



Date Submitted: 6/10/2024

## Water Use Efficiency Annual Performance Report - 2023

WS Name: MORTON CITY OF

Water System ID# : 56250

WS County: LEWIS

Report submitted by: ANDERS POLLMAN

### Meter Installation Information:

Estimate the percentage of metered connections: 100%

If not 100% metered – Did you submit a meter installation plan to DOH? No

Within your meter installation plan, what date did you commit to completing meter installation?

Current status of meter installation:

### Production, Authorized Consumption, and Distribution System Leakage Information:

12-Month WUE Reporting Period 01/01/2023 To 12/31/2023

Incomplete or missing data for the year? No

If yes, explain:

**Total Water Produced & Purchased (TP)** – Annual volume gallons 68,130,774 gallons

**Authorized Consumption (AC)** – Annual Volume in gallons 54,147,931 gallons

Distribution System Leakage – Annual Volume TP – AC 13,982,843 gallons

Distribution System Leakage – DSL =  $[(TP - AC) / TP] \times 100 \%$  20.5 %

3-year annual average - % 30.4 % 2021, 2022, 2023

### Goal-Setting Information:

Enter the date of most recent public forum to establish WUE goal: 11/26/2018

Has goal been changed since last performance report? No

*Note: Customer goal must be re-established every 6 years through a public process.*

### Customer WUE Goal (Demand Side):

*Proposed to city council on 11/26/2018, continue resolution of consumer water savings of 5% over the next 6 years*

### Customer (Demand Side) Goal Progress:

As part of the rate increase but integrated into the water conservation plan, the overage rate was increased to help discourage water waste. During the hot months the city sets a suggested watering schedule throughout the city to discourage waste with unnecessary watering. It is difficult to monitor how much water has been saved with the measures taken.

## Additional Information Regarding Supply and Demand Side WUE Efforts

*The water loss issues are primarily due to an aged and failing distribution system. The city has established a water line replacement program using city funds as they are available and budgeted. The city procured \$35,000 of leak detection equipment to stay on top of the water loss dilemma. The city also purchased \$166,000 of all new Kamstrup ultra sonic meters with radio read. They are the most accurate on the market. The city is still in the process of installing new meters to replace the old ones and the city is very close to completion. The city installed VFD's on all transfer pumps to conserve energy and reduce water hammer thereby decreasing the over all water leaks by at least %50. The city installed a new 500,000 gal water reservoir to replace the old one in 2019. The city is doing all they can to reduce the amount of water lost but it is still an ongoing battle that will never end until all water lines are replaced.*

## Describe Progress in Reaching Goals:

- Estimate how much water you saved.
- Report progress toward meeting goals within your established timeframe.
- Identify any WUE measures you are currently implementing.
- If you established a goal to maintain a historic level (such as maintaining daily consumption at 65 gallons per person per day for the next two years) you must explain why you are unable to reduce water use below that level.

The following questions will help DOH better understand water usage, water resources management and drought response. The data will be used to provide technical assistance, not for regulatory purposes.

## All questions are voluntary

Month	Date of Measurement	Static Water Level (feet below measuring point)	Dynamic Water Level (feet below measuring point)
January			
February			
March			
April			
May			
June			
July			
August			
September			
October			
November			
December			

**Water level data:**

Please provide the following information (if known) to help us better utilize the water level data.

Well tag Id number:

Well depth:

Water level accuracy (within 0.01 ft < 1 ft ~ 1 ft)

Completion type (e.g., cased open interval, cased open-ended, cased open-ended with perforations, etc...)

Location coordinates (latitude, longitude) and accuracy of the coordinates (< 1ft, ~1ft, >1000ft)

Water level parameter name (e.g. depth below measuring point, depth below top of casing, depth below ground surface)

Elevation of top of casing OR elevation of measuring point if different than top of casing (as specified in question 7)

**Monthly/Seasonal Water Usage:**

What was your maximum daily water demand for the previous year (in gallons per day)?

Month	Volume of Water Produced in gallons
January	
February	
March	
April	
May	
June	
July	
August	
September	
October	
November	
December	

**Water shortage response:**

Did you activate any level of water shortage response plan the previous year?

- Yes       No       There was no need to

If you activated a water shortage response plan the previous year, what level did you activate? (Check all that apply)

- Advisory Conservation       Voluntary Conservation  
 Mandatory Conservation       Rationing       Other

What factors caused your water shortage the previous year?

- Drought       Fire       Landslides       Earthquakes  
 Flooding       Water Supply Limitations       Other

**Do not mail, fax, or email this report to DOH**