within their parents' control shall constitute a reputable presumption the parent committed the violation, but any such parent may be excused if he/she proves he/she had previously directed the child not to use the water as it was used in violation of the Water Management Plan and the parent could not have reasonably known of the offense.

Discontinuation of services. If a person is convicted of three (3) or more offenses under this section, the Water Utilities Director shall, upon due notice to the customer, be authorized to discontinue water service to the premises where the offenses occur. Services discontinued under this subsection shall be restored only upon payment of a current connection charge, and any other costs incurred by the City in discontinuing service and upon adequate assurances being provided to the Water Utilities Director there will not be any reoccurrences with drought stage conservation efforts while under the Water Management Plan is in effect.

Authority under other laws. Nothing in this section limits the authority of the Mayor, the City Council, and the City Secretary to seek emergency relief under the provisions of any state or federal disaster relief act.

Civil remedies. Nothing in this section shall be construed as limiting the City's ability to pursue any other civil remedies to enforce a provision of this section as available under applicable law, including seeking injunctive relief and civil penalties for a violation of this section.

10.0 SPECIAL PERMITS

Special Permits for use of water at fire hydrants for dust control, erosion control and other construction related purposes may be obtained from City Hall. Special Permits may be required for Stages 1, 2, and 3 of this plan. Granting of permits will be based on requirements established by the City of Blue Ridge and a completed application which meets all applicable criteria.

11.0 VARIANCES

The Director, or his/her designee may, in writing, grant a temporary variance for existing water uses otherwise prohibited under this Plan. A variance is permissible if it is determined failure to grant such variance would cause undue hardship, or an emergency condition adversely affecting the health, sanitation, or fire protection for the public or the person requesting such variance. In addition, one or more of the following conditions may apply:

- Compliance with this Plan cannot be technically accomplished for the duration of the water supply shortage or other condition for which the Plan is in effect.
- Alternative methods can be implemented which will achieve the same level of reduction in water use.

Persons requesting an exemption from the provisions of this Plan shall submit a request for a variance to the Blue Ridge Water Utilities Department. All petitions for variances shall be reviewed by the Director, or his/her designee, and shall include the following:

- Name of the petitioner(s)
- Address of the property for which the variance is requested
- Contact phone number
- Contact e-mail address
- Purpose of water use

- Specific provision(s) of the Plan from which he petitioner is requesting relief
- Details as to how the specific provision of the Plan adversely affects the petitioner or what damage or harm will occur to the petitioner or others if petitioner complies with this Plan
- Description of the relief requested
- Period of time for which the variance is sought
- Alternative water use restrictions or other measures the petitioner is taking or proposes to take to meet the intent of this Plan and the compliance date
- A map of the property
- Other pertinent information.

Variances granted by Blue Ridge Water Utilities shall be subject to the following conditions, unless waived or modified by the Director or his/her designee:

- Variances granted shall include a timetable for compliance.
- Landscape irrigation from 10 a.m. to 6 p.m. will not be allowed for any reason.
- Variances granted shall expire when the Plan is no longer in effect.

No variance shall be retroactive or otherwise justify any violation of this Plan occurring prior to the issuance of the variance. Variances will not be granted for cool season grass installation in a turf area that has already been established.

12.0 COORDINATION WITH REGIONAL WATER PLANNING GROUP

The City of Blue Ridge is located within the Region C water planning area and Blue Ridge is currently a water well provider through the Woodbine Acquifer. Appendix F includes copies of a letter sent to the Chair of the Region C Water Planning Group (RCWPG) and the Director of the North Texas Municipal Water District with this amended Drought Contingency Plan and Water Conservation Plan.

13.0 REVIEW AND UPDATE OF DROUGHT CONTINGENCY PLAN

As required by TCEQ rules, Blue Ridge reviews this Drought Contingency Plan every five years. The Plan will be examined and revised on an ongoing basis, as appropriate, based on new or updated information. As the plan is reviewed and subsequently updated, a copy of the revised Drought Contingency Plan and Water Conservation Plan will be submitted to the TCEQ for their records.

WATER CONSERVATION PLAN

1.0 INTRODUCTION

The Texas Commission on Environmental Quality (TCEQ) has developed guidelines and requirements governing development of water conservation plans for public water suppliers. The TCEQ rules governing the water conservation plans are contained in Title 30, Par 1, Chapter 288, SubChapter A, Rule 288.2 of the Texas Administrative Code. The provisions of Chapter 288 require the City of Blue Ridge to develop, submit, and implement a formal Water Conservation Plan to minimize municipal water use through implementation of efficient water use practices. The TCEQ guidelines and requirements for water suppliers are included in Appendix G.

The objectives of the Water Conservation Plan are:

- To reduce water consumption
- To reduce the loss and waste of water
- To improve efficiency in the use of water
- Encourage efficient outdoor water use
- To extend the life of current water supplies by reducing the rate of growth in demand

This document describes the City of Blue Ridge's Water Conservation Plan and includes updates to the original plan as required by TCEQ.

2.0 CITY OF BLUE RIDGE WATER UTILITY PROFILE

Profile data for the City of Blue Ridge water utility is provided in Appendix B. Appendix B includes data on existing and projected service populations, number of connections, historical metered water sales and water production, and general utility system information. Table 2.1 summarizes key facts from the Water Utility Profile.

2.1 Summary of Water Utility Profile

A. POPULATION AND CUSTOMER DATA

Index	Question or Task Description	Answer
1	Attach a copy of your service-area map and, if applicable, a copy of your Certificate of Convenience and Necessity (CCN).	See service-area map and CCN later in this utility profile.
2	Service area size (square miles)	3.2 square miles
3	Current population of service area	1,232
4a	Current water population served	1,232
4b	Current wastewater population served	1202
5	Population served by water utility for the previous five years	2014 825 2015 833 2016 835 2017 861 2018 872
6	Projected population for service area in the following decades	2010 822 2020 925 2030 2,000 2040 4,000 2050 12,000
7	List source/method for the calculation of current and projected population	US Census 2010 City of Blue Ridge

B. Active Connections

1. Current number of active connections. Check whether multi-family services is counted as Residential __X__ or Commercial ____

Treated Water Users	Metered	Not-Metered	Total
Residential	408	0	408
Commercial	32	0	32
Industrial	0	0	0
Other (Public)	0	0	0

2. List the net number of new connections per year for most recent three years:

Year	2016	2017	2018
Residential	0	4	4
Commercial	0	1	0
Industrial	0	0	0
Other (Public)	0	0	0

C. High Volume Customers

List annual water use for the five highest volume customers (indicate if treated or raw water delivery)

Position	Customer	Use (1,000 Gal/Yr)	Treated/Raw Water
1	Blue Ridge ISD	834,800	Treated
2	Blue Ridge Carwash	139,860	Treated

2.2 WATER USE DATA FOR SERVICE AREA

A. Water Accounting Data

1. Amount of water use for previous five years (in 1,000 gallons):
(Figures are determined by water sales)

Please indicate: Diverted Water ____ Treated Water __X__

Year	2014	2015	2016	2017	2018
January	1,919,023	1,718,860	1,603,680	1,892,936	1,834,076
February	1,793,418	2,015,968	1,709,616	1,560,297	1,873,532
March	3,598,129	1,394,288	1,728,320	1,537,661	1,598,750
April	2,125,864	1,662,373	1,650,532	1,731,409	2,041,162
May	1,410,416	1,576,051	1,631,190	2,058,357	1,832,700
June	2,278,430	1,891,760	1,082,472	1,853,605	2,131,098
July	1,939,290	2,078,470	2,848,995	1,888,489	2,873,926
August	1,130,160	2,481,294	2,843,334	2,126,690	2,293,270

September	2,583,988	2,418,316	2,069,011	2,009,590	2,056,773
October	2,026,933	1,958,526	1,785,179	1,938,747	2,043,627
November	1,943,069	2,134,709	1,704,125	1,687,512	1,698,579
December	1,663,370	1,622,071	1,843,514	1,721,630	1,663,640
Total	24,412,090	22,952,686	22,499,968	22,006,923	23,914,133

2. Amount of water (in 1,000 gallons) delivered (sold) as recorded by the following account types for the past five years. NONE

3. List previous five years records for water loss.

Year	Amount (Gallon)	Percent Loss (%)
2014	10,030,110	29%
2015	11,686,014	33%
2016	1,896,052,622	98%
2017	17,795,326	45%
2018	18,187,457	43%

4. Municipal water use for previous five years:

Year Pumped	Population	Total Water Pumped for Treatment
2014	825	34,442,200
2015	833	34,701,700
2016	835	1,918,552,590
2017	861	39,802,240
2018	872	42,101,590

B. Projected Water Demands

If applicable, attached projected water supply demands for the next ten years using information such as population trends, historical water use, and economic growth in the service area over the next ten years and any additional water supply requirement from such growth.

2.3 Water Supply System Data

A. Water Supply Sources

List all current water supply sources and the amounts authorized with each:

Type	Source	Amount Authorized
Surface Water	Not applicable	
Groundwater		Well #1 1853 feet deep (currently capped off) Well #2 1900 feet deep132gpm Well #3 1954 feet deep 214 gpm Well #4 2012 feet deep 277 gpm
Contracts	Not applicable	
Other	Not applicable	

B. Treatment and Distribution System

Index	Question or Task Description	Answer
1	Design daily capacity of system	100,000
2a	Elevated Storage Capacity	150,000
2b	Ground Storage Capacity	None
3a	If surface water, do you recycle filter backwash to the head of the plant?	Not applicable
3b	If yes, approximately how much?	Not applicable
4	Please attach a description of the water system. Include the number of treatment plants, wells and storage tanks. If possible, include a sketch of the system layout.	See attached.

2.4 Wastewater System Data

A. Wastewater System Data

Index	Questions or Task Description	Answer
1	Design capacity of wastewater treatment plant(s)	
2a	Is treated effluent used for irrigation on-site, off-site, plant wash-down, or chlorination/dechlorination?	There is no off-site irrigation. The amount of water used for wash down, dewatering and chlorination is negligible and all non-potable water used is recycled back through the plant.
2b	If yes, approximately how many gallons per month?	Not applicable
3a	Briefly describe the wastewater system(s) of the area serviced by the water utility.	Blue Ridge's wastewater collection system transmits flow to the Blue Ridge WWTP site. The plant consists of one permitted plant on a single site. The permitted capacity of 280,000 and is an activated sludge plant with a treatment capacity of 280,000.
3b	Describe how treated wastewater is disposed of. Where applicable, identify treatment plant(s) with the TCEQ name and number, the operator, owner, and, if wastewater is discharged, the receiving stream.	The wastewater is treated and discharged into Pilot Grove Creek, a tributary of Lake Lavon. The City of Blue Ridge WWTP consists of one permitted plant (WQ0010039001). The owner, and permit holder, of the wastewater plant is the City of Blue Ridge. The plant is operated

		by the Donald Dwayne Stailey, an employee of the City of Blue Ridge.
3c	If possible, attach a sketch or map which locates the plant(s) and discharge points or disposal sites.	See attached.

B. Wastewater Data for Service Area

1. Wastewater Service Area

Index	Question or Task Description	Answer
1	Percent of water service area served by wastewater system	90%

2. Monthly volume treated for previous three years (in 1,000 gallons):

Year	2016	2017	2018
January	44,000	68,200	80,120
February	41,000	80,700	132,000
March	83,500	77,400	103,000
April	86,000	84,600	79,000
May	70,000	74,410	75,130
June	79,200	64,864	62,350
July	56,000	77,136	64,290
August	60,300	104,500	70,000
September	88,300	64,625	90,670
October	77,300	53,565	174,000
November	95,000	72,478	108,000
December	46,000	83,696	130,400
Total	826,600	906,174	1,168,960

3.0 WATER CONSERVATION GOALS

Total gallons per capita per day is defined by the TCEQ as "the total amount of water diverted and/or pumped for potable use divided by the total permanent population divided by the days of the year. Diversion volumes of reuse as defined in this Chapter shall be credited against total diversion volumes for the purposes of calculating GPCD for targets and goals." Examination of the trend in residential water use will be most useful to provide an indication of the effectiveness of the City's water Conservation program.

Total per capita water use in Blue Ridge is expected to increase in the future. This is because residential growth and related water use in Blue Ridge is expected to increase substantially less than the amount of non-residential growth and its related water use. The 2019 Comprehensive Plan will include a future land use plan where the remaining developable land in Blue Ridge will be for residential or mixed use developments, and small percentage of the remaining developable land will be for commercial, office, retail, and light industrial uses. This ratio of future residential land use to non-residential land use is less than the ratio between existing residential and non-residential land uses.

Due to the anticipated mix of future development, residential and multifamily water uses are expected to increase more than commercial and industrial water uses. This will cause total per capita water use to increase. As a result, it is anticipated the total per capita water use may not reflect the long-term effectiveness of the City's water conservation efforts and the total gpcd is not expected to decrease at the same rate as the residential gpcd. Based on this, total gpcd goals are less aggressive than residential gpcd goals as shown in the chart below. However, efforts to decrease industrial, commercial and institutional use outlined in this Plan should have an impact on reducing total gpcd.

In keeping with this line of thought, Blue Ridge residential water use should be a better barometer than total municipal use to gauge future water use changes on a per capita basis. The residential per capita water use (including apartments) has ranged from 15 gallons per capita per day (gpcd) to 30 gpcd.

With consistent public education and media application regarding Water Conservation, and the implementation of a year round twice per week watering schedule, the City hopes to continue the positive trend. The expectation for total per capita use is more conservative.

The City's water conservation goals include the following:

- Continue the meter replacement program as discussed in Section 5.2
- Maintain level of water loss below 10 percent as discussed in Section 5.3
- Build the existing leak detection program and surveys of the water distribution system to include a comprehensive plan for system review every five years
- Persist in the use of designated conservation program staffing to continue implementation of, and sustain, a comprehensive conservation program including the components discussed in this report as well as others deemed appropriate
- Encourage and promote replacement of plumbing fixtures with water conserving fixtures and appliances
- Emphasize the use of water conserving landscaping and responsible irrigation of such landscaping by educating the public and enforcing recently passed ordinances regarding these items, and promotion of informed and planned use of water for irrigation through watermyyard.org
- Raise public awareness of water conservation and encourage responsible public behavior through a public education and information program as discussed in Section 5.2
- Implement a program for industrial, commercial and institutional customers

4.0 CONSERVATION PLAN ELEMENTS

A comprehensive conservation plan incorporates features addressing all aspects of water distribution and involves active participation from both the supplier and the customer. The following components comprise a multi-faceted approach to water conservation ensuring some level of responsibility and accountability for the City of Blue Ridge and all those who receive City water.

4.1 WATER SOURCE METERING

Blue Ridge's water is supplied through water rights to the Woodbine Acquifer located in northeast Texas. This water is pumped from the Woodbine Aquifer where it is treated by the City of Blue Ridge.

5.0 UNIVERSAL METERING AND METER TESTING/REPLACEMENT

Metering is widely recognized as an essential requirement for any water utility's efforts to measure and monitor water demand. All water users in Blue Ridge, including public and municipal facilities, are metered. Ordinance 020607-1 of the City Code stipulates "Water and sewer customers shall be required to connect to the city water and wastewater system." Therefore, it is unlawful for any person to receive and use water from the City water system if the water is not metered by a City-authorized water meter. This requirement for Universal metering of water users will be continued. (The only unmetered water is for uses such as fire-fighting and main flushing, which by nature do not accommodate a permanent meter location. Water use due to flushing and maintenance of the system is estimated with the use of calculating metering units.)

The City typically replaces small residential or business meters (5/8" to 2") based on abnormally high or low registered water usage, feedback from meter readers, and when the meter register appears broken or scratched.

The City maintains a meter repair and testing program where meters are brought in from the field when a problem is suspected or a customer complaint is made. The meters are tested and may be replaced or repaired depending on the problem.

5.1 DETERMINATION AND CONTROL OF WATER LOSS

Based on available data, the amount of water loss during the past five years has averaged less than 10 percent (see Appendix B). This is considered a reasonable level of water loss and indicates the City does not currently experience a major problem in water source metering, customer metering, or distribution system losses.

In the future, the City intends to continue to maintain the water loss at a level below 10 percent. The City collects all data needed to make annual comparisons between the amount of water discharged to the distribution system and the volume of metered water sales. If the amount of water loss significantly increases in the future, the City is prepared to take appropriate actions. The actions could include an accelerated meter replacement/repair program, recalibration of the meters which measure the amount of water discharged to the distribution system, expansion of the leak detection program, an upgraded flushing program and/or a comprehensive water audit to help determine the causes of increased water loss.

5.2 PUBLIC EDUCATION AND INFORMATION

The primary elements and activities of the City's public education program include the following:

- Promote the City's water conservation efforts through continuous activities and programming.
- Partner with EPA WaterSense in order to raise awareness about the importance of water efficiency, ensure water efficient product performance, and help consumers differentiate among products and programs which use less water and that support state and local water efficiency efforts.
- Maintain and update the City's Water Utility Department website to provide detailed information regarding water conservation initiatives, and related events to promote public education about water conservation.
- Promote water conservation through messages distributed through social media including Facebook.
- Distribute promotional material and items reinforcing water conservation concepts and provide tools to measure water conservation efforts.
- Continue making presentations to schools and other interested community groups promoting water conservation and water quality issues. The goal is to make 2 or more presentations during a typical year. Such events will include Town Hall meetings, career days and the annual Community Festivals.
- Develop utility bill messages regarding water conservation issues and have available to all customers at City Hall and on the City's website.
- Recognize and promote Water Week, which occurs annually in May. This education program will include various events and media coverage to encourage public awareness about water conservation. Events may include periodic festivals and seminars to heighten public awareness and participation in conservation efforts.
- Continue involvement in regional groups that develop standards and promote water conservation. Involvement will include sharing promotional ideas and resources with other conservation representatives.
- Provide a home water audit inspection program to review the potential for indoor and outdoor leaks and to distribute tips for saving water at Blue Ridge residences.
- Make the Texas Smartscape CD and other water conservation materials available at the City Hall.

- Promote the watermyyard.org web-site providing individualized watering recommendations to customers.

5.3 CONSERVATION WATER RATE STRUCTURE

The City's current water rate structure is an increasing block type (increased cost with increased usage). A similar type of rate structure encourages water conservation will be continued in the future. The current water rate structure is illustrated in Appendix B.

5.4 IMPLEMENTATION AND ENFORCEMENT

A copy of the ordinance indicating official adoption of this amended Water Conservation Plan by the Blue Ridge City Council is provided in Appendix D.

The Water Utilities staff will be responsible for implementation and administration of The Water Conservation Plan. The staff will:

- Oversee the execution and administration of all Plan elements
- Supervise the keeping of records for program verification and assess program effectiveness
- Make recommendations for changes in the Water Conservation Plan elements.

Elements of this Water Conservation Plan which require enforcement (such as the Universal metering requirement) are generally handled by incorporation into City codes or ordinances. The elements which require enforcement and the associated code/ordinance have been discussed under the applicable Plan element.

5.5 LEAK DETECTION AND REPAIR

The City's current leak detection efforts will be continued. The City will be planning to upgrade to an Automated Meter Reading System which will open opportunities for leak detection and help facilitate repairs within the system.

Other efforts to minimize leaks include the following:

- Visual observations by meter readers, system employees, and customers who keep watch for abnormal conditions which may indicate a leak
- Availability of an adequate and responsive staff with appropriate equipment to respond 24 hours per day to repair any public leaks after being identified.

5.6 WATER USE RECORD MANAGEMENT

As discussed under Section 5.1, all water delivered and pumped to the distribution system is metered. The current billing system recognizes the following user categories: residential, apartment, and commercial. Public water uses (such as municipally-owned parks and buildings) are included in the commercial use category. The current user categories will be continued and should be adequate to provide appropriate desegregation of water sales and to determine the amount of water loss.

5.7 WHOLESALE WATER SUPPLY CONRACTS

The City of Blue Ridge does not currently have any wholesale water supply contracts. If the City enters into a future contract to supply water to another political subdivision, the City will require by contract the other entity either (1) adopt the provisions of the Blue Ridge Water Conservation Plan or (2) develop and adopt a plan which has been approved by the TCEQ.

5.8 WATER REUSE/RECYCLING

The City of Blue Ridge does not currently have water reuse/recycling program. If the City enters into a future reuse/recycling program, the City will require by ordinance, the program adhere to the provisions of the Blue Ridge Water Conservation Plan.

5.9 WATER CONSERVING LANDSCAPING

The City of Blue Ridge does not currently have a water conserving landscape ordinance; however, in the future when such ordinance is adopted, the City will require minimum standards for landscaping to apply to all land developed within the City limits. Requirements will include landscaping to promote water conservation and eliminate wasteful watering practices. During the 2007 session, the Texas State Legislature passed House Bill 1656 which focused on the responsible use of irrigation systems and professional system installation techniques. The City will also incorporate a requirement for the installation of rain and freeze sensors on all residential and commercial landscaping systems.

5.10 WATER CONSERVING PLUMBING FIXURES

The City of Blue Ridge will encourage new plumbing code standards to be consistent with the 1.28 gallon toilet requirement of the Texas Health and Safety Code, Title 5, SubTitle B, Chapter 372 effective January 1, 2014. This code encourages water conservation through the requirement which all toilets sold, offered for sale or distributed must be a dual flush toilet which may not exceed 1.28 gallons per flush on average or for one full flush.

5.11 WATER CONSERVATION PROGRAM STAFFING

The City currently has five (5) full time employees involved with all aspects of the City's business. As projects allow, employees will implement conservation programs and enforce drought restrictions. The City of Blue Ridge is dedicated to the City's leak detection needs and will continue public education and leak detection responsibilities in support of City Conservation initiatives. The dedication of the City of Blue Ridge staff supports the goals and objectives suggested by the Texas Water Development Board's Water Conservation Implementation program for Best Management Practices.

5.12 FREE-FLOWING HOSES

Unattended free-flowing hoses (without a hose end sprinkler or positive shut-off spray nozzle) should not be used for any purpose at any time. Such a watering device creates a potential for overflow from the turf or landscaped area, particularly if forgotten. Any overflow from the turf or landscaped area which is flowing into the street or ponding in a parking lot is prohibited. Any use of water from hoses for irrigation purposes, vehicle washing, filling pools or any other use must be attended to by the resident or property manager and be equipped with a sprinkler or positive shut-off nozzle.

5.13 ENFORCEMENT OF PRIVATE PROPERTY LEAK REPAIRS

Water Utilities staff are charged with identifying and resolving leaks throughout the water distribution system. When the leaks identified are public, City crews are dispatched to make the appropriate repairs. When a leak is private, staff shall use the following protocol:

1. In order to maximize the elimination of water loss, residents are asked to repair identified leaks on private property within two weeks.
2. To the extent City staff discover such leaks, a written notice of violation (NOV) will be provided with a formal two-week time period for completion of the repair.
3. City staff will follow up to ensure the leak has been repaired.
4. Leaks not repaired by the NOV deadline will be issued a citation. Each additional day the leak is in disrepair after the first citation is issued, is considered a separate offense for which an additional citation may be issued.

5.14 TIME-OF-DAY IRRIGATION RESTRICTIONS

The City prohibits irrigation between the hours of 10:00 a.m. and 6:00 p.m. on any day during the period from April 1 through October 31.

5.15 DROUGHT EFFICIENT IRRIGATION MEASURES

The City of Blue Ridge, in conjunction with other regional DFW cities, has implemented year-round irrigation conservation measures. Because the highest use of water for domestic purposes is for irrigation, the category may allow for the greatest savings through conservation. During drought conditions, the City will limit watering to no more than two times per week according to the odd/even schedule described below. If the City is already under a more restrictive stage of the Plan, the higher level restrictions shall prevail.

A. **Irrigation:** Landscape watering is limited to mandatory maximum t**wo-days-per- week** based on the last digit of the service address.
   1. Even-numbered addresses (ending in 0, 2, 4, 6, or 8) water Tuesdays and Saturdays only.
   2. Odd-numbered addresses (ending in 1, 3, 5, 7, or 9) water Wednesdays and Sundays only.

3. Properties having Multiple addresses will be identified by the lowest address number. If no number exists, the Director or his/her designee will assign one.
4. Landscape watering will not be permitted on Mondays, Thursdays, or Fridays.
5. Recommend irrigation of landscaped areas by means of hand-held hose with attached positive shutoff nozzle, soaker hose, bucket, or drip irrigation system.
6. Watering only one-day-per-week is encouraged.

5.16 INDUSTRIAL, COMMERCIAL, INSTITUTIONAL CUSTOMER PROGRAM

The City will develop and begin to implement a program for Industrial, Commercial and Institutional (ICI) customers.

5.17 WEATHER STATION PROGRAM

The City of Blue Ridge currently does not have a weather station program. However, citizens can research information and recommendations to provide landscape watering recommendations through watermyyard.org. Customers can sign up to receive weekly customized e-mails with landscape watering recommendations based on weather conditions during the previous week. The City of Blue Ridge will focus initially on educating the public about the program, providing information on the web-site regarding watering recommendations and encouraging customers to register for e-mail notifications.

APPENDIX A
DEFINITIONS

DEFINITIONS

The following definitions shall apply to the Drought Contingency Plan and the Water Conservation Plan:

Aesthetic water use: water use for ornamental or decorative purpose such as fountains reflecting pools, and water gardens.

Commercial and institutional water use: water which is integral to the operations of commercial and non-profit establishments and governmental entities such as retail establishments, hotels and motels, restaurants, and office buildings.

Conservation: those practices, techniques, and technologies reducing 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 a supply is conserved and made available for future or alternative uses.

Customer: any person, company, or organization using water supplied by Blue Ridge Water Utilities.

Director: means the Director of the Department designated by the City Secretary of the City to enforce and administer the Drought Contingency Plan and the Water Conservation Plan, or the Director's designated representative.

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 Contingency Plan: a strategy or combination of strategies for temporary supply management and demand management responses to temporary and potentially recurring water supply shortages and other water supply emergencies. A Drought Contingency Plan may be a separate document identified as such or may be contained within another water management document(s).

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

Hand-held hose: a typical gardening hose or any flexible tube of plastic, rubber, etc,. for conveying water and other fluids which can be transported and utilized by an individual.

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

Irrigation use: the use of water for the irrigation of crops, trees and pastureland, including, but not limited to, golf courses and parks which do not receive water through a municipal distribution system.

Landscape irrigation use: water used for the irrigation and maintenance of landscaped areas, whether publicly or privately owned, including residential and commercial lawns, gardens, golf courses, parks, and rights-of-way and medians.

Total per capita water use: the sum total of water diverted into a water supply system for residential, commercial, and public and institutional uses divided by actual population served.

Municipal use: the use of potable water within or outside a municipality and its environs whether supplied by a person, privately owned utility, political subdivision, or other entity as well as the use of sewage effluent for certain purposes, including the use of treated water for domestic purposes, fighting fires, sprinkling landscaped medians, flushing sewers and drains, watering parks and parkways, and recreational purposes, including public and private swimming pools, the use of potable water in industrial and commercial enterprises supplied by a municipal distribution system without special construction to meet its demands, and for the watering of lawns and family gardens.

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

(a) irrigation of landscape areas, including parks, athletic fields, and golf courses, except otherwise provided under this Plan;
(b) use of water to wash any motor vehicle, motorbike, boat, trailer, airplane, or other vehicle;
(c) use of water to wash down any sidewalks, walkways, driveways, parking lots, tennis courts, or other hard-surfaced areas;
(d) use of water to wash down buildings or structures for purposes other than immediate fire protection or preparation for painting or maintenance;
(e) flushing gutters or permitting water to run or accumulate in any gutter or street;
(f) use of water to fill, refill, or add 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

Non-Potable Water: water not intended or suitable for drinking and has not been approved for human consumption.

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

Pollution: the alteration of the physical, thermal, chemical, or biological quality of, or the contamination of, any water in the state rendering the water harmful, detrimental, or injurious to humans, animal life, vegetation, or property, or to the public health, safety, or welfare, or impairs the usefulness or the public enjoyment of the water for any lawful or reasonable purpose.

Potable Water: water suitable for drinking and the supply has been investigated and approved.

Public water supplier: an individual or entity supplying water to the public for human consumption.

Regional water planning group: A group established by the Texas Water Development Board to prepare a regional water plan pursuant to Texas Water Code §16.053.

Retail public water supplier: an individual or entity compensated supplies water to the public for human consumption. The term does not include an individual or entity supplying water to itself or its employees or tenants as an incident of said employee service or tenancy when water is not resold to or used by others.

Reuse: the authorized use of water remaining unconsumed after the water's use for its original purpose, for one or more beneficial purposes and before said water is either disposed of or discharged or otherwise allowed to flow into a watercourse, lake, or other body of state-owned water.

Soaker hose: a hose typically made of rubber or plastic allowing water to pass through pores of the hose and drip from the hose, not spray from the hose.

Water Conservation Plan: a strategy or combination of strategies for reducing the volume of water withdrawn from a water supply source, for reducing the loss or waste of water, for maintaining or improving the efficiency in the use of water, for increasing the recycling and reuse of water, and for preventing the pollution of water. A water conservation plan may be a separate document identified as such or may be contained within another water management document(s).

Wholesale public water supplier: an individual or entity is compensated to supply water to another for resale to the public for human consumption. The term does not include an individual or entity that supplies water to itself or its employees or tenants as an incident of that employee service or tenancy when said water is not resold to or used by others.

APPENDIX B
WATER UTILITY PROFILE DATA

Utility Profile
TWDB Form No. 1965 - R
Revised on: 4/1/14

Texas Water Development Board

UTILITY PROFILE FOR RETAIL WATER SUPPLIER

Fill out this form as completely as possible.
If a field does not apply to your entity, leave it blank.

CONTACT INFORMATION

Name of Utility: City of Blue Ridge

Public Water Supply Identification Number (PWS ID): TX0430002

Certificate of Convenience and Necessity (CCN) Number: 13123

Surface Water Right ID Number: Not Applicable

Wastewater ID Number: WQ0010039001

Completed By: Edie Sims Title: City Secretary

Address: 200 S Main City: Blue Ridge Zip Code: 75424

Email: esims@blueridgecity.com Telephone Number: 972-752-5791

Date: 04/02/2019

Regional Water Planning Group: C Map

Groundwater Conservation District: 62 Map

Check all that apply:

- ☐ Received financial assistance of $500,000 or more from TWDB
- ☐ Have 3,300 or more retail connections
- ☐ Have a surface water right with TCEQ

Utility Profile
TWDB Form No. 1965 - R
Revised on: 4/1/14

Texas Water Development Board

Section I: Utility Data

A. Population and Service Area Data

1. Current service area size in square miles: _____
(Attach or email a copy of the service area map.)

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

Year	Historical Population Served By Retail Water Service	Historical Population Served By Wholesale Water Service	Historical Population Served By Wastewater Service
2014	825	0	815
2015	833	0	821
2016	835	0	823
2017	861	0	845
2018	872	0	834

3. Provide the projected service area population for the following decades.

Year	Projected Population Served By Retail Water Service	Projected Population Served By Wholesale Water Service	Projected Population Served By Wastewater Service
2020	925	0	900
2030	2,000	2,000	2,000
2040	4,000	4,000	4,000
2050	12,000	12,000	12,000
2060	20,000	20,000	20,000

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

Due to a line built by North Texas Municipal Water District that is 1/4 mile from the existing City Limits of Blue Ridge, it is anticipated the City will become a customer of North Texas Municipal Water District in the future, thereby we will be purchasing water from NTMWD who is a Wholesale Water Service provider.

Utility Profile
TWDB Form No. 1965 - R
Revised on: 4/1/14

Texas Water Development Board

B. System Input

Provide system input data for the previous five years.

Total System Input = Self-supplied + Imported – Exported

Year	Self-supplied Water in Gallons	Purchased/Imported Water in Gallons	Exported Water in Gallons	Total System Input	Total GPCD
2014	24,412,090	0	0	24,412,090	81
2015	22,952,686	0	0	22,952,686	75
2016	22,499,968	0	0	22,499,968	74
2017	22,006,923	0	0	22,006,923	70
2018	23,914,133	0	0	23,914,133	75
Historic 5-year Average	23,157,160	0	0	23,157,160	75

C. Water Supply System (Attach description of water system)

1. Designed daily capacity of system 8,971 **gallons** per day.
2. Storage Capacity:
   Elevated 150,000 **gallons**
   Ground 0 **gallons**

3. List all current water supply sources in gallons.

Water Supply Source	Source Type*	Total Gallons
Woodbine Acquifer	Ground	42,101,590
	Choose One	
	Choose One	
	Choose One	
	Choose One	
	Choose One	

*Select one of the following source types: *Surface water, Groundwater, or Contract*

4. If surface water is a source type, do you recycle backwash to the head of the plant?
   ○ Yes _____ estimated **gallons** per day
   ○ No

D. Projected Demands

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

Year	Population	Water Demands (gallons)
2020	1,300	25,234,066
2021	1,800	34,939,476
2022	2,000	38,821,640
2023	2,100	40,762,722
2024	2,500	48,527,050
2025	2,600	50,468,132
2026	3,000	58,232,460
2027	3,200	62,114,624
2028	4,000	77,643,280
2029	6,000	116,464,920

2. Describe sources of data and how projected water demands were determined. Attach additional sheets if necessary.

Perceiving one subdivision can change the dynamic of the system, the calculation was addressed by taking the current (2018) water use, dividing by the current population and utilizing the gallons per person for one year times the estimated population.

23914133/1232 = 19410.82 X estimated population

E. High Volume Customers

1. List the annual water use, in gallons, for the five highest volume **RETAIL customers**. Select one of the following water use categories to describe the customer; choose Residential, Industrial, Commercial, Institutional, or Agricultural.

Retail Customer	Water Use Category*	Annual Water Use	Treated or Raw
Blue Ridge ISD	Institutional	834,800	Treated
Blue Ridge Car Wash	Commercial	139,860	Treated
	Choose One		Choose One
	Choose One		Choose One
	Choose One		Choose One

*For definitions on recommended customer categories for classifying customer water use, refer to the online Guidance and Methodology for Reporting on Water Conservation and Water Use.

2. If applicable, list the annual water use for the five highest volume **WHOLESALE customers**. Select one of the following water use categories to describe the customer; choose Municipal, Industrial, Commercial, Institutional, or Agricultural.

Wholesale Customer	Water Use Category*	Annual Water Use	Treated or Raw
None	Choose One		Choose One
	Choose One		Choose One
	Choose One		Choose One
	Choose One		Choose One
	Choose One		Choose One

*For definitions on recommended customer categories for classifying customer water use, refer to the online Guidance and Methodology for Reporting on Water Conservation and Water Use.

F. Utility Data Comment Section

Provide additional comments about utility data below.

Utility Profile
TWDB Form No. 1965 - R
Revised on: 4/1/14

Texas Water Development Board

Section II: System Data

A. Retail Connections

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

Water Use Category*	Active Retail Connections			
	Metered	Unmetered	Total Connections	Percent of Total Connections
Residential – Single Family	408		408	91%
Residential – Multi-family (units)	4		4	1%
Industrial	0		0	0%
Commercial	32		32	7%
Institutional	2		2	0%
Agricultural	0		0	0%
TOTAL	446	0	446	

*For definitions on recommended customer categories for classifying customer water use, refer to the online Guidance and Methodology for Reporting on Water Conservation and Water Use.

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

Water Use Category*	Net Number of New Retail Connections				
	2014	2015	2016	2017	2018
Residential – Single Family				21	
Residential – Multi-family (units)					
Industrial					
Commercial				1	
Institutional					
Agricultural					
TOTAL	0	0	0	22	0

*For definitions on recommended customer categories for classifying customer water use, refer to the online Guidance and Methodology for Reporting on Water Conservation and Water Use.

Utility Profile
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Revised on: 4/1/14

Texas Water Development Board

B. Accounting Data

For the previous five years, enter the number of gallons of RETAIL water provided in each major water use category.

Water Use Category*	Total Gallons of Retail Water				
	2014	2015	2016	2017	2018
Residential - Single Family	1,292,456	1,295,487	1,294,854	1,296,975	1,336,725
Residential – Multi-family					
Industrial					
Commercial	1,683,287	1,680,542	1,684,765	1,685,400	1,693,800
Institutional	3,488,400	3,498,705	3,504,789	3,478,800	35,062,744
Agricultural					
TOTAL	6,464,143	6,474,734	6,484,408	6,461,175	38,093,269

*For definitions on recommended customer categories for classifying customer water use, refer to the online Guidance and Methodology for Reporting on Water Conservation and Water Use.

C. Residential Water Use

For the previous five years, enter the residential GPCD for single family and multi-family units.

Water Use Category*	Residential GPCD				
	2014	2015	2016	2017	2018
Residential - Single Family	1,292,456	1,295,487	1,294,854	1,296,975	1,336,725
Residential – Multi-family					

D. Annual and Seasonal Water Use

1. For the previous five years, enter the gallons of treated water provided to RETAIL customers.

Month	Total Gallons of Treated Retail Water				
	2014	2015	2016	2017	2018
January	1,919,023	1,718,860	1,603,680	1,892,936	1,834,076
February	1,793,418	2,015,968	1,709,616	1,560,297	1,873,532
March	3,598,129	1,394,288	1,728,320	1,537,661	1,598,750
April	2,125,864	1,662,373	1,650,532	1,731,409	2,041,162
May	1,410,416	1,576,051	1,631,190	2,058,357	1,832,700
June	2,278,430	1,891,760	1,082,472	1,853,605	2,131,098
July	1,939,290	2,078,470	2,848,995	1,888,489	2,873,926
August	1,130,160	2,481,294	2,843,334	2,126,690	2,293,270
September	2,583,988	2,418,316	2,069,011	2,009,590	2,056,773
October	2,026,933	1,958,526	1,785,179	1,938,747	2,043,627
November	1,943,069	2,134,709	1,704,125	1,687,512	1,698,579
December	1,663,370	1,622,071	1,843,514	1,721,630	1,663,640
TOTAL	24,412,090	22,952,686	22,499,968	22,006,923	23,941,133

2. For the previous five years, enter the gallons of raw water provided to RETAIL customers.

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

3. Summary of seasonal and annual water use.

Water Use	Seasonal and Annual Water Use					Average in Gallons
	2014	2015	2016	2017	2018	
Summer Retail (Treated + Raw)	5,347,880	6,451,524	6,774,801	5,868,784	7,298,294	6,348,257 5yr Average
TOTAL Retail (Treated + Raw)	24,412,090	22,952,686	22,499,968	22,006,923	23,941,133	23,162,560 5yr Average

E. Water Loss

Provide Water Loss data for the previous five years.

Water Loss GPCD = [Total Water Loss in Gallons ÷ Permanent Population Served] ÷ 365

Water Loss Percentage = [Total Water Loss ÷ Total System Input] x 100

Year	Total Water Loss in Gallons	Water Loss in GPCD	Water Loss as a Percentage
2014	10,030,110	33	41%
2015	11,686,014	38	51%
2016	1,896,052,622	6,221	8,427%
2017	17,795,326	57	81%
2018	18,187,457	57	76%
5-year average	390,750,306	1,281	1,735%

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F. Peak Water Use

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

Year	Average Daily Use (gal)	Peak Day Use (gal)	Ratio (peak/avg)
2014	89,771	54,348	0.61
2015	82,210	57,416	0.70
2016	84,010	58,761	0.70
2017	93,389	59,782	0.64
2018	110,100	89,045	0.81

G. Summary of Historic Water Use

Water Use Category	Historic 5-year Average	Percent of Connections	Percent of Water Use
Residential SF	1,303,299	91%	0%
Residential MF	0	1%	0%
Industrial	0	0%	0%
Commercial	1,685,559	7%	0%
Institutional	9,806,688	0%	0%
Agricultural	0	0%	0%

H. System Data Comment Section

Provide additional comments about system data below.

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Texas Water Development Board

Section III: Wastewater System Data

If you do not provide wastewater system services then you have completed the Utility Profile. Save and Print this form to submit with your Plan. Continue with the Water Conservation Plan Checklist to complete your Water Conservation Plan.

A. Wastewater System Data (Attach a description of your wastewater system.)

1. Design capacity of wastewater treatment plant(s): 220,000 **gallons** per day.

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

Water Use Category*	Active Wastewater Connections			
	Metered	Unmetered	Total Connections	Percent of Total Connections
Municipal	375		375	92%
Industrial			0	0%
Commercial	31		31	8%
Institutional	2		2	0%
Agricultural			0	0%
TOTAL	408	0	408	

2. What percent of water is serviced by the wastewater system? 90 %

3. For the previous five years, enter the number of gallons of wastewater that was treated by the utility.

Month	Total Gallons of Treated Wastewater				
	2014	2015	2016	2017	2018
January			44,000	68,200	80,120
February			41,000	80,700	132,000
March			83,500	77,400	103,000
April			86,000	84,600	79,000
May			70,000	74,410	75,130
June			79,200	64,864	62,350
July			56,000	77,136	64,290
August			60,300	104,500	70,000
September			88,300	64,625	90,670
October			77,300	53,565	174,000
November			95,000	72,478	108,000
December			46,000	83,696	130,400
TOTAL	0	0	826,600	906,174	1,168,960

4. Can treated wastewater be substituted for potable water?
   (●) Yes ( ) No

B. Reuse Data

1. Provide data on the types of recycling and reuse activities implemented during the current reporting period.

Type of Reuse	Total Annual Volume (in gallons)
On-site irrigation	
Plant wash down	
Chlorination/de-chlorination	187,000
Industrial	
Landscape irrigation (parks, golf courses)	
Agricultural	
Discharge to surface water	
Evaporation pond	
Other	
TOTAL	187,000

C. Wastewater System Data Comment

Provide additional comments about wastewater system data below.

You have completed the Utility Profile. Save and Print this form to submit with your Plan. Continue with the Water Conservation Plan Checklist to complete your Water Conservation Plan.

APPENDIX C
BLUE RIDGE CITY CODE

ARTICLE 12.01 GENERAL PROVISIONS*

Sec. 12.01.001 Mandatory use of city water and wastewater facilities

(a) Use required; granting of exceptions. The city adopts a policy mandating use of the city's water and wastewater facilities for all residents inside the corporate city limits. Water and sewer customers shall be required to connect to the city water and wastewater system. Exceptions to this requirement would be granted on a case-by-case basis and granted only upon the approval by a majority of the city council.

(b) Notice of violation; penalty.

(1) Any person found to be violating any provisions of this section shall be served by the city with written notice stating the nature of the violation.

(2) Any person guilty of this violation shall be guilty of a misdemeanor, and on conviction thereof shall be fined in the amount not exceeding two thousand dollars ($2,000.00) for each violation. Each day in which any such violation shall continue shall be deemed a separate offense.

(Ordinance 020607-1 adopted 2/6/07)

ARTICLE 12.02 FEES, CHARGES AND SERVICE POLICIES

Sec. 12.02.001 Applicability

All properties within the corporate limits of the city are required to comply with the city's water, sewer, and solid waste disposal system requirements. (Ordinance 9-6-94-02, sec. 2, adopted 6/5/12)

Sec. 12.02.002 Free service prohibited

No free water or sanitary sewer service shall be rendered by the city in the operation of its water and sanitary sewer systems. All persons, firms, corporations, or associations (collectively, "customers") shall be charged for such services according to the rates previously set by the city. (Ordinance 9-6-94-02, sec. 3, adopted 6/5/12)

Sec. 12.02.003 Application for service; theft of service

(a) Application for service. Any person desiring a connection to the city water and/or sewer system shall complete all applicable sections of attachment 1, "Application for City Utility Service Connection," which is attached to Ordinance 7-3-90 and is hereby made an integral part hereof, prior to any water and/or sewer service being made available to such person.

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* **State law references**–Municipal utilities generally, V.T.C.A., Local Government Code, ch. 552; municipal jurisdiction over electric utility, V.T.C.A., Utilities Code, ch. 33; municipal jurisdiction over water and sewer utility rates, operations and services, V.T.C.A., Water Code, sec. 13.042; municipal jurisdiction over rates, operations and services of gas utility, V.T.C.A., Utilities Code, ch. 103; miscellaneous powers and duties of utilities, V.T.C.A., Utilities Code, ch. 181.

(b) Theft of service. Any person who has connected to and is utilizing the city water and/or sewer system without having completed the application for city utility service connection shall be guilty of theft of city services and shall be subject to a fine not to exceed two hundred dollars ($200.00) for each instance of violation. Each and every day of violation may be considered a separate instance of violation.

(Ordinance 7-3-90 adopted 7/3/90)

Sec. 12.02.004 Deposit

Any customer desiring water service shall make application therefor to the city, together with the required deposit, which deposit must be made at the time the application is submitted. Except as may herein otherwise be provided, the deposit for normal residential connection shall be as set forth in the fee schedule in appendix A of this code. The deposit shall be paid to the city secretary or his/her designee. The city shall hold the deposit so long as the customer is using the service and the city shall not pay any interest thereon. Upon termination of the service, any unpaid balance shall be charged against the deposit and the remaining, if any, shall be refunded to the customer, at the city's discretion, by either making the refund available for pickup at the city hall during normal business hours or forwarding the refund to the customer by U.S. Postal Service to the last known billing address. All 501(c)(3) nonprofit organizations whose status has been verified shall be exempt from the deposit requirement. (Ordinance 9-6-94-02, sec. 4, adopted 6/5/12; Ordinance adopting Code)

Sec. 12.02.005 Billing and payment procedures

(a) The city shall read all water meters once each month and render a monthly bill for water and sewer services to each customer.

(b) Due dates for each bill shall be the tenth (10th) day of each month. Any unpaid bill after the 15th day of each month shall be assessed a penalty charge as set forth in the fee schedule in appendix A of this code.

(c) The city shall discontinue and cut off a customer's service for failure to pay his/her bill by the 21st day of the month in which billing is made. The customer will be required to pay a fee as set forth in the fee schedule in appendix A of this code to have said service resumed, if such service is resumed, which will constitute a delinquency charge. Prior to resuming service which has been discontinued for failure to pay the monthly charges, the city shall require full payment of the account in addition to payment of the deposit required in section 12.02.004 hereof.

(Ordinance 9-6-94-02, sec. 5, adopted 6/5/12; Ordinance adopting Code)

Sec. 12.02.006 Locking of water meter

Whenever any customer of the city terminates water service, either upon request of the customer, upon delinquency, or upon abandoning the premises being provided water service, the city shall lock the water meter serving the premises. (Ordinance 9-6-94-02, sec. 6, adopted 6/5/12)

Sec. 12.02.007 Delinquent accounts of city employees

Any employee with the city is subject to the same rules and regulations for all customers. However, an employee who fails to keep a utility account current shall have their account

reviewed for disconnection by the mayor, at the request of the city secretary or his/her designee. (Ordinance 9-6-94-02, sec. 7, adopted 6/5/12)

Sec. 12.02.008 Right of city to temporarily shut off water in mains

The city reserves the right at any time to shut off the water in its mains for the purpose of cleaning, repairing, or making any connections or extensions, or for any purpose of repairing machinery, the reservoir or any part of the system. (Ordinance 9-6-94-02, sec. 8, adopted 6/5/12)

Sec. 12.02.009 City not liable for damages; supply of water not guaranteed

It is expressly understood as a prerequisite to furnishing services to customers that the city is not liable for any damages on account of leakage or breakage of pipes on any premises. Further, water customers are not guaranteed a specified quantity of water for any purpose whatever, and are not guaranteed any specified water pressure. (Ordinance 9-6-94-02, sec. 9, adopted 6/5/12)

Sec. 12.02.010 Penalty for unlawful restoration of water service

Any person, firm, corporation, or association who restores water service to premises in violation of the provisions of this article shall be deemed guilty of a misdemeanor and upon conviction thereof shall be subject to a fine in a sum not to exceed two thousand dollars ($2,000.00) for each offense, and a separate offense shall be deemed committed upon each day during or on which a violation occurs. (Ordinance 9-6-94-02, sec. 10, adopted 6/5/12)

Sec. 12.02.011 Water surcharge for customers outside city

There shall be a monthly surcharge as set forth in the fee schedule in appendix A of this code per water meter placed on property outside the city limits where city water is being provided or will be provided. The surcharge may be changed at any future time upon proper consultation and agreement between the affected parties and upon supporting evidence showing need for such change. (Ordinance 2000-0509-01 adopted 5/2/00; Ordinance 2000-0509-01 adopted 10/6/15; Ordinance adopting Code)

ARTICLE 12.03 WATER CONSERVATION*

Sec. 12.03.001 Water conservation plan adopted

(a) Adoption. The water conservation plan attached to Ordinance 6-6-93-4, on file in the office of the city, is to be implemented on August 1, 1993.

(b) Violations; penalty. Any violation of the mandatory drought contingency restrictions contained in the plan may cause the termination of water service to the person responsible for the violation. In addition, any person found guilty of such violation shall be subject to a fine of not more than two hundred dollars ($200.00) for such violation. Each day of such violation shall be considered a separate offense.

(Ordinance 6-6-93-4 adopted 7/6/93)

* **State law reference**–Drought contingency plans, V.T.C.A., Water Code, sec. 11.1272.

APPENDIX D

COUNCIL ADOPTED
ORDINANCE 2019-0402-001 FOR
AMENDMENTS MADE TO
ORDINANCE NO. 6-6-93-4 OF
THE WATER MANAGEMENT PLAN
(DROUGHT CONTINGENCY AND WATER CONSERVATION PLAN

CITY OF BLUE RIDGE
ORDINANCE 2019-0402-001

AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF BLUE RIDGE, TEXAS, ADOPTING THE WATER CONSERVATION PLAN AND DROUGHT CONTINGENCY PLAN USED BY THE CITY OF BLUE RIDGE TO PROMOTE RESPONSIBLE USE OF WATER BY ITS CUSTOMERS AND TO PROVIDE FOR PENALTIES AND/OR THE DISCONNECTION OF WATER SERVICE FOR NONCOMPLIANCE WITH THE PROVISIONS OF THE PLAN PROVIDING DEFINITIONS; PROVIDING A SEVERABILITY; PROVIDING A SAVINGS CLAUSE; PROVIDING A REPEALER CLAUSE; PROVIDING A PENALTY CLAUSE; AND PROVIDING FOR PUBLICATION AND AN EFFECTIVE DATE.

WHEREAS, the City of Blue Ridge, Texas ("City") is a Type A General Law Municipality located in Collin County, created in accordance with the provisions of Chapter 6 of the Texas Local Government Code, and operating pursuant to the enabling legislation of the State of Texas; and

WHEREAS, the City of Blue Ridge recognizes the amount of water available to its water customers is limited; and

WHEREAS, the City recognizes due to natural limitations, drought conditions, system failure and other acts of God which may occur, the City cannot guarantee an uninterrupted water supply for all purposes at all times; and

WHEREAS, the Water Code and the regulations of the Texas Commission on Environmental Quality (TCEQ) require the City adopt a Water Management Plan that includes a Drought Contingency and Water Emergency Response Plan; and

WHEREAS, the Texas Administrative Code, Title 30, Section 291(2) states in cases of drought, periods of abnormally high usage, or extended reduction in ability to supply water, restrictions may be instituted to limit water usage in accordance with the utility's approved drought contingency plan; and

WHEREAS, the City has determined an urgent need in the best interest of the public to adopt a Water Conservation Plan and Drought Contingency Plan; and

WHEREAS, the City has previously adopted a drought contingency and water emergency response plan July 6, 1993; and

WHEREAS, pursuant to Chapter 54 of the Local Government Code, the City is authorized to adopt such Ordinances necessary to preserve and conserve its water resources; and

WHEREAS, the City Council desires to adopt the Water Conservation Plan and Drought Contingency Plan as the official City requirements for the conservation of water and is in the best interest and public health, safety and welfare of the citizens of the City of Blue Ridge, Texas and their property.

NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF BLUE RIDGE, TEXAS:

SECTION 1: INCORPORATION OF FINDINGS

That all the above premises are hereby found to be true and correct legislative and factual findings of the City of Blue Ridge, and they are hereby approved and incorporated into the body of this Ordinance as if restated herein in their entirety.

SECTION 2: Deletion and Replacement of Section 12.03.001 of the Code of Ordinances

That Section 12.03.001 (a) is hereby amended by deleting existing Section 12.03.001(a) and replacing it with a new Section 12.03.001 (a) to read as follows:

"Sec. 12.03.001 Water conservation plan adopted

(a) Adoption. The water conservation and drought contingency plan attached to Ordinance 2019-0402-001, on filed in the office of the city, is to be implemented on April 3, 2019.

SECTION 3: NOTICE PROVIDED

The City Council does hereby find and declare that sufficient written notice of the date, hour, place and subject of the meeting adopting this Ordinance was posted at a designated place convenient to the public for the time required by law preceding the meeting, that such place of posting was readily accessible at all times to the general public, and that all of the foregoing was done as required by law at all times during which this Ordinance and the subject matter thereof has been discussed, considered and formally acted upon. The City Council further ratifies, approves and confirms such written notice and the posting thereof.

SECTION 4: SEVERABILITY

It is hereby declared to be the intent of the City Council the several provisions of this Ordinance are severable. In the event any court of competent jurisdiction shall judge any provisions of this Ordinance to be illegal, invalid, or unenforceable, such judgment shall not affect any other provisions of this Ordinance which are not specifically designated as being illegal, invalid or unenforceable.

SECTION 5: SAVINGS

The Code of Ordinances, City of Blue Ridge, Texas. as amended, shall be and remain in full force and effect save and except as amended by this Ordinance.

SECTION 6: REPEALER

This Ordinance shall be cumulative of all other Ordinances, resolutions, and/or policies of the City, whether written or otherwise, and shall not repeal any of the provisions of those ordinances except in those instances where the provisions of those ordinances direct conflict with the provisions of this Ordinance. Any and all Ordinances, resolutions, and/or policies of the City, whether written or otherwise, which are in any manner in conflict with or inconsistent with this Ordinance shall be and are hereby repealed to the extent of such conflict and/or inconsistency.

SECTION 7: EFFECTIVE DATE

This Ordinance shall take effect immediately upon its adoption and the publication of the caption in accordance with and as provided by Texas law.

SECTION 8: FILING WITH COMMISSION

The City Secretary is hereby directed to file a copy of the Plan and this Ordinance with the Commission in accordance with Title 30, Chapter 288 of the Texas Administrative Code.

PASSED AND APPROVED this 2nd day of April, 2019, at a regularly scheduled meeting of the City Council of the City of Blue Ridge, Texas, there being a quorum present, and approved by the Mayor on the date above set out.

APPROVED THIS 2ND DAY OF APRIL, 2019.

BY: _____
Rhonda Williams, Mayor

ATTEST:

_____
Edie Sims, City Secretary

APPENDIX E
EXAMPLE WATER RATIONING PLAN

EXAMPLE

WATER RATIONING PLAN

1. Single-Family Residential Customers

The allocation to residential water customers residing in a single-family dwelling shall be as follows:

Persons Per Household	Gallons Per Month
1 or 2	6,000
3 or 4	7,000
5 or 6	8,000
7 or 8	9,000
9 or 10	10,000
11 or more	12,000

"Household" means the residential premises served by the customer's meter. "Persons per household" includes only those persons currently physically residing at the premises and expected to reside here for the entire billing period. It shall be assumed a particular customer's household is comprised of two (2) persons unless the customer notifies the Blue Ridge Water Utilities of a greater number of persons per household on a form prescribed by the Director. The Director shall give his/her best effort to see such forms are mailed or on file, otherwise provided in person, or made available to every residential customer. If, however, a customer does not receive such a form, it shall be the customer's responsibility to go to the Blue Ridge Water Utilities office to complete and sign the form claiming more than two (2) persons per household. New customers may claim more persons per household at the time of applying for water service on the form prescribed by the Director. When the number of persons per household increases so as to place the customer in a different allocation category, the customer may notify the Blue Ridge Water Utilities on such form and the change will be implemented in the next practicable billing period. If the number of persons in a household is reduced, the customer shall notify the Blue Ridge Water Utilities in writing within two (2) days. In prescribing the method for claiming more than two (2) persons per household, the Director shall adopt methods to insure the accuracy of the claim. Any person who knowingly, recklessly, or with criminal negligence falsely reports the number of persons in a

household or fails to timely notify the Blue Ridge Water Utilities of a reduction in the number of person in a household may be fined during the activation the Water Conservation/Drought Contingency Plan. Residential water customers shall pay the following surcharges:

$3.00 for the first 1,000 gallons over allocation.
$6.00 for the second 1,000 gallons over allocation.
$10.00 for the third 1,000 gallons over allocation.
$15.00 for each additional 1,000 gallons over allocation.

Surcharges shall be cumulative.

2. Master-Metered Multi Family Residential Customers

The allocation to a customer billed from a master meter which jointly measures water to multiple permanent residential dwelling units (e.g., apartments, mobile homes) shall be allocated 6,000 gallons per month for each dwelling unit. It shall be assumed such a customer's meter serves two (2) dwelling units unless the customer notifies the Blue Ridge Water Utilities of a greater number on a form prescribed by the Director. The Director shall give his/her best effort to see such forms are mailed, otherwise provided, or made available to every such customer. If, however, a customer does not receive such a form, it shall be the customer's responsibility to go to the Blue Ridge Water Utilities offices to complete and sign the form claiming more than two (2) dwellings. A dwelling unit may be claimed under this provision whether it is occupied or not. New customers may claim more dwelling units at the time of applying for water service on the form prescribed by the Director. If the number of dwelling units served by a master meter is reduced, the customer shall notify the Blue Ridge Water Utilities in writing within two (2) days. In prescribing the method for claiming more than two (2) dwelling units, the Director shall adopt methods to insure the accuracy of the claim. Any person who knowingly, recklessly, or with criminal negligence falsely reports the number of dwelling units served by a master meter or fails to timely notify the Blue Ridge Water Utilities of a reduction in the number of persons in the household may be fined.

Customers billed from a master meter under this provision shall pay the following monthly surcharges:

- $4.00 for 1,000 gallons over allocating up through 1,000 gallons for each dwelling unit.
- $8.00, thereafter, for each additional 1,000 gallons over allocation up through a second 1,000 gallons for each dwelling unit.
- $12.00, thereafter, for each additional 1,000 gallons over allocation up through a third 1,000 gallons for each dwelling unit.

- $15.00, thereafter for each additional 1,000 gallons over allocation.

Surcharges shall be cumulative.

3. Commercial Customers

A monthly water usage allocation shall be established by the Director, or his/her designee, during the activation the Water Conservation/Drought Contingency Plan for each nonresidential commercial customer other than an industrial customer who uses water for processing purposes. The non-residential customer's allocation shall be approximately eighty-five percent (85%) for the customer's usage for corresponding month's billing period for the previous 12 months. If the customer's billing history is shorter than 12 months, the monthly average for the period for which there is a record shall be used for any monthly period for which no history exists. Provided, however, a customer, whose monthly usage is less than 10,000 gallons, shall be allocated 10,000 gallons. The Director shall give his/her best effort to see notice of each non-residential customer's allocation is mailed to such customer. If, however, a customer does not receive such notice, it shall be the customer's responsibility to contact the Blue Ridge Water Utilities to determine the allocation. Upon request of the customer or at the initiative of the Director, the allocation may be reduced or increased if, (1) the designated period does not accurately reflect the customer's normal water usage, or (2) other objective evidence demonstrates ha he designated allocation is inaccurate under present conditions. A customer may appeal an allocation established hereunder to the Director. Nonresidential commercial customers shall pay he following surcharges.

Customers whose allocation is less than 30,000 gallons per month:

- $5.00 per thousand gallons for the first 1,000 gallons over allocation.
- $10.00 per thousand gallons for the second 1,000 gallons over allocation.
- $15.00 per thousand gallons for the third 1,000 gallons over allocation.
- $20.00 per thousand gallons for each additional 1,000 gallons over allocation.

Customers whose allocation is 30,000 gallons per month or more:

- 1.10 times the block rate for each 1,000 gallons in excess of the allocation up through 5 percent (5%) above allocation.
- 1.20 times the block rate for each 1,000 gallons from 5 percent through 10 percent (10%) above allocation.
- 1.30 times the block rate for each 1,000 gallons from 10 percent through 15 percent (15%) above allocation.
- 1.50 times the block rate for each 1,000 gallons more than 15 percent (15%) above allocation.

The surcharges shall be cumulative. As used herein, "block rate" means the charge to the customer per 1,000 gallons at the regular water rate schedule at the level of the customer's allocation.

4. Industrial Customers

A monthly water usage allocation shall be established by the Director, or his/her designee, during the activation the Water Conservation/Drought Contingency Plan for each industrial customer, which uses water for processing purposes. The industrial customer's allocation shall be approximately ninety percent (90%) of the customer's water usage baseline. Ninety (90) days after the initial imposition of the allocation for industrial customers, the industrial customer's allocation shall be further reduced to eighty-five percent (85%) of the customer's water usage baseline. The industrial customer's water usage baseline will be computed on the average water usage for the prior twelve (12) months period. If the industrial water customer's billing history is shorter than twelve (12) months, the monthly average for the period for which there is a record shall be used for any monthly period for which no billing history exists. The Director shall give his/her best effort to see notice of each industrial customers allocation is mailed to such customer. If, however, a customer does not receive such notice, it shall be the customer's responsibility to contact the Blue Ridge Water Utilities to determine the allocation, and the allocation shall be fully effective notwithstanding the lack of receipt of written notice. Upon request of the customer or at the initiative of the Director, the allocation may be reduced or increased if, (1) the designated period does not accurately reflect the customer's normal water usage because the customer had shut down a major processing unit for repair or overhaul during the period, (2) the customer has added or is in the process of adding significant processing capacity, (3) the customer has shutdown or significantly reduced the production of a major processing unit, (4) the customer has previously implemented significant permanent water conservation measures such that the ability to further reduce usage is limited, or (5) if other objective evidence demonstrates the designated allocation is inaccurate under present condition. A customer may appeal an allocation established hereunder to the Director.

Industrial customers shall pay the following surcharges.

Customers whose allocation is less than 50,000 gallons per month:

- $7.50 per thousand gallons for the first 1,000 gallons over allocation.
- $15.00 per thousand gallons for the second 1,000 gallons over allocation.
- $20.00 per thousand gallons for the third 1,000 gallons over allocation.
- $25.00 per thousand gallons for each additional 1,000 gallons over allocation.

Customers whose allocation is 50,000 gallons per month or more:

- 1.10 times the block rate for each 1,000 gallons in excess of the allocation up through 5 percent (5%) above allocation.
- 1.20 times the block rate for each 1,000 gallons from 5 percent through 10 percent (10%) above allocation.
- 1.30 times the block rate for each 1,000 gallons from 10 percent through 15 percent (15%) above allocation.

The surcharges shall be cumulative. As used herein, "block rate" means the charge to the customer per 1,000 gallons at the regular water rate schedule at the level of the customer's allocation.

APPENDIX F

Correspondence with Region C Water Planning Group

APPENDIX G
TCEQ GUIDELINES

APPENDIXG

TCEQ GUIDELINES

TITLE 30	ENVIRONMENTAL QUALITY
PART 1	TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
CHAPTER 288	WATER CONSERVATION PLANS, DROUGHT CONTINGENCY PLANS, GUIDELINES AND REQUIREMENTS
SUBCHAPT B	DROUGHT CONTINGENCY PLANS
RULE §288.20	**DROUGHT Contingency Plans for Municipal Uses by Public Water Suppliers**

(a) A Drought Contingency plan for a retail public water supplier, where applicable, must include the following minimum elements.

(1) Minimum requirements. Drought Contingency plans must include the following minimum elements.

(A) Preparation of the plan shall include provisions to actively inform the public and affirmatively provide opportunity for public input. Such acts may include, but are not limited to, having a public meeting at a time and location convenient to the public and providing written notice to the public concerning the proposed plan and meeting.

(B) Provisions shall be made for a program of continuing public education and information regarding the Drought Contingency Plan.

(C) The Drought Contingency Plan must document coordination with the regional water planning groups for the service area of the retail public water supplier o ensure consistency with the appropriate approved regional water plans.

(D) The Drought Contingency Plan must include a description of the information o be monitored by the water supplier, and specific criteria for the initiation and termination of drought response stages, accompanied by an explanation of the rationale or basis for such triggering criteria.

(E) The Drought Contingency Plan must include drought or emergency response stages providing for the implementation of measures in response to at least the following situations:

(i) reduction in available water supply up to a repeat of the drought of record;

(ii) water production or distribution system limitations;

(iii) supply source contamination; or

(iv) system outage due to the failure or damage of major water system components (e.g., pumps).

(F) The Drought Contingency Plan must include specific, quantified targets for water use reductions to be achieved during periods of water shortage and drought. The entity preparing the plan shall establish the targets. The goals established by the entity under this subparagraph are not enforceable.

(G) The Drought Contingency Plan must include the specific water supply or water demand management measures to be implemented during each stage of the plan including, but not limited to, the following:

(i) curtailment of non-essential water uses; and

(ii) utilization of alternative water sources and/or alternative delivery mechanisms with the prior approval of the Executive Director as appropriate (e.g., interconnection with another water system, temporary use of a non-municipal water supply, use of reclaimed water for non-potable purposes, etc.).

(H) The Drought Contingency Plan must include the procedures to be followed for the initiation or termination of each drought response stage, including procedures for notification of the public.

(I) The Drought Contingency Plan must include procedures for granting variances to the plan.

(J) The Drought Contingency Plan must include procedures for the enforcement of mandatory water use restrictions, including specification of penalties (e.g., fines, water rate surcharges, discontinuation of service) for violations of such restrictions.

(2) Privately-owned water Utilities. Privately-owned water Utilities shall prepare a Drought Contingency plan in accordance with this section and incorporate such plan into their tariff.

(3) Wholesale water customers. Any water supplier receiving all or a portion of its water supply from another water supplier shall consult with that supplier and shall include in the Drought Contingency Plan appropriate provisions for responding to reductions in said water supply.

(b) A wholesale or retail water supplier shall notify the Executive Director within five business days of the implementation of any mandatory provisions of the Drought Contingency Plan.

(c) The retail public water supplier shall review and update, as appropriate, the Drought Contingency plan, at least every five years, based on new or updated information, such as the adoption or revision of the regional water plan.

Source Note: The provisions of this §288.20 adopted to be effective February 21, 1993, 24 exReg 949; amended to be effective April 27, 2000, 25 exReg 3544; amended to be effective

October 7, 2004, 29 exReg 9384

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 § 288.2 Water Conservation Plans for Municipal Uses by Public Water Suppliers

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(a) A water conservation plan for municipal water use by public water suppliers must provide information in response to the following. If the plan does not provide information for each requirement, the public water supplier shall include in the plan an explanation of why the requirement is not applicable.

(1) Minimum requirements. All water conservation plans for municipal uses by public water suppliers must include the following elements:

(A) a utility profile in accordance with the Texas Water Use Methodology, including, but not limited to, information regarding population and customer data, water use data (including total gallons per capita per day (GPCD) and residential GPCD), water supply system data, and wastewater system data;

(B) specification of conservation goals including, but not limited to, municipal per capita water use goals. the basis for the development of such goals, and a time frame for achieving the specific goals;

(C) specific, quantified five-year and ten-year targets for water savings to include goals for water loss programs and goals for municipal use, in gallons per capita per day. The goals established by a public water supplier under this subparagraph are not enforceable;

(D) metering device(s), within an accuracy of plus or minus 5.0% in order to measure and account for the amount of water diverted from the source of supply;

(E) a program for universal metering of both customer and public uses of water, for meter testing and repair, and for periodic meter replacement;

(F) measures to determine and control unaccounted-for uses of water (for example, periodic visual inspections along distribution lines; annual or monthly audit of the water system to determine illegal connections; abandoned services; etc.);

(G) a program on continuing public education and information regarding water conservation;

(H) a water rate structure which is not "promotional," i.e., a rate structure which is cost-based and which does not encourage the excessive use of water;

(I) 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 in order to optimize available water supplies; and

(J) a means of implementation and enforcement which shall be evidenced by:

(i) a copy of the ordinance, resolution, or tariff indicating official adoption of the water conservation plan by the water supplier; and

(ii) a description of the authority by which the water supplier will implement and enforce the conservation plan; and

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

(2) Additional content requirements. Water conservation plans for municipal uses by public drinking water suppliers serving a current population of 5,000 or more and/or a projected population of 5,000 or more within the next ten years subsequent to the effective date of the plan must include the following elements:

(A) a program of leak detection, repair, and water loss accounting for the water transmission, delivery, and distribution system in order to control unaccounted-for uses of water;

(B) a record management system to record water pumped, water deliveries, water sales, and water losses which allows for the desegregation of water sales and uses into the following user classes:

(i) residential;
(ii) commercial;
(iii) public and institutional;
(iv) Industrial;

(C) 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 the provisions of this chapter.

(3) Additional conservation strategies. Any combination of the following strategies shall be selected by the water supplier, in addition to the minimum requirements in paragraphs (1) and (2) of this subsection, if they are necessary to achieve the stated water conservation goals of the plan.

The commission may require that any of the following strategies by implemented by the water supplier if the commission determines that the strategy is necessary to achieve the goals of the water conservation plan:

(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) adoption of ordinances, plumbing codes, and/or rules requiring water-conserving plumbing fixtures to be installed in new structures and existing structures undergoing substantial modification or addition;

(C) a program for the replacement or retrofit of water-conserving plumbing fixtures in existing structures;

(D) reuse and/or recycling of wastewater and/or graywater;

(E) a program for pressure control and/or reduction in the distribution system and/or for customer connections;

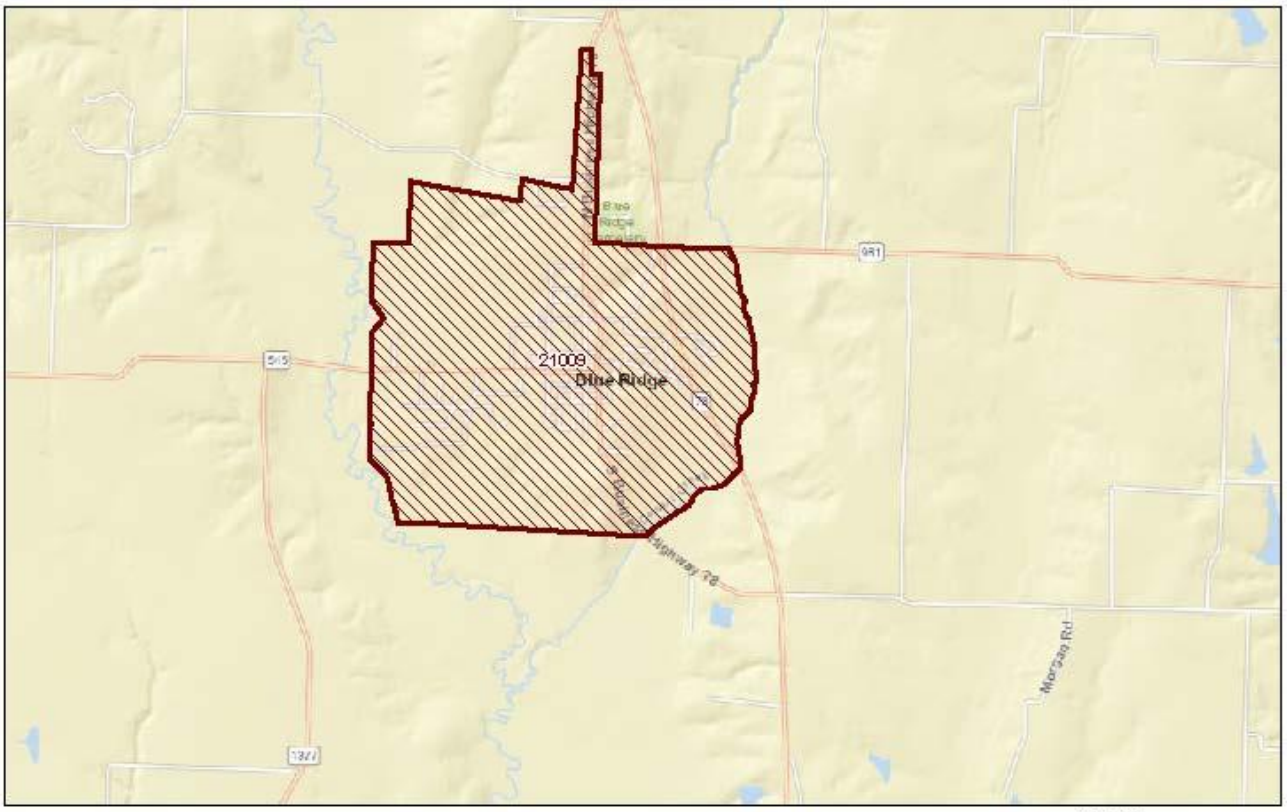
(F) a program and/or ordinance(s) for landscape water management;

(G) a method for monitoring the effectiveness and efficiency of the water conservation plan; and

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

Source Note: The provisions of Section §288.2 adopted to be effective May 3, 1993, 18 exReg 2558; amended to be effective February 21, 1993, 24 exReg 949; amended to be effective April 27, 2000, 25 exReg 3544; amended to be effective October 7, 2004, 29 exReg 9384; amended to be effective December 6, 2012, 37 exReg 9515

City of Blue Ridge Sewer CCN



March 11, 2019

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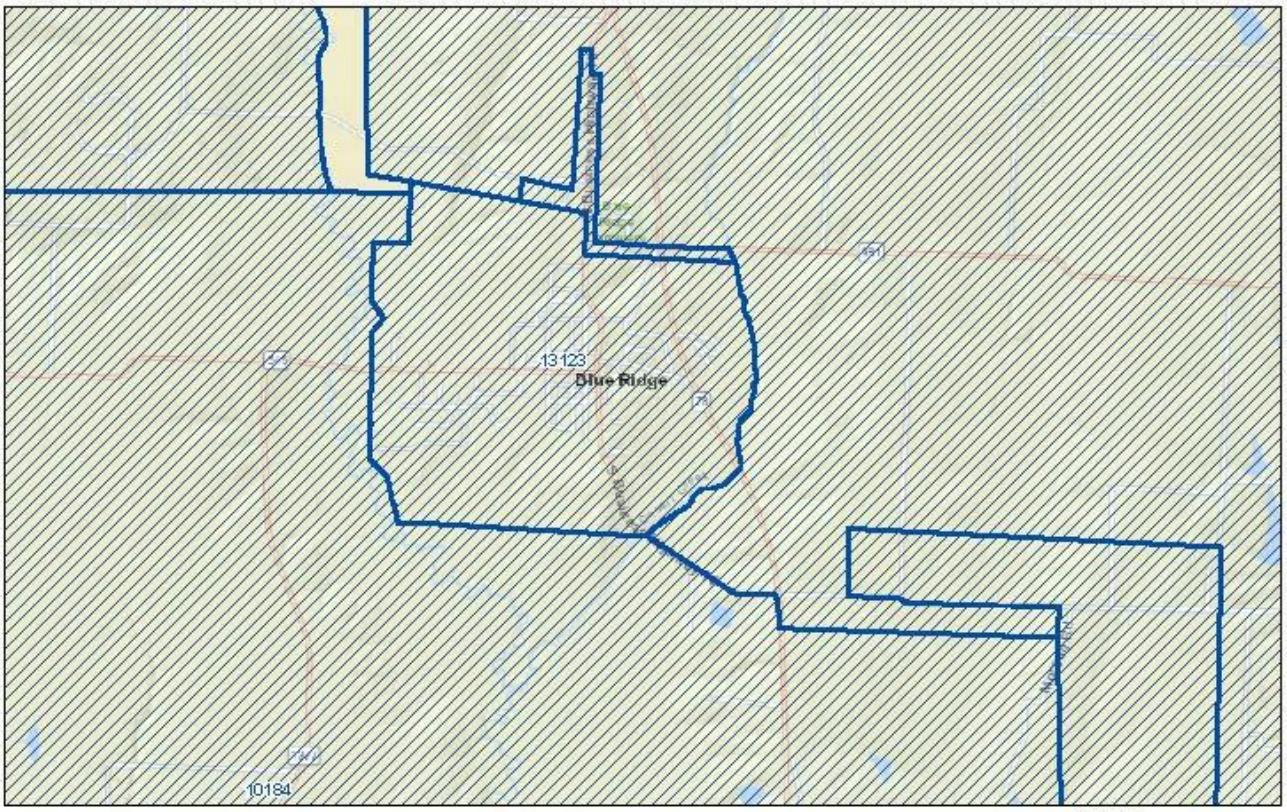
Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan,

City of Blue Ridge Water CCN



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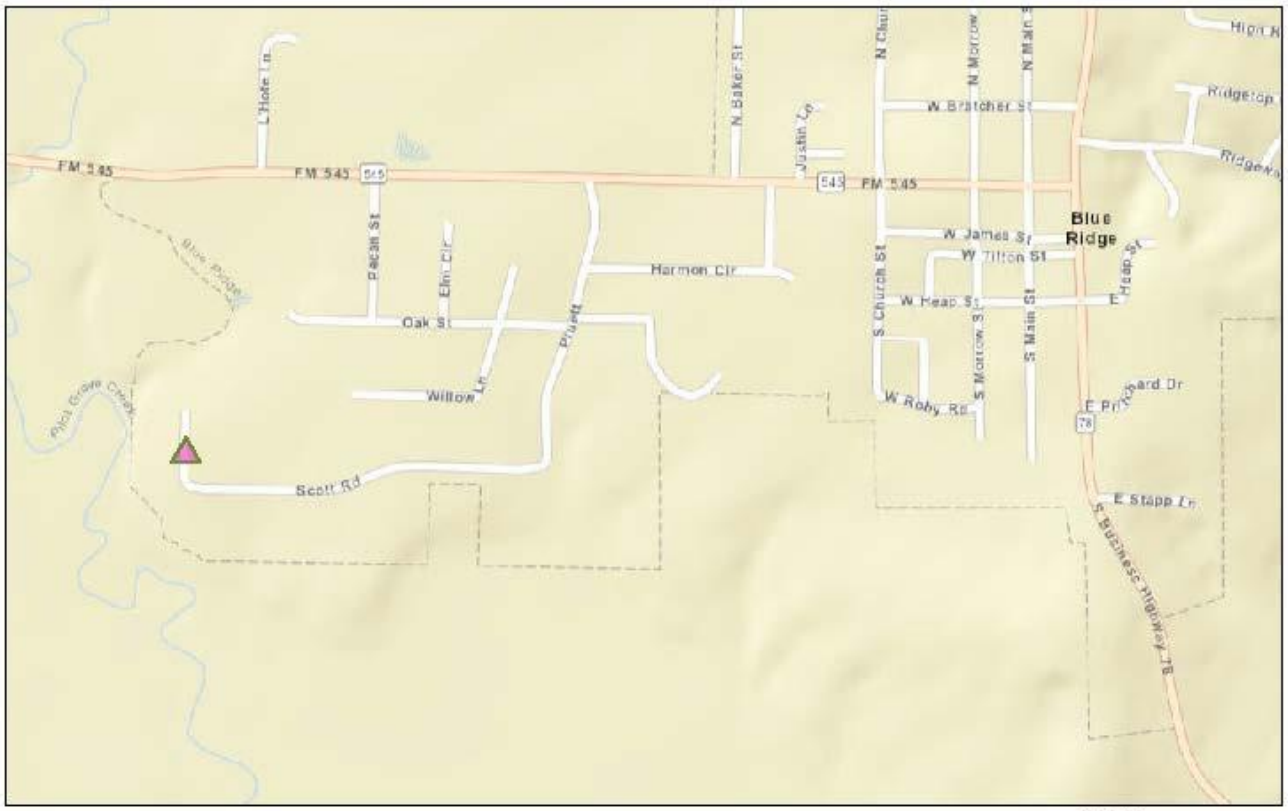
Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan,

Discharge Point at Wastewater Treatment Plant



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