CITY OF MOUNT VERNON, TEXAS

WATER CONSERVATION

AND

DROUGHT CONTINGENCY PLAN

KSA Project No. MTV.078

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1. INTRODUCTION

Effective utilization of State's water resources is essential for statewide economical and community developmental activities. This report outlines the City of Mount Vernon's water conservation and drought contingency program. The objective of the water conservation program is to reduce water usage through the implementation of efficient water use practices. The water distribution system and the wastewater collection and treatment system in the City of Mount Vernon (City) are owned and operated by the City of Mount Vernon. Raw drinking water is obtained from Lake Cypress Springs. Water from Lake Cypress Springs is pumped to the water treatment plant through 9 miles of 12" pipeline using raw water pumps. The raw water is treated at a City-owned treatment plant with a design capacity of 1.3 MGD. The City operates one wastewater treatment facility.

The City has implemented a *Water Conservation and Drought Contingency Pla*n allowing for more efficient water use and providing a plan of action for water use shortages. The drought contingency plan provides procedures for voluntary and mandatory actions to be put into effect to temporarily reduce the demand placed upon the City's water supply system during periods of water shortage. Drought contingency procedures include conservation but may also include prohibition of certain uses.

A. Planning Area And Project Description

The City of Mount Vernon is located in East Texas, approximately 110 miles East of Dallas in Franklin County. The current population of the City is approximately 2,662 with about 1,238 water customers on their pressure system. Although City of Mount Vernon receives an average rainfall of 45 inches annually, this water conservation and drought contingency plan establishes guidelines that enable the City of Mount Vernon to meet their water demands during periods of drought.

B. Goals Of The Program

It is the goal of the City to set specific, quantified five-year and ten-year targets for water savings. Water savings will address reducing the water loss and reducing the municipal use. This decrease in per capita water consumption will effectively reduce water demands, thereby increasing the service capacity of the water and wastewater systems. Implementation of water conservation program may also reduce the flows associated with the wastewater treatment plant and hence enabling an efficient wastewater plant operation.

Other goals of the program are:

1. Preparation of plan to educate public about water usage during periods of water shortage.
2. Develop specific, quantified targets for water use reductions during periods of drought.
3. Develop response stages during period of emergency such as source water contamination or system outage.

C. Public Involvement

Education of homeowners and other end users is necessary if a conservation plan is to succeed in effectively reducing water use requirements. The City of Mount Vernon will solicit input from its high-volume customers by providing a copy of the proposed *Plan* and/or revisions for their review and comment. The City will give careful consideration of said input into implementation of the *Plan* and/or any revisions thereto.

Also, the City will advertise and conduct a Public Hearing to receive further comment from its citizens. The hearing will be conducted during a regularly schedule Council meeting prior to subsequent revisions to the *Plan*. Representatives of local newspapers and radio stations will be encouraged to attend to enable better information dissemination.

2. WATER CONSERVATION PLAN

A. Plan Elements

There are many elements to be considered in developing a water conservation plan. The elements that are most critical to the development of a water conservation plan for the City include: indoor water conservation practices, outdoor water conservation practices, water conserving landscaping practices, and water conserving plumbing retrofits. The principal water conservation methods to be considered in preparing this water conservation plan are:

1. Utility Profiling
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B. Utility Profiling

A detailed summary of utility evaluation data is included in Appendix A. This data substantiates the need for implementing a water conservation program along with other improvements.

C. Five-Year Target Goals For Water Savings

The City of Mount Vernon intends to promote a rigorous water savings program to save water through water loss reduction and water usage reduction. As shown in Appendix B, the five-year target goals for water loss reduction and residential water usage reduction are 12 GPCD and 55 GPCD, respectively. The previous 2019 submission goals and targets were met. Based on the five-year target goal for water savings, the current 5-year average for total gallons per capita per day for water demand will aim to be reduced from 139 GPCD to 135 GPCD.

D. Ten-Year Target Goals For Water Savings

The ten-year target goals (Appendix B) for water loss reduction and residential water usage reduction are 9 GPCD and 50 GPCD, respectively. Based on the ten-year target goal for water savings, the current 2019 - 2023 average for total gallons per capita per day water demand will be reduced from 139 GPCD to 130 GPCD.

E. Factors Considered For Setting 5-Year And 10-Year Targets

Following factors were considered prior to setting 5-year and 10-year target goals:

- Regional water plan
- Local Climate
- Population growth
- Utility Profile

Based on the available data, Franklin county's water use is expected to increase at an average rate of 0.11% per year from the year 2020 to the year 2070. The City of Mount Vernon's projected water usage increase is 0.15% per year (2020 to 2070) and is in conformance with the regional water plan's water projection. Based on the available data taken from NOAA, the average rainfall for the City of Mount Vernon is approximately 45 inches per year and appears to be favorable for water availability. The target goals are expressed in gallons per capita per day (GPCD) to account for population growth. Based on the utility profiling performed, it appears that the water usage has consistently stayed lateral for the last five years.

Additionally, other water conservation techniques will be promoted through public education programs as described below.

F. Schedule For Implementing The Plan

The City of Mount Vernon proposes the following schedule to meet the five-year and ten-year target goals.

- 2025 - Evaluate past system performance for 5-year target. Continue public education and periodic visual inspections. Replace percentage of water meters annually.
- 2024 through 2029 - Identification of water system improvements to reduce water loss. Continue public education and periodic visual inspection. Meter the remaining unaccounted water usages in public facilities. Continue to replace percentage of water meters annually.
- 2024 through 2029 - Water system improvements to alleviate inflow and infiltration as identified through visual inspections.
- 2029 - Evaluate system performance for 10-year target and continue public education program.
- 2025-2030 Continue water system improvements to reduce water loss via line replacement and line looping to improve water loss management.

G. Method For Tracking The Implementation And Effectiveness Of The Plan.

In addition to the above described 5-year and 10-year target evaluations, the City of Mount Vernon intends to track annual water usage. The effectiveness of the public education programs and the water conservation techniques will be evaluated using a citizen survey at least once every five years. Water Audits and water surveys will be performed annually.

H. Conservation Plan Coordinator

The City has established a designated staff member to oversee the Conservation Plan, the Conservation Coordinator. The conservation coordinator coordinates water utility staff, data from various departments, and other resources as necessary for the purpose of the development, implementation, and evaluation of the effectiveness of the conservation plan. Other duties may include responsibility for drought contingency plans or preparation and submittal of annual conservation status reports to utility management and the Texas Water Development Board. Additionally, the coordinator will prepare the annual conservation budget and promote the value of the conservation programs within the utility and service area. Tracking, measuring, and determining the water savings is a requirement of House Bill 1648. Conservation Coordinator duties can include:

1. Select and manage the implementation of the conservation BMP's.
2. Document water conservation BMP and implementation status in relation to state requirements.
3. Communicate and promote water conservation to city staff and management.
4. Manage consultants and contractors assisting in various aspects of the conservation program.
5. Develop and implement public outreach and marketing strategies for water conservation support and uptake.
6. Participate in regional water conservation planning and drought planning initiatives.
7. Conduct regular BMP and program evaluations to determine water savings, benefit of savings, implementation costs and any needs for adjustment.

The name of the conservation coordinator shall be reported, in writing, to the Executive Administrator of the Texas Water Development Board to maintain compliance with HB 1648. This will be done through reporting on the annual conservation update.

I. Master Meter.

The City of Mount Vernon uses a master flow meter to record the amount of flow diverted from the water treatment plant to the distribution system.

J. Universal Metering And Meter Repair/Replacement Program

The City currently meters all residential, commercial, industrial, and water supply corporation connections 100%. The city will continue the meter testing and replacement program to ensure a more accurate accounting of water usage; the proposed schedule is as follows:

1. Production meters – test annually
2. Meters larger than 1 1/2" – test annually
3. Meters 1 1/2" or smaller – test every 7 years or if notified of an issue

The City will maintain records indicating the length of service for each meter. Metering and meter repair and replacement, coupled with the ongoing water accounting or auditing, will be used in conjunction with other programs such as leak detection and repair to potentially save significant quantities or water.

K. Measure To Determine And Reduce Unaccounted Losses

Water losses are part of any water distribution system. However, the owner/operator of the water system shall take all necessary steps to reduce the water loss to a minimum. City of Mount Vernon has developed a plan and implemented a major rehabilitation to its distribution system to change aging pipes with new PVC pipes. Replacement of these old pipes with new water lines will help the City to greatly reduce their water losses. In addition to these proposed improvements, the following items will be incorporated into their water conservation program to minimize water loss:

1. Quick response by Maintenance Department and staff to reported problems.
2. A monthly review of water produced at the plant versus water sold to customers should be performed to control excessive losses.
3. Line inspection in the area of concern following any unusual increase in water usage or any discrepancy between water produced and water billed.

L. Program For Leak Detection, Repair, And Water Loss Control

An effective leak detection and repair program coupled with an annual water audit provides an effective means of locating unaccounted water as well as leaks in mains and service lines. The City checks monthly meter readings for each connection against the previous 2 or 3 months to determine if there is a significant change in water use or if there is an indication of an improperly operating meter. The meters are then promptly tested and repaired or replaced as necessary. Water lines subject to frequent leaks shall be scheduled for replacement. The City will develop a leak detection program consisting of the following observations and activities:

1. Maintain records of leaks reported by citizens.
2. Leak detection by Meter Readers.
3. Continual checking and servicing of production, pumping and storage facilities.
4. Replacement of old and inaccurate meters.
5. Repair reported leaks in a timely manner.
6. Improve accuracy of accounting for water used during system flushing and hydrant testing.

M. Public Eduation

The primary elements of the City's public education program are:

- Utility bill inserts regarding the water conservation issues
- Presentations and delivery of educational materials to schools regarding water conservation and water quality issues
- Providing water conservation literature to new utility customers at the time they apply for service, to utility customers reporting high water use, and at the utility business office on a continuing basis;

- Providing training and publicity of the use of native plants and grasses to reduce lawn water demands; and
- Providing consumer tips on water conservation in a newsletter to be posted at all water offices, City Hall, and to be distributed at civic events.
- Providing educational and training materials from Texas Commission on Environmental Quality (TCEQ), the Environmental Protection Agency (EPA), and the Texas Water Development Board (TWDB).
- Brochures relating to inside and outside household use, car washing, lawn watering, time of day, correlated to weather predictions will be available.

N. Water Conservation Rate Structure

The City of Mount Vernon instituted a water conservation-oriented rate structure that is included in this Plan as Appendix D. All water customers are subjected to a uniform per 1000-gallon rate, so that all customer classes (single family residences, multi-family residences, commercial and industrial) are equally encouraged to conserve water. However, the rate structure minimum charge varies by customer classification.

O. Implementation And Enforcement

The City Conservation Coordinator of Mount Vernon, as described in Section 2.H, or their duly appointed representative will act as the administrator of the Water Conservation Plan. The Conservation Coordinator will oversee the execution and implementation of all elements of the plan. They will also be responsible to oversee the keeping of adequate records for program verification.

To implement the Water Conservation Plan, the City implemented the following documents during the initial water conservation plan (1998) development:

1. A Resolution by the City stating its initial water conservation goal and adoption of this Water Conservation Plan.
2. An Ordinance by the City to implement the legal documents necessary to enforce this Water Conservation Plan.
3. Updating the Water Conservation Plan and Drought Contingency Plan every five years and reporting to the regulatory agencies on an annual basis.

In addition, the City of Mount Vernon has adopted the revisions noted in this report through the City Council on _____, 2024. A copy of these documents is provided as Appendix E.

Enforcement will be provided by:

1. Refusing to provide taps for customers who do not meet requirements for Water Conservation fixtures as established by the adopted 2018 Plumbing Code.
2. Nonpayment of water bills will initiate prompt discontinuation of service and service disconnection.
3. Analysis of water rates and adjusting rates to eliminate Conservation Plan abuse.

P. Additional Water Conservation Strategies

1. Plumbing Code

The City of Mount Vernon's Plumbing Code was amended on May 8, 2023, to the 2018 Plumbing Code. A copy of the ordinance regarding the plumbing code is provided as Appendix F.

Plumbing code ordinances discuss the various TCEQ guidelines for water conservation regarding hot water pipes, water closets, urinals, lavatory facilities, shower heads, and faucets. Additionally, the Plumbing Code will require installation of steel shield plates for materials not cast-iron or galvanized steel pipe that is installed through holes or notches in studs, joists, rafters, or similar members less than 1 ¼ inch from the nearest edge. Plumbing code will require that residential dishwashers conform to NSF 184.

2. Water Conservation Plumbing Retrofits

Customer and/or owners of buildings that do not have water conserving plumbing devices will be encouraged to retrofit their old fixtures. The City of Mount Vernon will encourage customers to utilize low demand fixtures and appliances through proposed educational sources described in this Plan.

The City's plumbing code ordinance explains the various water conserving fixtures that are available. The educational and advertising program will help educate the end user of the advantages of installing water saving devices as well as the availability of these items.

3. Water Conserving Landscaping

The public education program will include suggestions on landscaping and irrigation procedures that will result in reduced water consumption and reduced water bills. These practices will be implemented as much as possible on public grounds in order to set an example for the general public. Water conservation guidelines also include shutting down automatic sprinklers during periods of rainfall or periods when minimal evaporation is expected. Nurseries and other businesses that sell outdoor plants, grasses, and irrigation equipment will be encouraged to make products that conserve water available to the public. New building owners shall be provided with information pertaining to low water use landscaping.

4. RECYCLING AND REUSE

Area industrial customers will be contacted to determine if reuse and recycling is feasible. Wastewater reuse, at this time, is not possible with existing infrastructure. However, industrial users will be encouraged to develop and implement any water recycling and reuse technologies.

Q. Contracts With Other Political Subdivisions/ Water Corporations

The City of Mount Vernon has existing contracts with Water Supply Corporations pertaining to their water rights. Any political subdivision and/or wholesale customer contracting with the City of Mount Vernon shall follow the following guidelines:

1. Lines and equipment operated by the subdivisions/corporations shall be installed and operated per City's Plumbing and Sanitation Code.
2. To furnish and install necessary equipment and devices for measuring properly the quantity of water delivered.
3. Adopt the provisions of the City's Water Conservation and Drought Contingency Plan; or
4. Develop and adopt a plan that is approved by TCEQ and/or TWDB

The City of Mount Vernon has emergency interconnections with other water corporations. These interconnections are used only during emergency situations. Therefore, the water conservation plans for the other entities are not provided.

R. Coordination With Regional Water Planning Group

The City of Mount Vernon is located within the planning area of North-East Texas Regional Water Planning Group (Region D). The City will file an adopted copy of the Plan and/or its subsequent revisions, as accepted by the TCEQ, TWDB and the Regional Water Planning Group. Documentation showing the plan submission to the TCEQ, TWDB and the regional planning group is provided as Appendix G. The City recognizes that water conservation and drought contingency planning are an important form of comprehensive long-term water resources planning and management.

S. Reporting

The City administrator will be responsible for preparing the annual report on the utility profile on the Texas Water Development Board website. The City through adoption of this Plan, commits to report to the Executive Director of the Texas Water Development Board annually, within one year after closing on the financial assistance and annually thereafter. The content and format for the annual reporting will follow the Annual Water Survey, Annual Water Audit, and the Water Conservation Program Annual Report form. The reports will include the following elements:

1. Water diverted, used, and sold annually
2. Annual water loss
3. Service connections and population served
4. Progress made in the implementation of the conservation program
5. Response to the conservation program by the public
6. Quantitative effectiveness of the conservation program
7. List of public information released during the previous year.

3. DROUGHT CONTINGENCY PLAN

Drought or a number of other uncontrollable circumstances can disrupt the normal availability of the City's water supply.

This chapter summarizes the City's drought contingency plan. Drought contingency planning is not the same as conservation planning. While water conservation involves implementing permanent water use efficiency or reuse practices, the drought contingency plan will establish temporary methods or techniques designed to be used only as long as an emergency exists.

The City's Drought Contingency Plan will include the following nine (9) elements:

1. Declaration of Policy, Purpose, and Intent
2. Coordination with Regional Water Planning Groups
3. Trigger conditions signaling the start of an emergency period
4. Drought contingency measures
5. Specific Targets for Water Use Reduction
6. Education and information
7. Initiation procedures
8. Termination notification actions
9. Means of implementation

A. Declaration Of Policy, Purpose, And Intent

In order to conserve the available water supply and/or 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 emergency conditions, the City of Mount Vernon adopts the following Drought Contingency Plan.

B. Coordination With Regional Water Planning Groups

The City of Mount Vernon is located within the planning area of North-East Texas Regional Water Planning Group (Region D). The City will file an adopted copy of the Plan and/or its subsequent revisions, as accepted by the TCEQ, with the Regional Water Planning Group. See Appendix G for documentation of coordination.

C. Trigger Conditions

The Texas Water Development Board suggests five (5) levels or conditions for determining degree of urgency for initiation of Drought Contingency Plan given the following conditions.

1. Mild Drought Conditions:

    a. Average daily water consumption reaches 80% of production capacity (1.6 MGD).
    b. Consumption (80%) has existed for a period of three days.

c. Weather conditions are to be considered in drought classification determination. Predicted long, cold or dry periods are to be considered in impact analysis.

2. Moderate Drought Conditions:

a. Average daily water consumption reaches 85% of rated production capacity (1.7 MGD) for three-day period.
b. Weather conditions indicate mild drought will exist for five days or more.
c. One Ground Storage Tank or one Clear Well is taken out of service during mild drought period.
d. Storage capacity (water level) is not being maintained during period of 85% rated production period.
e. Existence of any one listed condition for duration of 36 hours.

3. Severe Drought Conditions:

a. Average daily water consumption reaches 90% of production capacity (1.8 MGD).
b. Average daily water consumption will not enable storage levels to be maintained and have difficulty recovering overnight.
c. System demand meets 90% available high service pump capacity.
d. Any two conditions listed in moderate drought classification occurs at the same time for a 24-hour period.

4. Critical Drought Conditions:

a. Average daily water consumption reaches 95% of production capacity (1.9 MGD).
b. Average daily water consumption will not enable storage levels to be maintained and do not fully recover ever during low demand periods.
c. System demand meets or exceeds available high service pump capacity.
d. Any two conditions listed in severe drought classification occur at the same time during a 24-hour period.
e. Water system is contaminated either accidentally or intentionally. Emergency condition is reached immediately upon detection.
f. Water system fails - from acts of God (tornados, hurricanes) or man. Emergency condition is reached immediately upon detection.

5. Emergency Drought Conditions:

a. Water system is contaminated either accidentally or intentionally. Emergency condition is reach immediately upon detection.
b. Water system fails -- from acts of God (tornados, hurricanes) or man. Emergency condition is reached immediately upon detection.
c. System outage occurs due to the failure or damage of major water system components.

D. Drought Contingency Measures

The Water Conservation and Drought Contingency ordinance adopted and included as part of this Plan enables the City Manager to initiate action that will effectively implement the Plan. The following steps are recommended:

1. Mild Drought Conditions - Step I

Step I measures related to mild drought conditions and will initiate the following listed actions. (Listed actions are volunteered by user):

a. Develop Information Center and designate information person. Inform the public through news media that a trigger condition has been reached, and that they should look for ways to voluntarily reduce water use.
b. Advise public of condition and publicize availability of information from Center.
c. Encourage voluntary reduction of water use.
d. Reduce average daily consumption by 5% (0.018 MGD)
e. Implementation of system oversight and make adjustments as required to meet changing conditions.
f. Contact wholesale water customers to discuss water supply and/or demand conditions and request that wholesale water customers initiate voluntary measures to reduce water use (for example, implement Step I of the customer's drought contingency plan).

2. Moderate Drought Conditions - Step II

Step II curtailment is to be initiated by the City Manager or his/her designee, identifying moderate drought conditions. Listed actions are compulsory on users and are intended to prohibit water waste. ("Water Waste" is defined as washing house windows, sidings, eaves, and roof with hose, without the use of a bucket; washing driveways, streets, curbs, and gutters, washing vehicles without cutoff valve and bucket, and unattended sprinkling of landscape shrubs and grass; draining and filling swimming pools and flushing water system.)

a. Outdoor residential use of water will be permitted on alternate days. Even number house on even days of the month and odd number house on odd number days. Outdoor residential uses consist of washing vehicles, boats, trailers, landscape sprinkler systems and irrigation, recreational use of sprinklers, outside showers (in parks) and waterslides.
b. The City Manager will monitor system function and establish hours for outside water use, depending on System performance.
c. Information Center and publicity elements shall keep public advised of curtailment status. TCEQ and other necessary regulatory agencies will be notified of implementation of Step II.
d. Reduce average daily water consumption by 7% (0.025 MGD)
e. Commercial and industrial use will be visited to ensure mandatory conservation curtailment has been initiated.
f. Weekly contact will be made with wholesale water customers to discuss water supply and/or demand conditions and the possibility of pro rata curtailment of water diversion and/or delivers. Wholesale customers will be requested to

initiate mandatory measures to reduce non-essential water use (for example, initiate Step II of the customer's drought contingency plan). Also, the City will initiate preparations for the implementation of pro rata curtailment of water diversions and/or deliveries by preparing a monthly water usage allocation baseline for each wholesale customer.

3. Severe Drought Conditions - Step III

Step III curtailment is to be initiated by the City Manager or his/her designee, identifying severe drought conditions. Listed actions are compulsory on users and are intended to prohibit water waste. ("Water Waste" is defined as washing house windows, sidings, eaves, and roof with hose, without the use of a bucket; washing driveways, streets, curbs and gutters, washing vehicles without cutoff valve and bucket, and unattended sprinkling of landscape shrubs and grass; draining and filling swimming pools and flushing water system.)

a. Outdoor residential use of water will be limited to and permitted on alternate days. Even number house on even days of the month and odd number house on odd number days. Outdoor residential uses consist of washing vehicles, boats, trailers, landscape sprinkler systems and irrigation, recreational use of sprinklers, outside showers (in parks) and waterslides.
b. The City Manager will monitor system function and establish hours for outside water use, depending upon System performance. All non-essential outside watering will be curtailed to the limited hours and days.
c. The City will consider discontinuing any unnecessary uses of water such as flushing, irrigation of public landscapes, street washing, fire hydrant flushing, filling pools, athletic fields and courses and dust control sprinkling.
d. Information Center and publicity elements shall keep public advised of curtailment status.
e. Reduce average daily water consumption by 10% (0.363 MGD)
f. Commercial and industrial use will be visited to ensure mandatory conservation steps have been initiated.
g. Weekly contact will be made with wholesale water customers to discuss water supply and/or demand conditions and the possibility of pro rata curtailment of water diversion and/or delivers. Wholesale customers will be requested to initiate mandatory measures to reduce non-essential water use (for example, initiate Step III of the customer's drought contingency plan). Also, the City will initiate preparations for the implementation of pro rata curtailment of water diversions and/or deliveries by preparing a monthly water usage allocation baseline for each wholesale customer.

4. Critical Drought Conditions - Step IV

Step IV curtailment shall be initiated upon existence of critical conditions as determined by the City Manager. The City Manager will ban ALL use of water for:

a. Vehicle washing, window washing, outside watering (lawn, shrubs, faucet dripping, garden, etc.)
b. Public water uses which are not essential for health, safety, and sanitary purposes. These uses include:

1) Street washing, fire hydrant flushing, filling pools, athletic fields and courses, and dust control sprinkling.
2) Any flushing, street cleaning, irrigation of publicly managed properties and lands.

c. Commercial uses and industrial uses not listed will be controlled to the extent dictated by the City Manager.

d. Contact wholesale water customers to discuss water supply and/or demand conditions and will request that wholesale water customers initiate additional mandatory measures to reduce non-essential water use. Pro rata curtailment of water diversions and/or deliveries for each wholesale customer will be initiated. Discussions and suggestions will be made with each wholesale customer to alleviate problems.

e. Reduce average daily water consumption by 15% (0.544 MGD)

f. Initiate development and implementation of alternative engineering to reduce water usage or acquire and develop additional water sources.

g. All uses of the public water supply will be banned except in cases of emergency. In these cases, water use will be limited, and water should be boiled prior to use as the purity may be questionable.

Businesses requiring water as a basic function of the business, such as nurseries, commercial car wash, laundromats, high pressure water cleaning, etc., will obtain written permission from the City Manager for intended water use.

The System Priority for water service shall be made on the following basis:

1. Hospital	3. Industrial	5. Residential
2. Schools	4. Commercial	6. Recreational

5. Emergency response stage – Step V

a. In the event that the source water is contaminated, notices such as:

"Drink water after boiling", "Not suitable for human consumption", or "Not suitable for human contact" will be issued depending on the level of contamination.

b. During periods of system outage, steps noted in critical drought contingency plan as noted in Section III.E.4 will be followed. Bypass pumping or alternate treatment will be utilized depending on the outage conditions.

6. Pro Rata Water Allocation

In the event that the triggering criteria specified in Section D of the Drought Contingency Plan for Step 5 – Emergency Drought Classification have been met, the City Manager is hereby authorized to initiate allocation of water supplies on a pro rata basis in accordance with Texas Water Code Section 11.039. Each wholesale contract entered into or renewed after adoption of the Plan, including contract extensions, shall include provisions for pro rata water allocation during periods of water shortage and that the water will be distributed in accordance with the Texas Water Code, Section 11.039.

7. Enforcement

During any period when pro rata allocation of available water supplies is in effect, wholesale customers shall pay the following surcharges on excess water diversions and/or deliveries:

1. 1.25 times the normal water charge per acre-foot for water diversions and/or deliveries in excess of the monthly allocation up through 5 percent above the monthly allocation.

2. 1.5 times the normal water charge per acre-foot for water diversions and/or deliveries in excess of the monthly allocation from 5 percent through 10 percent above the monthly allocation.

3. 1.75 times the normal water charge per acre-foot for water diversions and/or deliveries in excess of the monthly allocation from 10 percent through 15 percent above the monthly allocation.

3. 2.0 times the normal water charge per acre-foot for water diversions and/or deliveries more than 15 percent above the monthly allocation.

The above surcharges shall be cumulative.

The following actions will be taken by the City when trigger conditions are reached and drought contingency measures may be necessary

8. Variances

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

1. Compliance with this Plan cannot be technically accomplished during the duration of the water supply shortage or other condition for which the Plan is in effect.

2. Alternative methods can be implemented which will achieve the same level of reduction in water use.

Persons requesting an exemption from the provisions of this Plan shall file a petition for variance with the City Manager within 5 days after the pro rata allocation has been invoked. All petitions for variance shall be reviewed by the City of Mount Vernon and shall include the following:

1. Name and address of the petitioner(s).

2. Detailed statement with supporting data and information as to how the pro rata allocation of water under the policies and procedures established in the Plan adversely affects the petitioner or what damage or harm will occur to the petitioner or others if petitioner complies with this Ordinance.

3. Description of the relief requested.

4. Period of time for which the variance is sought.

5. Alternative measures the petitioner is taking or proposes to take to meet the intent of this Plan and the compliance date.

6. Other pertinent information.

Variances granted by the City of Mount Vernon shall be subject to the following conditions, unless waived or modified by the City of Mount Vernon.

1. Variances granted shall include a timetable for compliance.

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

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

E. Specific Targets For Water Use Reductions

1. Average Conditions

Average water usage reduction goal will be achieved through implementation of the plumbing code ordinance (Attachment F), effective campaign for water use reductions.

Average water use reductions coupled with the City's proposed water system improvements program will enable the City to meet water demands during periods of water shortage. The water system improvements project intends to replace some of the aging pipes that have exceeded their design life. Replacement of aging pipes would reduce unnecessary system losses and thus improve the efficiency of the water system. The other objectives include upgrading the City's raw water intake capacity and to upgrade the City's Water Treatment Plant Capacity to meet the future demands.

2. Mild Drought Conditions

The objective for water use reduction is a 5 percent reduction of the average daily water consumption (0.018 MGD) during mild drought conditions. Step 1 actions listed under drought contingency measures would be followed to inform wholesale water users.

3. Moderate Drought Conditions

The objective for water use reduction is a 7 percent reduction of the average daily water consumption (0.025 MGD) during moderate drought conditions. Step 2 actions listed under moderate drought contingency measures would be followed to guide the wholesale water users to achieve the targeted water used reduction.

4. Severe Drought Conditions

The objective for water use reduction is a 10 percent reduction of the average daily water consumption (0.36 MGD) during the severe drought conditions. The City Manager can set a goal for water use reduction after proper appraisal of the situation and Step 3 actions listed under severe drought contigency measures would be followed and the wholesale water users would be instructed accordingly to manage the situation.

5. Critical Drought Conditions

The objective for water use reduction is a 15 percent reduction of the average daily water consumption (0.54 MGD) during the critical drought conditions. The City Manager can set a goal for water use reduction after proper appraisal of the situation and Step 4 actions listed under critical drought contigency measures would be followed and the whoesale water users would be instructed accordingly to manage the situation.

6. Emergency Drought Conditions

The objective for water use reduction is a 20 percent or more reduction of the average daily water consumption (0.72 MGD) during the emergency drought conditions. The City Manager can set a goal for water use reduction after proper appraisal of the situation and Step 5 actions listed under emergency drought contigency measures would be followed and the whoesale water users would be instructed accordingly to manage the situation.

F. Education And Information

The purposes and effect of the emergency water demand management plant will be communicated to the public as a component of the Education and Information section of the Water Conservation Plan in Section 2 of this report. When trigger conditions and potential drought contingency measures appear to be approaching, the public will be notified through available news media and additional information on water conservation methods will be distributed.

In the event that a trigger condition is reached, the public will be kept fully informed of the status of the drought condition through all available news media and postings.

G. Initiation Procedures

When a trigger condition has been reached and drought contingency measures may be necessary, the Mayor of Mount Vernon or his/her duly appointed representative will order the initiation of public notification process. The public notification process will include the following items:

1. A *Notice of Drought Condition* will be posted at the Mount Vernon City Hall, the Post Office, major supermarkets, and shopping centers.
2. The *Notice* will be circulated to local newspapers and radio stations.
3. When Stage II or higher trigger is reached, the city will also notify the TCEQ and any other regulatory agency of the upgrade to a mandatory water saving trigger level. All contingency measures shall be in effect and followed for each stage.

H. Termination Notification

Termination of the drought contingency measures will take place when trigger conditions that initiated the contingency measures have subsided, and the drought contingency measures are no longer necessary. The public will be informed of the termination in the same manner that they were informed of the initiation of the measures through order of the Mayor or duly appointed representative.

I. Means Of Implementation

The Mayor or other representative will be authorized by the City Council to order the initiation of drought contingency measures when a drought trigger condition occurs.

In addition, the City has developed the following documents as a means to implement the emergency water demand management plan:

1. A resolution by the City stating the adoption of this emergency water demand management plan.
2. An ordinance by the City to implement the legal documents necessary to enforce this emergency water demand management plan.

J. Conformity With Texas Water Code, Section 11.039

The *Plan* and/or its subsequent revisions authorize the City's designated official to initiate the allocation of water supplies on a pro rata basis in accordance with Texas Water Code, Section 11.039. Texas Water Code, Section 11.039 sets the following as the amount of water supplied to the eligible customers during periods of water shortage:

1. The amount of water to which each customer may be entitled; or

2. The amount of water to which each customer may be entitled, less the amount of water the customer would have saved if the customer had operated its water system in compliance with the water conservation plan.

Authority will be granted in the event that the triggering criteria for Emergency Drought Conditions have been met.

K. Adoption And Enforcement Of The *Plan*

Section 4 of Ordinance No. 1998-11, as adopted by the Mount Vernon City Council on May 29, 1998, provides the following:

"Any person, firm or corporation violating any of the provisions of the mandatory water use restrictions which have been formally initiated by the City and contained in the City of Mount Vernon Water Conservation and Emergency Drought Management Plan as adopted hereby shall be deemed guilty of a misdemeanor and upon conviction in the Municipal Court of the City of Mount Vernon, Texas, shall be punished by a fine not to exceed the sum of Five Hundred Dollars ($500.00) for each offense and each and every day such violation shall continue shall be deemed to constitute a separate offense."

A copy of the plan adoption is provided as Appendix E.

APPENDIX A

Utility Profile Forms

(TCEQ-10218 AND TWDB-1965)

Texas Commission on Environmental Quality

Water Availability Division
MC-160, P.O. Box 13087 Austin, Texas 78711-3087
Telephone (512) 239-4600, FAX (512) 239-2214

Utility Profile and Water Conservation Plan Requirements for Municipal Water Use by Retail Public Water Suppliers

This form is provided to assist retail public water suppliers in water conservation plan assistance in completing this form or in developing your plan, please contact the Conservation staff of the Resource Protection Team in the Water Availability Division at (512) 239-4600.

Water users can find best management practices (BMPs) at the Texas Water Development Board's website http://www.twdb.texas.gov/conservation/BMPs/index.asp. The practices are broken out into sectors such as Agriculture, Commercial and Institutional, Industrial, Municipal and Wholesale. BMPs are voluntary measures that water users use to develop the required components of Title 30, Texas Administrative Code, Chapter 288. BMPs can also be implemented in addition to the rule requirements to achieve water conservation goals.

Contact Information

Name of Water Supplier:	City of Mount Vernon
Address:	P.O. Box 597, Mount Vernon, TX 75457
Telephone Number:	(903) 588-2594 Fax: ( )
Water Right No.(s):	ADJ-1599 (3000 AC/ft) / ADJ-4816 (400 AC/ft)
Regional Water Planning Group:	D – North East Texas Regional Water Planning Group
Water Conservation Coordinator (or person responsible for implementing conservation program):	Troy Massengill Phone: (903) 588-2594
Form Completed by:	Blake Powel
Title:	Project Manager
Signature:	Date: 05/01/2024

A water conservation plan for municipal use by retail public water suppliers must include the following requirements (as detailed in 30 TAC Section 288.2). If the plan does not provide information for each requirement, you must include in the plan an explanation of why the requirement is not applicable.

Utility Profile

I. POPULATION AND CUSTOMER DATA

A. Population and Service Area Data

1. Attach a copy of your service-area map and, if applicable, a copy of your Certificate of Convenience and Necessity (CCN).

2. Service area size (in square miles): 4

   (Please attach a copy of service-area map)

3. Current population of service area: 2,662

4. Current population served for:

   a. Water 2,662

   b. Wastewater 2,662

5. Population served for previous five years:

Year	*Population*
2023	2,661
2022	2,661
2021	2,661
2020	2,661
2019	2,661

6. Projected population for service area in the following decades:

Year	*Population*
2030	3,006
2040	3,084
2050	3,161
2060	3,218
2070	3,263

7. List source or method for the calculation of current and projected population size.

   TWDB

B. Customer Data

Senate Bill 181 requires that uniform consistent methodologies for calculating water use and conservation be developed and available to retail water providers and certain other water use sectors as a guide for preparation of water use reports, water conservation plans, and reports on water conservation efforts. A water system must provide the most detailed level of customer and water use data available to it, however, any new billing system purchased must be capable of reporting data for each of the sectors listed below. More guidance can be found at: http://www.twdb.texas.gov/conservation/doc/SB181Guidance.pdf

1. Quantified 5-year and 10-year goals for water savings:

	Historic 5-year Average	*Baseline*	*5-year goal for year 2029*	*10-year goal for year 2034*
Total GPCD	139	139	135	130
Residential GPCD	57	60	55	50
Water Loss GPCD	15	15	12	9
Water Loss Percentage	11.00	10.79	9.00	7.00

Notes:
Total GPCD = (Total Gallons in System ÷ Permanent Population) ÷ 365
Residential GPCD = (Gallons Used for Residential Use ÷ Residential Population) ÷ 365
Water Loss GPCD = (Total Water Loss ÷ Permanent Population) ÷ 365
Water Loss Percentage = (Total Water Loss ÷ Total Gallons in System) x 100; or (Water Loss GPCD ÷ Total GPCD) x 100

2. Current number of active connections. Check whether multi-family service is counted as ☒ Residential or ☐ Commercial?

Treated Water Users	*Metered*	*Non-Metered*	*Totals*
Residential	1,005	0	1,005
Single-Family			
Multi-Family			
Commercial	233	0	233
Industrial/Mining	0	0	0
Institutional	0	0	0
Agriculture	0	0	0
Other/Wholesale	0	0	0

3. List the number of new connections per year for most recent three years.

Year	2021	2022	2023
Treated Water Users			
Residential	19	7	4
Single-Family			
Multi-Family			
Commercial	1	0	2
Industrial/Mining	0	0	0
Institutional	0	0	0
Agriculture	0	0	0
Other/Wholesale	0	0	0

4. List of annual water use for the five highest volume customers.

Customer	*Use (1,000 gal/year)*	*Treated or Raw Water*
Waste Water Treatment Plant	219,982	Treated
Mount Vernon ISD	116,653	Treated
Franklin County Sherriff's Office	23,565	Treated
Mount Vernon Kwiki Klean laundry Mat	19,441	Treated
Loves Truck Stop	35	Treated

II. WATER USE DATA FOR SERVICE AREA

A. Water Accounting Data

1. List the amount of water use for the previous five years (in 1,000 gallons).

   Indicate whether this is ☐ diverted or ☒ treated water.

Year	2023	2022	2021	2020	2019
Month					
January	10,442	8,630	8,700	9,471	9,347
February	8,516	9,503	10,692	8,757	8,901
March	10,698	8,609	9,093	9,182	9,912
April	9,852	8,864	9,905	9,101	10,207
May	10,709	11,456	9,765	10,661	11,256
June	10,421	12,862	11,462	12,626	11,413
July	11,377	16,034	13,215	15,340	14,322
August	16,436	14,908	13,302	13,808	19,357
September	10,489	11,085	17,079	10,663	13,938
October	9,538	11,105	10,926	10,481	10,975
November	8,175	10,537	10,300	8,803	10,016
December	7,706	10,991	9,877	9,151	9,208
Totals	124,359	134,584	134,316	128,044	138,852

2. Describe how the above figures were determined (e.g, from a master meter located at the point of a diversion from the source or located at a point where raw water enters the treatment plant, or from water sales).

Master meter located at intake just prior to entering distribution system.

3. Amount of water (in 1,000 gallons) delivered/sold as recorded by the following account types for the past five years.

Year	2023	2022	2021	2020	2019
Account Types					
Residential					
Single-Family	48,225	52,170	55,318	50,525	48,860
Multi-Family	2,448	2,546	6,252	4,850	4,820
Commercial	53,899	53,782	44,476	44,635	46,002
Industrial/Mining					
Institutional					
Agriculture					
Other/Wholesale					

4. List the previous records for water loss for the past five years (the difference between water diverted or treated and water delivered or sold).

Year	*Amount (gallons)*	*Percent %*
2023	8,376,766	6.70
2022	15,227,178	11.30
2021	11,507,823	8.60
2020	13,768,794	10.70
2019	25,075,350	18.10

B. Projected Water Demands

1. If applicable, attach or cite projected water supply demands from the applicable Regional Water Planning Group for the next ten years using information such as population trends, historical water use, and economic growth in the service area over the next ten years and any additional water supply requirements from such growth.

III. WATER SUPPLY SYSTEM DATA

A. Water Supply Sources

1. List all current water supply sources and the amounts authorized (in acre feet) with each.

Water Type	*Source*	*Amount Authorized*
Surface Water	Lake Cypress/Mount Vernon Reservior	3,000/400
Groundwater		
Other		

B. Treatment and Distribution System (if providing treated water)

1. Design daily capacity of system (MGD): 2.075
2. Storage capacity (MGD):
   a. Elevated 0.3
   b. Ground 0.5
3. If surface water, do you recycle filter backwash to the head of the plant?

   ☐ Yes ☒ No If yes, approximate amount (MGD):

IV. WASTEWATER SYSTEM DATA

A. Wastewater System Data (if applicable)

1. Design capacity of wastewater treatment plant(s) (MGD):
2. Treated effluent is used for ☐ on-site irrigation, ☐ off-site irrigation, for ☐ plant wash-down, and/or for ☐ chlorination/dechlorination.

   If yes, approximate amount (in gallons per month):
3. Briefly describe the wastewater system(s) of the area serviced by the water utility. Describe how treated wastewater is disposed. Where applicable, identify treatment plant(s) with the TCEQ name and number, the operator, owner, and the receiving stream if wastewater is discharged.

B. Wastewater Data for Service Area (if applicable)

1. Percent of water service area served by wastewater system: 100%
2. Monthly volume treated for previous five years (in 1,000 gallons):

Year	2023	2022	2021	2020	2019
Month					
January	7161	5738	9099	8542	9681
February	9273	5826	8171	10317	8710
March	9162	6561	9207	12205	9259
April	9273	6804	8154	9390	10527
May	7928	7185	13654	9536	11656
June	7939	5917	7764	6921	8788
July	7557	5578	6959	7215	6673
August	6177	5870	13457	6787	6359
September	5496	5372	5926	7002	5621
October	6706	6263	5605	6004	6998
November	6133	7626	5905	4911	7421
December	6950	8621	5739	7771	6980
Totals	89755	77361	99640	96601	98673

Water Conservation Plan

In addition to the utility profile, please attach the following as required by Title 30, Texas Administrative Code, §288.2. Note: If the water conservation plan does not provide information for each requirement, an explanation must be included as to why the requirement is not applicable.

A. *Record Management System*

The water conservation plan must include a record management system which allows for the classification of water sales and uses in to the most detailed level of water use data currently available to it, including if possible, the following sectors: residential (single and multi-family), commercial.

B. *Specific, Quantified 5 & 10-Year Targets*

The water conservation plan must include specific, quantified five-year and ten-year targets for water savings to include goals for water loss programs and goals for municipal use in gallons per capita per day. Note that the goals established by a public water supplier under this subparagraph are not enforceable. These goals must be updated during the five-year review and submittal.

C. *Measuring and Accounting for Diversions*

The water conservation plan must include a statement about the water suppliers 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.

D. *Universal Metering*

The water conservation plan must include and a program for universal metering of both customer and public uses of water, for meter testing and repair, and for periodic meter replacement.

E. *Measures to Determine and Control Water Loss*

The water conservation plan must include 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.).

F. *Continuing Public Education & Information*

The water conservation plan must include a description of the program of continuing public education and information regarding water conservation by the water supplier.

G. *Non-Promotional Water Rate Structure*

The water supplier must have 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. This rate structure must be listed in the water conservation plan.

H. *Reservoir Systems Operations Plan*

The water conservation plan must include 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.

I. Enforcement Procedure and Plan Adoption

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

J. Coordination with the Regional Water Planning Group(s)

The water conservation plan must include 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.

K. Plan Review and Update

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 not later than May 1, 2009, and every five years after that date to coincide with the regional water planning group. The revised plan must also include an implementation report.

VI. ADDITIONAL REQUIREMENTS FOR LARGE SUPPLIERS

Required of suppliers serving population of 5,000 or more or a projected population of 5,000 or more within the next ten years:

A. Leak Detection and Repair

The plan must include a description of the program of leak detection, repair, and water loss accounting for the water transmission, delivery, and distribution system in order to control unaccounted for uses of water.

B. Contract Requirements

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.

VII. ADDITIONAL CONSERVATION STRATEGIES

Any combination of the following strategies shall be selected by the water supplier, in addition to the minimum requirements of 30 TAC §288.2(1), if they are necessary in order to achieve the stated water conservation goals of the plan. The commission may require by commission order that any of the following strategies be implemented by the water supplier if the commission determines that the strategies are necessary in order for the conservation plan to be achieved:

1. 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;

2. 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;

3. A program for the replacement or retrofit of water-conserving plumbing fixtures in existing structures;

4. A program for reuse and/or recycling of wastewater and/or graywater;

5. A program for pressure control and/or reduction in the distribution system and/or for customer connections;

6. A program and/or ordinance(s) for landscape water management;

7. A method for monitoring the effectiveness and efficiency of the water conservation plan; and

8. 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.

VIII. WATER CONSERVATION PLANS SUBMITTED WITH A WATER RIGHT APPLICATION FOR NEW OR ADDITIONAL STATE WATER

Water Conservation Plans submitted with a water right application for New or Additional State Water must include data and information which:

1. support the applicant's proposed use of water with consideration of the water conservation goals of the water conservation plan;

2. evaluates conservation as an alternative to the proposed appropriation; and

3. evaluates any other feasible alternative to new water development including, but not limited to, waste prevention, recycling and reuse, water transfer and marketing, regionalization, and optimum water management practices and procedures.

Additionally, it shall be the burden of proof of the applicant to demonstrate that no feasible alternative to the proposed appropriation exists and that the requested amount of appropriation is necessary and reasonable for the proposed use.

Texas Water Development Board

UTILITY PROFILE FOR RETAIL WATER SUPPLIER

CONTACT INFORMATION

Name of Utility: CITY OF MOUNT VERNON

Public Water Supply Identification Number (PWS ID): TX0800001

Certificate of Convenience and Necessity (CCN) Number: 10500

Surface Water Right ID Number:

Wastewater ID Number: 20181

Contact: First Name: Troy Last Name: Massengill

Title: WTP Superintendent

Address: P.O. Box 597 City: Mount Vernon State: TX

Zip Code: 75457 Zip+4: Email: mtvwtp@gmail.com

Telephone Number: 9035882594 Date: 4/23/2024

Is this person the designated Conservation Coordinator? (•) Yes ( ) No

Regional Water Planning Group: D

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: 4

Attached file(s):

File Name	File Description
Water Service Boundary Viewer _ Texas Water Development Board.pdf	Mt. Vernon Service Area

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	2,661	0	2,661
2022	2,662	0	2,661
2021	2,662	0	2,661
2020	2,661	0	2,661
2019	2,662	0	2,661

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	3,009	0	3,009
2040	3,084	0	3,084
2050	3,161	0	3,161
2060	3,218	0	3,218
2070	3,263	0	3,263

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

U.S. Census

Attached file(s):

File Name	File Description
Population Growth Tables.xlsx	

Texas Water Development Board

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	128,232,990	0	0	128,232,990	132
2022	138,747,423	0	0	138,747,423	143
2021	134,997,938	0	0	134,997,938	139
2020	131,645,361	0	0	131,645,361	136
2019	138,852,000	0	0	138,852,000	143
Historic Average	134,495,142	0	0	134,495,142	138

C. Water Supply System

Attached file(s):

File Name	File Description
Water system description.docx	

1. Designed daily capacity of system in gallons: 2,000,000

2. Storage Capacity

   2a. Elevated storage in gallons: 300,000

   2b. Ground storage in gallons: 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	2,942	185,873,265
2026	2,955	186,297,316
2027	2,969	186,722,335
2028	2,982	187,148,323
2029	2,996	187,575,283
2030	3,009	187,737,197
2031	3,016	187,899,250
2032	3,024	188,061,442
2033	3,031	188,223,775
2034	3,039	188,386,248

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

Projected demand in AC*FT was used from TWDB for the years 2020, 2030, 2040, 2050, 2060, and 2070. From the data provided by TWDB, the geometric projection formula was applied to find the rate increase between each decade and then applied to each successive year.

Attached file(s):

File Name	File Description
Water Demand Projection.xlsx	

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
Waste Water Treatment Plant	Industrial	219,982,000	Treated
Mt. Vernon ISD	Commercial	116,653,000	Treated
Franklin County Sherriff's Office	Commercial	23,565,000	Treated
Mt. Vernon Kwik Klean Laundry Mat	Commercial	19,441,000	Treated
Loves Truck Stop	Commercial	35,676	Treated

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

Customer	Water Use Category	Annual Water Use	Treated or Raw

F. Utility Data Comment Section

Additional comments about utility data.

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	1,021	79.77 %
Residential - Multi-Family	18	1.41 %
Industrial	0	0.00 %
Commercial	241	18.83 %
Institutional	0	0.00 %
Agricultural	0	0.00 %
Total	1,280	100.00 %

UTILITY PROFILE FOR RETAIL WATER SUPPLIER

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**
2023	4	0	0	2	0	0	6
2022	7	0	0	0	0	0	7
2021	19	0	0	1	0	0	20
2020	1	0	0	0	0	0	1
2019	4	0	0	0	0	0	4

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
2023	48,225,000	2,448,792	0	53,899,000	0	0	104,572,792
2022	52,170,000	2,546,000	0	53,782,000	0	0	108,498,000
2021	55,318,000	6,252,000	0	44,476,000	0	0	106,046,000
2020	50,525,000	4,850,000	0	44,634,000	0	0	100,009,000
2019	48,861,000	4,820,000	0	46,002,000	0	0	99,683,000

C. Residential Water Use

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

Year	Total Residential GPCD
2023	52
2022	56
2021	63
2020	57
2019	55
Historic Average	57

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
January	10,442,000	8,630,000	8,700,000	9,471,000	9,347,000
February	8,516,000	9,503,000	10,692,000	8,757,000	8,901,000
March	10,698,000	8,609,000	9,093,000	9,182,000	9,912,000
April	9,852,000	8,864,000	9,905,000	9,101,000	10,207,000
May	10,709,000	11,456,000	9,765,000	10,661,000	11,256,000
June	10,421,000	12,862,000	11,462,000	12,626,000	11,413,000
July	11,377,000	16,034,000	13,215,000	15,340,000	14,322,000
August	16,436,000	14,908,000	13,302,000	13,808,000	19,357,000
September	10,489,000	11,085,000	17,079,000	10,663,000	13,938,000
October	9,538,000	11,105,000	10,926,000	10,481,000	10,975,000
November	8,175,000	10,537,000	10,300,000	8,803,000	10,016,000
December	7,706,000	10,991,000	9,877,000	9,151,000	9,208,000
Total	124,359,000	134,584,000	134,316,000	128,044,000	138,852,000

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	10,661,000	9,927,000	9,567,000	9,724,000	9,551,000
February	8,812,000	10,451,000	12,065,000	8,961,000	9,013,000
March	11,007,000	9,957,000	10,361,000	9,421,000	10,019,000
April	12,162,000	10,745,000	10,182,000	9,421,000	10,322,000
May	11,666,000	12,938,000	10,410,000	10,830,000	11,274,000
June	9,882,000	14,310,000	12,485,000	12,692,000	11,592,000
July	10,909,000	18,751,000	14,607,000	16,210,000	14,469,000
August	15,720,000	17,152,000	14,372,000	15,034,000	19,603,000
September	10,670,000	13,278,000	19,148,000	11,356,000	14,013,700
October	10,075,000	13,073,000	12,405,000	11,098,000	11,100,800
November	8,582,000	12,153,000	10,300,000	9,647,000	10,287,200
December	8,162,000	11,722,000	9,877,000	9,898,000	9,657,000
Total	128,308,000	154,457,000	145,779,000	134,292,000	140,901,700

3. Summary of seasonal and annual water use.

	Summer RETAIL (Treated + Raw)	Total RETAIL (Treated + Raw)
2023	74,745,000	252,667,000
2022	94,017,000	289,041,000
2021	79,443,000	280,095,000
2020	85,710,000	262,336,000
2019	90,756,000	279,753,700
Average in Gallons	84,934,200.00	272,778,540.00

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	8,376,766	9	6.70 %
2022	15,227,178	16	11.30 %
2021	11,507,823	12	8.60 %
2020	13,768,794	14	10.70 %
2019	25,075,350	26	18.10 %
Average	14,791,182	15	11.08 %

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	692,238	812445	1.1736
2022	791,893	1021923	1.2905
2021	767,383	863510	1.1253
2020	718,728	931630	1.2962
2019	766,448	986478	1.2871

G. Summary of Historic Water Use

Water Use Category	Historic Average	Percent of Connections	Percent of Water Use
Residential - Single Family	51,019,800	79.77 %	49.17 %
Residential - Multi-Family	4,183,358	1.41 %	4.03 %
Industrial	0	0.00 %	0.00 %
Commercial	48,558,600	18.83 %	46.80 %
Institutional	0	0.00 %	0.00 %
Agricultural	0	0.00 %	0.00 %

UTILITY PROFILE FOR RETAIL WATER SUPPLIER

H. System Data Comment Section

Section III: Wastewater System Data

A. Wastewater System Data

Attached file(s):

File Name	File Description
Wastewater system description.docx	

1. Design capacity of wastewater treatment plant(s) in gallons per day: 1,300,000

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

Water Use Category	Metered	Unmetered	Total Connections	Percent of Total Connections
Municipal	1,005		1,005	81.18 %
Industrial	0		0	0.00 %
Commercial	233		233	18.82 %
Institutional	0		0	0.00 %
Agricultural	0		0	0.00 %
Total	1,238		1,238	100.00 %

3. Percentage of water serviced by the wastewater system: 100.00 %

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	7,161,000	5,738,000	9,099,000	8,542,000	9,681,000
February	9,273,000	5,826,000	8,171,000	10,317,000	8,710,000
March	9,162,000	6,561,000	9,207,000	12,205,000	9,259,000
April	9,273,000	6,804,000	8,154,000	9,390,000	10,527,000
May	7,928,000	7,185,000	13,654,000	9,536,000	11,656,000
June	7,939,000	5,917,000	7,764,000	6,921,000	8,788,000
July	7,557,000	5,578,000	6,959,000	7,215,000	6,673,000
August	6,177,000	5,870,000	13,457,000	6,787,000	6,359,000
September	5,496,000	5,372,000	5,926,000	7,002,000	5,621,000
October	6,706,000	6,263,000	5,605,000	6,004,000	6,998,000
November	6,133,000	7,626,000	5,905,000	4,911,000	7,421,000
December	6,950,000	8,621,000	5,739,000	7,771,000	6,980,000
Total	89,755,000	77,361,000	99,640,000	96,601,000	98,673,000

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)	0
Agricultural	
Discharge to surface water	0
Evaporation Pond	0
Other	
Total	0

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 B

Water Conservation Plan Goals

	Historic 5 Year Average	Baseline	5-Year Goal For year 2029	10-Year Goal For year 2034
Total GPCD[1]	139	139	135	130
Residential GPCD[2]	57	60	55	50
Water Loss (GPCD)[3]	15	15	12	9
Water Loss Percentage[4]	11.00 %	10.79 %	9.00 %	7.00 %

APPENDIX C

Water Conservation Plan Annual Report

Texas Water Development Board

Water Conservation Plan Annual Report
Retail Water Supplier

CONTACT INFORMATION

Name of Utility: CITY OF MOUNT VERNON

Public Water Supply Identification Number (PWS ID): TX0800001

Certification of Convenience and Necessity (CCN) Number: 10500

Surface Water Right ID Number:

Wastewater ID Number: 20181

Check all that apply:

- [x] Retail Water Supplier
- [ ] Wholesale Water Supplier
- [ ] Wastewater Treatment Utility

Address: P. O. Box 597 City: Mt. Vernon Zip Code: 75457

Email: mtvwtp@gmail.com Telephone Number: 9035882594

Regional Water Planning Group: D

Groundwater Conservation District:

Contact: First Name: Troy Last Name: Massengill

Title: WTP Superintendent

Is this person the designated Conservation Coordinator? (•) Yes ( ) No

Regional Water Planning Group: D

Groundwater Conservation District:

Reporting Period (Calendar year):

Period Begin (mm/yyyy): 01/2023 Period End (mm/yyyy): 12/2023

Check all that apply:

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

SYSTEM DATA

1. For this reporting period, select the category(s) used to classify customer water usage:

	Retail Customer Water Usage Categories
☑	Residential - Single Family
☑	Residential - Multi-family
☐	Industrial
☑	Commercial
☐	Institutional
☐	Agricultural

Retail Customers Categories*

- Residential Single Family
- Residential Multi-Family
- Industrial
- Commercial
- Institutional
- Agricultural

**Recommended Customer Categories for classifying customer water use. For definitions, refer to Guidance and Methodology on Water Conservation and Water Use.*

2. For this reporting period, enter the number of connections for and the gallons of metered retail water used by each category. If the Customer Category does not apply, enter zero or leave blank. These numbers should be the same as those reported on the Water Use Survey.

Retail Customer Category	Number of Connections	Gallons Metered
Residential - Single Family	1,021	48,225,000
Residential - Multi-family	18	2,448,792
Industrial	0	0
Commercial	241	53,899,000
Institutional	0	0
Agricultural	0	0
Total Retail Water Metered[1]	1,280	104,572,792

[1]Residential + Industrial + Commercial + Institutional + Agricultural = Total Retail Water Metered

Texas Water Development Board

Water Use Accounting

	Total Gallons During the Reporting Period
1. Corrected Input Volume: The volume of treated water input to the distribution system from own production facilities. Same as line 13b of the Water Loss Audit for reporting periods >= 2015. Same as line 14 of the Water Loss Audit for reporting periods <= 2014.	**128,232,990**
2. Corrected Treated Purchased Water Volume: The amount of treated purchased wholesale water transfered into the utility's distribution system from other water suppliers system. Same as line 14b of the Water Loss Audit for reporting periods >= 2015. Same as line 15 of the Water Loss Audit for reporting periods <= 2014.	**0**
3. Corrected Treated Wholesale Water Sales Volume: The amount of treated wholesale water transfered out of the utility's distribution system, although it may be in the system for a brief time for conveyance reasons. Same as line 15b of the Water Loss Audit for reporting periods >= 2015. Same as line 16 of the Water Loss Audit for reporting periods <= 2014.	**0**
4. Total System Input Volume: This is the sum of the corrected input volume plus corrected treated purchased water volume minus corrected treated wholesale water sales volume. Same as line 16 of the Water Loss Audit for reporting periods >= 2015. Same as line 17 of the Water Loss Audit for reporting periods <= 2014. Produced + Imported - Exported = Total System Input Volume	**128,232,990**
5. Billed Metered: All retail water sold and metered. Same as line 17 of the Water Loss Audit for reporting periods >= 2015. Same as line 18 of the Water Loss Audit for reporting periods <= 2014.	**104,572,792**
6. Other Authorized Consumption: Water that is authorized for other uses such as back flushing, line flushing, storage tank cleaning, fire department use, municipal government offices or municipal golf courses/parks. This water may be metered or unmetered. Same as lines 18, 19, and 20 of the Water Loss Audit for reporting periods >= 2015. Same as lines 19, 20, and 21 of the Water Loss Audit for reporting periods <= 2014.	**15,283,432**
7. Total Authorized Consumption: All water that has been authorized for use. Same as Line 21 of the Water Loss Audit for reporting periods >= 2015. Same as line 22 of the Water Loss Audit for reporting periods <= 2014. Total Billed and Metered Retail Water + Other Authorized Consumption = Total Authorized Consumption	**119,856,224**
8. Total Apparent Losses: Water that has been consumed but not properly measured or billed (losses due to customer meter inaccuracy, systematic data handling discrepancy and/or unauthorized consumption such as theft). Same as line 27 of the Water Loss Audit for reporting periods >= 2015. Same as line 28 of the Water Loss Audit for reporting periods <= 2014.	**3,757,074**

9. Total Real Loss: Physical losses from the distribution system prior to reaching the customer destination (losses due to reported breaks and leaks, physical losses from the system or mains and/or storage overflow). Same as line 30 of the Water Loss Audit for reporting periods >= 2015. Same as line 31 of the Water Loss Audit for reporting periods <= 2014.	**4,619,692**
10. Total Water Loss: Apparent + Real = Total Water Loss	**8,376,766**

Programs and Activities

1. What year did your entity adopt or revise their most recent Water Conservation Plan? 2019

2. Does The Plan incorporate Best Management Practices? (•) Yes ( ) No

3. Using the table below select the types of Best Management Practices or water conservation and reuse strategies actively administered during this reporting period and estimate the savings incurred in implementing water conservation and reuse activities and programs. Leave fields blank if unknown. **Please separate reuse volumes from gallons saved.**

Methods and techniques for determining gallons saved are unique to each utility as they conduct internal cost analyses and long-term financial planning. Texas Best Management Practice can be found at TWDB's Water Conservation Best Management Practices webpage. The Alliance for Efficiency Water Conservation Tracking Tool may offer guidance on determining and calculating savings for individual BMPs.

Best Management Practice	Check if Implemented	Estimated Gallons Saved	Estimated Gallons Reused
Conservation Analysis and Planning			
Conservation Coordinator	☐		
Cost Effective Analysis	☐		
Water Survey for Single Family and Multi-family Customers	☐		
Customer Characterization	☐		
Financial			
Wholesale Agency Assistance Programs	☐		
Water Conservation Pricing	✓	1,000,000	0
System Operations			
Metering New Connections and Retrofitting Existing Connections	✓	1,000,000	0
Utility Water Audit and Water Loss	☐		
Landscaping			
Landscape Irrigation Conservation and Incentives	☐		
Athletic Fields Conservation	☐		
Golf Course Conservation	☐		

Park Conservation			
Residential Landscape Irrigation Evaluation			
Outdoor Watering Schedule			
Education and Public Awareness			
School Education	✓	0	0
Public Information	✓	0	0
Public Outreach and Education			
Partnerships with Nonprofit Organizations			
Rebate, Retrofit, and Incentive Programs			
Conservation Programs for ICI Accounts			
Residential Clothes Washer Incentive Program			
Water Wise Landscape Design and Conversion Programs			
Showerhead, Aerator, and Toilet Flapper Retrofit			
Residential Toilet Replacement Programs			
Custom Conservation Rebates			
Plumbing Assistance for Economically Disadvantaged Customers			
Conservation Technology & Reuse			
New Construction Graywater			
Rainwater Harvesting and Condensate Reuse			
Water Reuse BMP Categories			
Reuse for On-site Irrigation			
Reuse for Plant Washdown			
Reuse for Chlorination/Dechlorination			
Reuse for Industry			
Reuse for Agriculture			
Regulatory and Enforcement			
Prohibition on Wasting Water			
Conservation Ordinance Planning and Development			
Enforcement of Irrigation Standards			
Retail			
Other			
Totals		**2,000,000**	**0**

4. For this reporting period, estimate the savings from water conservation activities and programs.

Gallons Saved/Conserved	Gallons Recycled/Reused	Total Volume of Water Saved[1]	Dollar Value of Water Saved[2]
2,000,000	0	2,000,000	

[1]Estimated Gallons Saved + Estimated Gallons Recycled/Reused = Total Volume Saved

[2]Estimated this value by taking into account water savings, the cost of treatment or purchase of water, and deferred capital cost due to conservation.

5. Comments or Explanations Regarding Data Entered in Sections Above.
Files to support or explain this may be attached below.

6. During this reporting period, did your rates or rate structure change? ○ Yes ◉ No

Select the type of rate pricing structure used. Check all that apply.

☐	Uniform Rates
☐	Flat Rates
☑	Inclining/Inverted Block Rates
☐	Declining Block Rates
☐	Seasonal Rates
☐	Water Budget Based Rates
☐	Excess Use Rates
☐	Drought Demand Rates
☐	Tailored Rates
☐	Surcharge - usage demand
☐	Surcharge - seasonal
☐	Surcharge - drought
☐	Other

7. For this reporting period, select the public awareness or educational activities used.

Name	Implemented This Year	Number Of Times This Year	Total Population Reached this Year
Brochures Distributed	✓	1	2,661
Messages Provided on Utility Bills	✓	1	2,661
Press Releases			
TV Public Service Announcements			
Radio Public Service Announcements			
Educational School Programs			
Displays, Exhibits, and Presentations	✓	1	2,661
Community Events			
Social Media campaign - Facebook			
Social Media campaign - Twitter			
Social Media campaign - Instagram			
Social Media campaign - YouTube			
Facility Tours			
Other			
Total		3	7,983

Leak Detection and Water Loss

1. During this reporting period, how many leaks were repaired in the system or at service connections? 35

2. Select the main cause(s) of water loss in your system.

	Water Loss Causes
✓	Distribution line leaks and breaks
✓	Unauthorized use and theft

☑	Master meter problems
☑	Customer meter problems
☐	Record and data problems
☐	Other

3. For this reporting period, provide the following information on your distribution lines.

Total Length of Main Lines (miles)	Total Length Repaired (feet)	Total Length Replaced (feet)
31	100	0

4. For this reporting period, provide the following information regarding your meters:

Type of Meter	Total Number	Total Tested	Total Repaired	Total Replaced
Production Meters	2	0	1	1
Meters larger than 1 1/2 inches	55	0	0	0
Meters 1 1/2 inches or smaller	1210	0	0	42

5. Does your system have automated meter reading? ○ Yes ◉ No

Program Effectiveness

1. Program Effectiveness

   In your opinion, how would you rank the overall effectiveness of your conservation programs and activities?

Customer Classification	Less Than Effective	Somewhat Effective	Highly Effective	Does Not Apply
Residential Customers	○	◉	○	○
Industrial Customers	○	○	○	○
Institutional Customers	○	○	○	○
Commercial Customers	○	◉	○	○
Agricultural Customers	○	○	○	○

2. During the reporting period, did you implement your Drought Contingency Plan? ○ Yes ◉ No

3. Select the areas for which you would like to receive more technical assistance:

	Technical Assistance Areas
☐	Best Management Practices
☐	Drought Contingency Plans
☐	Landscape Irrigation
☐	Leak Detection and Equipment
☐	Rainwater Harvesting
☐	Rate Structures
☐	Educational Resources
☐	Water Conservation Annual Reports
☐	Water Conservation Plans
☐	Water IQ: Know Your Water
☐	Water Loss Audits
☐	Recycling and Reuse

Texas Water Development Board

Water Loss, Target and Goals

Total, Residential and Water Loss Gallons Per Capita per Day (GPCD) and Water Loss Percentage

The tables below display your current GPCD totals and water loss percentage for your service area.

Total System Input in Gallons Water Produced + Wholesale Imported - Wholesale Exported	Retail Population[1]	Total GPCD (System Input / Retail Population) / 365
128,232,990	2,661	132

[1]Retail Population is the total permanent population of the service area, including single family, multi-family, and group quarter populations

Residential Use in Gallons (Single Family + Multi-family)	Residential Population[2]	Residential GPCD (Residential Use / Residential Population) / 365
50,673,792	2,661	52

[2]Residential Population is the total residential population of the service area, including only single family and multi-family populations

Total Water Loss in Gallons Apparent + Real = Total Water Loss	Retail Population	Water Loss GPCD[3]	Water Loss Percent
8,376,766	2,661	9	6.53%

[3](Total Water Loss / Residential Population) / 365 = Water Loss GPCD
(Total Water Loss / Total System Input) * 100 = Water Loss Percentage

The table below displays the specific and quantified five-year and ten-year goals listed in your current Water Conservation Plan alongside the current GPCD and water loss totals.

Achieve Date	Target for Total GPCD	Current Total GPCD	Target for Residential GPCD	Current Residential GPCD	Target for Water Loss GPCD	Current Water Loss GPCD	Target for Water Loss Percentage	Current Water Loss Percentage
Five-year Target Date 2024	149	132	76	52	34	9	22.82 %	6.53 %
Ten-year Target Date 2029	141	132	75	52	32	9	22.70 %	6.53 %

APPENDIX D

Water Rate Structure

ORDINANCE NO. 2022-09

AN ORDINANCE BY THE CITY COUNCIL OF THE CITY OF MOUNT VERNON, TEXAS, AMENDING SECTIONS 12-21 (1 & 2) AND SECTION 12-25, WHICH CHANGES THE WATER RATES.

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF MOUNT VERNON, TEXAS:

The water rates prescribed by Section 12-21 and 12-25 of the Code of Ordinances of the City of Mount Vernon, Texas, are amended and shall hereafter read as follows:

"Sec. 12-21. Monthly charges – Schedules.

The monthly service charges for supplying water by the city water system shall be as follows:

(1) Schedule (Inside City):

Residential:

Minimum charge	**$25.00**
1,000 to 8,000 gallons (per 1,000)	**$ 3.75**
9,000 to 20,000 gallons (per 1,000)	**$ 4.00**
21,000 to 40,000 gallons (per 1,000)	**$ 4.25**
41,000 gallons and over (per 1,000)	**$ 4.50**

Business/Commercial/Industrial:

Minimum charge	**$31.00**
1,000 to 8,000 gallons (per 1,000)	**$ 3.75**
9,000 to 20,000 gallons (per 1,000)	**$ 4.00**
21,000 to 40,000 gallons (per 1,000)	**$ 4.25**
41,000 gallons and over (per 1,000)	**$ 4.50**

(2) Schedule (Outside City):

Residential:

Minimum charge	**$35.00**
1,000 to 8,000 gallons (per 1,000)	**$ 4.50**
9,000 to 20,000 gallons (per 1,000)	**$ 4.75**
21,000 to 40,000 gallons (per 1,000)	**$ 5.00**
41,000 gallons and over (per 1,000)	**$ 5.25**

Business/Commercial/Industrial:

Minimum charge	**$46.06**
1,000 to 8,000 gallons (per 1,000)	**$ 4.50**
9,000 to 20,000 gallons (per 1,000)	**$ 4.75**
21,000 to 40,000 gallons (per 1,000)	**$ 5.00**
41,000 gallons and over (per 1,000)	**$ 5.25**

(3) ***Home businesses:*** **Home businesses where water service is supplied from a residential meter shall be billed at the business rate, provided the water used, in part, as a function of the business.**

(4) ***Water Supply Corporation / Texas Highway Department comfort station / bulk water:***

	Maximum Gallons Per Month	*Rate*	
Cypress Springs Sprinklers per 1,000 gals.	**1.5**	**$4.00**	**9.00**
Bulk water, per 1,000 gals, at the maintenance facility.	**1.0**	**$7.10**	**12.00**

Meter Deposit	**$150.00**
Monthly Rental	**$35.00**
Minimum Bill	**$20.00**

"Sec. 12-25. Water Rates for apartments, low rent housing units and hotel/motel.

If the spaces are not separately metered, the operator of an apartment, low rent housing units or hotel/motel shall pay the minimum monthly rate or charge for water as listed below:

METER SIZE	**MONTHLY RATE**
3/4 & 5/8"	**34.19**
1"	**39.63**
1 ½"	**77.70**
2"	**99.45**
3"	**175.59**
4"	**300.67**

Each minimum charge includes 1,000 gallons of water. Each thousand gallons of water used in excess of the first thousand gallons will be billed at $3.75 per thousand.

The *effective date*: The subject rates are to become effective in October 2022, and will be reflected in the customer's bill beginning November 1, 2022.

PASSED, ADOPTED AND APPROVED this the 12th day of September, 2022.

BRAD HYMAN – MAYOR

ATTEST:

KATHY LOVIER – CITY SECRETARY

ORDINANCE NO. 2021-07

AN ORDINANCE BY THE CITY COUNCIL OF THE CITY OF MOUNT VERNON, TEXAS, AMENDING SECTION 12-47 (b), WHICH CHANGES THE SEWER RATES.

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF MOUNT VERNON, TEXAS:

The sewer rates prescribed by Section 12-47 (b) of the Code of Ordinances of the City of Mount Vernon, Texas are amended and shall hereafter read as follows:

"Sec. 12-47. Schedule of Wastewater Charges

(b) ***Wastewater rates (Inside City):***

Residential:	
Minimum Charge	$26.00
1,000 to 8,000 gallons (per 1,000)	$ 4.00
9,000 to 20,000 gallons (per 1,000)	$ 4.05
21,000 to 40,000 gallons (per 1,000)	$ 4.10
41,000 gallons and over (per 1,000)	$ 4.15
Business/Commercial/Industrial:	
Minimum Charge	$28.00
1,000 to 8,000 gallons (per 1,000)	$ 4.00
9,000 to 20,000 gallons (per 1,000)	$ 4.05
21,000 to 40,000 gallons (per 1,000)	$ 4.10
41,000 gallons and over (per 1,000)	$ 4.15
Apartments/Low Rent Housing/Hotel/Motel:	
Minimum Charge on Meter Size	
¾ and 5/8 inch	$37.41
1 inch	45.51
1 ½ inch	86.03
2 inch	117.45
3 inch	215.69
4 inch	375.75
Volumetric Rate per 1,000 gallons	
1,000 to 8,000 gallons (per 1,000)	$ 4.00
9,000 to 20,000 gallons (per 1,000)	$ 4.05
21,000 to 40,000 gallons (per 1,000)	$ 4.10
41,000 gallons and over (per 1,000)	$ 4.15

Wastewater rates (Outside City):

Residential:	
Minimum Charge	$38.00
1,000 to 8,000 gallons (per 1,000)	$ 5.00
9,000 to 20,000 gallons (per 1,000)	$ 5.05
21,000 to 40,000 gallons (per 1,000)	$ 5.10
41,000 gallons and over (per 1,000)	$ 5.15
Business/Commercial/Industrial:	
Minimum Charge	$40.00
1,000 to 8,000 gallons (per 1,000)	$ 5.00
9,000 to 20,000 gallons (per 1,000)	$ 5.05
21,000 to 40,000 gallons (per 1,000)	$ 5.10
41,000 gallons and over (per 1,000)	$ 5.15

Effective date: The subject rates are to become effective in September 2021, and will be reflected in the customer's bill beginning October 1, 2021.

PASSED, ADOPTED AND APPROVED this the 16th day of August, 2021.

BRAD HYMAN – MAYOR

ATTEST:

KATHY LOVIER – CITY SECRETARY

APPENDIX E

Water Conservation and Drought Contingency Plan Ordinance

APPENDIX F

Ordinance Regarding Plumbing Code

ORDINANCE NO. 2023-13

AN ORDINANCE OF THE CITY OF MOUNT VERNON AMENDING CHAPTER 5, ARTICLE VI PLUMBING SEC. 5-80, AND ADOPTING THE INTERNATIONAL PLUMBING CODE, 2018.

An ordinance of the City of Mount Vernon adopting the 2018 edition of the International Plumbing Code, regulating and governing the design, construction, quality of materials, erection, installation, alteration, repair, location, relocation, replacement, addition to, use or maintenance of plumbing systems in the City of Mount Vernon; providing for the issuance of permits and collection of fees.

The Council of the City of Mount Vernon does ordain as follows:

Section 1. That a certain document, a copy of which is on file in the office of the City Secretary of the city of Mount Vernon, being marked and designated as the International Plumbing Code, 2018 edition, including all Appendix Chapters, as published by the International Code Council, be and is hereby adopted as the Plumbing Code of the City of Mount Vernon, in the State of Texas for regulating and governing providing the design, construction, quality of materials, erection, installation, alteration, repair, location, relocation, replacement, addition to, use or maintenance of plumbing systems are herein provided; providing for the issuance of permits and collection of fees therefore; and each and all of the regulations, provisions, penalties, conditions and terms of said Plumbing Code on file in the office of the City of Mount Vernon are hereby referred to, adopted, and made a part hereof, as if fully set out in this ordinance, with the additions, insertions, deletions and changes, if any, prescribed in this ordinance.

Section 2. That if any section, subsection, sentence, clause or phrase of this ordinance is, for any reason, held to be unconstitutional, such decision shall not affect the validity of the remaining portions of this ordinance. The Council hereby declares that it would have passed this ordinance, and each section, subsection, clause or phrase thereof, irrespective of the fact that any one or more sections, subsections, sentences, clauses and phrases be declared unconstitutional.

Section 3. That nothing in this ordinance or in the Plumbing Code hereby adopted shall be construed to affect any suit or proceeding impending in any court, or any rights acquired, or liability incurred, or any cause or causes of action acquired or existing, under any act or ordinance hereby repealed as cited in this ordinance; nor shall any just or legal right or remedy of any character be lost, impaired or affected by this ordinance.

Section 4. That this ordinance and the rules, regulations, provisions, requirements, orders and matters established and adopted hereby shall take effect and be in full force and effect May 8, 2023 from and after the date of its final passage and adoption.

PASSED, APPROVED AND ADOPTED this the 8th day of May, 2023.

Brad Hyman—Mayor

ATTEST:

Kathy Lovier—City Secretary

APPENDIX G

Coordination with Regional Water Planning Groups

And

Other Governmental Agencies

140 East Tyler Street, Suite 600
Longview, TX 75601
903.236.7700

May 1, 2024

Region D Water Planning Group
Riverbend Water Resources District
228 Texas Avenue, Suite A
New Boston, TX 75570

via email

Re: Water Conservation Plan (2024) Update
KSA Project No. MTV.078

To Whom It May Concern:

Enclosed please find a copy of the 2024 Water Conservation and Drought Contingency Plan DRAFT for the City of Mount Vernon. I am submitting a copy of this plan to the Regional Water Planning Group in accordance with the TWDB and TCEQ rules. Notification of plan adoption ordinance will be sent at a later date.

The plan will also be sent to TCEQ and uploaded to the TWDB portal, as required.

If you have any questions or need further information, please do not hesitate to contact me.

Respectfully,

KSA Engineers, Inc.
TBPE Firm Registration No. F-1356

Blake Powell, P.E.
Project Manager

140 East Tyler Street, Suite 600
Longview, TX 75601
903.236.7700

May 1, 2024

Texas Commission for Environmental Quality
Attn: Resource Protection Team (MC-160)
P.O. Box 13087
Austin, TX 78711-3087

via email

Re: ***City of Mount Vernon***
5-Year Update Water Conservation Plan and Drought Contingency Plan (2024) Update
PWS ID No. TX0800001
KSA Project No. MTV.078

To whom it may concern,

Enclosed, please find a copy of the 2024 Water Conservation and Drought Contingency Plan as required by the TCEQ and TWDB for the City of Mount Vernon, Texas. Included in this package is the DRAFT Conservation Plan, Drought Plan, and supporting documentation.

Once the Ordinances has been adopted by the City of Mount Vernon, I will forward that document to you for inclusion in the Plan.

If you have any comments regarding the enclosed Conservation Plan for the City of Mount Vernon, Please contact me at 903-236-7700 ext. 1103.

Respectfully,

KSA Engineers, Inc.
TBPE Firm Registration No. F-1356

Blake Powell, P.E.
Project Manager

140 East Tyler Street, Suite 600
Longview, TX 75601
903.236.7700

May 1, 2024

Texas Water Development Board
Attn: Water Conservation Plan Team
PO Box 13231
Austin, TX 78711-3231

via email

Re: ***City of Mount Vernon***
5-Year Update Water Conservation Plan and Drought Contingency Plan (2024) Update
PWS ID No.
KSA Project No. MTV.078

To Whom It May Concern,

Enclosed, please find a copy of the 2024 Water Conservation and Drought Contingency Plan as required by the TCEQ and TWDB for the City of Mount Vernon, Texas. Included in this package is the DRAFT Conservation Plan, Drought Plan, and supporting documentation.

Once the Ordinances has been adopted by the City of Mount Vernon, I will forward that document to you for inclusion in the Plan.

If you have any comments regarding the enclosed Conservation Plan for the City of Mount Vernon, Please contact me at 903-236-7700 ext. 1103.

Respectfully,

KSA Engineers, Inc.
TBPE Firm Registration No. F-1356

Blake Powell, P.E.
Project Manager

APPENDIX H

CCN Map

N

0 0.05 0.1 Miles

LEGEND

CITY LIMITS

CCN BOUNDARY

EXHIBIT

SEAL:

TBPE FIRM REGISTRATION NO.: F-1356

SITE# NO:

KSA

140 E. Tyler Street, Suite 600
Longview, Texas 75601
T. 903-236-7700 F. 888-224-9418
www.ksaeng.com

DRAWN BY: --

DESIGNED BY: --

LATEST REVISION --

PROJECT NO.: -

-

PROJECT NAME: CITY OF MOUNT VERNON
MOUNT VERNON, TEXAS
WATER CONSERVATION PLAN

SHEET NAME: CCN MAP

MARK	REVISION	DATE

APPENDIX I

TCEQ Water Conservation Plan Rules (30 TAC 288.2)

Texas Administrative Code

TITLE 30	ENVIRONMENTAL QUALITY
PART 1	TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
CHAPTER 288	WATER CONSERVATION PLANS, DROUGHT CONTINGENCY PLANS, GUIDELINES AND REQUIREMENTS
SUBCHAPTER A	WATER CONSERVATION PLANS
RULE §288.2	Water Conservation Plans for Municipal Uses by Public Water Suppliers

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

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

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

(B) 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.

Source Note: The provisions of this §288.2 adopted to be effective May 3, 1993, 18 TexReg 2558; amended to be effective February 21, 1999, 24 TexReg 949; amended to be effective April 27, 2000, 25 TexReg 3544; amended to be effective October 7, 2004, 29 TexReg 9384; amended to be effective December 6, 2012, 37 TexReg 9515

APPENDIX J

TCEQ Drought Contingency Plan Rules (30 TAC 288.20)

Texas Administrative Code

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

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

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

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

(B) Provisions shall be made for a program of continuing public education and information regarding the drought contingency plan.

(C) The drought contingency plan must document coordination with the regional water planning groups for the service area of the retail public water supplier to ensure consistency with the appropriate approved regional water plans.

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

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

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

(ii) water production or distribution system limitations;

(iii) supply source contamination; or

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

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

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

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

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

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

(I) The drought contingency plan must include procedures for granting variances to the plan.

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

(2) Privately-owned water utilities. Privately-owned water utilities shall prepare a drought contingency plan in accordance with this section and incorporate such plan into their tariff.

(3) Wholesale water customers. Any water supplier that receives all or a portion of its water supply from another water supplier shall consult with that supplier and shall include in the drought contingency plan appropriate provisions for responding to reductions in that water supply.

(b) A wholesale or retail water supplier shall notify the executive director within five business days of the implementation of any mandatory provisions of the drought contingency plan.

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

Source Note: The provisions of this §288.20 adopted to be effective February 21, 1999, 24 TexReg 949; amended to be effective April 27, 2000, 25 TexReg 3544; amended to be effective October 7, 2004, 29 TexReg 9384

APPENDIX K

Texas Water Code Water Allocation (TWC Section 11.039)

TEXAS WATER CODE

TITLE 2. WATER ADMINISTRATION

SUBTITLE B. WATER RIGHTS

CHAPTER 11. WATER RIGHTS

SUBCHAPTER A. GENERAL PROVISIONS

Section 11.039

Sec. 11.039. DISTRIBUTION OF WATER DURING SHORTAGE. (a) If a shortage of water in a water supply NOT covered by a water conservation plan prepared in compliance with Texas Natural Resource Conservation Commission or Texas Water Development Board rules results from drought, accident, or other cause, the water to be distributed shall be divided among all customers pro rata, according to the amount each may be entitled to, so that preference is given to no one and everyone suffers alike.

(b) If a shortage of water in a water supply covered by a water conservation plan prepared in compliance with Texas Natural Resource Conservation Commission or Texas Water Development Board rules results from drought, accident, or other cause, the person, association of persons, or corporation owning or controlling the water shall divide the water to be distributed among all customers pro rata, according to:

(1) the amount of water to which each customer may be entitled; or

(2) the amount of water to which each customer may be entitled, less the amount of water the customer would have saved if the customer had operated its water system in compliance with the water conservation plan.

(c) Nothing in Subsection (a) or (b) precludes the person, association of persons, or corporation owning or controlling the water from supplying water to a person who has a prior vested right to the water under the laws of this state.

Amended by Acts 1977, 65th Leg., p. 2207, ch. 870, Sec. 1, eff. Sept. 1, 1977; Acts 2001, 77th Leg., ch. 1126, Sec. 1, eff. June 15, 2001.