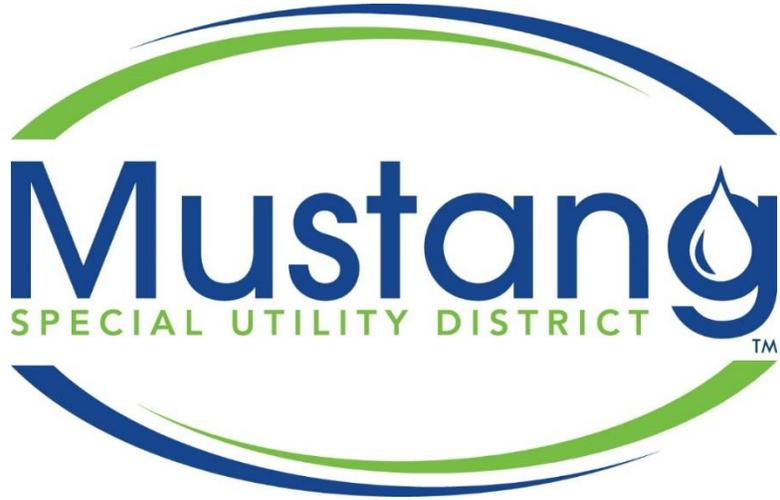


# MUSTANG SPECIAL UTILITY DISTRICT

Water Conservation Plan

Updated May 1, 2024



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## **APPENDICES**

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**Appendix B: Mustang Special Utility District's Water Utility Profile**

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**Appendix D: Resolution/Order from Mustang SUD's Board of Directors Adopting the Water Conservation Plan**

# **Water Conservation Plan for Mustang SUD May 2024**

## **SECTION 1**

### **Introduction and Objectives**

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

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

Recognizing the need for efficient use of existing water supplies, the Texas Commission on Environmental Quality (“TCEQ”) has promulgated guidelines and requirements governing the development of water conservation plans for Public Water Suppliers. Mustang SUD developed its original plans for water conservation and drought contingency in 2008, most recently amended in 2024. This update of the Water Conservation Plan (the “Plan”) has been coordinated with the suggested model water conservation plan prepared by Upper Trinity Regional Water District (“UTRWD”) for its Members and Customers, such as Mustang SUD; and is consistent with the latest TCEQ requirements outlined below.

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

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

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

TCEQ rules governing the development of water conservation plans for Public Water Suppliers, such as Mustang SUD, are contained in Title 30, Part 1, Chapter 288, Subchapter A and Rule

288.2 of the Texas Administrative Code (“TAC”). A copy of these rules is included in Appendix A. The rules define a water conservation plan as:

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

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

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

A. Basic Water Conservation Plan Requirements

TCEQ requires that water conservation plans for municipal uses by Public Water Suppliers, like Mustang SUD, include the following components:

- *Utility Profile:* In accordance with the Texas Water Use Methodology, including, but not limited to, information regarding population and customer data, water use data (including total GPCD and residential GPCD), water supply system data and wastewater system data. (Section 2)
- *Record Management System:* Allows for the classification of water sales and uses into the most detailed level of water use data currently available to it, including, if possible, the following sectors: (i) residential (single family and multi-family), (ii) commercial, (iii) institutional, (iv) industrial, (v) agricultural and (vi) wholesale). (Section 3)
- *Goals:* Specific, quantified five-year and ten-year targets for water savings to include goals for water loss programs and goals for municipal use, in total GPCD and residential GPCD. The goals established by a Public Water Supplier are not enforceable under this subparagraph. (Section 4)
- *Accurate Metering Devices:* Metering devices have an accuracy of plus or minus five percent (5%) for measuring water diverted from the source of supply. (Section 5.1)

- *Universal Metering, Testing, Repair and Replacement:* A program for universal metering of both customer and public uses of water, for meter testing and repair and for periodic meter replacement. (Section 5.2)
- *Determination and Control of Water Loss:* Specific measures to determine and control water loss. The measures may include periodic visual inspections along distribution pipelines, periodic audits of the water system for illegal connections or abandoned services. (Section 5.3)
- *Continuing Public Education Program:* A continuing public education and information program regarding water conservation is required as part of the Plan. (Section 5.4)
- *Non-Promotional Water Rate Structure:* A water rate structure that is not “promotional,” that is, rates that discourage waste and excessive use of water such as increasing block rate instead of volume discounts. (Section 5.5)
- *Landscape Water Management Strategy:* Implementing and achieving the efficient use and stewardship of water in landscape irrigation, including watering a maximum of two days per week and time-of-day watering provisions. It is an optional strategy within the TCEQ regulations. However, UTRWD requests that Mustang SUD implement a landscape water management ordinance as part of the Plan. (Section 5.6)
- *Reservoir Systems Operational Plan:* If applicable, providing for the coordinated operation of reservoirs owned by the water supply entity within a common watershed or river basin in order to optimize available water supplies. (Section 5.7)
- *Means of Implementation and Enforcement:* The regulations require a strategy for implementing and enforcing the provisions of this Plan, as evidenced by an ordinance, resolution or tariff, and a description of the authority by which the Plan is enforced. (Section 8)
- *Coordination with Regional Water Planning Group:* Document that the Plan has been coordinated with the Regional Water Planning Group to ensure consistency with the appropriate approved regional water plan. (Section 9)

**B. Additional Requirements for Larger Public Water Suppliers**

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

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

### C. Enhanced Water Conservation Program Strategies

TCEQ rules identify the following strategies as optional if they are necessary to achieve the stated water conservation goals of the Plan.

- Conservation-oriented water rates and water rate structures (Section 5.5);
- Adoption of ordinances, plumbing codes and/or rules requiring water-conserving plumbing fixtures to be installed in new structures and existing structures undergoing substantial modification or addition (Section 7.1);
- A program for the replacement or retrofit of water-conserving plumbing fixtures in existing structures;
- Reuse and/or recycling of wastewater and/or gray water, where feasible and appropriate (Section 7.2);
- A program for pressure control and/or reduction in the distribution system and/or for customer connections (Section 7.3);
- A method for monitoring the effectiveness and efficiency of the Plan (Section 7.4 and Section 10) and
- Any other water conservation practice, method or technique which the Public Water Supplier shows to be appropriate for achieving the stated goal or goals of the water conservation plan (Section 7.5 – 7.10).

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

## **SECTION 2**

### **Water Utility Profile**

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

## **SECTION 3**

### **Record Management System**

Mustang SUD's current record management system is able to classify water use data into the following sectors: residential (single family and multi-family), commercial, institutional, industrial, agricultural and wholesale. When Mustang SUD upgrades its software, Mustang SUD will purchase software capable of reporting detailed water use data to include all sectors (residential, commercial, institutional, industrial, agricultural and wholesale).

## **SECTION 4**

### **Water Conservation Planning Goals**

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

- Maintain accurate supply source metering to measure and account for the amount of water diverted from the source of supply;
- Maintain a program of universal metering, meter replacement and repair and periodic meter replacement;
- Maintain the level of water loss in Mustang SUD's water system below 15% annually;
- Raise public awareness of water conservation and encourage responsible public behavior through a coordinated public education and information program;
- Continue to implement a water rate structure to encourage water conservation;
- Implement and enforce the Plan by officially adopting the Plan through an ordinance / resolution / tariff, describing the authority by which Mustang SUD will implement and enforce the Plan and documenting coordination with the Region C Water Planning Group;
- Maintain a program of leak detection and repair;
- Ensure that each wholesale customer develops and implements a water conservation plan with similar and consistent strategies as provided in this Plan;
- Decrease waste in lawn irrigation by implementing and enforcing landscape water management regulations and
- Develop a strategy to conserve water during peak demands, thereby reducing the peak use.

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

	<b>Historic 5-yr Average</b>	<b>Baseline</b>	<b>5-yr Goal for year <u>2029</u></b>	<b>10-yr Goal for year <u>2034</u></b>
Total GPCD <sup>1</sup>	<b>105</b>	<b>115</b>	<b>105</b>	<b>100</b>
Residential GPCD <sup>2</sup>	<b>87</b>	<b>97</b>	<b>95</b>	<b>95</b>
Water Loss (GPCD) <sup>3</sup>	<b>9</b>	<b>10</b>	<b>8</b>	<b>7</b>
Water Loss (%) <sup>4</sup>	<b>9.00%</b>	<b>9.08%</b>	<b>7.62%</b>	<b>7.00%</b>

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

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

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

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

*Guidance. Utilities can use the Texas Water Development Board Municipal Water Conservation Planning Tool to help determine 5 and 10-year water use goals. The Tool can also help utilities determine the effectiveness of certain best management practices in reducing water usage. The Tool can be downloaded from the TWDB website.*

## SECTION 5

### Basic Water Conservation Strategies

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

#### 5.1 Accurate Supply Source Metering

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

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

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

Water usage for all customers of Mustang SUD, including public and governmental users, is metered. Mustang SUD will continue to implement its meter testing and calibration program of its service connections to identify any water loss and to determine if the meter readings are outside the acceptable range according to AWWA standards. Mustang will continue to pull, test and repair any meter determined to be registering unusual or questionable repaired.

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

Mustang SUD understands the benefits of Advanced Metering Infrastructure (AMI), including greater customer service opportunities and alerting retail customers of potential leaks. Mustang SUD will evaluate the costs and benefits of implementing AMI in the future and will determine if it is a feasible solution for conservation efforts.

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

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

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

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

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

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

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

The ultimate success of any water conservation program is dependent on an informed public. Individual retail customers must have an awareness of the benefits and needs for water conservation. They must also have knowledge of how to contribute to the success of the Plan. Mustang SUD's public education and information program, if applicable including dedicated staff for this program, is designed to provide information to as many retail customers as possible.

Mustang SUD works in collaboration with UTRWD to provide this information. Mustang SUD will promote its water conservation strategies outlined in this Plan as well as the measures and activities discussed below.

- **Informative School Program.** Provide water conservation information to area schools. This may consist of providing literature and coloring books, classroom presentations, demonstrations, etc. Staff may also coordinate with local schools to have Upper Trinity staff make presentations and demonstrations about water conservation and watershed protection, including an Enviroscape watershed model, rainfall simulator, stream erosion trailer, etc.
- **Literature Program.** Insert water conservation information with water bills at least twice per year as well as make information available to the public at utility offices or other public places. Information may include material developed by Mustang SUD's staff using material obtained from UTRWD, Texas A&M AgriLife, TWDB, TCEQ and other sources that pertain to water conservation in general and specific to landscape irrigation conservation.
- **Special Events and Promotions.** Make available promotional / educational items at special events focusing on water conservation in the landscape, home and business. Items may include Texas SmartScape® bookmarks, water bottles, toilet-leak test kits, water conservation coloring books, etc.
- **Website.** Make information on water conservation available on Mustang SUD's website and include links to sites with good information about water conservation, such as to Texas SmartScape, AgriLife Water University, TWDB and TCEQ.
- **Speaking Engagements.** Notify local organizations, schools and civic groups that Mustang SUD's staff, and staff of UTRWD, are available to make presentations on the importance of water conservation and the best ways to save water.

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

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

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

## 5.5 Non-Promotional Water Rate Structure

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

Mustang SUD's *water rate structure is below:*

### (A) Monthly Charges

a. Water Service. The District shall assess the following monthly charges for water service:

- i. **Base Rate.** The District's Base Rate for water service through a standard water meter is \$30.69 per month. The Base Rate is that portion of a customer's monthly bill which is paid for the opportunity of receiving utility service, excluding standby fees and reserved service charges, which does not vary due to changes in service consumption. The standard 5/8 x 3/4 meter (as per American Water Works Association maximum continuous flow specifications) is used as a base multiplier for the Base Rate amount. Therefore, a customer's Base Rate charge is based on the number of 5/8 x 3/4 meters equivalent to the size of that customer's meter. The District's monthly Base Rates for water service and meter size equivalents are as follows:

METER SIZE	AWWA FACTOR	MONTHLY RATE
5/8" x 3/4" (standard)	1.0	\$ 30.69
3/4" x 3/4"	1.5	\$ 46.04
1"	2.5	\$ 76.79
1 1/2"	5.0	\$ 153.58
2"	8.0	\$ 245.72
3"	15.0	\$ 460.74
4"	25.0	\$ 767.90
6"	50.0	\$ 1535.74
8"	80.0	\$ 2340.16
Reserve Fee (no meter installed)		\$ 27.26

- ii. **Gallage Charge.** In addition to the Base Rate, customers with meters smaller than 2", shall be assessed a Gallage Charge at the following rates for water usage during any one (1) billing period:

1 to 3,000 gallons. ....	\$3.00 per thousand
3,001 to 9,000 gallons. ....	\$4.21 per thousand
9,001 to 15,000 gallons. ....	\$5.25 per thousand
15,001 to 23,000 gallons. ....	\$6.39 per thousand
23,001 to 31,000 gallons. ....	\$9.78 per thousand
31,001 to 40,000 gallons. ....	\$12.47 per thousand
>40,000 gallons. ....	\$17.46 per thousand

In addition to the Base Rate, customers with meters greater than or equal to 2" shall be assessed a Gallage Charge at the following rates for water usage during any one (1) billing period:

1 to 35,000 gallons.....	\$6.39 per thousand
35,000 to 70,000 gallons.....	\$9.78 per thousand
>70,000 gallons.....	\$12.47 per thousand

iii. In addition to the Base Rate, Interconnect Wholesale Gallonage Charge:

Gallons.....	\$4.06 per thousand
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b. Wastewater Service. The District's monthly rate for wastewater service on a per tap basis is as follows:

For Standard, ¾" Meters":

1 to 8,000 gallons of water used	\$56.36 per month
>8,000 gallons of water used	\$62.86 per month

For 1", 1.5", 2" Meters:

Usage Charge	\$20.59 per month
Usage per 1,000 gallons	\$3.94 per thousand

For 3", 4" Meters:

Usage Charge	\$39.70 per month
Usage per 1,000 gallons	\$6.39 per thousand

For 6", 8" Meters:

Usage Charge	\$151.73 per month
Usage per 1,000 gallons	\$6.39 per thousand

**Belmont/Saratoga Subdivision Residents:.....\$60.70 per month**

**Krugerville City Limits:.....\$73.31 per month**

c. Multifamily Residential Water Rates:

In addition to the Base Rate multifamily residential accounts with meters equal to 2" shall be assessed a Gallonage Charge at the following rates for water usage during any one (1) billing period:

1 to 24,000 gallons. ....	\$3.00 per thousand
24,001 to 72,000 gallons. ....	\$4.21 per thousand
72,001 to 120,000 gallons. ....	\$5.25 per thousand
120,001 to 184,000 gallons.. . . .	\$6.39 per thousand
184,001 to 248,000 gallons. ....	\$9.78 per thousand
248,001 to 320,000 gallons.. . . .	\$12.47 per thousand
>320,000 gallons. ....	.\$17.46 per thousand

In addition to the Base Rate multifamily residential accounts with meters equal to 3" shall be assessed a Gallonage Charge at the following rates for water usage during any one (1) billing period:

1 to 45,000 gallons. ....	\$3.00 per thousand
45,001 to 135,000 gallons. ....	\$4.21 per thousand
135,001 to 225,000 gallons. ....	.\$5.25 per thousand

225,001 to 345,000 gallons.. . . . .	\$6.39 per thousand
345,001 to 465,000 gallons. . . . .	\$9.78 per thousand
465,001 to 600,000 gallons.. . . . .	\$12.47 per thousand
>600,000 gallons. . . . .	\$17.46 per thousand

In addition to the Base Rate multifamily residential accounts with meters equal to 4” shall be assessed a Gallonage Charge at the following rates for water usage during any one (1) billing period:

1 to 45,000 gallons. . . . .	\$3.00 per thousand
45,001 to 135,000 gallons. . . . .	\$4.21 per thousand
135,001 to 225,000 gallons. . . . .	\$5.25 per thousand
225,001 to 345,000 gallons.. . . . .	\$6.39 per thousand
345,001 to 465,000 gallons. . . . .	\$9.78 per thousand
465,001 to 600,000 gallons.. . . . .	\$12.47 per thousand
>600,000 gallons. . . . .	\$17.46 per thousand

In addition to the Base Rate, multifamily residential accounts with meters equal to a 6” shall be assessed a Gallonage Charge at the following rates for water usage during any one (1) billing period:

1 to 150,000 gallons.....	\$3.00 per thousand
150,001 to 450,000 gallons. . . . .	\$4.21 per thousand
450,001 to 750,000 gallons. . . . .	\$5.25 per thousand
750,001 to 1,150,000 gallons.. . . . .	\$6.39 per thousand
1,150,001 to 1,550,000 gallons. . . . .	\$9.78 per thousand
1,550,001 to 2,000,000 gallons.. . . . .	\$12.47 per thousand
>2,000,000 gallons. . . . .	\$17.46 per thousand

In addition to the Base Rate, multifamily residential accounts with meters greater than or equal to 8” shall be assessed a Gallonage Charge at the following rates for water usage during any one (1) billing period:

1 to 240,000 gallons. . . . .	\$3.00 per thousand
240,001 to 720,000 gallons. . . . .	\$4.21 per thousand
720,001 to 1,200,000 gallons. . . . .	\$5.25 per thousand
1,200,001 to 1,840,000 gallons.. . . . .	\$6.39 per thousand
1,840,001 to 2,480,000 gallons. . . . .	\$9.78 per thousand
2,480,001 to 3,200,000 gallons.. . . . .	\$12.47 per thousand
>3,200,000 gallons. . . . .	\$17.46 per thousand

**5.6 Landscape Water Management Program/Ordinances**

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

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

Last Digit of Address	Allowed Watering Day
EVEN	Sunday and Thursday
ODD	Saturdays and Wednesdays

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

These strategies will be actively promoted by Mustang SUD through public information programs and enforcement for mandatory compliance by its customers.

An additional strategy that may be implemented, if deemed necessary, is to require all non-residential retail customers to have their irrigation systems inspected and repairs and/or adjustments made by a licensed irrigator every three (3) years. Certain customers may be exempt from this requirement.

Over the next five (5) years, Mustang SUD plans to evaluate the feasibility and merits of an optional rebate program to encourage greater efficiency in outdoor irrigation systems. A rebate program may include one or more of the following concepts:

- Rain/freeze sensors for irrigation systems;
- Smart controllers for irrigation systems;
- Other outdoor water conservation incentive programs.

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

**Guidance.** *For many utilities, water use rises 50% or more during summer months, taking a toll on water treatment and delivery infrastructure and available water resources. Managing peak season water demand is a component of water sustainability. As part of the development of this*

*Plan, UTRWD recommends the implementation of landscape water management strategies consistent with UTRWD. The strategies are intended to reduce waste in landscape irrigation and peak water demands.*

*Additional strategies that may be adopted to reduce waste in landscape irrigation include:*

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

## **5.7 Reservoir Systems Operations Plan**

A reservoir systems operations plan is required only for those Public Water Suppliers that own reservoirs within a common watershed or river basin. The purpose of this requirement is to provide for the coordinated operation of these reservoirs to optimize available water supplies.

Not applicable to Mustang SUD because Mustang SUD does not own any reservoirs.

## **SECTION 6**

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

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

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

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

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

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

Not applicable to Mustang SUD because Mustang SUD does not have any successive wholesale customers.

# **SECTION 7**

## **Additional Water Conservation Strategies**

Mustang SUD has selected the following additional water conservation strategies, described below, to achieve the water conservation goals of the plan.

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

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

Over the next five (5) years, Mustang SUD plans to evaluate the feasibility and merits of an optional rebate program to encourage replacement of older fixtures with water conserving fixtures. A rebate program may include one or more of the following concepts:

- High-efficiency toilet replacement and rebate;
- Pressure reduction in the system or for individual customers;
- High-efficiency showerhead and sink aerators replacement;
- High-efficiency clothes washer rebates or
- Other indoor water conservation incentive programs.

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

Mustang SUD cooperates with UTRWD in the promotion of and achieving reuse of treated effluent on a regular basis.

### **7.3 Pressure Control Program**

Mustang SUD has determined a reasonable system pressure for each pressure zone in its retail distribution system, and has installed internal pressure control stations and customer service pressure regulators where needed.

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

Mustang SUD will make every effort to measure and quantify water savings achieved through its programs. The water saving results will be used to monitor the effectiveness and efficiency of Mustang SUD's water conservation program. The results, if requested, will be reported to UTRWD.

#### **7.5 Water Conserving Landscaping**

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

#### **7.6 Watershed Protection**

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

Mustang SUD participates in UTRWD's coordinated program for watershed protection aimed at educating the public about protecting local watersheds and water quality. To help communicate the important role that watersheds have in the water supply for this region, UTRWD created a watershed logo and sign for Customers', such as Mustang SUD to use. Mustang SUD plans to install watershed signs along roadways / waterways as a constant reminder that we need to keep our watersheds clean.

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

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

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

Mustang SUD, in coordination with UTRWD, offers an outreach program to assist large water users find ways to operate more efficiently, save water and energy and lower their costs. Water savings are realized as the ICI customers implement audit recommendations. In addition to these audits,

ICI customers who have implemented said recommendations and have taken proactive steps in using water more wisely and efficiently are publicly recognized.

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

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

Mustang SUD has, or plans to, implement an in-house water conservation program, including the following elements (*adapt as needed*):

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

### **7.10 Water Conservation Coordinator**

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

## **SECTION 8**

### **Implementation and Enforcement**

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

- Overseeing the execution and administration of all Plan elements;
- Supervising the keeping of records for the program verification and to assess the program effectiveness and

- Making recommendations for changes in the Plan as needed.

## **SECTION 9**

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

Mustang SUD has coordinated with the Region C Water Planning Group and UTRWD to ensure consistency with the approved regional water plan and UTRWD's water conservation plan. Mustang SUD sent a copy of the draft ordinance(s) or resolution(s) implementing the Plan and the water utility profile to UTRWD for review and approval. After adoption, Mustang SUD sent the final ordinance(s) or resolution(s), the Plan and the adopted water profile to UTRWD. Appendix D includes a copy of the letter sent to the Chair of the Region C Water Planning along with Mustang SUD's Plan.

## **SECTION 10**

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

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

Mustang SUD is also required to submit an annual report. Annual reports are due to TWDB by May 1 of each year to report Mustang SUD's progress in implementing its water conservation plan. Said report will be used to monitor the effectiveness and efficiency of Mustang SUD's water conservation program. The results of the annual report may also be used to plan conservation-related activities for the following year. Mustang SUD will have a copy of the annual report produced by May 1 every year, available to UTRWD upon request.

## APPENDIX A

### **TCEQ Minimum Requirements for a Water Conservation Plan (Title 30, Part 1, Chapter 288, Subchapter A, Rule §288.2 of TAC) Water Conservation Plans for Municipal Uses by Public Water Suppliers Effective December 6, 2012**

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

- (1) Minimum requirements. All water conservation plans for municipal uses by public water suppliers must include the following elements:
  - (A) a utility profile in accordance with the Texas Water Use Methodology, including, but not limited to, information regarding population and customer data, water use data (including total gallons per capita per day (GPCD) and residential GPCD), water supply system data, and wastewater system data;
  - (B) a record management system which allows for the classification of water sales and uses into the most detailed level of water use data currently available to it, including, if possible, the sectors listed in clauses (i) - (vi) of this subparagraph. Any new billing system purchased by a public water supplier must be capable of reporting detailed water use data as described in clauses (i) - (vi) of this subparagraph:
    - (i) residential; (I) single family; (II) multi-family; (ii) commercial; (iii) institutional; (iv) industrial; (v) agricultural; and, (vi) wholesale.
  - (C) specific, quantified five-year and ten-year targets for water savings to include goals for water loss programs and goals for municipal use in total GPCD and residential GPCD. The goals established by a public water supplier under this subparagraph are not enforceable;
  - (D) metering device(s), within an accuracy of plus or minus 5.0% in order to measure and account for the amount of water diverted from the source of supply;
  - (E) a program for universal metering of both customer and public uses of water, for meter testing and repair, and for periodic meter replacement;
  - (F) measures to determine and control water loss (for example, periodic visual inspections along distribution lines; annual or monthly audit of the water system to determine illegal connections; abandoned services; etc.);
  - (G) a program of continuing public education and information regarding water conservation;
  - (H) a water rate structure which is not "promotional," i.e., a rate structure which is cost-based and which does not encourage the excessive use of water;
  - (I) a reservoir systems operations plan, if applicable, providing for the coordinated operation of reservoirs owned by the applicant within a common watershed or river basin in order to optimize available water supplies; and

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

- (i) a copy of the ordinance, resolution, or tariff indicating official adoption of the water conservation plan by the water supplier; and
- (ii) a description of the authority by which the water supplier will implement and enforce the conservation plan; and

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

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

- (A) a program of leak detection, repair, and water loss accounting for the water transmission, delivery, and distribution system;
- (B) a requirement in every wholesale water supply contract entered into or renewed after official adoption of the plan (by either ordinance, resolution, or tariff), and including any contract extension, that each successive wholesale customer develop and implement a water conservation plan or water conservation measures using the applicable elements in this chapter. If the customer intends to resell the water, the contract between the initial supplier and customer must provide that the contract for the resale of the water must have water conservation requirements so that each successive customer in the resale of the water will be required to implement water conservation measures in accordance with the provisions of this chapter.

(3) Additional conservation strategies. Any combination of the following strategies shall be selected by the water supplier, in addition to the minimum requirements in paragraphs (1) and (2) of this subsection, if they are necessary to achieve the stated water conservation goals of the plan. The commission may require that any of the following strategies be implemented by the water supplier if the commission determines that the strategy is necessary to achieve the goals of the water conservation plan:

- (A) conservation-oriented water rates and water rate structures such as uniform or increasing block rate schedules, and/or seasonal rates, but not flat rate or decreasing block rates;
- (B) adoption of ordinances, plumbing codes, and/or rules requiring water-conserving plumbing fixtures to be installed in new structures and existing structures undergoing substantial modification or addition;
- (C) a program for the replacement or retrofit of water-conserving plumbing fixtures in existing structures;
- (D) reuse and/or recycling of wastewater and/or graywater;
- (E) a program for pressure control and/or reduction in the distribution system and/or for customer connections;

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

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

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

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

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

# **APPENDIX B**

## **Mustang Special Utility District's Water Utility Profile**

## UTILITY PROFILE FOR RETAIL WATER SUPPLIER

### CONTACT INFORMATION

Name of Utility: MUSTANG SUD

Public Water Supply Identification Number (PWS ID): TX0610036

Certificate of Convenience and Necessity (CCN) Number: 11856

Surface Water Right ID Number: \_\_\_\_\_

Wastewater ID Number: 20930

Contact: First Name: Helena Last Name: Henretty

Title: Regulatory Compliance and Support Manager

Address: 7985 FM 2931 City: Aubrey State: TX

Zip Code: 76227 Zip+4: \_\_\_\_\_ Email: hcarroll@mustangwater.com

Telephone Number: 9404409561 Date: 4/16/2024

Is this person the designated Conservation Coordinator?  Yes  No

Regional Water Planning Group: C

Groundwater Conservation District: \_\_\_\_\_

Our records indicate that you:

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

#### A. Population and Service Area Data

1. Current service area size in square miles: 118

Attached file(s):

File Name	File Description
MustangServiceArea_Legacy_April16_2024.pdf	

## 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	82,965	0	65,541
2022	74,019	0	56,994
2021	63,858	0	47,894
2020	51,333	0	35,933
2019	44,718	0	29,626

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	285,063	0	290,156
2040	828,180	0	833,273
2050	828,180	0	833,273
2060	828,180	0	833,273
2070	828,180	0	833,273

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

The population projections are for MSUD's legacy region only. A 17% annual LUE growth and 3.5 people per LUE is assumed. There are 30,026 LUEs in MSUD's legacy region as of 1/1/2024. The average build out density for known developments in MSUD's legacy region and surrounding area was calculated to be 3.098 LUE/ac. Mustang's legacy region is sized to be 76,860 acres, and using the calculated density, the maximum build out LUEs is calculated to be 238,078. Currently, there are 5093 (1455) customers in MSUD's legacy region served by wastewater only services, but it is assumed there will not be any additional in the future. As of today, none of Mustang's customers in MSUD's legacy region are served by wholesale water. In this projection, it is assumed that this will be maintained for the foreseeable future.

## 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
<b>2023</b>	745,415,120	2,738,814,480	0	3,484,229,600	115
<b>2022</b>	511,568,829	2,380,414,954	0	2,891,983,783	107
<b>2021</b>	488,431,910	1,819,025,286	0	2,307,457,196	99
<b>2020</b>	399,088,027	1,579,986,855	0	1,979,074,882	106
<b>2019</b>	269,622,449	1,369,414,496	0	1,639,036,945	100
<b>Historic Average</b>	482,825,267	1,977,531,214	0	2,460,356,481	105

### C. Water Supply System

1. Designed daily capacity of system in gallons	32,417,280
2. Storage Capacity	
2a. Elevated storage in gallons:	3,550,000
2b. Ground storage in gallons:	5,564,500

## 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	135,114	4,028,832,669
2026	157,217	4,713,734,223
2027	183,078	5,515,069,040
2028	213,336	6,452,630,777
2029	248,737	7,549,578,009
2030	290,156	8,833,006,271
2031	338,617	10,334,617,337
2032	395,316	12,091,502,284
2033	461,654	14,147,057,673
2034	539,269	16,552,057,477

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

The population projections are for MSUD's legacy region only. A 17% annual LUE growth and 3.5 people per LUE is assumed. There are 30,026 LUEs in MSUD's legacy region as of 1/1/2024. The average build out density for known developments in MSUD's legacy region and surrounding area was calculated to be 3.098 LUE/ac. Mustang's legacy region is sized to be 76,860 acres, and using the calculated density, the maximum build out LUEs is calculated to be 238,078. Currently, there are 5093 (1455) customers in MSUD's legacy region served by wastewater water services only, but it is assumed there will not be any additional in the future. In 2023, there were 27,655 meters in MSUD's legacy region that consumed 3,414,545,008 gallons, averaging 123,469 gallons per meter. Currently, there are 0.878 meters/LUE in MSUD's legacy region. Using the meters/LUE and gallons/meter, the water demand in gallons was calculated using the project LUE count.

## UTILITY PROFILE FOR RETAIL WATER SUPPLIER

### E. High Volume Customers

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

Customer	Water Use Category	Annual Water Use	Treated or Raw
VBF-V Souvenir 380	Commercial	2,165,100	Treated
Centennial Luxe, LLC	Residential	2,092,500	Treated
Centennial Luxe, LLC	Residential	1,743,700	Treated
VBF-V Souvenir 380	Agricultural	1,736,000	Treated
IMO US West	Commercial	1,650,160	Treated

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

Customer	Water Use Category	Annual Water Use	Treated or Raw
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### F. Utility Data Comment Section

Additional comments about utility data.

## Section II: System Data

### A. Retail Water Supplier Connections

- 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	24,399	88.23 %
Residential - Multi-Family	26	0.09 %
Industrial	0	0.00 %
Commercial	179	0.65 %
Institutional	76	0.27 %
Agricultural	2,975	10.76 %
<b>Total</b>	27,655	100.00 %

## UTILITY PROFILE FOR RETAIL WATER SUPPLIER

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

Year	Net Number of New Retail Connections						Total
	Residential - Single Family	Residential - Multi-Family	Industrial	Commercial	Institutional	Agricultural	
2023	2,686	13	0	23	9	251	2,982
2022	873	1	0	7	2	2,504	3,387
2021	3,948	4	0	9	2	220	4,183
2020	2,225	0	0	3	17	0	2,245
2019	6,584	16	0	43	60	0	6,703

### 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	2,504,426,051	88,541,496	0	85,709,849	30,634,799	378,840,183	3,088,152,378
2022	2,164,224,355	67,943,492	0	68,354,959	26,684,255	268,095,564	2,595,302,625
2021	1,689,979,573	86,496,723	0	68,048,289	30,328,206	168,413,012	2,043,265,803
2020	1,582,035,146	94,532,428	0	45,104,431	34,832,570	0	1,756,504,575
2019	1,086,925,391	102,908,486	0	43,120,944	49,197,457	0	1,282,152,278

### C. Residential Water Use

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

Year	Total Residential GPCD
2023	97
2022	94
2021	78
2020	91
2019	74
Historic Average	87

## 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	173,736,433	142,487,769	112,579,198	98,772,229	85,625,643
February	140,322,613	127,515,204	120,521,945	90,839,885	72,568,049
March	186,490,006	164,813,290	142,848,258	104,125,739	97,072,565
April	261,263,677	200,499,506	173,224,239	132,307,587	91,739,600
May	282,600,474	235,801,450	157,214,944	165,769,607	114,393,798
June	323,286,745	307,397,850	202,232,630	211,318,166	142,855,828
July	387,276,856	383,305,225	248,334,816	251,790,135	220,257,084
August	474,658,004	327,232,996	271,200,411	256,336,064	210,247,953
September	418,257,577	311,670,680	298,842,961	176,344,402	194,793,067
October	317,517,511	298,173,313	301,842,941	188,563,416	164,926,787
November	230,143,499	171,960,266	203,537,609	143,429,236	103,876,054
December	210,264,374	162,256,558	159,693,575	119,896,918	107,901,778
<b>Total</b>	<b>3,405,817,769</b>	<b>2,833,114,107</b>	<b>2,392,073,527</b>	<b>1,939,493,384</b>	<b>1,606,258,206</b>

## 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					
February					
March					
April					
May					
June					
July					
August					
September					
October					
November					
December					
<b>Total</b>					

3. Summary of seasonal and annual water use.

	Summer RETAIL (Treated + Raw)	Total RETAIL (Treated + Raw)
2023	1,185,221,605	3,405,817,769
2022	1,017,936,071	2,833,114,107
2021	721,767,857	2,392,073,527
2020	719,444,365	1,939,493,384
2019	573,360,865	1,606,258,206
<b>Average in Gallons</b>	843,546,152.60	2,435,351,398.60

## 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	316,362,337	10	9.07 %
2022	213,582,981	8	9.15 %
2021	196,537,177	8	8.52 %
2020	155,972,235	8	7.88 %
2019	188,406,853	12	11.49 %
<b>Average</b>	214,172,317	9	9.22 %

### 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	9,331,007	12882843	1.3806
2022	7,761,956	11064522	1.4255
2021	6,553,626	7845302	1.1971
2020	5,313,680	7820047	1.4717
2019	4,400,707	6232183	1.4162

### G. Summary of Historic Water Use

Water Use Category	Historic Average	Percent of Connections	Percent of Water Use
<b>Residential - Single Family</b>	1,805,518,103	88.23 %	83.86 %
<b>Residential - Multi-Family</b>	88,084,525	0.09 %	4.09 %
<b>Industrial</b>	0	0.00 %	0.00 %
<b>Commercial</b>	62,067,694	0.65 %	2.88 %
<b>Institutional</b>	34,335,457	0.27 %	1.59 %
<b>Agricultural</b>	163,069,751	10.76 %	7.57 %

## UTILITY PROFILE FOR RETAIL WATER SUPPLIER

### H. System Data Comment Section

### Section III: Wastewater System Data

#### A. Wastewater System Data

1. Design capacity of wastewater treatment plant(s) in gallons per day: 800,000

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

Water Use Category	Metered	Unmetered	Total Connections	Percent of Total Connections
<b>Municipal</b>	18,617		18,617	85.22 %
<b>Industrial</b>	0		0	0.00 %
<b>Commercial</b>	179		179	0.82 %
<b>Institutional</b>	76		76	0.35 %
<b>Agricultural</b>	2,975		2,975	13.62 %
<b>Total</b>	21,847		21,847	100.00 %

3. Percentage of water serviced by the wastewater system: 79.00 %

## 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	4,173,475	3,540,824	1,721,368	1,657,220	
February	4,215,574	3,506,131	1,724,267	1,570,721	
March	4,170,327	3,744,286	2,303,543	2,038,540	673
April	4,187,725	3,841,353	2,545,482	1,526,223	517,700
May	5,019,047	4,144,894	3,546,272	2,018,072	339,600
June	4,897,410	4,051,614	3,224,039	1,955,917	476,700
July	4,859,996	4,306,733	2,679,381	1,896,764	747,121
August	4,519,474	4,463,921	3,177,188	1,789,099	925,592
September	7,807,982	4,290,361	2,864,948	1,437,677	845,387
October	12,311,265	4,377,651	3,161,755	1,411,781	1,167,789
November	10,831,240	4,234,521	3,220,374	1,826,770	1,325,994
December	14,069,364	4,473,594	3,478,135	2,134,784	1,221,717
<b>Total</b>	<b>81,062,879</b>	<b>48,975,883</b>	<b>33,646,752</b>	<b>21,263,568</b>	<b>7,568,273</b>

5. Could treated wastewater be substituted for potable water?

Yes
  No

### B. Reuse Data

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

Type of Reuse	Total Annual Volume (in gallons)
On-site Irrigation	
Plant wash down	
Chlorination/de-chlorination	
Industrial	
Landscape irrigation (park,golf courses)	0
Agricultural	
Discharge to surface water	81,062,879
Evaporation Pond	
Other	
<b>Total</b>	<b>81,062,879</b>

## UTILITY PROFILE FOR RETAIL WATER SUPPLIER

### C. Wastewater System Data Comment

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

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# **APPENDIX C**

## **Letter to Chairman of Region C Water Planning Group**

## **APPENDIX D**

### **Resolution/Order from Mustang SUD's Board of Directors Adopting the Water Conservation Plan**