

**COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION**

In the Matter of:

**ELECTRONIC INVESTIGATION INTO THE)
MEASURING, RECORDING, AND)
REPORTING OF WATER LOSS BY) CASE NO. 2018-00394
KENTUCKY'S JURISDICTIONAL WATER)
UTILITIES)**

RESPONSE OF

West McCracken Water District

TO

COMMISSION'S REQUEST FOR INFORMATION

DATED DECEMBER 18, 2018

FILED: January 16, 2019

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**CERTIFICATION OF RESPONSE OF West McCracken Water District TO
COMMISSION'S REQUEST FOR INFORMATION**

This is to certify that I have supervised the preparation of West McCracken Water District's Response to the Commission's Request for Information. The response submitted on behalf of West McCracken Water District is true and accurate to the best of my knowledge, information, and belief formed after a reasonable inquiry.

Date: 1/16/19



April Reed-Warriner, Superintendent
West McCracken Water District

West McCracken Water District

CASE NO. 2018-00394

Response to Commission's Request for Information

Question No. 1

Responding Witness: April Reed-Warriner

- Q-1. Explain in detail the manner in which you measure, calculate, and track water loss, and:
- a. Identify whether you use any manual form (including Excel spreadsheet) or electronic or mechanized system to calculate and track water loss.
 - b. Provide a copy of any form used (including Excel spreadsheet).
 - c. Identify the source of any form or system used.
- A-1. West McCracken Water District (WMWD) purchases water. To obtain the amount of water purchased we read our 3 master meters daily. When we receive a water bill from our wholesale supplier, we compare the meter readings to make sure they are correct. Customer meters are read monthly. We print a consumption analysis report from our billing system software that generates the total gallons sold to all customers. We take the difference in water purchase and water sold. Then we adjust for system flushing, fire department usage, tank overflows, line breaks and leaks. Once those amounts are adjusted, we have our water loss total for the month.
- a. WMWD uses the KRWA Monthly Loss Report
 - b. Exhibit 1, sample, Monthly Water Loss Report
Exhibit 2, sample, Consumption Analysis
Exhibit 3, sample, Hydrant Flushing Log
Exhibit 4, sample, Fire Department Usage
Exhibit 5, sample, Line Break Log
 - c. Monthly Water Loss Report, KRWA
Consumption Analysis, United Systems Software
Hydrant Flushing Log, KRWA
Fire Department Usage, KRWA
Line Break Log, WMWD

West McCracken Water District

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Response to Commission's Request for Information

Question No. 2

Responding Witness: April Reed-Warriner

- Q-2. Explain in detail your understanding of the information to be provided in each of the categories on the Water Statistics page (reference page 30) of the annual report required of jurisdictional water utilities, accessed through the Commission's website.
- A-2. West McCracken Water District (WMWD) understands the information the Commission is requesting for the report.
1. Header for lines below. Water produced, purchase, and distributed.
 2. WMWD does not produce water so line 2 is left blank.
 3. WMWD enters total gallons of water purchased
 4. Total water produced and purchased by utility
 5. Blank
 6. Header for lines 7-13, Water Sales
 7. Total gallons sold for Residential
 8. Total gallons sold for Commercial
 9. Total gallons sold for Industrial
 10. Total gallons sold for Bulk Loading Station
 11. Total gallons sold for Resale
 12. Any water sold that is not in category within lines 7-11, goes in this line
 13. Total of all Water Sales calculated from lines 7-12.
 14. Blank
 15. Header for lines 16-21, Other Water Used
 16. Total gallons used by the Utility/Water treatment plant
 17. Total gallons used by Wastewater Plant
 18. Total gallons used for System Flushing
 19. Total gallons used by the Fire Department
 20. Other usage not included in lines 16-19.
 21. Total gallons of accounted for water other than sales
 22. Blank
 23. Header for lines 24-28, Water Loss
 24. Total gallons from Tank Overflow
 25. Total gallons from known Main Line Breaks
 26. Total gallons from known Line Leaks
 27. Total unaccounted for gallons from other leaks not listed
 28. Total Line Loss calculated from lines 24-27
 29. Blank

30. Blank

31. Blank

32. Header for line 33, Water Loss Percentage

33. Total Line Loss is divided by Total produced and purchased

West McCracken Water District

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Response to Commission's Request for Information

Question No. 3

Responding Witness: April Reed-Warriner

- Q-3. State any questions you have regarding how to use the updated Commission Form described and attached as Appendix A to this Order.
- A-3. West McCracken Water District (WMWD) has no questions regarding how to use the updated Commission Form attached as Appendix A to the Order.

West McCracken Water District

CASE NO. 2018-00394

Response to Commission's Request for Information

Question No. 4

Responding Witness: April Reed-Warriner

- Q-4. State any suggestions or improvements you have for the updated Commission Form described and attached as Appendix A to this Order.

- A-4. West McCracken Water District (WMWD) has no suggestions or improvements to the updated Commission Form described and attached as Appendix A to the Order.

West McCracken Water District

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Response to Commission's Request for Information

Question No. 5

Responding Witness: April Reed-Warriner

- Q-5. State any questions you have regarding how the information in the updated Commission Form described and attached as Appendix A to this Order is to be incorporated into annual reports.
- A-5. West McCracken Water District (WMWD) has no questions regarding how the information in the updated Commission Form is to be incorporated in the annual report.

West McCracken Water District

CASE NO. 2018-00394

Response to Commission's Request for Information

Question No. 6

Responding Witness: April Reed-Warriner

- Q-6. State any concerns you have regarding the use of the updated Commission Form described and attached as Appendix A to this Order.
- A-6. West McCracken Water District (WMWD) has no concerns regarding the use of the updated Commission Form described and attached as Appendix A to the Order.

West McCracken Water District

CASE NO. 2018-00394

Response to Commission's Request for Information

Question No. 7

Responding Witness: April Reed-Warriner

- Q-7. State whether you believe it is reasonable, proper, and appropriate for the Commission to require jurisdictional water utilities to maintain and use the updated Commission Form described and attached as Appendix A to this Order. Fully explain your answer
- A-7. West McCracken Water District (WMWD) believes it is reasonable for each water system to use the update Commission Form described and attached as Appendix A to the Order. WMWD wants to keep track of water loss to keep costs down for our customers. WMWD understands the importance of tracking this information. Any non-revenue water loss can quickly create a hardship for a small utility especially.

CERTIFICATE OF SERVICE

In accordance with 807 KAR 5:001, Section 8, I certify that West McCracken Water District's electronic filing of this Response is a true and accurate copy of the same document being filed in paper medium; that the electronic filing was transmitted to the Public Service Commission on January 16, 2019; that there are currently no parties that the Public Service Commission has excused from participation by electronic means in this proceeding; and that an original paper medium of this Response will be delivered to the Public Service Commission within two business days.



April Reed-Warriner

Monthly Water Loss Report

Water Company:

For the Month of: Year:

Water Produced this month: gallons
 Water Purchased this month: gallons

A: Total Water Produced and Purchased = **0 gallons**

Sold: all customers gallons
 gallons
 gallons

Total Sold = **0 gallons**

B: Difference: (Produced+Purchased) - Sold = **0 gallons**

% Difference = **#DIV/0! % total water loss**

Gallons of Water Accounted For:

Breaks (Estimated Total)	<input type="text"/>	gallons
Hydrant Flushing	<input type="text"/>	gallons
Storage Tank Overflow	<input type="text"/>	gallons
Water Treatment Plant Use	<input type="text"/>	gallons
Wastewater Treatment Plant Use	<input type="text"/>	gallons
Fire Department Use	<input type="text"/>	gallons
Net Computer Adjustment + / -	<input type="text"/>	gallons
Other	<input type="text"/>	gallons

C: Total Gallons Accounted For = **0 gallons**

Loss: Unaccounted-for Water: (B-C) = **0 gallons**

% Loss: Unaccounted-for Water: (B-C)/A %= **#DIV/0! % unaccounted - for loss**

Gallons / Day Loss = days in month **#DIV/0! gallons/day**
Gallons / Minute Loss = **#DIV/0! gallons/min.**

West McCracken Water District Consumption Analysis

EXHIBIT 2

Account Range	All Accounts	Limits	Increments
Service Type	All Service Types	999,999,999	,999,999,999
Rate Code	All Rates		
Billing Cycle	1 Cycle 1		
Report Is For	Current Billing Information		
History Date Range	Not Applicable		
Print On Report	Number Of Services		
Report Type	Break Down Combine Consumption Brackets By Customer		
Customer Type	All Customer Types		
Use Reading Factor	<input checked="" type="checkbox"/>		
Include Inactive Services	<input type="checkbox"/>		
Produce an exception report of all accounts with a consumption over	0		
Date Selection For Report	Not Applicable		

	Usage Bracket	Number Of Services	Total Usage
Customer Type C Commercial Breakdown	0 To 0	11	0
	1 To 999,999,999	37	750,020
Customer Type C Commercial Totals		48	750,020
Customer Type E Commercial/Non-Tax	1 To 999,999,999	14	20,910
Customer Type E Commercial/Non-Tax		14	20,910
Customer Type I Industrial Breakdown	1 To 999,999,999	3	1,264,090
Customer Type I Industrial Totals		3	1,264,090
Customer Type R Residential Breakdown	0 To 0	68	0
	1 To 999,999,999	1,405	5,373,666
Customer Type R Residential Totals		1,473	5,373,666
Customer Type S Schools Breakdown	1 To 999,999,999	2	971,220
Customer Type S Schools Totals		2	971,220
Grand Totals		1,540	8,379,906

Fire Department - Water Usage Report Form

EXHIBIT 4

KRS 278.170(3) 807 KAR 5:095 Section 9

Any city, county, urban-county, charter county, fire protection district, or volunteer fire protection district ("User") may withdraw water from the utility's water distribution system for the purpose of fighting fires or training firefighters at no charge on the condition that it maintains estimates of the amount of water used for fire protection and training during the calendar month and reports the amount of this water usage to the utility no later than the 15th day of the following calendar month.

Any city, county, urban-county, charter county, fire protection district, or volunteer fire protection district that withdraws water from the utility's water distribution system for fire protection or training purposes and fails to submit the required report on water usage in a timely manner shall be assessed the cost of this water.

A non-reporting user's usage shall be presumed to be 0.3 percent of the utility's total water sales for the calendar month.

(name of Fire Department)

Month
Year

(name of Water System)

unit conversion factor	29.83
coefficient value	0.95

Date	Hydrant Location and/or Number	Reason Operated	Total Minutes Operated	Nozzle size (typically 2.5 or 4.5)	Pitot Pressure	GPM	Gallons Flowed	Estimated Flow if Pitot not used

Total Gallons for Month

LINE BREAK LOGBOOK

*Required by 401 KAR 8:150, Section 4(2)

*DATE	
*LOCATION OF BREAK	
*TIME IT WAS DISCOVERED	
*POPULATION AFFECTED	
*LENGTH OF TIME TO REPAIR	
*DATE & TIME CL2 RESIDUALS DETECTED	
*DATE & TIME BACT SAMPLES TAKEN	
<i>TURNED WATER OFF (yes or no)</i>	
<i>BWA REQUIRED (yes or no)</i>	
<i>OTHER COMMENTS</i>	

*DATE	
*LOCATION OF BREAK	
*TIME IT WAS DISCOVERED	
*POPULATION AFFECTED	
*LENGTH OF TIME TO REPAIR	
*DATE & TIME CL2 RESIDUALS DETECTED	
*DATE & TIME BACT SAMPLES TAKEN	
<i>TURNED WATER OFF (yes or no)</i>	
<i>BWA REQUIRED (yes or no)</i>	
<i>OTHER COMMENTS</i>	