

# **Water Conservation Plan for City of Corinth April 4, 2024**

## **SECTION 1**

### **Introduction and Objectives**

Water supply has always been a key issue in the development of Texas. In recent years, the growing population and economic development of North Central Texas has led to increasing demands for water. Additional supplies to meet higher demands will be expensive and difficult to develop. Therefore, it is important that we make efficient use of existing supplies - - to minimize the need for new resources.

Effective water conservation can postpone or reduce the need for development of new water supplies, minimize the associated environmental impacts and reduce the high cost of water supply development. Even with robust conservation measures, new sources of water will be needed; conservation alone is not enough. To respond to the growing population of this region, the planning for new water resources must continue. The City of Corinth considers water conservation (including reuse of reclaimed wastewater) an integral part of this planning process and water supply development process.

Recognizing the need for efficient use of existing water supplies, the Texas Commission on Environmental Quality (“TCEQ”) has promulgated guidelines and requirements governing the development of water conservation plans for Public Water Suppliers. The City of Corinth developed its original plans for water conservation and drought contingency in 2003, later amended in 2009, 2016, and 2019. This update of the Water Conservation Plan (the “Plan”) has been coordinated with the suggested model water conservation plan prepared by Upper Trinity Regional Water District (“UTRWD”) for its Members and Customers, such as the City of Corinth; and is consistent with the latest TCEQ requirements outlined below.

Water is a basic tenant in all aspects of sustainability. Water conservation is one critical element of a water supplier’s effort to meet future water supply needs, in an economical manner and without sacrificing quality of life standards. The following are the central objectives of this Plan:

- Reduce water consumption from levels that would prevail without conservation efforts;
- Reduce the loss and waste of water, as evidenced by per capita use;
- Provide support and incentives to retail customers to maintain and continue sound conservation practices;
- Continue to improve efficiency in the use of water and
- Extend the adequacy of current water supplies by reducing the pace of growth in the annual demand for water.

#### **1.1 Texas Commission on Environmental Quality Rules**

TCEQ rules governing the development of water conservation plans for Public Water Suppliers, such as the City of Corinth, are contained in Title 30, Part 1, Chapter 288, Subchapter A and Rule 288.2 of the Texas Administrative Code (“TAC”). A copy of these rules is included in Appendix A. The rules define a water conservation plan as:

“A strategy or combination of strategies for reducing the volume of water withdrawn from a water supply source, for reducing the loss or waste of water, for maintaining or improving the efficiency in the use of water, for increasing the recycling and reuse of water, and for preventing the pollution of water.”

New rules amending 30 TAC Chapter 288 were approved by TCEQ commissioners on November 14, 2012 and made effective on December 6, 2012. The following is a summary of the key changes:

- A utility profile must be prepared in accordance with the Texas Water Use Methodology; water use data must include total gallons per capita per day (GPCD) **and** residential GPCD;
- All Public Water Suppliers must classify water sales and uses into the most detailed level of water use data currently available to the record management system (e.g., (i) residential (single family and multi-family), (ii) commercial, (iii) institutional, (iv) industrial, (v) agricultural and (vi) wholesale);
- Five-year and ten-year targets for water savings must include goals for municipal use in total GPCD **and** residential GPCD and
- The term “unaccounted-for uses of water” is replaced with “water loss.”

A. Minimum Water Conservation Plan Requirements

The minimum requirements for water conservation plans for municipal uses by Public Water Suppliers required by TCEQ are summarized below.

- *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 GPCD and residential GPCD), water supply system data and wastewater system data. (Section 2)
- *Record Management System:* Allows for the classification of water sales and uses into the most detailed level of water use data currently available to it, including, if possible, the following sectors: (i) residential (single family and multi-family), (ii) commercial, (iii) institutional, (iv) industrial, (v) agricultural and (vi) wholesale). (Section 3)
- *Goals:* Specific, quantified five-year and ten-year targets for water savings to include goals for water loss programs and goals for municipal use, in total GPCD and residential GPCD. The goals established by a Public Water Supplier are not enforceable under this subparagraph. (Section 4)
- *Accurate Metering Devices:* Metering devices have an accuracy of plus or minus five percent (5%) for measuring water diverted from the source of supply. (Section 5.1)
- *Universal Metering, Testing, Repair and Replacement:* A program for universal metering of both customer and public uses of water, for meter testing and repair and for periodic meter replacement. (Section 5.2)

- *Determination and Control of Water Loss:* Specific measures to determine and control water loss. The measures may include periodic visual inspections along distribution pipelines, periodic audits of the water system for illegal connections or abandoned services. (Section 5.3)
- *Continuing Public Education Program:* A continuing public education and information program regarding water conservation is required as part of the Plan. (Section 5.4)
- *Non-Promotional Water Rate Structure:* A water rate structure that is not “promotional,” that is, rates that discourage waste and excessive use of water such as increasing block rate instead of volume discounts. (Section 5.5)
- *Landscape Water Management Strategy:* Implementing and achieving the efficient use and stewardship of water in landscape irrigation, including watering a maximum of two days per week and time-of-day watering provisions. It is an optional strategy within the TCEQ regulations. However, UTRWD requires that the City of Corinth implement a landscape water management ordinance as part of the Plan. (Section 5.6)
- *Reservoir Systems Operational Plan:* If applicable, providing for the coordinated operation of reservoirs owned by the water supply entity within a common watershed or river basin in order to optimize available water supplies. (Section 5.7)
- *Means of Implementation and Enforcement:* The regulations require a strategy for implementing and enforcing the provisions of this Plan, as evidenced by an ordinance, resolution or tariff, and a description of the authority by which the Plan is enforced. (Section 8)
- *Coordination with Regional Water Planning Group:* Document that the Plan has been coordinated with the Regional Water Planning Group to ensure consistency with the appropriate approved regional water plan. (Section 9)

B. Additional Requirements for Larger Public Water Suppliers

Water conservation plans for municipal uses by Public Drinking Water Suppliers serving a population of 5,000 or more and/or a projected population of 5,000 or more within the 10 years subsequent to the effective date of this Plan must include the elements summarized below.

- *Program of Leak Detection, Repair and Water Loss Accounting:* A program of leak detection, repair and water loss accounting for the water transmission, delivery and distribution system in order to control for water loss. (Section 6.1)
- *Wholesale Customer Requirements:* If applicable, a requirement in every wholesale water supply contract entered into or renewed after official adoption of the water conservation plan, and including any contract extension, that each successive wholesale customer develop and implement a water conservation plan or water conservation measures using the applicable elements in Title 30 TAC Chapter 288. (Section 6.2)

C. Enhanced Water Conservation Program Strategies

TCEQ rules identify the following strategies as optional if they are necessary to achieve the stated water conservation goals of the Plan. The City of Corinth observes these strategies as necessary to achieve the goals of this Plan.

- Conservation-oriented water rates and water rate structures (Section 5.5);
- 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 (Section 7.1);
- A program for the replacement or retrofit of water-conserving plumbing fixtures in existing structures;
- Reuse and/or recycling of wastewater and/or gray water, where feasible and appropriate (Section 7.2);
- A program for pressure control and/or reduction in the distribution system and/or for customer connections (Section 7.3);
- A method for monitoring the effectiveness and efficiency of the Plan (Section 7.4 and Section 10)
- Any other water conservation practice, method or technique which the Public Water Supplier shows to be appropriate for achieving the stated goal or goals of the water conservation plan (Section 7.5 – 7.10) and
- Prohibit the use of potable water to fill or refill residential, amenity, and any other natural or manmade ponds. A pond is considered to be a still body of water with a surface area of 500 square feet or more.

This Plan sets forth a program of long-term measures under which the City of Corinth can improve the overall efficiency of water use and conserve its water resources. Short-term measures that respond to specific water management conditions (i.e., periods of drought, unusually high water demands, unforeseen equipment or system failure or contamination of a water supply source) are provided in the City of Corinth’s Drought Contingency Plan.

## **SECTION 2**

### **Water Utility Profile**

Appendix B to this Plan provides the utility profile as recommended by TCEQ. The utility profile must be in accordance with the Texas Water Use Methodology developed by the Texas Water Development Board (“TWDB”) and TCEQ to include information regarding population and customer data, water use data, water supply system data (including total GPCD and residential GPCD) and wastewater system data. A copy of the utility profile for the City of Corinth will also be provided to UTRWD.

*(Additional information may be included in this section if desired)*

## SECTION 3

### Record Management System

The City of Corinth's current record management system is able to classify water use data into the following sectors: – i.e., residential (single family and multi-family), commercial, institutional, industrial, agricultural and wholesale.

## SECTION 4

### Water Conservation Planning Goals

TCEQ rules require the adoption of specific water conservation goals as part of the Plan. The City of Corinth has developed 5-year and 10-year target water saving goals (see Table 4.1 below) for municipal use in total GPCD and residential GPCD. Specific water conservation strategies are discussed in the subsequent sections of this Plan. The goals of this Plan include the following:

- Maintain accurate supply source metering to measure and account for the amount of water diverted from the source of supply;
- Maintain a program of universal metering, meter replacement and repair and periodic meter replacement;
- Maintain the level of water loss in the City of Corinth's water system below 15% annually;
- Raise public awareness of water conservation and encourage responsible public behavior through a coordinated public education and information program;
- Continue to implement a water rate structure to encourage water conservation;
- Maintain a reservoir systems operations plan, providing for the coordinated operation of reservoirs;
- Implement and enforce the Plan by officially adopting the Plan through an ordinance, describing the authority by which the City of Corinth will implement and enforce the Plan and documenting coordination with the Region C Water Planning Group;
- Maintain a program of leak detection and repair;
- *(if applicable)* Ensure that each wholesale customer develops and implements a water conservation plan with similar and consistent strategies as provided in this Plan; and
- Decrease waste in lawn irrigation by implementing and enforcing landscape water management regulations and

**Table 4.1  
Municipal Per Capita Target Water Saving Goals**

|                                | <b>Historic 5-yr Average</b> | <b>Baseline</b> | <b>5-yr Goal for year 2029</b> | <b>10-yr Goal for year 2034</b> |
|--------------------------------|------------------------------|-----------------|--------------------------------|---------------------------------|
| Total GPCD <sup>1</sup>        | <b>134</b>                   | <b>129</b>      | <b>125</b>                     | <b>123</b>                      |
| Residential GPCD <sup>2</sup>  | <b>100</b>                   | <b>100</b>      | <b>100</b>                     | <b>99</b>                       |
| Water Loss (GPCD) <sup>3</sup> | <b>13</b>                    | <b>23</b>       | <b>23</b>                      | <b>22</b>                       |
| Water Loss (%) <sup>4</sup>    | <b>9.69%</b>                 | <b>15%</b>      | <b>10%</b>                     | <b>10%</b>                      |

1. Total GPCD = (Total Gallons in System ÷ Permanent Population) ÷ 365

2. Residential GPCD = (Gallons Used for Residential Use ÷ Residential Population) ÷ 365

3. Water Loss GPCD = (Total Water Loss ÷ Permanent Population) ÷ 365

4. Water Loss Percentage = (Total Water Loss ÷ Total Gallons in System) x 100; or (Water Loss GPCD ÷ Total GPCD) x 100

## SECTION 5

### Basic Water Conservation Strategies

This section outlines the City of Corinth’s basic water conservation program strategies that are planned to be implemented to achieve or exceed the stated water conservation goals above.

#### 5.1 Accurate Supply Source Metering

The City of Corinth uses the following source(s) of water: groundwater pumped plus treated surface water supplied by UTRWD. The City of Corinth meters all water delivered into the distribution system from each water well site using meters having an accuracy of plus or minus five percent (5%). The City of Corinth currently calibrates its meters at each water well site on a regular basis and regularly checks the calibration of each meter at one (1) to two (2) year intervals.

For surface water, UTRWD measures all water delivered to the City of Corinth using meters with an accuracy of plus or minus two percent (2%) in accordance with American Water Works Association (“AWWA”) standards. Said meters are calibrated annually in accordance with AWWA standards. When necessary, UTRWD repairs or replaces meters not conforming to an accuracy of plus or minus two percent (2%).

#### 5.2 Universal Metering, Meter Testing and Repair and Periodic Meter Replacement

Water usage for all customers of the City of Corinth, including public and governmental users, is metered. The City of Corinth will continue to implement its meter testing and calibration program of its service connections to identify any water loss and to determine if the meter readings are outside the acceptable range according to AWWA standards.

Meters registering any unusual or questionable readings are tested for accuracy. Inaccurate meters are repaired or replaced as needed. The City of Corinth replaces meters at 10 to 15-year intervals depending on meter size. Repair or replacement of larger general service meters is generally provided at 5-year intervals.

The City of Corinth understands the benefits of Advanced Metering Infrastructure (AMI), including greater customer service opportunities and alerting retail customers of potential leaks. The City of Corinth has implemented AMI.

### **5.3 Determination and Control of Water Loss**

Water loss is the difference between the amount of water produced or received and the amount delivered to retail, public and governmental users - - plus authorized but unmetered uses. Water loss can include several categories:

- Inaccuracies in retail meters;
- Accounts which are being used but have not yet been added to the billing system;
- Losses due to water main breaks and leaks in the water distribution system;
- Losses due to illegal connections and theft and
- Unmetered uses such as firefighting, flushing water mains and water for public buildings and water treatment plants.

Measures to control water loss are part of the routine operations of the City of Corinth. Field crews and other personnel are expected to look for and report evidence of leaks in the water distribution system. Personnel are trained to watch for and report signs of illegal connections so they can be quickly addressed.

Water loss is calculated in accordance with the water utility profile in Appendix B. With the measures described in this Plan, the goal for the City of Corinth is to maintain its water loss below fifteen percent (15%) annually. If water loss exceeds this goal, the City of Corinth will complete an audit of its water distribution system to determine the source(s) of and reduce the water loss.

According to the Texas Water Code Section 16.0121, all retail public water suppliers are required to submit a water loss audit once every five years. Retail public water suppliers with either an active financial obligation with the TWDB or having more than 3,300 connections must submit a water loss audit every year. The City of Corinth will complete the water loss audit every years as required, and will be the primary tool that will be used to monitor water loss.

### **5.4 Continuing Public Education and Information Program**

The ultimate success of any water conservation program is dependent on an informed public. Individual retail customers must have an awareness of the benefits and needs for water conservation. They must also have knowledge of how to contribute to the success of the Plan. The City of Corinth's public education and information program, including dedicated staff for this program, is designed to provide information to as many retail customers as possible. The City of Corinth works in collaboration with UTRWD to provide this information. The City of Corinth will promote its water conservation strategies outlined in this Plan as well as the measures and activities discussed below.

- Informative School Program. Provide water conservation information to area schools. This may consist of providing literature and coloring books, classroom presentations, demonstrations, etc. Staff may also coordinate with local schools to have Upper Trinity staff make presentations and demonstrations about water conservation and watershed

protection, including an Enviroscape watershed model, rainfall simulator, stream erosion trailer, etc.

- Literature Program. Insert water conservation information with water bills at least twice per year as well as make information available to the public at utility offices or other public places. Information may include material developed by the City of Corinth's staff using material obtained from UTRWD, Texas A&M AgriLife, TWDB, TCEQ and other sources that pertain to water conservation in general and specific to landscape irrigation conservation.
- Special Events and Promotions. Make available promotional / educational items at special events focusing on water conservation in the landscape, home and business. Items may include Texas SmartScape® bookmarks, water bottles, toilet-leak test kits, water conservation coloring books, etc.
- Website. Make information on water conservation available on the City's website and include links to sites with good information about water conservation, such as to Texas SmartScape, AgriLife Water University, TWDB and TCEQ.
- Speaking Engagements. Notify local organizations, schools and civic groups that the City's staff, and staff of UTRWD, are available to make presentations on the importance of water conservation and the best ways to save water.

As a demonstration project, UTRWD maintains a water conservation garden to showcase the beauty and practicality of a water-conserving landscape. The conservation garden includes over 100 varieties of plants that are either native to North Texas or well adapted to the area, and is available for use by the City of Corinth, garden clubs, developers or other civic groups who desire to advance their knowledge and use of water conservation practices in home and business landscapes.

Other best management practices that may be included as part of the public education and information program:

- Public service announcements;
- Water efficient landscape judging / competition and
- Awards / certificates to recognize water efficient commercial users – recognize water saving landscape designs

## **5.5 Non-Promotional Water Rate Structure**

The City of Corinth has adopted an increasing block water rate structure that is intended to encourage water conservation and discourage waste and excessive use of water.

### Residential Rates

1. *Monthly minimum charge. This can (but does not have to) include up to 2,000 gallons water use with no additional charge.*



2. Base charge per 1,000 gallons up to the approximate average residential use.
3. 2<sup>nd</sup> tier (from average to 2 times the approximate average) at 1.25 to 2.0 times the base charge.
4. 3<sup>rd</sup> tier (above 2 times the approximate average) at 1.25 to 2.0 times the 2<sup>nd</sup> tier.

\*The residential rate can also include a lower tier (a life-line rate) for basic household use up to 4,000 gallons per month or a determined basic use.

Commercial / Industrial Rates

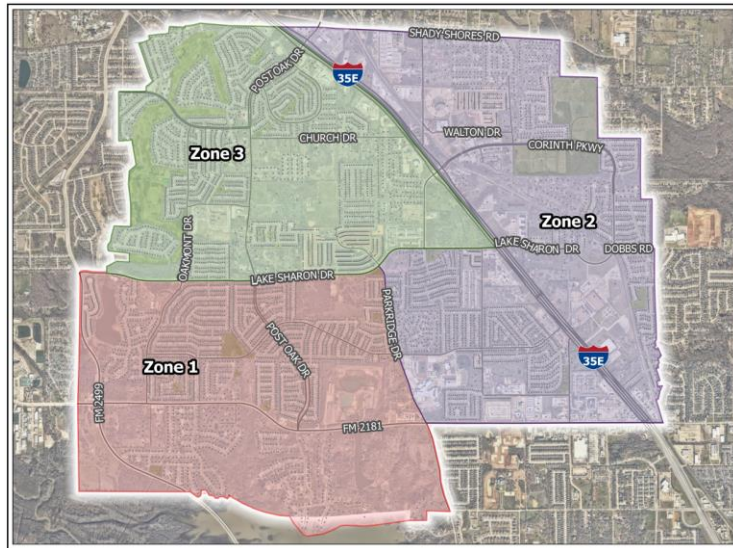
Commercial / industrial rates should include at least two (2) tiers, with rates for the 2<sup>nd</sup> tier at 1.25 to 2.0 times the first tier. Higher water rates for commercial irrigation use are encouraged, but not required.

**5.6 Landscape Water Management Program/Ordinances**

The City of Corinth seeks to promote the efficient use and stewardship of water and to help UTRWD provide a consistent message throughout its service area. The City of Corinth has implemented the following landscape water management strategies:

- *Watering Maximum of Two Days Per Week.* Limit outdoor watering (automatic systems or hose-end sprinklers) to no more than two (2) days per week. Watering with hand-held hoses, soaker hoses or drip irrigation is allowed at any time.

Designated Watering Schedule



| Designated Zone | Allowed Watering Days  |
|-----------------|------------------------|
| Zone 1          | Monday and Thursday    |
| Zone 2          | Tuesday and Friday     |
| Zone 3          | Wednesday and Saturday |

- Retail customers may obtain a variance from the City for the establishment of new sod and other landscape plants. Said variance allows for watering more than two days per week for up to 30 days to establish new plant material, as prescribed in the table below. If additional time is necessary, requests may be submitted for review.

| Plant Establishment Week | Watering Days and Times |
|--------------------------|-------------------------|
| Week 1                   | Two Times Per Day       |
| Week 2                   | One Time Per Day        |
| Week 3                   | Once Every Other Day    |
| Week 4                   | Two Days Per Week       |

- *Time of Day Watering.* No outdoor watering with automatic irrigation systems or hose-end sprinklers from 10:00 a.m. to 6:00 p.m. on any day of the year. Watering with hand-held hoses, soaker hoses or drip irrigation systems is allowed at any time.
- *Water Waste.* Prohibit the design, installation, and operation of irrigation systems that spray directly onto impervious surfaces such as sidewalks and roads or onto other non-irrigated areas. Require well maintained automatic irrigation systems to avoid waste of water, such as repairing broken sprinkler heads, or leaking or broken valves or pipes. Prohibit outdoor watering during any form of precipitation and during freezing temperatures, and overwatering resulting in water runoff of 50 feet or more from the property.

These strategies will be actively promoted by the City of Corinth through public information programs and enforcement for mandatory compliance by its customers.

The City of Corinth offers an optional rebate program to encourage greater efficiency on outdoor irrigation systems. The rebate program includes the following concepts:

- Rain/freeze sensors for irrigation systems;
- Smart controllers for irrigation systems;
- Watering timers for hoses or outdoor water spouts;
- Irrigation upgrades; and
- Waterwise landscape/irrigation design.

In addition, the City of Corinth and UTRWD have implemented the ‘Water My Yard’ outdoor watering management program to City of Corinth’s area. The ‘Water My Yard’ website, [WaterMyYard.org](http://WaterMyYard.org), allows residents to receive weekly lawn watering recommendations, which are given in minutes of runtime. Recommendations are based on data from three weather stations that UTRWD maintains, as well as the landscape’s needs, to prevent unnecessary overwatering. ‘Water My Yard’ is provided at no cost to residents, and the City will promote ‘Water My Yard’ in utility bills, newsletters and websites as appropriate.

Additional strategies implemented to reduce waste in landscape irrigation include:

- Require all new irrigation systems include rain and freeze sensors;
- Require all new irrigation systems be in compliance with state design and installation standards (TAC Title 30, Part 1, Chapter 344);
- Enforce strategies by a system of warnings followed by fines for continued or repeat violations.

## **5.7 Reservoir Systems Operations Plan**

Not applicable to the City of Corinth because the City does not own any reservoirs.

## **SECTION 6**

### **Requirements for Larger Public Drinking Water Suppliers**

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 ten (10) years subsequent to the effective date of this Plan must include the elements below.

#### **6.1 Leak Detection, Repair and Water Loss Program**

Most water leaks, illegal connections, abandoned water services or other means of water loss are discovered through the visual observation of field crews and other personnel, or are reported by the public. The City of Corinth trains its personnel (e.g., meter readers, maintenance crews, etc.) to look for and report evidence of water leaks in the water distribution system to the appropriate department. Personnel are asked to watch for and report signs of illegal connections and abandoned services. All leaks are repaired as soon as possible, and all illegal connections and abandoned services are investigated as soon as possible in order to maintain a sound water system. Areas of the water distribution system in which numerous leaks and line breaks occur are programmed for replacement, as funds are available.

Specialized, state-of-the-art leak detection equipment is available to utilities in Texas to borrow free of charge from the Conservation Division of the TWDB to reduce water loss by detecting water leaks within the water distribution system.

#### **6.2 Water Conservation Plans by Wholesale Customers**

Not applicable to the City of Corinth because the City does not have any successive wholesale customers.

## **SECTION 7**

### **Additional Water Conservation Strategies**

The City of Corinth has selected the following additional water conservation strategies, described below, to achieve the water conservation goals of the plan.

### **7.1 Ordinances, Plumbing Codes or Rules on Water-Conserving Fixtures**

The State of Texas has required water-conserving fixtures in new construction and renovations since 1992, with standards updated in 2010 (Texas Administrative Code, Title 30, Section 290.252). The State's standards call for flows of no more than 2.2 gallons per minute (gpm) at a pressure of 60 pounds per square inch (psi) for faucets, 2.5 gpm for showerheads at 80 psi, 1.28 gallons per flush for toilets, 0.5 gallons per flush for urinals, and 1.6 gpm for commercial pre-rinse spray valves. Similar standards are now required nationally under federal law. These state and federal standards assure that all new construction and renovations will use water-conserving fixtures. The City of Corinth has incorporated these plumbing code standards into its building regulations.

The City of Corinth offers an optional rebate program to encourage replacement of older fixtures with water conserving fixtures. Over the next five (5) years, the City of Corinth plans to evaluate the feasibility and merits of additional rebate items. The current rebate program includes the following concepts:

- High-efficiency toilet replacement and rebate;

### **7.2 Reuse and Recycling of Wastewater and / or Gray Water**

The City of Corinth cooperates with UTRWD in the promotion of and achieving reuse of treated effluent on a regular basis.

### **7.3 Pressure Control Program**

The City of Corinth has determined a reasonable system pressure for each pressure zone in its retail distribution system and has installed internal pressure control stations and customer service pressure regulators where needed.

### **7.4 Means for Measuring Success**

The City of Corinth will make every effort to measure and quantify water savings achieved through its programs. The water saving results will be used to monitor the effectiveness and efficiency of the City of Corinth's water conservation program. The results will also be regularly reported to UTRWD.

### **7.5 Water Conserving Landscaping**

As part of its public education program, the City of Corinth encourages its retail customers to incorporate Texas SmartScape® principles into their respective landscapes. Texas Smartscape was developed through the North Central Texas Council of Governments in cooperation with cities, utilities and other agencies to educate citizens on the ecological, economic and aesthetic benefit of using landscape plants, shrubs, grasses and trees that are native or adapted to the regional climate and local conditions. Using Texas SmartScape principles can be both practical

and beautiful, using earth-friendly techniques that conserve water resources and protect water quality.

## **7.6 Watershed Protection**

Protecting our watershed is a priority for every citizen and every community. As a double benefit, strategies that promote water conservation also tend to protect the quality of water resources. Using earth-friendly techniques, such as native and adaptive plant materials and organic techniques for landscaped areas, requires less water and less use of fertilizers, pesticides and other chemicals. Overuse or improper use of fertilizer, pesticides and other chemicals from landscape activities is also a major source of pollutants that find their way into water resources.

The City of Corinth is participating in UTRWD's coordinated program for watershed protection aimed at educating the public about protecting local watersheds and water quality. To help communicate the important role that watersheds have in the water supply for this region, UTRWD created a watershed logo and sign for Customers', such as the City of Corinth's, use.

*The City of Corinth has adopted the Denton County Greenbelt Plan and is evaluating various strategies to implement in the City's respective area. The City of Corinth is also participating on the Coordinating Committee to encourage other municipalities to adopt the Greenbelt Plan as well.*

## **7.5 Irrigation System Evaluations / Technical Assistance**

To improve water conservation and efficiency in landscape watering practices, the City of Corinth, in cooperation with UTRWD, provides technical assistance to retail customers (residential, industrial, commercial and institutional). The City of Corinth has partnered with UTRWD to provide irrigation system evaluations to retail customers at no cost. During the evaluation, the licensed irrigator may identify potential system leaks, diagnose equipment malfunctions and recommend equipment upgrades to enhance water efficiency. During the evaluation, education about good landscape watering practices and the use of earth-friendly materials is also shared with the retail customer.

## **7.6 Industrial, Commercial and Institutional (ICI) Audits**

The City of Corinth, in coordination with UTRWD, offers an outreach program to assist large water users find ways to operate more efficiently, save water and energy and lower their costs. Water savings are realized as the ICI customers implement audit recommendations. In addition to these audits, ICI customers who have implemented said recommendations and have taken proactive steps in using water more wisely and efficiently are publicly recognized.

In 2018, the Denton County Commissioners Court entered into an agreement to make the Property Assessed Clean Energy (PACE) financing program available to non-residential property owners. The PACE program provides low cost, long-term financing for energy and water efficiency upgrades for commercial, industrial, institutional and multi-family properties. The City of Corinth may promote this to ICI customers to encourage water use reduction.

## **7.9 In-House Water Conservation Efforts**

The City of Corinth has implemented an in-house water conservation program, including the following elements:

- The City of Corinth uses native or adapted drought tolerant plants, trees and shrubs in the majority of its landscapes;
- Irrigation at the City of Corinth’s facilities occurs during off-peak times at night and early morning to avoid evaporation losses;
- Irrigation is limited to the amount needed to promote survival and health of plants and lawns, including limitation on frequency and time-of-day watering (see Section 5.6);
- Irrigation will be avoided on Saturday and Sunday if possible, since these are periods of high water use by the public, and
- Irrigation will be accomplished with treated wastewater effluent wherever feasible and practicable.

### **7.10 Water Conservation Coordinator**

UTRWD requires each Customer, such as the City of Corinth, designate a Water Conservation Coordinator. State law now requires utilities with 3,300 connections or more to designate a Water Conservation Coordinator, according to Section 13.146 of the Texas Water Code. The Conservation Coordinator is responsible for the preparation, implementation and enforcement of the City of Corinth’s Water Conservation and Drought Contingency Plans, as well as the preparation and submittal of annual conservation status reports and implementation of the City of Corinth’s conservation program.

## **SECTION 8**

### **Implementation and Enforcement**

A copy of the City of Corinth’s ordinance indicating official adoption of the water conservation plan is provided in Appendix C. The Water Conservation Coordinator is authorized to implement and enforce the Plan as described in Section 7.10. Such responsibilities may involve:

- Overseeing the execution and administration of all Plan elements;
- Supervising the keeping of records for the program verification and to assess the program effectiveness and
- Making recommendations for changes in the Plan as needed.

## **SECTION 9**

### **Coordination with Regional Water Planning Group and UTRWD**

The City of Corinth has coordinated with the Region C Water Planning Group and UTRWD to ensure consistency with the approved regional water plan and UTRWD’s water conservation plan. The City of Corinth sent a copy of the draft ordinance(s) or resolution(s) implementing the Plan

and the water utility profile to UTRWD for review and approval. After adoption, the City of Corinth sent the final ordinance, the Plan and the adopted water profile to UTRWD. Appendix D includes a copy of the letter sent to the Chair of the Region C Water Planning along with the City of Corinth's Plan.

## **SECTION 10**

### **Review and Update of Water Conservation Plan and Annual Reports**

As required by TCEQ rules, the City of Corinth will review and update this Plan every five (5) years. The Plan will be updated as appropriate based on an assessment of previous five-year and ten-year targets and any other new or updated information. The next revision of the Plan is due by May 1, 2029. Any revised Plan must be submitted to the TCEQ within 90 days of adoption and include an implementation report as provided in Appendix E. The revised plan must also be submitted to the TWDB within 90 days of adoption.

The City of Corinth is also required to submit an annual report. Annual reports are due to TWDB by May 1 of each year to report the City of Corinth's progress in implementing its water conservation plan. Said report will be used to monitor the effectiveness and efficiency of the City of Corinth's water conservation program. The results of the annual report may also be used to plan conservation-related activities for the following year. The City of Corinth will send a copy of the annual report to UTRWD by March 31 of each year.

## **APPENDICES**

- |             |   |
|-------------|---|
| Appendix A. | TCEQ Minimum Requirements of a Water Conservation Plan – Title 30, Part 1, Chapter 288, Subchapter A and Rule 288.2 |
| Appendix B. | Utility Profile   |
| Appendix C. | Copy of Ordinance adopted by City Council Implementing the Water Conservation Plan                                  |
| Appendix D. | Coordination with Regional Planning Group   |
| Appendix E. | Revised Plan Implementation Letter  |

**APPENDIX A**  
**TCEQ Minimum Requirements of a**  
**Water Conservation Plan for Municipal Uses by Public Water Suppliers**  
**(Subchapter A, Rule §288.20)**  
**Effective December 6, 2012**

(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) a record management system which allows for the classification of water sales and uses into the most detailed level of water use data currently available to it, including, if possible, the sectors listed in clauses (i) - (vi) of this subparagraph. Any new billing system purchased by a public water supplier must be capable of reporting detailed water use data as described in clauses (i) - (vi) of this subparagraph:

(i) residential;

(I) single family;

(II) multi-family;

(ii) commercial;

(iii) institutional;

(iv) industrial;

(v) agricultural; and,

(vi) wholesale.

(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 total GPCD and residential GPCD. 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 water loss (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 of 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;

(B) 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 be 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.

(b) A water conservation plan prepared in accordance with 31 TAC §363.15 (relating to Required Water Conservation Plan) of the Texas Water Development Board and substantially meeting the requirements of this section and other applicable commission rules may be submitted to meet application requirements in accordance with a memorandum of understanding between the commission and the Texas Water Development Board.

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

**APPENDIX B**  
**Utility Profile**

## UTILITY PROFILE FOR RETAIL WATER SUPPLIER

### CONTACT INFORMATION

Name of Utility: CITY OF CORINTH

Public Water Supply Identification Number (PWS ID): TX0610065

Certificate of Convenience and Necessity (CCN) Number: P0604

Surface Water Right ID Number:

Wastewater ID Number:

Contact: First Name: Glenn Last Name: Barker

Title: Director of Public Works

Address: 3300 Corinth Parkway City: Corinth State: TX

Zip Code: 76208 Zip+4: Email: Glenn.Barker@cityofcorinth.com

Telephone Number: 9404987510 Date:

Is this person the designated Conservation Coordinator?  Yes  No

Coordinator: First Name: Haley Last Name: Koehler

Title: Senior Administrative Assistant

Address: 3300 Corinth Parkway City: Corinth Zip Code: 76208

Email: Haley.Koehler@cityofcorinth.com Telephone Number: 940-498-7511

Regional Water Planning Group: C

Groundwater Conservation District:

Our records indicate that you:

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

#### A. Population and Service Area Data

1. Current service area size in square miles: 8

## UTILITY PROFILE FOR RETAIL WATER SUPPLIER

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

| Year | Historical Population Served By Retail Water Service | Historical Population Served By Wholesale Water Service | Historical Population Served By Wastewater Water Service |
|------|--|---|--|
| 2023 | 22,875   | 0   |  |
| 2022 | 22,800   | 0   |  |
| 2021 | 22,160   | 0   |  |
| 2020 | 22,160   | 0   |  |
| 2019 | 21,260   | 0   |  |

3. Projected service area population for the following decades.

| Year | Projected Population Served By Retail Water Service | Projected Population Served By Wholesale Water Service | Projected Population Served By Wastewater Water Service |
|------|---|--|---|
| 2030 | 29,200  | 0  | 0   |
| 2040 | 32,500  | 0  | 0   |
| 2050 | 32,500  | 0  | 0   |
| 2060 | 32,500  | 0  | 0   |
| 2070 | 32,500  | 0  | 0   |

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

|        |
|--------|
| NCTCOG |
|--------|

## UTILITY PROFILE FOR RETAIL WATER SUPPLIER

### B. System Input

System input data for the previous five years.

Total System Input = Self-supplied + Imported – Exported

| Year                    | Water Produced in Gallons | Purchased/Imported Water in Gallons | Exported Water in Gallons | Total System Input | Total GPCD |
|-------------------------|---------------------------|-------------------------------------|---------------------------|--------------------|------------|
| 2023                    | 0                         | 1,268,220,000                       | 0                         | 1,268,220,000      | 152        |
| 2022                    | 0                         |                                     | 0                         |                    |            |
| 2021                    | 1,035,340,206             | 0                                   | 0                         | 1,035,340,206      | 128        |
| 2020                    | 0                         | 1,072,765,000                       | 0                         | 1,072,765,000      | 133        |
| 2019                    | 0                         | 1,012,242,000                       | 0                         | 1,012,242,000      | 130        |
| <b>Historic Average</b> | 207,068,041               | 838,306,750                         | 0                         | 1,097,141,802      | 136        |

### C. Water Supply System

1. Designed daily capacity of system in gallons 7,500,000
2. Storage Capacity
  - 2a. Elevated storage in gallons: 1,000,000
  - 2b. Ground storage in gallons: 6,500,000

## UTILITY PROFILE FOR RETAIL WATER SUPPLIER

### D. Projected Demands

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

| Year | Population | Water Demand (gallons) |
|------|------------|------------------------|
| 2025 | 24,018     | 1,331,631,000          |
| 2026 | 25,037     | 1,384,896,240          |
| 2027 | 26,038     | 1,440,292,090          |
| 2028 | 27,079     | 1,483,500,852          |
| 2029 | 28,434     | 1,528,005,878          |
| 2030 | 29,200     | 1,573,846,054          |
| 2031 | 29,784     | 1,621,061,436          |
| 2032 | 30,380     | 1,669,693,279          |
| 2033 | 30,987     | 1,703,087,145          |
| 2034 | 31,607     | 1,737,148,887          |

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

|                               |
|-------------------------------|
| Local population projections. |
|-------------------------------|

## UTILITY PROFILE FOR RETAIL WATER SUPPLIER

### E. High Volume Customers

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

| Customer                | Water Use Category | Annual Water Use | Treated or Raw |
|-------------------------|--------------------|------------------|----------------|
| Kensington Apartment    | Residential        | 32,348           | Treated        |
| Tower Ridge Apartment   | Residential        | 23,678           | Treated        |
| Corinth Community Park  | Commercial         | 23,437           | Treated        |
| Oxford at The Boulevard | Residential        | 20,527           | Treated        |
| Crownover Middle School | Commercial         | 20,404           | Treated        |

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

| Customer                                 | Water Use Category | Annual Water Use | Treated or Raw |
|--|--------------------|------------------|----------------|
| Brookside Autoflusher                    | Municipal          | 3,367,763        | Treated        |
| Corinth Community Park                   | Municipal          | 2,625,392        | Treated        |
| Corinth Soccer Practice Fields           | Municipal          | 2,564,967        | Treated        |
| Community Park #5 Soccer Field           | Municipal          | 1,986,216        | Treated        |
| Corinth Community Park Softball Field #8 | Municipal          | 1,311,856        | Treated        |

### F. Utility Data Comment Section

Additional comments about utility data.



## UTILITY PROFILE FOR RETAIL WATER SUPPLIER

### Section II: System Data

#### A. Retail Water Supplier Connections

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

| Water Use Category Type     | Total Retail Connections (Active + Inactive) | Percent of Total Connections |
|-----------------------------|--|------------------------------|
| Residential - Single Family | 7,321  | 93.62 %                      |
| Residential - Multi-Family  | 43   | 0.55 %                       |
| Industrial                  | 0  | 0.00 %                       |
| Commercial                  | 208  | 2.66 %                       |
| Institutional               | 38   | 0.49 %                       |
| Agricultural                | 210  | 2.69 %                       |
| <b>Total</b>                | 7,820  | 100.00 %                     |

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

| Net Number of New Retail Connections |                             |                            |            |            |               |              |       |
|--------------------------------------|-----------------------------|----------------------------|------------|------------|---------------|--------------|-------|
| Year                                 | Residential - Single Family | Residential - Multi-Family | Industrial | Commercial | Institutional | Agricultural | Total |
| <b>2023</b>                          | 235                         |                            |            | 12         |               |              | 247   |
| <b>2022</b>                          | 38                          |                            |            | 2          |               |              | 40    |
| <b>2021</b>                          | 48                          |                            |            | 3          |               |              | 51    |
| <b>2020</b>                          | 38                          |                            |            | 3          |               |              | 41    |
| <b>2019</b>                          | 14                          |                            |            | 2          |               |              | 16    |

## UTILITY PROFILE FOR RETAIL WATER SUPPLIER

### B. Accounting Data

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

| Year        | Residential - Single Family | Residential - Multi-Family | Industrial | Commercial  | Institutional | Agricultural | Total         |
|-------------|-----------------------------|----------------------------|------------|-------------|---------------|--------------|---------------|
| <b>2023</b> | 863,505,204                 | 52,957,170                 | 0          | 152,380,000 | 0             | 0            | 1,068,842,374 |
| <b>2022</b> | 839,572,000                 | 42,963,000                 | 0          | 139,707,000 | 0             | 0            | 1,022,242,000 |
| <b>2021</b> | 713,239,286                 | 43,967,701                 | 0          | 160,018,231 | 0             | 7,694,122    | 924,919,340   |
| <b>2020</b> | 756,765,247                 | 42,063,948                 | 0          | 128,150,086 | 0             | 16,957,797   | 943,937,078   |
| <b>2019</b> | 707,871,000                 | 32,814,000                 | 0          | 149,557,000 | 0             | 16,407,000   | 906,649,000   |

### C. Residential Water Use

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

| Year                    | Total Residential GPCD |
|-------------------------|------------------------|
| <b>2023</b>             | 102                    |
| <b>2022</b>             | 100                    |
| <b>2021</b>             | 101                    |
| <b>2020</b>             | 102                    |
| <b>2019</b>             | 98                     |
| <b>Historic Average</b> | 101                    |

## UTILITY PROFILE FOR RETAIL WATER SUPPLIER

### D. Annual and Seasonal Water Use

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

| Month            | Total Gallons of Treated Water |               |               |               |               |
|------------------|--------------------------------|---------------|---------------|---------------|---------------|
|                  | 2023                           | 2022          | 2021          | 2020          | 2019          |
| <b>January</b>   | 58,383,000                     | 63,917,000    | 52,492,000    | 50,478,000    | 53,651,000    |
| <b>February</b>  | 47,473,000                     | 49,738,000    | 53,692,000    | 48,630,000    | 45,084,000    |
| <b>March</b>     | 58,383,000                     | 63,869,000    | 61,134,000    | 59,507,000    | 61,195,000    |
| <b>April</b>     | 84,238,000                     | 83,649,000    | 78,801,000    | 71,569,000    | 64,570,000    |
| <b>May</b>       | 110,247,000                    | 98,302,000    | 67,382,000    | 83,948,000    | 67,291,000    |
| <b>June</b>      | 134,668,000                    | 130,676,000   | 87,973,000    | 123,849,000   | 83,939,000    |
| <b>July</b>      | 165,434,000                    | 185,932,000   | 123,460,000   | 146,480,000   | 145,059,000   |
| <b>August</b>    | 198,200,000                    | 155,172,000   | 127,413,000   | 154,755,000   | 141,406,000   |
| <b>September</b> | 155,521,000                    | 122,499,000   | 128,522,000   | 97,405,000    | 140,616,000   |
| <b>October</b>   | 120,448,000                    | 98,136,000    | 96,288,000    | 103,702,000   | 98,226,000    |
| <b>November</b>  | 72,736,000                     | 91,235,000    | 66,093,000    | 70,962,000    | 56,056,000    |
| <b>December</b>  | 62,020,000                     | 54,116,000    | 61,024,000    | 56,480,000    | 55,149,000    |
| <b>Total</b>     | 1,267,751,000                  | 1,197,241,000 | 1,004,274,000 | 1,067,765,000 | 1,012,242,000 |

## UTILITY PROFILE FOR RETAIL WATER SUPPLIER

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

| Month        | Total Gallons of Raw Water |      |      |      |      |
|--------------|----------------------------|------|------|------|------|
|              | 2023                       | 2022 | 2021 | 2020 | 2019 |
| January      | 0                          | 0    | 0    | 0    | 0    |
| February     | 0                          | 0    | 0    | 0    | 0    |
| March        | 0                          | 0    | 0    | 0    | 0    |
| April        | 0                          | 0    | 0    | 0    | 0    |
| May          | 0                          | 0    | 0    | 0    | 0    |
| June         | 0                          | 0    | 0    | 0    | 0    |
| July         | 0                          | 0    | 0    | 0    | 0    |
| August       | 0                          | 0    | 0    | 0    | 0    |
| September    | 0                          | 0    | 0    | 0    | 0    |
| October      | 0                          | 0    | 0    | 0    | 0    |
| November     | 0                          | 0    | 0    | 0    | 0    |
| December     | 0                          | 0    | 0    | 0    | 0    |
| <b>Total</b> | 0                          | 0    | 0    | 0    | 0    |

3. Summary of seasonal and annual water use.

|                           | Summer RETAIL<br>(Treated + Raw) | Total RETAIL<br>(Treated + Raw) |
|---------------------------|----------------------------------|---------------------------------|
| <b>2023</b>               | 498,302,000                      | 1,267,751,000                   |
| <b>2022</b>               | 471,780,000                      | 1,197,241,000                   |
| <b>2021</b>               | 338,846,000                      | 1,004,274,000                   |
| <b>2020</b>               | 425,084,000                      | 1,067,765,000                   |
| <b>2019</b>               | 370,404,000                      | 1,012,242,000                   |
| <b>Average in Gallons</b> | 420,883,200.00                   | 1,109,854,600.00                |

## UTILITY PROFILE FOR RETAIL WATER SUPPLIER

### E. Water Loss

Water Loss data for the previous five years.

| Year           | Total Water Loss in Gallons | Water Loss in GPCD | Water Loss as a Percentage |
|----------------|-----------------------------|--------------------|----------------------------|
| 2023           | 190,233,000                 | 129                | 15.00 %                    |
| 2022           | 116,012,653                 | 134                | 9.69 %                     |
| 2021           | 107,664,568                 | 13                 | 9.37 %                     |
| 2020           | 110,682,378                 | 14                 | 10.32 %                    |
| 2019           | 76,533,191                  | 10                 | 7.56 %                     |
| <b>Average</b> | 120,225,158                 | 60                 | 10.39 %                    |

### F. Peak Day Use

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

| Year | Average Daily Use (gal) | Peak Day Use (gal) | Ratio (peak/avg) |
|------|-------------------------|--------------------|------------------|
| 2023 | 3,473,290               | 5416326            | 1.5594           |
| 2022 | 3,280,112               | 5128043            | 1.5634           |
| 2021 | 2,751,435               | 3683108            | 1.3386           |
| 2020 | 2,925,383               | 4620478            | 1.5794           |
| 2019 | 2,773,265               | 4026130            | 1.4518           |

### G. Summary of Historic Water Use

| Water Use Category                 | Historic Average | Percent of Connections | Percent of Water Use |
|------------------------------------|------------------|------------------------|----------------------|
| <b>Residential - Single Family</b> | 776,190,547      | 93.62 %                | 79.75 %              |
| <b>Residential - Multi-Family</b>  | 42,953,163       | 0.55 %                 | 4.41 %               |
| <b>Industrial</b>                  | 0                | 0.00 %                 | 0.00 %               |
| <b>Commercial</b>                  | 145,962,463      | 2.66 %                 | 15.00 %              |
| <b>Institutional</b>               | 0                | 0.49 %                 | 0.00 %               |
| <b>Agricultural</b>                | 8,211,783        | 2.69 %                 | 0.84 %               |

## UTILITY PROFILE FOR RETAIL WATER SUPPLIER

### H. System Data Comment Section

### Section III: Wastewater System Data

#### A. Wastewater System Data

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

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

| Water Use Category | Metered | Unmetered | Total Connections | Percent of Total Connections |
|--------------------|---------|-----------|-------------------|------------------------------|
| Municipal          |         |           | 0                 | 0.00 %                       |
| Industrial         |         |           | 0                 | 0.00 %                       |
| Commercial         |         |           | 0                 | 0.00 %                       |
| Institutional      |         |           | 0                 | 0.00 %                       |
| Agricultural       |         |           | 0                 | 0.00 %                       |
| <b>Total</b>       |         |           | 0                 | 100.00 %                     |

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

## UTILITY PROFILE FOR RETAIL WATER SUPPLIER

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

| Month        | Total Gallons of Treated Water |      |      |      |      |
|--------------|--------------------------------|------|------|------|------|
|              | 2023                           | 2022 | 2021 | 2020 | 2019 |
| January      |                                |      |      |      |      |
| February     |                                |      |      |      |      |
| March        |                                |      |      |      |      |
| April        |                                |      |      |      |      |
| May          |                                |      |      |      |      |
| June         |                                |      |      |      |      |
| July         |                                |      |      |      |      |
| August       |                                |      |      |      |      |
| September    |                                |      |      |      |      |
| October      |                                |      |      |      |      |
| November     |                                |      |      |      |      |
| December     |                                |      |      |      |      |
| <b>Total</b> |                                |      |      |      |      |

5. Could treated wastewater be substituted for potable water?

Yes     
  No

### B. Reuse Data

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

| Type of Reuse                            | Total Annual Volume (in gallons) |
|--|----------------------------------|
| On-site Irrigation                       |                                  |
| Plant wash down                          |                                  |
| Chlorination/de-chlorination             |                                  |
| Industrial                               |                                  |
| Landscape irrigation (park,golf courses) |                                  |
| Agricultural                             |                                  |
| Discharge to surface water               |                                  |
| Evaporation Pond                         |                                  |
| Other                                    |                                  |
| <b>Total</b>                             |                                  |

## UTILITY PROFILE FOR RETAIL WATER SUPPLIER

### C. Wastewater System Data Comment

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



**APPENDIX C**  
**Copy of Ordinance Adopted**  
**by City Council**

**CITY OF CORINTH, TEXAS  
ORDINANCE NO. 24-04-04-17**

**AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF CORINTH, TEXAS, REPEALING CHAPTER 51, “DROUGHT CONTINGENCY AND WATER CONSERVATION PLAN” OF TITLE V, “PUBLIC WORKS” AND ADOPTING A NEW CHAPTER 51, “WATER CONSERVATION PLAN AND DROUGHT CONTINGENCY PLAN” OF TITLE V, “PUBLIC WORKS” OF THE CODE OF ORDINANCES TO ADOPT AN UPDATED WATER CONSERVATION PLAN AND DROUGHT CONTINGENCY PLAN AND TO ADOPT PENALTIES FOR VIOLATION TO INCLUDE DISCONTINUATION OF WATER SERVICE AND THE PAYMENT OF ADDITIONAL FEES; PROVIDING FOR THE INCORPORATION OF PREMISES; REPEALING ORDINANCE NO. 19-07-18-24 AND PROVIDING A GENERAL CUMULATIVE REPEALER CLAUSE; PROVIDING SEVERABILITY; PROVIDING SAVINGS; PROVIDING A PENALTY FOR A VIOLATION NOT TO EXCEED THE SUM OF TWO THOUSAND DOLLARS (\$2,000) FOR EACH VIOLATION AND PROVIDING A SEPARATE PENALTY FOR EACH DAY A VIOLATION CONTINUES IN ADDITION TO OTHER PENALTIES PROVIDED; PROVIDING FOR PUBLICATION AND AN EFFECTIVE DATE.**

**WHEREAS**, the City Council of the City of Corinth recognizes that the amount of water available to its customers is limited; and

**WHEREAS**, the City recognizes that due to natural limitations, drought conditions, system failures 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 (the “Commission”) require that the City adopt a Drought Contingency and Water Conservation Plan for the City of Corinth (“Conservation 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 for the City of Corinth; 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 of the City of Corinth has reviewed the 2024 Upper Trinity Regional Water District (the “UTRWD”) Model Water Conservation Plan and Drought Contingency Plan for the City of Corinth, has determined such plan to be necessary in order to conserve the available water supply and protect the integrity of water supply facilities, with particular regard for domestic water use, sanitation, and fire protection, and to protect and preserve public health, welfare, and safety and minimize the adverse impacts of water supply shortage or other water supply emergencies and therefore, the City Council finds it necessary to adopt such plan as official City policy for the conservation of water (“Conservation Plans”); and

Ordinance No. 24-04-04-17

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**WHEREAS**, water uses regulated or prohibited under these Conservation Plans are considered to be nonessential and continuation of such uses during times of water shortage or other emergency water supply conditions are deemed to constitute a waste of water which subjects persons who violate the restrictions imposed under the Conservation Plans to penalties as set forth herein; and

**WHEREAS**, the City has held a public meeting providing advance notice of such meeting at which the City Council has considered the adoption of the Water Conservation Plan and Drought Contingency Plan as required by law.

**NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF CORINTH, TEXAS, THAT:**

**SECTION 1**  
**Incorporation of Premises**

That the foregoing recitals set forth above are determined to be true and correct findings and are incorporated herein as if set forth verbatim.

**SECTION 2.**  
**Amendments**

**2.01.** That Chapter 51, “Drought Contingency and Water Conservation Plan” of Title V, “Public Works” of the Code of Ordinances of the City of Corinth, Texas, is hereby repealed in its entirety and a new Chapter 51, “Water Conservation Plan and Drought Contingency Plan” of Title V of the Code of Ordinances of the City of Corinth is hereby adopted and shall be and read in its entirety as follows:

**“CHAPTER 51: WATER CONSERVATION PLAN AND DROUGHT CONTINGENCY PLAN**

**§ 51.01. ADOPTION OF PLAN / AUTHORITY TO IMPLEMENT.**

- (A) Plan Adopted. The City hereby adopts the City of Corinth Water Conservation Plan as set forth in Attachment A and Drought Contingency Plan as set forth in Attachment B to Ordinance No. 24-04-04-17, a copy of which is incorporated by reference as if fully set forth herein, and which shall be referred to herein as the “Water Conservation Plan and Drought Contingency Plan” or “Plans” for the City of Corinth. A full copy of the Plans shall be on file at the Office of the City Secretary of the City of Corinth.
- (B) Authority to Implement. The City Manager of the City of Corinth or designee is authorized to administer and implement the Plans in accordance with this Chapter and the provisions of the Water Conservation Plan and Drought Contingency Plan. When the City Manager determines that one or more of the trigger conditions set forth in the Drought Contingency Plan exist, or as otherwise authorized by the Drought Contingency Plan, the City Manager shall be authorized to order that any one or more of the measures set forth in the Drought Contingency Plan be implemented. Prior to implementation, any such

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order shall be published in a newspaper of general circulation in the City at least twenty-four (24) hours prior to the effective date of such order.

**§51.99. PENALTIES.** The penalties contained in this section shall be cumulative and not exclusive:

(A) Offense. A person commits an offense if the person intentionally, knowingly, recklessly or with criminal negligence makes, causes, or permits a use of water contrary to the measures implemented by the City Manager as prescribed in the Drought Contingency Plan adopted under this Chapter.

(B) Criminal Penalty. Any person who violates the Water Conservation Plan and Drought Contingency Plan is guilty of a misdemeanor and, upon conviction shall be punished by a fine of not less than One Hundred dollars (\$100.00) and not more than Two Thousand dollars (\$2,000.00). Each day that one or more of the provisions in the Drought Contingency Plan is violated shall constitute a separate offense.

(C) Discontinuation of Water Service/Service Fees. In addition to the remedies provided by Section 9 of the Drought Contingency Plan, if a person is convicted of three (3) or more separate violations of the Drought Contingency Plan, the City Manager shall, upon advance written notice to such person given on or after the date of the third conviction, be authorized to discontinue water service to the location where such violations have occurred. Services discontinued under such circumstances shall be restored after payment of a re-connection charge, hereby established at One Hundred Twenty-Five Dollars (\$125.00), and all costs incurred by the City of Corinth for actions taken to discontinue the service. In addition, assurance acceptable to the City must be given by the person to the City Manager or designee, that the same action will not be repeated while the Drought Contingency Plan is in effect.

(D) Civil Penalties. The City may also enforce compliance with the Drought Contingency Plan by seeking injunctive relief in the district court and may seek any and all other civil penalties and remedies, in both law and equity, as allowed by law or equity.

(E) Presumption. Any person, including a person classified as a water customer of the City, in apparent control, occupancy or ownership of the property where a violation occurs or originates ("service location") shall be presumed to be the violator, and proof that the violation occurred on the person's property shall constitute a rebuttable presumption that the person in apparent control, occupancy or ownership of the property committed the violation, but any such person shall have the right to show that he/she did not commit the violation.

(F) Adult Responsible for Minors. An adult person shall be presumed to be responsible for violations of this Chapter that occur at a service location and that are committed by persons under the age of eighteen (18) at a service location under the apparent control, occupancy or ownership of such adult person; provided however, that presumption shall be rebuttable upon presentation of evidence that such person previously directed the minor not to use the water as it was used in violation of the Drought Contingency Plan and the adult person demonstrates that the he or she could not have reasonably known of the violation.

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(G) Enforcement Authority. Any police officer, or other employee of the City of Corinth designated by the City Manager, may issue a citation to a person he/she reasonably believes has committed a violation of this Ordinance. The alleged violator shall be served a copy of the citation. Service of the citation shall be complete upon delivery of the citation to the alleged violator whether in person or by mail. The alleged violator shall appear in municipal court to enter a plea to the charge. If the alleged violator fails to appear in municipal court, a warrant for his/her arrest may be issued in accordance with standard court procedures. A summons to appear may be issued in lieu of an arrest warrant.”

**SECTION 3**  
**Cumulative Repealer**

Ordinance No. 19-07-18-24 of the City of Corinth Texas is hereby repealed in its entirety. This Ordinance shall be cumulative of all other Ordinances of the City of Corinth and shall not repeal any of the provisions of such Ordinances except for those instances where there are direct conflicts with the provisions of this Ordinance or where expressly repealed hereby. Ordinances or parts thereof in force at the time this Ordinance shall take effect and that are inconsistent with this Ordinance are hereby repealed to the extent that they are inconsistent with this Ordinance.

**SECTION 4**  
**Severability**

If any section, subsection, clause, phrase, or provision of this Ordinance, or the application thereof to any person or circumstance, shall to any extent be held by a court of competent jurisdiction to be invalid, void, or unconstitutional, the remaining sections, subsections, clauses, phrases, and provisions of this Ordinance, or the application thereof to any person or circumstance, shall remain in full force and effect and shall in no way be affected, impaired or invalidated.

**SECTION 5**  
**Savings**

All rights and remedies of the City of Corinth are expressly saved as to any and all violations of the provisions of any Ordinances that have accrued at the time of the effective date of this Ordinance; and, as to such accrued violations and all pending litigation, both civil and criminal, whether pending in court or not, under such Ordinances, same shall not be affected by this Ordinance but may be prosecuted until final disposition by the courts.

**SECTION 6**  
**Penalty**

Any person, firm or corporation who violates any provision of this Ordinance or the Code of Ordinances, as amended hereby, shall be subject to a fine not to exceed the sum of five hundred dollars (\$500.00) for each offense, and each and every day any such offense shall continue shall be deemed to constitute a separate offense, provided, however, that in all cases involving violation of any provision of this ordinance or Code of Ordinances, as amended hereby, governing public health shall be subject to a fine not to exceed the sum of two thousand dollars (\$2,000.00) for each offense as allowed by law, and each and every day any such offense shall continue shall be deemed to constitute a separate offense.

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**SECTION 7**  
**Publication/Effective Date**

This Ordinance shall take effect and be in full force from and after the date of its passage and publication, as provided by the Texas Local Government Code.

**DULY PASSED AND APPROVED BY THE CITY COUNCIL OF THE CITY OF CORINTH, TEXAS on this the 4<sup>th</sup> day of April, 2024.**

**APPROVED:**

DocuSigned by:  
*Bill Heidemann*  
AC74FAA88CA6468...  
\_\_\_\_\_  
Bill Heidemann, Mayor

**ATTEST:**

DocuSigned by:  
*Lana Wylie*  
D77DD89FB0C3473...  
\_\_\_\_\_  
Lana Wylie, City Secretary



**APPROVED AS TO FORM AND LEGALITY:**

DocuSigned by:  
*Patricia Adams*  
B5BAF55D871D428...  
\_\_\_\_\_  
Patricia A. Adams, City Attorney

**APPENDIX D**  
**Coordination with Regional C Planning Group**

April 15, 2024

Mr. Kevin Ward, Chair  
Region C Water Planning Group PO Box 60  
Arlington, TX 76004

Re: Updated Water Conservation and Drought Contingency Plans

Dear Mr. Ward,

In accordance with 30 TAC §288.30, enclosed is a copy of City of Corinth's 2024 Water Conservation Plan and Drought Contingency Plan. The City Council adopted the updated plans on April 4, 2024. The updated Water Conservation Plan includes a permanent and mandatory two-day-per-week outdoor watering schedule and new 5-year and 10-year water use goals. The updated Drought Contingency Plan includes new measures for Upper Trinity and its Customers to effectively manage outdoor watering during times of drought.

Thank you for your assistance in this matter. Should you have any questions or need further information, please feel free to contact me or Haley Koehler, Water Conservation Coordinator, at 940-498-7511.

Sincerely,

A handwritten signature in black ink, appearing to read 'GB', with a long horizontal line extending to the right.

Glenn Barker  
Director of Public Works

Encl: 1. City of Corinth's 2024 Water Conservation Plan  
2. City of Corinth's 2024 Drought Contingency Plan



**APPENDIX E**  
**Revised Plan Implementation Letter**

Not Applicable.