# COMMONWEALTH OF KENTUCKY BEFORE THE PUBLIC SERVICE COMMISSION

#### In the Matter of:

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

#### **RESPONSE OF**

Southern Madison Water District

TO

COMMISSION'S REQUEST FOR INFORMATION

DATED DECEMBER 18, 2018

FILED: January 14, 2018

# COMMONWEALTH OF KENTUCKY BEFORE THE PUBLIC SERVICE COMMISSION

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# CERTIFICATION OF RESPONSE OF Southern Madison Water District TO COMMISSION'S REQUEST FOR INFORMATION

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

Date: 1-14-19

Tómmý Bussell / Manager

Southern Madison Water District

#### CASE NO. 2018-00394

#### Response to Commission's Request for Information

#### **Question No. 1**

- 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. We at SMWD have our system divided into separate zone with a master meter feeding each zone that we read daily and we know what the average should be in each zone if the usage has went up we start looking for leaks. We read all our customers' meters monthly and then we compare that usage to what we have purchased from our supplier for that month to get our water loss before any breaks, hydrant flushing, tank overflow, fire department usage etc. is taken off to get our unaccounted for water loss.
  - a. SMWD uses the monthly water loss report spreadsheet that was a product of WKU and KRWA and also we have used the monthly water use report approved by EPPC/DEP/DOW, KY PSC, and KRWA.
  - b. Copy's included

# c. KRWA

#### CASE NO. 2018-00394

#### Response to Commission's Request for Information

#### Question No. 2

#### Responding Witness: Tommy Bussell

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. Water Statistics

- 1. Tracking water produced, Purchased, & Distributed
- 2. Water Produced N/A to SMWD
- 3. Total amount Purchased from Supplier
- 4. Total amount Purchased from Supplier
- 5. N/A
- 6. Total of all water sold to SMWD customers
- 7. Total sold to Residential customers
- 8. Total sold to Commercial customers
- 9. Total sold to Industrial customers
- 10. Total sold to Bulk loading stations N/A to SMWD at this time
- 11. Total sold to Wholesale customers N/A to SMWD at this time
- 12. Total sold to Public Authorities
- 13. Other sales N/A
- 14. Total of all water sold to all types of customers
- 15. N/A
- 16. Water used that might not be metered
- 17. Water used for distribution or water plant
- 18. Water used at wastewater plant N/A for SMWD
- 19. Water used for system flushing
- 20. Water used by fire departments
- 21. All water for other usage
- 22. Total of all other water used
- 23. N/A
- 24. Water Loss
- 25. Water lost due to tank overflow

- 26. Repaired line breaks with estimated water loss
- 27. Repaired line leaks with estimated water loss
- 28. Leaks due to excavation damages
- 29. Some stealing water
- 30. Unknown Loss
- 31. Total of all water lost for any reason
- 32. N/A
- 33. Total water sales + other water used + Total line lost must equal total water Purchased
- 34. N/A
- 35. Water loss percentage for rate making purposes
- 36. Total line loss divided by total water purchased equals line lost percentage

#### APPENDIX A

APPENDIX TO AN ORDER OF THE KENTUCKY PUBLIC SERVICE COMMISSION IN CASE NO. 2018-00394 DATED DEC 1 8 2018

# **PUBLIC SERVICE COMMISSION**

## **Monthly Water Loss Report**

Water L	Itility:
For the	Month of: Year:
LINE #	ITEM GALLONS (Omit 000's)
1	WATER PRODUCED, PURCHASED, & DISTRIBUTED
2	Water Produced
3	Water Purchased
4	TOTAL PRODUCED AND PURCHASED -
5	
6	WATER SALES
7	Residential
8	Commercial
9	Industrial
10	Bulk Loading Stations
11	Wholesale
12	Public Authorities
13	Other Sales (explain)
14	TOTAL WATER SALES -
15	
16	OTHER WATER USED
17	Utility and/or Water Treatment Plant
18	Wastewater Plant
19	System Flushing
20	Fire Department
21	Other Usage (explain)
22	TOTAL OTHER WATER USED -
23	
24	WATER LOSS
25	Tank Overflows
26	Line Breaks
27	Line Leaks
28	Excavation Damages
29	Theft
30	Unknown Loss
31	TOTAL LINE LOSS -
32 33 34	Note: Line 14 + Line 22 + Line 31 MUST Equal Line 4
35	WATER LOSS PERCENTAGE FOR RATEMAKING PURPOSES
36	(Line 31 divided by Line 4) 0.00%

#### CASE NO. 2018-00394

# Response to Commission's Request for Information

### Question No. 3

- 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. No Questions at this time.

#### CASE NO. 2018-00394

# Response to Commission's Request for Information

# Question No. 4

- 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. No Suggestions or Improvement at this time.

#### CASE NO. 2018-00394

# Response to Commission's Request for Information

#### Question No. 5

- 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. No Questions at This Time

CASE NO. 2018-00394

# Response to Commission's Request for Information

## Question No. 6

- 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. No Concerns at this Time

# CASE NO. 2018-00394

# Response to Commission's Request for Information

#### Question No. 7

- 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. Yes I believe it is reasonable, proper and appropriate for all utilities to use the same form.

#### **CERTIFICATE OF SERVICE**

In accordance with 807 KAR 5:001, Section 8, I certify that Southern Madison 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 14, 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.

TBissell
[Name]

# **Monthly Water Loss Report**

	Water Company: Southern Mad	ison Water District
	For the Month of:	Year:
	r Produced this month: r Purchased this month:	gallons gallons
A: Total	Water Produced and Purchased =	0 gallons
Sold:	Residential Commercial Water Salesman  Sold =	gallons gallons gallons
	ence: (Produced+Purchased) - Sold =	0 gallons 0 gallons
	ference =	#DIV/0! % total water loss
Gallo	ns of Water Accounted For: Breaks (Estimated Total) Hydrant Flushing Storage Tank Overflow Water Treatment Plant Use Wastewater Treatment Plant Use Fire Department Use Net Computer Adjustment + / - Other	gallons
Loss	Gallons Accounted For = : Unaccounted-for Water: (B-C) = ss: Unaccounted-for Water: (B-C)/A %=	0 gallons 0 gallons #DIV/0! % unaccounted - for loss
	ons / Day Loss =	#DIV/0! gallons/day

This spreadsheet is a product of the Technical Assistance Center for Water Quality at Western Kentucky University and the Kentucky Rural Water Association. Feel free to contact us at (270) 745-5948 or at http://water.wku.edu/. This spreadsheet may be freely distributed. Please let us know if you use it, like it, or have suggestions for improvement!

# Monthly Water Use Report

Water Utility:

For the Month of:

January

Year:

		GALLONS	
LINE#	ITEM	(Omit 000's)	%
1	WATER PRODUCED or PURCHASED		77 Table 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
2	Water Produced		
3	Water Purchased		
4	TOTAL PRODUCED AND PURCHASED	)	
	WATER SOLD		
5	Residential		
6	Commercial		
7	Industrial		
8	Bulk Loading Stations		
9	Wholesale		
10	Other Sales (explain)		
		<del>-</del>	
11	TOTAL WATER SOLD		
12	TOTAL WATER NOT SOLD		
	BREAKDOWN OF UNSOLD WATER USED		
13	Utility and/or Water Treatment Plant		
14	Wastewater Plant		
15	System Flushing		
16	Fire Department		
17	Other (explain)	-	
	TOTAL UNSOLD WATER USED	<del></del>	
	BREAKDOWN OF WATER LOST		
18	Tank Overflows		
19	Line Breaks		
20	Other Loss		
	TOTAL WATER LOST	-	

#### "OTHER LOSS" FLOW RATE CALCULATION:

"Other Loss"
"Other Loss"
"Other Loss"
"Other Loss"
Number of Days in Period
"Other Loss" per Day (1,000's gallons per Day)
"Other Loss" per Minute (GPM)





This form approved by: EPPC/DEP/DOW, KY PSC, KRWA