

ORDINANCE NO. 2024-04

AN ORDINANCE OF THE CITY OF SAGINAW, TEXAS, AMENDING ORDINANCE NO. 2014-10 AS AMENDED, ADOPTING AN UPDATED WATER CONSERVATION PLAN AND DROUGHT CONTINGENCY AND EMERGENCY WATER MANAGEMENT PLAN TO PROMOTE RESPONSIBLE USE OF WATER; PROVIDING THAT THIS ORDINANCE SHALL BE CUMULATIVE OF ALL ORDINANCES; PROVIDING A SEVERABILITY CLAUSE; PROVIDING FOR A PENALTY FOR VIOLATIONS; PROVIDING A SAVINGS CLAUSE; PROVIDING FOR PUBLICATION IN THE OFFICIAL NEWSPAPER; AND PROVIDING AN EFFECTIVE DATE.

WHEREAS, the City of Saginaw, Texas (the "City") is a home rule city acting under its charter adopted by the electorate pursuant to Article XI, Section 5, of the Texas Constitution and Chapter 9 of the Local Government Code; and

WHEREAS, the City Council of the City of Saginaw has previously adopted Ordinance No. 2014-10, which adopted an updated water conservation plan and a drought contingency and emergency water management plan (collectively the "Plans"); and

WHEREAS, 30 Tex. Admin. Code §288.30 requires that the Plans be updated every five years; and

WHEREAS, the City Council has previously adopted Ordinance No. 2019-06 which amended Ordinance No. 2014-10 by updating Exhibits "A" and "B" thereto, the Water Conservation Plan and the Drought Contingency and Emergency Water Management Plan of the City of Saginaw, respectively; and

WHEREAS, the City Council now desires to amend Ordinance No. 2014-10 by updating Exhibits "A" and "B" thereto, the Water Conservation Plan and the Drought Contingency and Emergency Water Management Plan of the City of Saginaw, respectively; and

WHEREAS, the City of Saginaw has prepared an updated Water Conservation Plan and Drought Contingency and Emergency Water Management Plan for retail water customers.

NOW THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SAGINAW THAT:

SECTION 1.

That Ordinance No. 2014-10 of the City of Saginaw, as amended, a copy of which is on file with the office of the City Secretary, is hereby amended by replacing Exhibits "A" and "B" thereto with a new Exhibit "A," the Water Conservation Plan of the City of Saginaw, Texas, (attached as Exhibit "A" to this Ordinance for all purposes,) and a new Exhibit "B" the Drought Contingency and Emergency Water Management Plan of the City of Saginaw, Texas, (attached as Exhibit "B" to this Ordinance for all purposes).

SECTION 2.

The City Manager or his designee is hereby directed to file a copy of the Plans and this Ordinance with the Texas Commission on Environmental Quality in accordance with Title 30, Chapter 288 of the Texas Administrative Code.

SECTION 3. CUMULATIVE PROVISIONS

This Ordinance shall be cumulative of all provisions of the Saginaw City Code and other applicable City ordinances, except where the provisions of this Ordinance are in direct conflict with the provisions of such ordinances, in which event the applicability of the conflicting provisions of such ordinances are hereby repealed.

SECTION 4. SEVERABILITY CLAUSE

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

SECTION 5. PENALTY CLAUSE

Any person, firm or corporation who violates, disobeys, omits, neglects or refuses to comply with or who resists the enforcement of any of the provisions of this Ordinance shall be fined not more than Two Thousand Dollars (\$2,000.00) for each offense. Each day that a violation is permitted to exist shall constitute a separate offense.

SECTION 6. SAVINGS CLAUSE

All rights and remedies of the City of Saginaw are expressly saved as to any and all violations of the provisions of any ordinances governing irrigation and water usage 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.

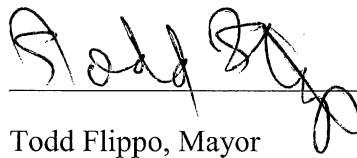
**SECTION 7.
PUBLICATION**

The City Secretary of the City of Saginaw is hereby directed to publish at least twice in the official newspaper of the City of Saginaw, the caption and the penalty clause of this ordinance in accordance with Section 52.013(b) of the Local Government Code.

**SECTION 8.
EFFECTIVE DATE**

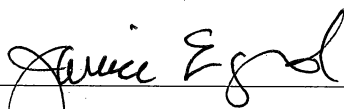
This Ordinance shall be in full force and effect from and after its passage and publication as required by law, and it is so ordained.

PASSED AND APPROVED THIS 2nd DAY OF April, 2024.

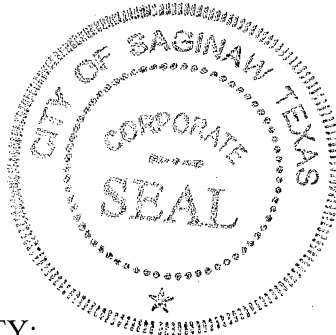


Todd Flippo, Mayor

ATTEST:



Janice England, City Secretary



APPROVED AS TO FORM AND LEGALITY:



Bryn Meredith, City Attorney

City of Saginaw

Water Conservation Plan



City of Saginaw

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City of Saginaw

Kimley»Horn

Adopted: April 2, 2024

Effective: May 1, 2024

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APPENDICES

APPENDIX A **Ordinance Adopting the Plan**

APPENDIX B **Letters to Region C Water Planning Group, Tarrant
Regional Water District, City of Fort Worth, and the Texas
Commission on Environmental Quality**

I. Introduction

The City of Saginaw developed the following Water Conservation Plan (Plan) to provide a framework for future efforts to conserve existing water resources and avoid wasting water in current water use practices. The Plan outlines procedures to conserve the available water supply and protect the integrity of water supply facilities, with particular regard for domestic water use and fire protection, and to protect and preserve public health, welfare, and safety. Further, the goal of the Plan is to minimize adverse impacts of water supply shortage or other water supply emergency conditions.

The Plan outlines water conservation procedures currently used by the City of Saginaw water system. The Plan also identifies practices that may reduce water usage in the future.

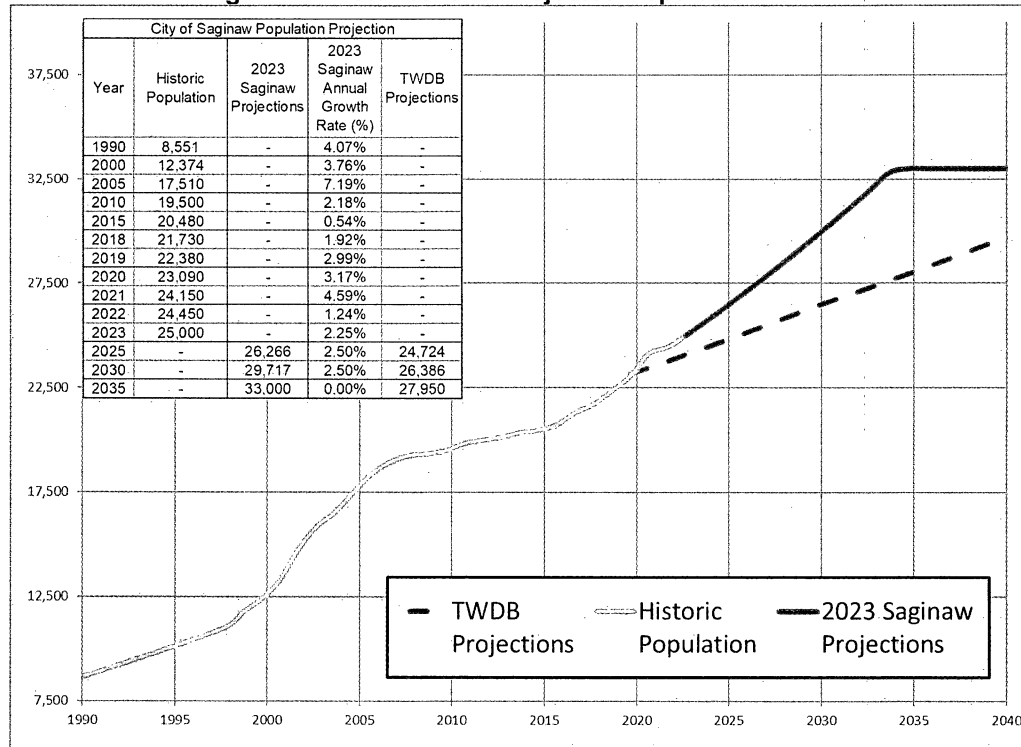
II. Utility Profile

This Utility Profile section provides information related to section 288.2(1)(A) of Chapter 288 of Title 30 of the Texas Administrative Code (TAC) including current population and customer data, water use data, and information about the water supply system and wastewater collection and treatment system.

A. Population and Customer Data

The current population (2023) of the City of Saginaw is 25,000. The service area is approximately 7.6 square miles and is coterminous with the City limits. **Figure 1** shows the historic and projected population trend line for the City of Saginaw.

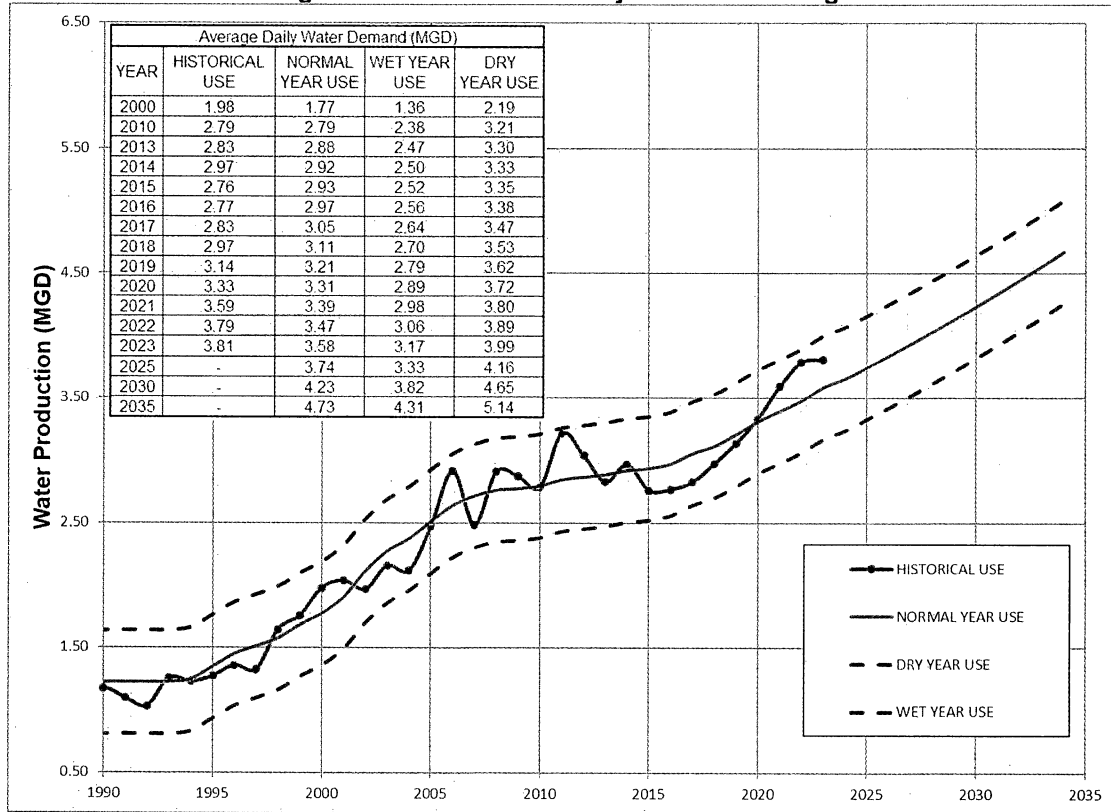
Figure 1 - Historical and Projected Population Trend



The historic population data is based on City data, while the projected population data is based upon the City's historic growth rates.

The City of Saginaw used an average of 148.1 gallons per capita per day over the past five years (2019-2023). **Figure 2** shows the City of Saginaw's historic and projected water usage.

Figure 2 - Historical and Projected Water Usage



The water system serves 7,921 metered residential connections and 480 metered commercial/ industrial connections. All known connections within the water system are metered.

B. Water Supply System Data

The City of Saginaw receives treated water from the neighboring City of Fort Worth, Texas through a single delivery point at Longhorn Pump Station. The delivery point from Fort Worth is rated up to 5,500 GPM. Longhorn pump station has a pumping capacity of 6,800 GPM. Within Saginaw's system there are also two booster pump stations that each have a capacity of 1,500 GPM and feed off existing system pressure. There is one emergency interconnect (Old Decatur and Bailey Boswell) with the City of Fort Worth. If an emergency occurs, Saginaw can lose its pumping and/or storage capabilities and still be supplied via the emergency interconnect.

C. Wastewater System Data

The City of Saginaw currently contracts with the City of Fort Worth for wastewater treatment. The City of Saginaw discharges to the City of Fort Worth wastewater system at four metered locations (North, East, Southeast, and Southwest.)

III. Conservation Goals

This Conservation Goals section provides information related to 30 TAC § 288.2(1)(C) including municipal water use goals, basis for the goals, and time frame for achieving the goals.

A. Municipal Per Capita Water Use Goals

The municipal per capita water use goals for the City of Saginaw include the following:

- 1% reduction in water use and water loss (per capita per day per year-pcpd/year) for five years and ten years.

Therefore, at this rate at the end of 2024, the average daily consumption of water including the 1% reduction will be 146.6 gallons per capita per day, in 2029 the average daily consumption of water will be 139.4 gallons per capita per day, and in 2034 the average daily consumption of water will be 132.6 gallons per capita per day. **Table 1** summarizes the City of Saginaw's water use goals for the next five and ten years.

Table 1 – Goal Summary

	5-Year Average	Baseline	5-yr Goal	10-yr Goal
Total GPCD	148.1	148.1	139.4	132.6
Residential GPCD	81.7	81.7	76.9	73.2
Water Loss (GPCD)	22.9	22.9	21.5	20.5
Water Loss (Percentage)	15%	15%	14%	13%

B. Basis for Goals

The City of Saginaw water use goals were set forth to achieve significant conservation savings without burdening the customer with extra costs while still generating enough water savings to extend the life of the existing water source supply. The City of Saginaw used an average of 148.1 gallons per capita per day over the past five years (2019-2023). After reviewing historic and projected water

use data, the City of Saginaw believes the reduction of per capita water use can continue to be decreased and that the water use goals set forth can be achieved without significantly impacting the City of Saginaw customers.

The City of Saginaw projects a significant population increase over the next ten years. Based on the typical growth patterns and projected increase in industrial and residential uses, the City of Saginaw anticipates the water usage per year would increase as the population grows. Although the base water usage per year is expected to increase, the City of Saginaw will attempt to implement the water conservation practices described within this Plan to reduce the per capita per day water usage and achieve the water conservation goals. The City of Saginaw feels the conservation goals set forth are reasonable with all factors considered. However, attaining the goals will require cooperation from the population served by the system.

C. Time Frame for Achieving Goals

The water use goals were determined by evaluating the population and water usage projections until the year 2034. It is anticipated the 1% reduction in water use (per capita per day per year) will be during the next ten years.

The conservation goals will only be reached if the City of Saginaw water users participate in the conservation efforts. The City of Saginaw will attempt to notify water users of the conservation goals and the proposed conservation plan so the goals can be achieved.

IV. Water Savings Targets

This Water Savings Targets section provides information related to 30 TAC § 288.2(1)(C) and 288.2(3) including 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. Note that the goals established by a public water supplier under this subparagraph are not enforceable by the TCEQ.

In order to achieve the water conservation goals mentioned in Section III, the City of Saginaw has identified specific management and usage areas to target within the next five and ten years. These water saving target areas are divided into two categories: (1) Existing Water Conservation Efforts and (2) Future Water Conservation Efforts.

A. Existing Water Conservation Efforts

The City of Saginaw currently has several water conservation programs in place. A few of these programs include:

- Leak Detection Program
- Meter Replacement Program
- Record Management System
- Annual Water System Audit

Leak Detection Program: The City of Saginaw's Water Department is available to address water line breaks 24-hours a day. Trained personnel are dispatched to investigate reports of water line breaks within the distribution system and direct the corrective measures required. Immediate steps are taken to address waterline breaks or service leaks upon the staff's discovery.

Meter Replacement Program: The City of Saginaw Water Department has replaced all existing residential meters in their system that are 5 years or older within the last 5 years and staff are in the process of also replacing any commercial meters that are 5 years or older as well. The City of Saginaw will continue to test, identify, replace, and repair residential, commercial, and industrial metering devices annually. Replacing broken or inaccurate meters helps account for water usage and helps the water system operate more effectively.

Record Management System: The City of Saginaw Water and Billing Department maintains meter reading, meter count, and meter repair and replacement data. These records are updated as the City staff gathers the data and reports the information to the Public Works and Billing Department. Customer meters are qualified as either residential or commercial meters in the record management system.

Annual Water System Audit: Information gathered by the Water Department and reported to the Utility Billing Department is evaluated annually to identify potential water loss areas, as well as water loss quantities. The City of Saginaw will use the information gathered from the water audit to revise meter testing and repair procedures, reduce unauthorized water use, improve accounting for authorized but unbilled water and implement effective water loss management strategies.

B. Future Water Conservation Efforts

In cooperation with the Texas Water Development Board's Best Management Practice (BMP) recommendations, the City of Saginaw plans to implement a BMP over the next ten years known as the Showerhead, Aerator, and Toilet Flapper Retrofit BMP.

- Showerhead, Aerator, and Toilet Flapper Retrofit: The City of Saginaw plans to implement this program by first identifying how many single-family and multi-family housing units were built before 1995. The City of Saginaw will then determine the appropriate approach for implementing the retrofit program whether it is by ordinance, enforcement of the plumbing code, or increase in consumer awareness of the benefits of low-flow plumbing components. The goal of this BMP is to encourage the retrofit of specific plumbing components (showerheads, kitchen and bathroom aerators, and toilet flappers) to include high-quality low-flow devices and to require new installations to include these devices.
- Water Conservation Pricing BMP: Water Conservation Pricing is the use of rate structures that discourage the inefficient use or waste of water. Conservation pricing structures include increasing unit prices with increased consumption such as inverted block rates, base rates and excess use rates such as water budget rates, and seasonal rates. Seasonal rate structures may include additional charges for upper block (outdoor) usage or excess-use surcharges for commercial customers to reduce demand during summer months. The City of Saginaw staff plans to explore implementing this BMP by checking the current flat rate structure, the current water use trends and exploring the feasibility of changing to a conservation oriented structure. Any alteration to current rate structures will require approval and involvement of the City Council.

V. Metering Devices

This Metering Devices section provides information related to 30 TAC § 288.2(1)(D) including a description of the devices and their accuracy.

A. Existing Devices

Water metering devices are essential to ensuring that the City of Saginaw accurately measures the production and usage of the water within the water

system. The City of Saginaw has a 10-inch wholesale water meter located at the City of Fort Worth delivery point.

B. Accuracy

The City of Saginaw Water Department has replaced all existing residential meters in their system that are 5 years or older within the last 5 years and staff are in the process of also replacing any commercial meters that are 5 years or older as well. The City of Fort Worth is responsible for ensuring the wholesale water meter is tested and are calibrated to within 5% of the actual flow every year at a minimum.

VI. Universal Metering Program

This Universal Metering Program section provides information related to 30 TAC § 288.2(1)(E) including both customer and public uses of water, meter testing and repair, periodic meter replacement. The City of Saginaw has programs for universal metering, meter testing, meter repair, and periodic meter replacement in place. The programs follow American Water Works Association (AWWA) standards.

A. Customer and Public Uses of Water

The City of Saginaw requires all new and existing residential, commercial, and industrial customers to install individually approved meters through the City of Saginaw's Water Department. **Table 2** lists the number of meters currently in the City of Saginaw water system by meter size in inches.

Table 2 - Size and Number of Meters

Residential Meters		Commercial Meters	
Meter Size	Number of Meters	Meter Size	Number of Meters
3/4"	7,870	3/4"	162
1"	12	1"	154
2"	35	1 1/2"	9
3"	3	2"	134
4"	1	3"	12
Total	7,921	4"	7
		6"	2
		Total	480
TOTAL METERS = 8,401			

Construction contractors utilize temporary meters to obtain bulk water from the water system. A contractor performing work places a deposit with City of Saginaw's Water officials, indicates the location of temporary fire hydrant supply connection needs, and receives a standard fire hydrant meter assembly. Upon return of the assigned meter, the contractor compensates the City of Saginaw for all water used for construction purposes.

B. Meter Testing and Repair

The City of Saginaw Water Department has replaced all existing residential meters in their system that are 5 years or older within the last 5 years and staff are in the process of also replacing any commercial meters that are 5 years or older as well.. The City of Saginaw will continue to test, identify, replace, and repair residential, commercial, and industrial metering devices annually. Testing procedures are in accordance with AWWA M6.

VII. Unaccounted-For Water Use

This Unaccounted-For Water Use section provides information related to 30 TAC § 288.2(1)(F); 288.2(2)(A),(B) including procedures for periodic visual inspections along distribution lines; annual audits of the water system to determine illegal connections; and abandoned services.

The City of Saginaw continuously evaluates existing infrastructure and management practices to ensure the City of Saginaw accounts for as much water use as possible. Two areas for unaccounted water use include routine flushing of the hydrants and lines by the fire department and unexpected water line breaks and leaks.

To better account of the unaccounted for water use, the City of Saginaw will focus on two key areas: periodic visual inspections of water infrastructure and annual audits.

A. Periodic Visual Inspections of Water Infrastructure

The City of Saginaw's Public Works Department will continue to visually inspect the ground surface above underground distribution lines for potential indications of leaks in the pipe lines. Residents are often relied upon to notify City staff of potential water line leaks and main breaks. Once the City staff is notified of potential water leaks, the staff will repair the leak as quickly as possible.

B. Annual Audit

The purpose of annual or monthly water audits is to ensure the water system accounts for as much water as possible. As part of the City of Saginaw's annual water audit, staff takes monthly meter readings from all residential, commercial, and industrial customers. These reports are electronically stored for monthly billings and meter counts. The City of Saginaw maintains these readings for at least one year and performs a water audit at the end of that year. Water audit procedures are performed in accordance with the recommendation for conducting a water system audit in AWWA M36. The audit identifies potential areas of unaccounted for water use and the City of Saginaw, in turn, evaluates steps that may need to be taken to account for this type of usage.

VIII. Public Education Program

This Public Education Program section provides information related to 30 TAC § 288.2(1)(G). The City of Saginaw will periodically provide the public with information about water conservation and the water conservation target areas.

The City of Saginaw will provide public education concerning the provisions of the water conservation to include, but not limited to, the following:

- City web Page, flyers, cable TV, scheduled public meetings, and visitations to civic organizations, TV, radio, newspaper, and signage.
- Water Bill Inserts
- Periodic status reports to the City Council on drought response programs, water emergencies and their results.

IX. Water Rate Structure

This Water Rate Structure section provides information related to 30 TAC § 288.2(1)(H).

The City of Saginaw has three different categories of water rates-(1) Residential, (2) Multi-Family and (3) Commercial/ Industrial. Water users are charged a “Basic Monthly Charge” and then a usage rate based on the quantity of water used. **Table 3** provides a summary of the City of Saginaw rate structure for residential, multi-family, and commercial/industrial water use.

All three water rate structures are considered fixed fee or flat rate water structures. These cost-based structures discourage excessive use of water due to the customer paying for each unit of water used. The City will continue to study the potential use of a progressive rate structure by considering the benefits of a progressive rate structure against the demands of extra accounting and overhead.

Table 3 – Water Rate Structure (per Ordinance No. 2023-23 August 15, 2023)

Residential Water Rates	Basic Monthly Charge	\$16.32 per Customer
	Rate for volumes between 2,000 and 10,000 gallons	\$5.05 per 1,000 gallons
	Rate for volumes in excess of 10,000 gallons	\$5.39 per 1,000 gallons
Multi-Family Water Rates	Basic Monthly Charge	\$16.32 per Customer
	Rate for volumes between 2,000 and 8,000 gallons per dwelling unit	\$5.39 per 1,000 gallons
	Rate for volumes in excess of 8,000 gallons per dwelling unit	\$6.51 per 1,000 gallons
Commercial/ Industrial Water Rates	Basic Monthly Charge	\$16.32 per Customer
	Rate for volumes between 2,000 and 10,000 gallons	\$5.39 per 1,000 gallons
	Rate for volumes in excess of 10,000 gallons	\$6.51 per 1,000 gallons

X. Means of Implementation and Enforcement

This Means of Implementation and Enforcement section provides information related to 30 TAC § 288.2(1)(J).

The Water Conservation Plan was presented to the City Council during a regular council meeting and was adopted via ordinance. Enforcement procedures and penalties are provided by ordinance.

A. Authority and Enforcement

No person shall knowingly or intentionally allow the use of water from the City of Saginaw for residential, commercial, industrial, agricultural, governmental, or any

other purpose in a manner contrary to any provision of this Plan. Illegal water tapping and services will not be tolerated. Upon discovery of the illegal activity, the City Manager has the authority to file criminal charges against the assailant, in addition to any enforcement procedures and penalties that are provided by ordinance.

XI. Regional Water Planning Groups Coordination

This Coordination section provides information related to 30 TAC § 288.2(1)(K).

The City of Saginaw system is regulated by Region 6 of the U.S. Environmental Protection Agency (EPA) and Region 4 of the Texas Commission on Environmental Quality (TCEQ). The City strives to coordinate water conservation efforts with these regulatory authorities as well as the Texas Water Development Board (TWDB) and the City of Fort Worth. A copy of this water conservation plan has been provided to the regional water planning group for review.

A. Texas Water Development Board

In November 2013, the Texas Water Development Board published "Best Management Practices for Municipal Water Users." The document provides guidance on implementing Best Management Practices (BMPs) for municipal water users in order to conserve water. The City of Saginaw will implement one of these recommended BMPs (Showerhead, Aerator, and Toilet Flapper Retrofit) over the next ten years in order to improve both the City's and customer's water use efficiency and thus, ultimately conserving water usage. The City of Saginaw will continue to evaluate other BMPs for the potential of incorporating them into the water system procedures and policies.

Appendix A

Ordinance Adopting the Plan

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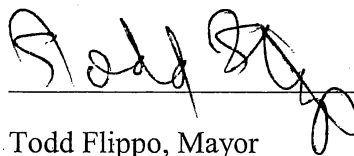
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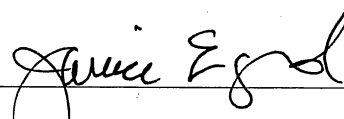
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PASSED AND APPROVED THIS 2nd DAY OF April, 2024.



Todd Flippo, Mayor

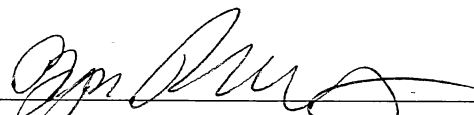
ATTEST:



Janice England, City Secretary



APPROVED AS TO FORM AND LEGALITY:



Bryn Meredith, City Attorney

Appendix B

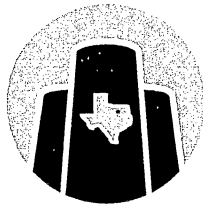
Letters to:

Region C Water Planning Group

Tarrant Regional Water District

City of Fort Worth

Texas Commission on Environmental Quality



**CITY OF
SAGINAW**

April 12, 2024

Mr. Kevin Ward
Chair, Region C Water Planning Group
Trinity River Authority
P.O. Box 60
Arlington, TX 76004

Dear Mr. Ward,

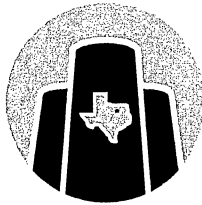
Enclosed is a copy of the City of Saginaw's Drought Contingency / Emergency Water Management Plan and Water Conservation Plan. This document was adopted on April 2, 2024 and will become effective on May 1, 2024.

These plans are submitted to the Region C Water Planning Group in accordance with Chapter 288 of Title 30, Texas Administrative Code, "Water Conservation Plans, Drought Contingency Plans, Guidelines and Requirements".

If you have any questions about these documents, please contact me at 817-232-4640 or greame@saginawtx.org.

Sincerely,

Gabe Reaume
City Manager



**CITY OF
SAGINAW**

April 12, 2024

Mr. Dustan Compton
Regional Conservation Program Manager
Tarrant Regional Water District
800 East Northside Drive
Fort Worth, Texas 76102-1097

Dear Mr. Compton,

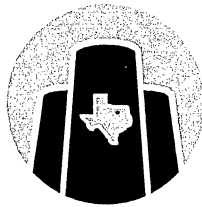
Enclosed is a copy of the City of Saginaw's Drought Contingency / Emergency Water Management Plan and Water Conservation Plan. This document was adopted on April 2, 2024 and will become effective on May 1, 2024.

This plan was prepared in accordance with Chapter 288 of Title 30, Texas Administrative Code, "Water Conservation Plans, Drought Contingency Plans, Guidelines and Requirements".

If you have any questions about these documents, please contact me at 817-232-4640 or greame@saginawtx.org.

Sincerely,


Gabe Reaume
City Manager



**CITY OF
SAGINAW**

April 12, 2024

Mr. Chris Harder
Water Director
City of Fort Worth Water Department
P. O. Box 870
Fort Worth, TX 76101

Dear Mr. Harder,

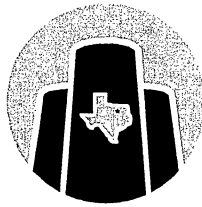
Enclosed is a copy of the City of Saginaw's Drought Contingency / Emergency Water Management Plan and Water Conservation Plan. This document was adopted on April 2, 2024 and will become effective on May 1, 2024.

This plan was prepared in accordance with Chapter 288 of Title 30, Texas Administrative Code, "Water Conservation Plans, Drought Contingency Plans, Guidelines and Requirements" and the wholesale customer contract.

If you have any questions about these documents, please contact me at 817-232-4640 or greame@saginawtx.org.

Sincerely,

Gabe Reaume
City Manager



**CITY OF
SAGINAW**

April 12, 2024

Water Supply Division PDWS MC-155
Texas Commission on Environmental Quality
P.O. Box 13087
Austin, TX 78711-3087

Re: Drought Contingency / Emergency Water Management Plan and Water
Conservation Plan
City of Saginaw
PWS: TX2200060

To the Water Source Protection Team:

Enclosed is a copy of the City of Saginaw's Drought Contingency / Emergency
Water Management Plan and Water Conservation Plan. This document was
adopted on April 2, 2024 and will become effective on May 1, 2024.

These plans are submitted in accordance with Chapter 288 of Title 30, Texas
Administrative Code, "Water Conservation Plans, Drought Contingency Plans,
Guidelines and Requirements".

If you have any questions about these documents, please contact me at 817-232-
4640 or greame@saginawtx.org.

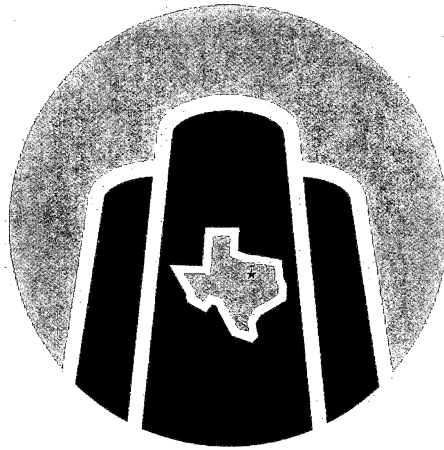
Sincerely,

Gabe Reaume
City Manager

City of Saginaw

Drought Contingency & Emergency Water Management Plan

For Retail Water Customers



City of Saginaw

Prepared by:

City of Saginaw, Texas
205 Brenda Lane
Saginaw, Texas 76179
(817) 230-0500
PWS #2200023

Kimley-Horn and Associates Inc.
TBPE Firm No. F-928
801 Cherry Street, Unit 13
Fort Worth, Texas
(817) 335-6511



City of Saginaw

Kimley»Horn

Adopted: April 2, 2024
Effective: May 1, 2024

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APPENDIX A Ordinance Adopting the Plan

**APPENDIX B Letters to Region C Water Planning Group, Tarrant
Regional Water District, City of Fort Worth, and the
Texas Commission on Environmental Quality**

1. INTRODUCTION AND OBJECTIVES

The purpose of this Drought Contingency and Emergency Water Management Plan (subsequently referred to as the Plan) is as follows:

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

2. TEXAS COMMISSION ON ENVIRONMENTAL QUALITY RULES

TCEQ rule Title 30, Part 1, Chapter 288, Subchapter A, Rule 288.1 (4) defines a drought contingency plan as “a strategy or combination of strategies for temporary supply and demand management responses to temporary and potentially recurring water supply shortages and other water supply emergencies.”

TCEQ rules governing development of and minimum requirements for drought contingency plans for municipal water suppliers and wholesale water suppliers are contained in Texas Administrative Code Title 30, Part 1, Chapter 288, Subchapter B, Rule 288.20 and Rule 288.22, respectively.

3. WATER SYSTEM PROFILE

The City of Saginaw receives treated water from the neighboring City of Fort Worth, Texas through a single delivery point at Longhorn Pump Station. The delivery point from Fort Worth is rated up to 5,500 GPM. Longhorn pump station has a pumping capacity of 6,800 GPM. Within Saginaw's system there are also two booster pump stations that each have a capacity of 1,500 GPM and feed off existing system pressure. There is one emergency interconnect (Old Decatur and Bailey Boswell) with the City of Fort Worth. If an emergency occurs, Saginaw can lose its pumping and/or storage capabilities and still be supplied via the emergency interconnect.

The system capacity baseline for triggers is the reliable delivery capacity of 9.8 million gallons per day (MGD). This trigger number will be evaluated each year to take into consideration improvements that may have been added to the system.

The water supply triggers defined in Section 4.4 were provided to Saginaw by its water supplier, City of Fort Worth. The City of Fort Worth was provided its water supply triggers from its supplier, Tarrant Regional Water District. TRWD selected its triggers after hiring an outside consultant to evaluate where the triggers levels should be for the drought plan to achieve meaningful water savings.

4. DROUGHT CONTINGENCY/EMERGENCY WATER MANAGEMENT PLAN

4.1 Public Involvement

The public had several opportunities to provide input into the plan.

- A public meeting soliciting comments was held on April 2, 2024. The meeting was advertised on the city Web site, and through news releases.
- The draft plan was posted on the City of Saginaw website (www.ci.saginaw.tx.us) prior to City Council adoption.
- Copies were available to anyone upon request.

4.2 Public Education

Saginaw will inform and educate the public about the Drought Contingency / Emergency Water Management Plan by the following means:

- Preparing fact sheets describing the plan and making these available online and at various city sites, and at events where the water department may have a booth.
- Posting a copy of the Plan on the city's Web site.
- Notifying local organizations, schools, and civic groups that staff are available to make presentations on the plan.

At any time that the Drought Contingency/Emergency Water Management Plan is activated or the stage changes, customers will be notified through local media of the issues, the current response stage, and the specific actions required of the public. The information will also be publicized on the city's Web site. Bill inserts will also be used as appropriate.

4.3 Initiation & Termination of Drought & Emergency Response Stages

The provisions of this Plan shall apply to all persons, customers, and property utilizing potable water provided by the City of Saginaw. The terms "person" and "customer" as used in the Plan include individuals, corporations, partnerships, associations, and all other legal entities. The Plan does not apply to locations using treated wastewater effluent, private wells or possessing their own water rights in the Trinity River; however, any pond, impoundment, body of water, or other water source that is supplemented, or has the ability to supplement supply, with potable water shall adhere to the provisions of this plan.

The Plan may be applied to the entire city or geographic portions of the city as necessary. If the Plan is applied only to a limited sector, the boundaries will be defined in terms of roadways, creeks and other easily distinguishable features, such as city limits.

Initiation of a Drought / Emergency Water Management Stage

The City Manager or his/her official designee may order the implementation of a drought response or water emergency stage when one or more of the trigger conditions for that stage is met. The following actions will occur when a stage is initiated.

- The public will be notified through local media and the City of Saginaw Web site, as described in Section 4.2.
- City of Fort Worth and Tarrant Regional Water District will be notified by telephone and with a follow-up letter, e-mail, or fax that provides details of the reasons for initiation of the drought or water emergency stage.
- The Saginaw Public Works Department will notify the Executive Director of the TCEQ within 5 business days when mandatory provisions of the Plan are activated.

Stages imposed by TRWD and the City of Fort Worth action must be initiated by the City of Saginaw.

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

Termination of a Drought Stage

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

- The public will be notified through local media and the City of Saginaw Web site as described in Section 4.2.
- City of Fort and Tarrant Regional Water District will be notified by telephone with a follow-up letter, e-mail, or fax.
- If any mandatory provisions of the drought contingency/emergency water management plan that have been activated are terminated, the Saginaw Public Works Department will notify the Executive Director of the TCEQ within 5 business days.

The City Manager or his/her official designee may decide not to order the termination of a drought response stage or water emergency even though the conditions for termination of the stage are met. The City Manager or his designee may choose to implement a phased out approach when exiting various stages to protect the integrity of the system. Factors which could influence such a decision include, but are not limited to, the time of the year, weather conditions, or the anticipation of potential changed conditions that warrant the

continuation of the drought stage. The reason for this decision should be documented.

4.4 Drought and Emergency Response Stages

Stage 1 – Water Watch

Triggering Conditions

- Water demand reaches or exceeds 90% of reliable delivery capacity for three consecutive days. The delivery capacity could be citywide or in a specified portion of the system.
- Saginaw's water distribution system becomes contaminated.
- Saginaw's water demand for all or part of the delivery system approaches delivery capacity because delivery capacity is inadequate.
- Saginaw's water supply system is unable to deliver water due to the failure or damage of major water system components.
- Fort Worth initiated Stage 1 – Water watch for one or more of the following reasons:
 - Fort Worth's water treatment or distribution system becomes contaminated.
 - Fort Worth's water demand for all or part of the delivery system approaches delivery capacity because delivery capacity is inadequate.
 - Fort Worth's water supply system is unable to deliver water due to the failure or damage of major water system components.
- TRWD initiated Stage 1 – Water Watch for one or more of the following reasons:
 - Total raw water supply in TRWD western and eastern division reservoirs drops below 75% (25% depleted) of conservation storage.
 - Water demand for all or part of the TRWD delivery system exceeds delivery capacity because delivery capacity is inadequate.
 - Water demand is projected to approach the limit of TRWD's permitted supply.
 - TRWD's supply source becomes contaminated.
 - TRWD's water supply system is unable to deliver water due to the failure or damage of major water system components.
 - The TRWD General Manager, with the concurrence of the TRWD Board of Directors, finds that conditions warrant the declaration of a Stage 1 drought.

Terminating Conditions for Stage 1

Stage 1 may terminate when TRWD and/or Fort Worth terminates its Stage 1 condition or when the circumstances that caused the initiation of Stage 1 no longer prevail.

Goal for Use Reduction for Stage 1

The goal for water use reduction under Stage 1, Water Watch, is five percent. If circumstances warrant or if required by TRWD, the City Manager or his/her official designee can set a goal for greater water use reduction.

Actions Available for Stage 1

The City Manager or his/her official designee may order the implementation of any of the actions listed below, as deemed necessary. The City Manager or his/her official designee must implement any action(s) required by the TRWD and/or Fort Worth.

All Water Users

Initiate mandatory restrictions to prohibit non-essential water use as follows:

- Discourage hosing of paved areas, such as sidewalks, driveways, parking lots, tennis courts, patios, or other impervious surfaces, except to alleviate an immediate health or safety hazard. This may include premises with raw or processed food, pharmaceutical or vaccine processing, storage or vending establishments including restaurants and grocery stores may be washed to extent necessary for sanitary purposes. These areas may include:
 - Trash and dumpster areas
 - Areas around fuel pumps
 - Store front cleaning of areas with accumulated bird droppings, feathers and debris
 - Localized spot cleaning of parking areas to remove oil, grease buildup that may pose a health and safety issue.
- Discourage hosing of buildings or other structures for purposes other than fire protection or surface preparation prior to painting.
- Prohibit using water in such a manner as to allow runoff or other waste, including:
 - failure to repair a controllable leak, including a broken sprinkler head, a leaking valve, leaking or broken pipes, or a leaking faucet;
 - operating a permanently installed irrigation system with: (a) a broken head; (b) a head that is out of adjustment and the arc of the spray head is over a street or parking lot; or (c) a head that is misting because of high water pressure; or

- during irrigation, allowing water to (a) to run off a property and form a stream in a street for a distance of 50 feet or greater; or (b) to pond in a street or parking lot to a depth greater than one-quarter of an inch.
- Allowing or causing an irrigation system or other lawn watering device to operate during any form of precipitation or when temperatures are at or below 32 degree Fahrenheit.
- Prohibit outdoor watering with sprinklers or irrigation systems between 10 a.m. and 6 p.m.
- Limit landscape watering with sprinklers or irrigation systems at each service address to a twice per week schedule as outlined below. This includes landscape watering of parks, and sports fields. Wholesale customers may use a different watering schedule than the one below as long as it limits each service address to a twice per week schedule; however, use of the same schedule would simplify the message passed to customers through the news media.
 - Residential addresses ending in an even number (0, 2, 4, 6, or 8) may water on Wednesdays and Saturdays.
 - Residential addresses ending in an odd number (1, 3, 5, 7 or 9) may water on Thursdays and Sundays.
 - All non-residential locations (apartment complexes, businesses, industries, parks, medians, etc.) may water on Tuesdays and Fridays.

Exceptions:

- Lawns and landscaping may be watered on any day by handheld hose, drip irrigation, a soaker hose or tree bubbler.
- Water use necessary for the repair of an irrigation system, plumbing line, fountain, etc. in the presence of the person making the repair.
- Outdoor watering at service addresses with large multi-station irrigation systems may take place in accordance with a variance granted by the City Manager, if the City determines that a property cannot be completely irrigated with an average of three-quarters of an inch of water in a single day, and that the property should be divided into sections to be irrigated on different days.
- Establishing new turf is discouraged. If hydromulch, grass sod, or grass seed is installed for the purpose of establishing a new lawn, there are no watering restrictions for the first 30 days while it is being established. After that, the watering restrictions set forth in this stage apply. (This does not include over seeding with rye since turf already exists.)
- Golf courses may water greens and tee boxes as necessary, however water must be done before 10 a.m. and after 6 p.m.

Encouraged to reduce water use by five percent.

- Skinned areas of sports fields may be watered as needed for dust control.
 - Watering of athletic fields (fields only, does not include surrounding landscaped areas) used for organized sports practice, competition, or exhibition events may occur as necessary to protect the health and safety of the players, staff, or officials present for athletic events. Encouraged to reduce water use by five percent.
 - Public areas that are open to the public at-large and have a high-impact from frequent use may be allowed additional watering, with a variance granted by the City Manager, if it is deemed to be beneficial to serve and protect the community amenity. Examples may include but are not limited to: outdoor amphitheaters, demonstration gardens, public art exhibitions, outdoor learning areas, arboretums, etc.
- All users are encouraged to reduce the frequency of draining and refilling swimming pools.
 - All users are encouraged to use native and adapted drought tolerant plants in landscaping.
 - Washing of any motor vehicle, motorbike, boat, trailer, airplane, or other vehicle shall be limited to the use of a hand-held bucket or a hand-held hose equipped with a positive-pressure shutoff nozzle for quick rinses. Vehicle washing may be done at any time on the premises of a commercial car wash or commercial service station. Companies with an automated on-site vehicle washing facility may wash its vehicles at any time. Further, such washing may be exempt from these requirements if the health, safety, and welfare of the public are contingent upon frequent vehicle cleansing, such as garbage trucks and vehicles used to transport food and perishables.
 - Discourage the filling, draining, or refilling of swimming pools, wading pools, hot tubs, and Jacuzzi type pools except to maintain adequate levels for structural integrity, proper operation and maintenance, and/or alleviate an issue that poses a public safety risk.

City and Local Governments

In addition to the actions listed above:

- Review conditions and problems that caused Stage 1. Take corrective action.
- Increase public education efforts on ways to reduce water use.
- Increase enforcement efforts.
- Intensify leak detection and repair efforts.
- Audit all city and local government irrigation systems to ensure proper

condition, settings, and operation.

- Identify and encourage voluntary reduction measures by high-volume water users through water use audits.
- Reduce non-essential water use. As used herein, non-essential water uses are those that do not have any health or safety impact and are not needed to meet the core function of the agency.

Commercial or Industrial

- All actions listed above for all water users apply to commercial and industrial users.
- Stock at commercial plant nurseries is exempt from Stage 1 watering restrictions.
- Hotels, restaurants, and bars are encouraged to serve drinking water to patrons on an "on demand" basis.
- Hotels are encouraged to implement laundry conservation measures by encouraging patrons to reuse linens and towels.
- Car wash facilities must keep equipment in good working order, which should include regular inspections to be sure there are no leaks, broken or misdirected nozzles, and that all equipment is operating efficiently.
- All commercial and industrial customers are encouraged to audit irrigation systems.

Stage 2 – Water Warning

Triggering Conditions for Stage 2

- Water demand reaches or exceeds 95% of reliable delivery capacity for three consecutive days. The delivery capacity could be citywide or in a specified portion of the system.
- Contamination of the water supply source(s) or water supply system.
- Demand for all or part of the delivery system equals or exceeds delivery capacity because delivery capacity is inadequate.
- Water supply system is unable to deliver water due to the failure or damage of major water system components.
- Fort Worth initiated Stage 2 – Water warning for one or more of the following reasons:
 - Fort Worth's water demand reaches or exceeds 95% of reliable delivery capacity for three consecutive days. The delivery capacity could be citywide or in a specified portion of the system.

- Contamination of the Fort Worth water supply source(s) or water supply system.
- Demand for all or part of the Fort Worth delivery system equals or exceeds delivery capacity because delivery capacity is inadequate.
- Fort Worth's water supply system is unable to deliver water due to the failure or damage of major water system components.
- TRWD initiated Stage 2 – Water Warning for one or more of the following reasons:
 - Total raw water supply in TRWD western and eastern division reservoirs drops below 60% (40% depleted) of conservation storage.
 - Water demand for all or part of the TRWD delivery system exceeds delivery capacity because delivery capacity is inadequate.
 - Water demand is projected to approach the limit of TRWD's permitted supply.
 - TRWD's supply source becomes contaminated.
 - TRWD's water supply system is unable to deliver water due to the failure or damage of major water system components.
 - The TRWD General Manager, with the concurrence of the TRWD Board of Directors, finds that conditions warrant the declaration of a Stage 2 drought.

Terminating Conditions for Stage 2

Stage 2 may terminate when TRWD and/or Fort Worth terminates its Stage 2 condition or when the circumstances that caused the initiation of Stage 2 no longer prevail.

Goal for Use Reduction for Stage 2

The goal for water use reduction under Stage 2 – Water Warning is to decrease use by 10 percent. If circumstances warrant or if required by TRWD and/or Fort Worth, the City Manager can set a goal for greater water use reduction.

Actions Available for Stage 2

The City Manager may order the implementation of any of the actions listed below, as deemed necessary. The City Manager must implement any action(s) required by the TRWD and/or Fort Worth.

- Continue or initiate any actions available under Stage 1.
- Initiate engineering studies to evaluate water supply alternatives should conditions worsen.

All Water Users

- Limit landscape watering with sprinklers or irrigation systems to a once per week schedule at each service address as determined by the City Manager. This includes landscape watering at parks, and sports fields. Wholesale customers may use a different watering schedule than the one used for Fort Worth retail customers as long as it limits each service address to once per week schedule; however, use of the same schedule would simplify the messages passed to customers through the news media.

Exceptions:

- Lawns and landscaping may be watered on any day, at any time, by handheld hose, drip irrigation, a soaker hose or tree bubbler.
- Outdoor watering at service addresses with large multi-station irrigation systems may take place in accordance with a variance granted by the City Manager, if he/she determines that a property cannot be completely irrigated with an average of three-quarters of an inch of water in a single day, and that the property should be divided into sections to be irrigated on different days.
- Golf courses may water greens and tee boxes as needed to keep them alive, however watering must be done before 10 a.m. and after 6 p.m. Fairways are restricted to once per week as outlined above. Golf course rough cannot be watered.
- Watering of athletic fields (fields only, does not include surrounding landscaped areas) used for organized sports practice, competition, or exhibition events may occur as necessary to protect the health and safety of the players, staff, or officials for athletic events. Encouraged to reduce water use by 10%.
- All users are encouraged to wait until the current drought or emergency situation has passed before establishing new landscaping and turf. If hydromulch, grass sod, or grass seed is installed for the purpose of establishing a new lawn, there are no watering restrictions for the first 30 days while it is being established. After that, the watering restrictions set forth in this stage apply. (This does not include over seeding with rye since turf already exists.)
- Discourage the operation of ornamental fountains or ponds that use potable water except where necessary to support aquatic life or where such fountains or ponds are equipped with a recirculation system.
- Discourage the filling, draining, or refilling of swimming pools, wading pools, hot tubs, and Jacuzzi type pools except to maintain adequate levels for structural integrity, proper operation and maintenance, and/or alleviate an issue that poses a public safety risk.
- Encourage the use of covers for all types of pools, hot tubs, and Jacuzzi type pools when not in use.

City and Local Governments

- Review conditions or problems that caused Stage 2. Take corrective action.
- Increase frequency of media releases on water supply conditions.
- Further accelerate public education efforts on ways to reduce water use.
- Eliminate non-essential water use. As used herein, non-essential water uses are those that do not have any health or safety impact and are not needed to meet the core function of the agency.
- Prohibit wet street sweeping.

Commercial or Industrial

- All actions listed above for all water users apply to commercial and industrial users.
- Use of water from fire hydrants for any purpose other than firefighting related activities or other activities necessary to maintain public health, safety and welfare requires a special permit issued by the City Manager. Fire hydrant use may be limited to only designated hydrants. Upon declaration of this drought stage, all holders or applicants of a Water Fire Hydrant Meter Agreement are required to apply for a variance as set forth in this plan. If conditions allow, as determined by the City Manager, the use of water from hydrants may continue until the City Manager or his/her designee issues a determination on the petition for variance. If conditions do not allow, the City Manager may require all fire hydrant meters be immediately returned from the field, pending determination of each petition for variance.

Stage 3 – Emergency Water Use

Triggering Conditions for Stage 3

- Water demand has reaches or exceeds 98% of reliable delivery capacity for one day. The delivery capacity could be citywide or in a specified portion of the system.
- Contamination of the water supply source(s) or water supply system.
- Demand for all or part of the delivery system exceeds delivery capacity because delivery capacity is inadequate.
- Water supply system is unable to deliver water due to the failure or damage of major water system components.
- Fort Worth has initiated Stage 3 – Emergency Water Use, which may also be initiated by one or more of the following:
 - Fort Worth's water demand has reaches or exceeds 98% of reliable delivery capacity for one day. The delivery capacity could be citywide or in a specified portion of the system.

- Contamination of the Fort Worth water supply source(s) or water supply system.
- Demand for all or part of the Fort Worth delivery system exceeds delivery capacity because delivery capacity is inadequate.
- Fort Worth's water supply system is unable to deliver water due to the failure or damage of major water system components.
- TRWD has initiated Stage 3 – Emergency Water Use, which may also be initiated by one or more of the following:
 - Total raw water supply in TRWD western and eastern division reservoirs drops below 45% (55% depleted) of conservation storage.
 - Water demand for all or part of the TRWD delivery system exceeds delivery capacity because delivery capacity is inadequate.
 - Water demand is projected to approach or exceed the limit of TRWD's permitted supply.
 - TRWD's supply source becomes contaminated.
 - TRWD's water supply system is unable to deliver water due to the failure or damage of major water system components.
 - The TRWD General Manager, with the concurrence of the TRWD Board of Directors, finds that conditions warrant the declaration of a Stage 3 drought.

Terminating Conditions for Stage 3

Stage 3 may terminate when TRWD and/or Fort Worth terminates its Stage 3 condition or when the circumstances that caused the initiation of Stage 3 no longer prevail.

Goals for Use Reduction for Stage 3

The goal for water use reduction under Stage 3, Emergency Water Use, is to decrease use by 20 percent. If circumstances warrant or if required by TRWD and/or Fort Worth, the City Manager can set a goal for a greater water use reduction.

Actions Available for Stage 3

The City Manager may order the implementation of any of the actions listed below, as deemed necessary. The City Manager must implement any action(s) required by the TRWD and/or Fort Worth.

- Continue or initiate any actions available under Stages 1 and 2.

All Water Users

- Prohibit landscape watering, including at parks, and sports fields.

Exceptions:

- Watering with hand-held hose, soaker hose or drip irrigation system may occur any day and any time. (The intent of this measure is to allow for the protection of structural foundations, trees, and other high value landscape materials).
- Golf course greens only may be watered by hand-held hose as needed to keep them alive. Watering of athletic fields (fields only, does not include surrounding landscaped areas) used for organized sports practice, competition, or exhibition events may occur as necessary to protect the health and safety of the players, staff, or officials present for athletic events may be allowed to water by variance. A water management plan must be submitted to the City Manager detailing how each area will comply with Stage 3 drought measures.
- Prohibit establishment of new landscaping. Variances may be granted for those landscape projects started prior to the initiation of Stage 3 drought restrictions.
- Vehicle washing restricted to commercial car wash, commercial service station or a private on-site vehicle washing facility and can only be done as necessary for health, sanitation, or safety reasons, including but not limited to the washing of garbage trucks and vehicles used to transport food and other perishables. All other vehicle washing is prohibited.
- Prohibit the operation of ornamental fountains or ponds that use potable water except where necessary to support aquatic life.
- Prohibit the draining, filling, or refilling of swimming pools, wading pools and Jacuzzi type pools. Existing private and public pools may add water to maintain pool levels; however they may not be refilled using automatic fill valves.
- Prohibit hosing of buildings or other structures for purposes other than fire protection or surface preparation prior to painting with high-pressure equipment. Must be performed by a professional power washing service utilizing high efficiency equipment and a vacuum recovery system where possible.

City and Local Governments

In addition to actions listed above:

- Continue or initiate any actions available under Stages 1 and 2.
- Review conditions or problems that caused Stage 3. Take corrective action.
- Implement viable alternative water supply strategies.

- Increase frequency of media releases explaining emergency situation.
- Reduce city and local government water use to maximum extent possible.
- Prohibit the permitting of new swimming pools, Jacuzzi type pools, spas, ornamental ponds and fountain construction. Pools already permitted and under construction may be completely filled with water.

Commercial or Industrial

- All actions listed above for all water users apply to commercial and industrial users.
- Hotels, restaurants, and bars required to serve drinking water to patrons on an "on demand" basis.
- Hotels are required to implement laundry conservation measures by encouraging patrons to reuse linens and towels.
- Stock at commercial plant nursery may be watered only with a hand-held hose, handheld watering can, or drip irrigation system.
- Commercial and industrial water users required to reduce water use by a set percentage determined by the City Manager.
- Use of water from hydrants for any purpose other than firefighting related activities or other activities necessary to maintain public health, safety and welfare requires a special permit issued by the City Manager. Fire hydrant use may be limited to only designated hydrants.

4.5 Procedures for Granting Variances to the Plan

The City Manager may grant and revoke temporary variances to this Plan as provided by ordinance if one or more of the following conditions are met:

- Failure to grant such a variance would cause an emergency condition adversely affecting health, sanitation, or fire safety for the public or the person requesting the variance.
- Compliance with this plan cannot be accomplished due to technical or other limitations.
- Alternative methods that achieve the same level of reduction in water use can be implemented.

Variances shall be granted or denied at the discretion of the City Manager. All petitions for variances should be in writing and should include the following information:

- Name and address of the petitioner(s)
- Purpose of water use
- Specific provisions from which relief is requested
- Detailed statement of the adverse effect of the provision from which relief is

requested

- Description of the relief requested
- Period of time for which the variance is sought
- Detailed schedule of irrigation that shows a reduction in use over the 30 day period for new lawns and landscapes. Schedule should be designed so that at the end of the 30 day period, lawn and landscaped areas can adhere to the twice per week schedule defined in Stage 1.
- Alternative measures that will be taken to reduce water use
- Other pertinent information.

4.6 Procedures for Enforcing Mandatory Water Use Measures

Mandatory water use restrictions may be imposed in Stages 1, 2, and 3. These mandatory water use restrictions will be enforced by warnings and penalties as follows:

- On the first violation, customers will be given a written warning that they have violated the mandatory water use restriction.
- On the second and subsequent violations, citations may be issued to customers, with minimum and maximum fines established by ordinance.
- After three violations have occurred, the utility may cut off water service to the customer.

Appendix A contains a copy of the City of Saginaw City ordinance adopting this Plan and the enforcement actions and penalties.

4.7 Coordination with the Other Entities

Appendix B includes a copy of a letters sent to the chair of the Region C Water Planning Group, General Manager of TRWD, Public Education Coordinator of the City of Fort Worth and the Executive Director of TCEQ upon adoption of this Plan.

4.8 Review and Update of Drought Contingency Plan

Saginaw reviewed this drought contingency plan in 2024 and will review it at least every five years thereafter, or as required by TCEQ.

5.0 Drought Contingency Plan Definitions

Term	Definition
Aesthetic Water Use	Water use for ornamental or decorative features such as fountains, reflecting pools and water gardens.
Agriculture	a. Cultivating the soil to produce crops for human food, animal feed, or planting seed or for the production of fibers; b. The practice of floriculture, viticulture, silviculture, and horticulture, including the cultivation of plants in containers or non-soil media by a nursery grower; c. Raising, feeding, or keeping animals for breeding purposes or for the production of food or fiber, leather, pelts, or other tangible products having a commercial value; d. Raising or keeping equine animals e. Wildlife management; and f. planting cover crops, including cover crops cultivated for transportation, or leaving land idle for the purpose of participating in any governmental program or normal crop or livestock rotation procedure
Agriculture Use	Any use or activity involving agriculture, including irrigation
Alternative Water Source	Water produced by a source other than a water treatment plan and in not considered potable. These sources can include, but are not limited to: reclaimed/recycled water, collected rain water, collected grey water, private well water.
Athletic Field	A sport playing field, the essential feature of which is turf grass, used primarily for organized sports for schools, professional sports, or sanctioned league play.
Automatic Irrigation System	A site-specific system of delivering water generally for landscaping via a system of pipes or other conduits installed below ground that automatically cycles water use through water emitters to a preset program, whether on a designated timer or through manual operation.
Aquatic Life	A vertebrate organism dependent upon an aquatic environment to sustain its life.
Best Management Practices	Voluntary efficiency measures that save a quantifiable amount of water, either directly or indirectly, and that can be implemented within a specific time frame
Conservation	Those practices, techniques, and technologies that reduce water consumption; reduce the loss or waste of water; improve the efficiency in water use; and increase the recycling and reuse of water so that supply is conserved and made available for other or future uses.
Commercial	The use of water by a place of business, such as a hotel, restaurant, or office building. This does not include multi-family residences or agriculture, industrial, or institutional users
Customer	Any person, company, or organization using water supplied by TRWD or through an entity supplied by TRWD.
Drip Irrigation	An irrigation system (drip, porous pipe, etc.) that applies water at a predetermined controlled low-flow levels directly to the roots of the plant.
Drought Contingency Plan	A strategy or combination of strategies for temporary supply and demand management responses to temporary and potentially recurring water supply shortages and other water supply emergencies.
Fountain	An artificially created jet, stream or flow of water, a structure, often decorative, from which a jet, stream or flow of water issues.
Golf Course	An irrigated and landscaped playing area made up of greens, tees, fairways, roughs and related areas used for the playing of golf.
Hand-Held Hose	A hose physically held by one person, fitted with a manual or automatic shutoff nozzle.
Hand Watering	The application of water for irrigation purposes through a hand-held watering hose, watering can, or bucket.

Hose-End Sprinkler	A device through which water flows from a hose to a sprinkler to water any lawn or landscape.
Hosing	To spray, water, or wash with a water hose.
Industrial Use	The use of water in processes designed to convert materials of a lower order of value into forms having greater usability and commercial value, and the development of power by means other than hydroelectric, but does not include agricultural use.
Institutional Use	The use of water by an establishment dedicated to public service, such as a school, university, church, hospital, nursing home, prison or government facility. All facilities dedicated to public service are considered institutional regardless of ownership.
Irrigation	The agricultural 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 from a public water supplier.
Irrigation System	A system of fixed pipes and water emitters that apply water to landscape plants or turfgrass, including, but not limited to, in-ground and permanent irrigation systems.
Irrigation Water Use Efficiency	The percentage of that amount of irrigation water which is beneficially used by agriculture crops or other vegetation relative to the amount of water diverted from the source(s) of supply. Beneficial uses of water for irrigation include, but are not limited to, evapotranspiration needs for vegetative maintenance and growth, salinity management, and leaching requirements associated with irrigation.
Lake, Lagoon or Pond	Means an artificially created body of fresh or salt water.
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, right-of-ways, medians and entry ways.
Mining Use	The use of water for mining processes including hydraulic use, drilling, washing sand and gravel, and oil field re-pressuring.
Municipal Use	The use of potable water provided by a public water supplier as well as the use of sewage effluent for residential, commercial, industrial, agricultural, institutional, and wholesale users.
"New Landscape" Means	a. Installed during construction of a new house, multi-family dwelling, or commercial building; b. Installed as part of a governmental entity's capital improvement project; or c. Alters more than one-half the area of an existing landscape.
Non-Essential Water Use	Water uses that are not required for the protection of public health, safety and welfare, such as: a. Irrigating landscape areas, including parks, athletic fields, and golf courses, except as otherwise provided under this plan; b. Washing any sidewalks, walkways, driveways, parking lots, tennis courts, or other hard-surfaced areas; except to alleviate a public health and safety issue; c. Washing any automobile, motorbike, boat (and/or trailer), airplane, or other vehicle except where required by law for safety and sanitary purposes. d. Washing buildings or structures for purposes other than immediate fire protection, or other uses provided under this plan; e. Filling, refilling, or adding to any swimming pools or Jacuzzi-type pools, except to maintain safe operating levels; f. Filling or operation of a fountain or pond for aesthetic or scenic purposes except when necessary to support aquatic life; g. Failure to repair a controllable leak within a reasonable time period after being directed to do so by formal notice; and h. Drawing from hydrants for construction purposes or any other purpose other than firefighting or protection of public drinking water supplies.
Nursery Grower	A person engaged in the practice of floriculture, viticulture, silviculture, and horticulture, including the cultivation of plants in containers or nonsoil media, who grows more than 50% of the products that the person either sells or leases, regardless of the variety sold, leased, or grown. For the purpose of this definition,

	grow means the actual cultivation or propagation of the produce beyond the mere holding or maintaining of the item prior to sale or lease, and typically includes activities associated with the production or multiplying of stock such as the development of new plants from cuttings, grafts, plugs, or seedlings.
Park	Means a non-residential or multifamily tract of land, other than a golf course, maintained by a city, private organization, or individual, as a place of beauty or public recreation and available for use to the general public.
Power/Pressure Washer	Means a machine that uses water or a water-based product applied at high pressure to clean impervious surfaces.
Pressure Washer (High-Efficiency)	Means a machine that uses water or a water-based product applied at 1500 pounds per square inch (PSI) or greater.
Pollution	The alteration of the physical, thermal, chemical, or biological quality of, or the contamination of, any water in the state that renders 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.
Public Water Supplier	An individual or entity that supplies water to the public for human consumption.
Reclaimed Water	Municipal wastewater effluent that is given additional treatment and distributed for reuse in certain applications. Also referred to as recycled water.
Residential Use	The use of water that is billed to single and multi-family residences, which applies to indoor and outdoor uses.
Residential Gallons Per Capita Per Day	The total gallons sold for residential use by a public water supplier divided by the residential population served and then divided by the number of days in year.
Regional Water Planning Group	A group established by the Texas Water Development Board to prepare a regional water plan under Texas Water Code, §16.053.
Retail Public Water Supplier	An individual or entity that for compensation supplies water 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 when that water is not resold to or used by others.
Reuse	The authorized use for one or more beneficial purposes of use of water that remains unconsumed after the water is used for the original purpose of use and before that 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	Means a flexible hose that is designed to slowly emit water across the entire length and connect directly to a flexible hose or spigot. Does not include hose that by design or use sends a fine spray in the air. It is not considered drip irrigation.
Splash Pad/Spray Park	Means an area for water play that has no standing water. Typically, they utilize various spray nozzles which spray water in multiple directions.
Swimming Pool	Means any structure, basin, chamber, or tank including hot tubs, containing an artificial body of water for swimming, diving, or recreational bathing, and having a depth of two (2) feet or more at any point.
Total Use	The volume of raw or potable water provided by a public water supplier to billed customer sectors or nonrevenue uses and the volume lost during conveyance, treatment, or transmission of that water.
Total Gallons Per Capita Per Day (GPCD)	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 calculation GPCD for targets and goals.
Vegetable Garden	Means any noncommercial vegetable garden planted primarily for household use; "noncommercial" includes incidental direct selling of produce from such a vegetable garden to the public.
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).

Well Water	Means water that has been, or is, obtained from the ground by digging, boring, or drilling to access an underground aquifer.
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Appendix A

Ordinance Adopting the Plan

ORDINANCE NO. 2024-04

AN ORDINANCE OF THE CITY OF SAGINAW, TEXAS, AMENDING ORDINANCE NO. 2014-10 AS AMENDED, ADOPTING AN UPDATED WATER CONSERVATION PLAN AND DROUGHT CONTINGENCY AND EMERGENCY WATER MANAGEMENT PLAN TO PROMOTE RESPONSIBLE USE OF WATER; PROVIDING THAT THIS ORDINANCE SHALL BE CUMULATIVE OF ALL ORDINANCES; PROVIDING A SEVERABILITY CLAUSE; PROVIDING FOR A PENALTY FOR VIOLATIONS; PROVIDING A SAVINGS CLAUSE; PROVIDING FOR PUBLICATION IN THE OFFICIAL NEWSPAPER; AND PROVIDING AN EFFECTIVE DATE.

WHEREAS, the City of Saginaw, Texas (the “City”) is a home rule city acting under its charter adopted by the electorate pursuant to Article XI, Section 5, of the Texas Constitution and Chapter 9 of the Local Government Code; and

WHEREAS, the City Council of the City of Saginaw has previously adopted Ordinance No. 2014-10, which adopted an updated water conservation plan and a drought contingency and emergency water management plan (collectively the “Plans”); and

WHEREAS, 30 Tex. Admin. Code §288.30 requires that the Plans be updated every five years; and

WHEREAS, the City Council has previously adopted Ordinance No. 2019-06 which amended Ordinance No. 2014-10 by updating Exhibits “A” and “B” thereto, the Water Conservation Plan and the Drought Contingency and Emergency Water Management Plan of the City of Saginaw, respectively; and

WHEREAS, the City Council now desires to amend Ordinance No. 2014-10 by updating Exhibits “A” and “B” thereto, the Water Conservation Plan and the Drought Contingency and Emergency Water Management Plan of the City of Saginaw, respectively; and

WHEREAS, the City of Saginaw has prepared an updated Water Conservation Plan and Drought Contingency and Emergency Water Management Plan for retail water customers.

NOW THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SAGINAW THAT:

SECTION 1.

That Ordinance No. 2014-10 of the City of Saginaw, as amended, a copy of which is on file with the office of the City Secretary, is hereby amended by replacing Exhibits “A” and “B” thereto with a new Exhibit “A,” the Water Conservation Plan of the City of Saginaw, Texas, (attached as Exhibit “A” to this Ordinance for all purposes,) and a new Exhibit “B” the Drought Contingency and Emergency Water Management Plan of the City of Saginaw, Texas, (attached as Exhibit “B” to this Ordinance for all purposes).

SECTION 2.

The City Manager or his designee is hereby directed to file a copy of the Plans and this Ordinance with the Texas Commission on Environmental Quality in accordance with Title 30, Chapter 288 of the Texas Administrative Code.

SECTION 3. CUMULATIVE PROVISIONS

This Ordinance shall be cumulative of all provisions of the Saginaw City Code and other applicable City ordinances, except where the provisions of this Ordinance are in direct conflict with the provisions of such ordinances, in which event the applicability of the conflicting provisions of such ordinances are hereby repealed.

SECTION 4. SEVERABILITY CLAUSE

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

SECTION 5. PENALTY CLAUSE

Any person, firm or corporation who violates, disobeys, omits, neglects or refuses to comply with or who resists the enforcement of any of the provisions of this Ordinance shall be fined not more than Two Thousand Dollars (\$2,000.00) for each offense. Each day that a violation is permitted to exist shall constitute a separate offense.

SECTION 6. SAVINGS CLAUSE

All rights and remedies of the City of Saginaw are expressly saved as to any and all violations of the provisions of any ordinances governing irrigation and water usage 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.

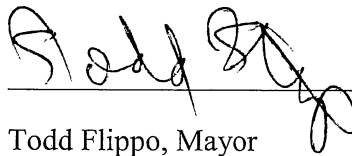
**SECTION 7.
PUBLICATION**

The City Secretary of the City of Saginaw is hereby directed to publish at least twice in the official newspaper of the City of Saginaw, the caption and the penalty clause of this ordinance in accordance with Section 52.013(b) of the Local Government Code.

**SECTION 8.
EFFECTIVE DATE**

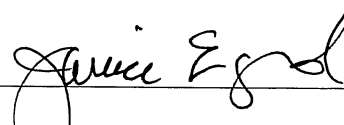
This Ordinance shall be in full force and effect from and after its passage and publication as required by law, and it is so ordained.

PASSED AND APPROVED THIS 2nd **DAY OF** April, 2024.

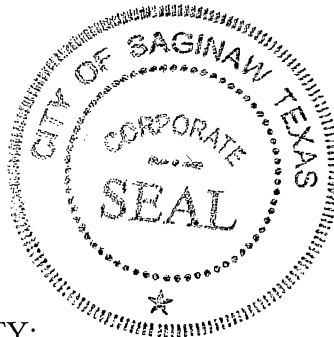


Todd Flippo, Mayor

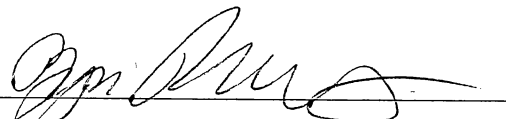
ATTEST:



Janice England, City Secretary



APPROVED AS TO FORM AND LEGALITY:



Bryn Meredith, City Attorney

Appendix B

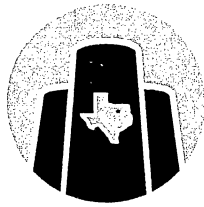
Letters to:

Region C Water Planning Group

Tarrant Regional Water District

City of Fort Worth

Texas Commission on Environmental Quality



**CITY OF
SAGINAW**

April 12, 2024

Mr. Kevin Ward
Chair, Region C Water Planning Group
Trinity River Authority
P.O. Box 60
Arlington, TX 76004

Dear Mr. Ward,

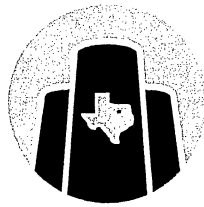
Enclosed is a copy of the City of Saginaw's Drought Contingency / Emergency Water Management Plan and Water Conservation Plan. This document was adopted on April 2, 2024 and will become effective on May 1, 2024.

These plans are submitted to the Region C Water Planning Group in accordance with Chapter 288 of Title 30, Texas Administrative Code, "Water Conservation Plans, Drought Contingency Plans, Guidelines and Requirements".

If you have any questions about these documents, please contact me at 817-232-4640 or greame@saginawtx.org.

Sincerely,

Gabe Reaume
City Manager



**CITY OF
SAGINAW**

April 12, 2024

Mr. Dustan Compton
Regional Conservation Program Manager
Tarrant Regional Water District
800 East Northside Drive
Fort Worth, Texas 76102-1097

Dear Mr. Compton,

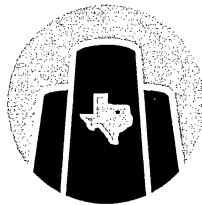
Enclosed is a copy of the City of Saginaw's Drought Contingency / Emergency Water Management Plan and Water Conservation Plan. This document was adopted on April 2, 2024 and will become effective on May 1, 2024.

This plan was prepared in accordance with Chapter 288 of Title 30, Texas Administrative Code, "Water Conservation Plans, Drought Contingency Plans, Guidelines and Requirements".

If you have any questions about these documents, please contact me at 817-232-4640 or greahme@saginawtx.org.

Sincerely,


Gabe Reaume
City Manager



**CITY OF
SAGINAW**

April 12, 2024

Mr. Chris Harder
Water Director
City of Fort Worth Water Department
P. O. Box 870
Fort Worth, TX 76101

Dear Mr. Harder,

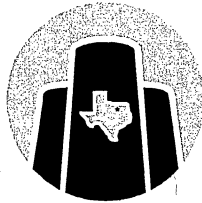
Enclosed is a copy of the City of Saginaw's Drought Contingency / Emergency Water Management Plan and Water Conservation Plan. This document was adopted on April 2, 2024 and will become effective on May 1, 2024.

This plan was prepared in accordance with Chapter 288 of Title 30, Texas Administrative Code, "Water Conservation Plans, Drought Contingency Plans, Guidelines and Requirements" and the wholesale customer contract.

If you have any questions about these documents, please contact me at 817-232-4640 or greame@saginawtx.org.

Sincerely,


Gabe Reaume
City Manager



**CITY OF
SAGINAW**

April 12, 2024

Water Supply Division PDWS MC-155
Texas Commission on Environmental Quality
P.O. Box 13087
Austin, TX 78711-3087

Re: Drought Contingency / Emergency Water Management Plan and Water
Conservation Plan
City of Saginaw
PWS: TX2200060

To the Water Source Protection Team:

Enclosed is a copy of the City of Saginaw's Drought Contingency / Emergency
Water Management Plan and Water Conservation Plan. This document was
adopted on April 2, 2024 and will become effective on May 1, 2024.

These plans are submitted in accordance with Chapter 288 of Title 30, Texas
Administrative Code, "Water Conservation Plans, Drought Contingency Plans,
Guidelines and Requirements".

If you have any questions about these documents, please contact me at 817-232-
4640 or greame@saginawtx.org.

Sincerely,

Gabe Reaume
City Manager