COMMONWEALTH OF KENTUCKY BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

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

RESPONSE OF

CUMBERLAND COUNTY WATER DISTRICT

TO

COMMISSION'S REQUEST FOR INFORMATION

DATED DECEMBER 18, 2018

FILED JANUARY 14, 2019

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CERTIFICATION OF RESPONSE OF

CUMBERLAND COUNTY WATER DISTRICT TO

COMMISSION'S REQUEST FOR INFORMATION

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

DATE: 1/14/2019

Matthew Dyer, General Manager Cumberland County Water District

CASE NO. 2018-00394

Response to Commission's Request for Information

Question No. 1

- Question 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.
- Response 1. Cumberland County Water District (CCWD), reads master meters daily and customer meters monthly. The master meters readings are reconciled to the wholesale providers monthly bills. Master meter readings provide the total amount of water in gallons purchased from all suppliers. Water loss is calculated monthly by using the Code Summary Report generated by the CCWD billing system of total gallons sold to all customers. The difference between water sold and water purchased after adjusting for flushing, fire department usage, line break loss and other usages as identified on Reporting Form is water loss.
 - a. Cumberland County Water District uses the Monthly (Annual) Water Loss Report (Excel Workbook).
 - b. See sample Monthly Water Loss Report (Workbook sheet) labeled as Exhibit 1.
 See sample Code Summary Report as Exhibit 2.
 See sample Flushing record as Exhibit 3.
 See sample Monthly Fire Dept Usage Report as Exhibit 4.
 See sample Daily Master Meter Reading sheet as Exhibit 5
 See sample Leak Log as Exhibit 6.

c. Monthly Water Loss Report (Workbook sheet) source is Kentucky Rural Water Association.

Code Summary Report is generated United Systems billing software.

And all other forms are generated in-house by CCWD staff.

CASE NO. 2018-00394

Response to Commission's Request for Information

Question No. 2

- Question 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.
- Response 2. Cumberland County Water District (CCWD) purchases and produces all of the water it sells. CCWD understands the Water Statistics (Ref Page: 30) of the Annual Report.
 - 1. This is a section heading, "Water Produced, Purchased and Distributed"
 - 2. CCWD does not produce water therefore leaves blank.
 - 3. CCWD enters total gallons of water purchased omitting 000's
 - 4. This number is the total gallons of water the utility produced and purchased
 - 5. There is not a Number 5 (skipped number) on Water Statistics (Ref Pg 30) print copy
 - 6. This is a section heading, "Water Sales: "
 - 7. Using reports generated by billing system, CCWD enters Residential total usage in gallons
 - 8. Using reports generated by billing system, CCWD enters Commercial total usage in gallons
 - 9. Using reports generated by billing system, CCWD enters Industrial total usage in gallons
 - 10. CCWD does not have any Bulk Loading Stations.
 - 11. CCWD does not resale water to any wholesale customers
 - 12. Any water sold that cannot be categorized within Nos. 7 11, total gallons input here
 - 13. Total of all Water Sales (in gallons) calculated from all categories (Nos. 7-12)
 - 14. There is not a Number 14 (skipped number) on Water Statistics (Ref Pg 30) print copy
 - 15. This is a section heading, "Other Water Used"
 - 16. CCWD does not have a Water Treatment Plant therefore this is left blank

- 17. CCWD does not have a Wastewater treatment plant
- 18. CCWD routinely flushes to maintain safe drinking water standards. Flushing calculations and records are maintained. Total gallons used for flushing entered.
- 19. CCWD enters Fire Department usage from Monthly Fire Dept. Usage Reports
- 20. Other Water Usage, if not categorized above, is recorded and entered here on this line.
- 21. Total of Other Water Used (in gallons) calculated from all categories (Nos. 16-20)
- 22. There is not a Number 22 (skipped number) on Water Statistics (Ref Pg 30) print copy
- 23. This is a section heading, "Water Loss: "
- 24. Gallons of water loss due to an annual total of any Tank Overflow entered (records are maintained, if applicable)
- 25. CCWD does not use this line.
- 26. Gallons of water loss due to Known Line Leaks that have been located/repaired. A Leak Log is maintained.
- 27. CCWD enters other leakage here.
- 28. Total Line Loss (water in gallons) calculated from all categories (Nos. 24-27) and entered
- 29. There is not a Number 29 (skipped number) on Water Statistics (Ref Pg 30) print copy
- 30. There is not a Number 30 (skipped number) on Water Statistics (Ref Pg 30) print copy
- 31. There is not a Number 31 (skipped number) on Water Statistics (Ref Pg 30) print copy
- 32. This is a section heading, "Water Loss Percentage"
- 33. The Water Loss Percentage is calculated based upon data entry of Line 28, "Total Line Loss" divided by Line 4, "Total Produced and Purchased"

CASE NO. 2018-00394

Response to Commission's Request for Information

Question No. 3

- Question 3. State any questions you have regarding how to use the updated Commission Form described and attached as Appendix A to this Order.
- Response 3. Cumberland County Water District (CCWD) has no questions regarding the use of the updated Commission Form attached as Appendix A to the Order.

CASE NO. 2018-00394

Response to Commission's Request for Information

Question No. 4

- Question 4. State any suggestions or improvements you have for the updated Commission Form described and attached as Appendix A to this Order.
- Response 4. Cumberland County Water District (CCWD) has no suggestions or improvements to offer for the updated Commission Form described and attached as Appendix A to the Order.

CASE NO. 2018-00394

Response to Commission's Request for Information

Question No. 5

- Question 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.
- Response 5. Cumberland County Water District (CCWD) has no questions regarding how the information in the updated Commission Form described and attached as Appendix A to the Order is to be incorporated into annual reports.

CASE NO. 2018-00394

Response to Commission's Request for Information

Question No. 6

- Question 6. State any concerns you have regarding the use of the updated Commission Form described and attached as Appendix A to this Order.
- Response 6. Cumberland County Water District (CCWD) has no concerns regarding the use of the updated Commission Form described and attached as Appendix A to the Order.

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Response to Commission's Request for Information

Question No. 7

- Question 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.
- Response 7. Cumberland County Water District (CCWD) believes 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 the Order. CCWD believes it is a good business practice for all water utilities to track all sources of non-revenue water.

CASE NO. 2018-00394

Response to Commission's Request for Information

CERTIFICATE OF SERVICE

In accordance with 807 KAR 5:001, Section 8, I certify that Cumberland County 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.

Matthew Dyer, General Manager Cumberland County Water District

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Exhibit 1

Water Use Report

Water Uti	ity: Cumberland County Water District PWSID	: KY0290271
For the M	onth of: Year:	
1	PURCHASE/ALBANY COST PER THOUSAND	60.44
2	PURCHASE/BURKESVILLE COST PER THOUSAND	\$2.10
4	PURCHADEBURKESVILLE COST FER THOUSAND	\$2.15
		GALLONS
_	WATER PRODUCED or PURCHASED	Increases as a second s
3	Albany purchased water \$0.00	
4	Burkesville purchased water \$0.00	
5 6	Total produced and purchase! Total Cost	0
The state of the s	WATER SOLD	
7	Residential	
8	Commercial	A STATE OF THE STA
9	Industrial	TO THE PROPERTY OF THE PARTY OF
10	Bulk Loading Stations	
11	Wholesale	THE RESERVE OF THE PARTY OF THE
12	Other Sales (explain) DHSRP	
13	TOTAL WATER SOLE	• 0
14	TOTAL WATER NOT SOLE	0
	······································	
	BREAKDOWN OF WATER USAGE	
15	Water Treatment Plant	
16	Wastewater Treatment Plant	
17	System Flushing	
18	Fire Department Usage	
19	Other Usage (explain)	
20	TOTAL USAGE	± n
21	WATER LOSS PERCENTAGE FOR	
	BREAKDOWN OF WATER LOST	Same a second se
22	Tank Overflows	
23	Excavation Breaks	
24	Repaired Line Breaks	
25	Unknown Loss	0
20	Control of the contro	v
26	TOTAL WATER NOT SOLD OR USED	•
27	COST OF WATER NOT SOLD OR USED	· ·
ALERNA PROPERTY.	· · · · · · · · · · · · · · · · · · ·	
	"UNKNOWN LOSS" FLOW RATE AND COST:	
28	"Unknown Loss	" 0
29	% "Unknown Loss	
30	Number of Days in Period	
31	"Unknown Lose" per Day (Gallons per Day) 0
32	"Unknown Loss" per Minute (GPM) 0.00
33	"Unknown Loss" Cost for Monti	ı (

Kentucky Rural Water Association

Cumberland Co Water District Code Summery

Service Type
Cycle
Account Record

Date Range

All Service Types 1-Cycle1 All Accounts Current Billing

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Break Report Down By Customer Type

Breakdown Addons By Service Type Include Inactive Accounts Inactive Accounts Inactive Accounts To Include Inactive Accounts With Americ Shown in Billing Use Reading Factor

		rheiskt, syritain,	ung ractor	₩					
				Print Ad	d On Usage				
Service	Rate	Number Active	Number Inactive	Charges	Arrears	Total	Unago	Adjustment Amount	Adjusted Total
***** Custor	ner Type A UNKNOWN	ésés#	11-12		, , , , , , , , , , , , , , , , , , ,				
WA Water	01 Residential 5/8" -WA	. 1	0	\$69.73	\$0.00	\$69.73	7,800	***************************************	H-t-
Local Tax	01 School Tax	1	Ó	\$2.09	\$0:00	\$2.09			1.4
Net Amount	:	0	ø	\$71.62	\$0.00	\$71.82			··········
Penatty	01 Penalty	1	0	\$6.97	50.00	\$6.97			
Gross Amou	urtt	0 -	O	\$78.79	\$0.00	\$78.79			
Total Amou	nt	0	Ò	\$78.79	\$0.00	\$78.79	7,800		TAX
***** Guaton	nar Type C Commercial	iririna							
WA Weter	01 Residential 5/8" -WA	, 1	O	\$42,70	\$0.00	\$42.70	3,900		
	02 Commercial 5/8" -WE	18	0	\$902.66	\$0.00	\$902,85			
	04 Commercial 1" - WD	2	0	\$2,555.29	\$0.00	\$2,555.29	442,400		
	07 5/8x9/4 SCWD - W4	3	Q	\$104.37	\$2.82	\$107.19	4,600	**************************************	
	08 5/8x3/4 Comm - W2	15	3	\$827.39	\$126.49	\$753.88			
	10 1" Commercial - W4	3	0	\$3,756,69	\$0.00	\$3,788.69	649,900		
	14 2" Commercial - W8	2	¢	\$574:39	\$0.00	\$574.39	89,200		·
		44	3	\$8,568,48	\$129,31	\$8;694.79	1,313,700		
ÇŞ Çonv. Sv	c. 03 LZ	٥	1	30:00	\$50.00	\$50.00			
SV Service C	Ch 08 Service Call / Inv.	0	1	30.00	\$35.00	\$35,00			
Loopi Tax	Ot School Tax	44	3	\$256.82	\$0.00	\$256.82			
State Tax	Of Sales Tax	39	3	\$137.21	\$0.00	\$137.21			
Net Amount		a	0	\$8,959.51	\$214.31	\$9,173,82			
Penatty	01 Penalty	44	3	\$848.62	\$0.00	\$848.62			- W 11 1110 WILLIAM
Gross Amoi	1424	Q	0	\$9,808,13	\$214.31	810,022.44			
Очеграумьл	t	2	0	\$0:00	(\$146.41)	(\$146.41)			
Total Amous	nt	0	, to	\$9,808.13	\$67.90	\$9,876:03	1,313,700	-	
Custon	nar Type i Industrial ****	RA ·							
WA Water	92 Commercial 5/8" -WE	1	Ó	\$28.16	\$0.00	\$28,16	0		
	04 Commercial 1" - WD	1	O	\$117.70	\$0.00	\$117,70	15,900		
	08 5/8x3/4 Comm - W2	3	O.	\$124.06	\$0.00	\$124.06	7,500		
	us!	5	0	\$269,92	\$0.00	\$269.92	23,400		
Local Tax	01 School Tax	5	Q	\$8,08	\$0.00	80.68			
State Tax	01 Sales Tax	5	0	\$16,19	\$0.00	\$16.19			
Net Amount		0	0	\$294.19	\$0.00	\$294.19			· · · · · · · · · · · · · · · · · · ·
Penalty	01 Penalty	5	0	\$27.00	\$0.00	\$27.00		-	

Friday, December 21, 2018 10:03 AM

Phyle 1 Of 3

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CUMBERLAND COUNTY WATER DISTRICT FLUSHING LOG

Location of flush:	- Inches		P			
Start time:	Free chlorine	*	Total chlorine:			
Date:	Flush closed by:					
Stop time:	Free chlorine	•	Total chlorine:			
Reason flushing: Tas	te/OdorLine	e Break	DBP Maintenance			
Nozzle or Pipe size:	PSI:	_ Estimate	d GPM:			
Total gallons flushed	7	zumili i i rawiterzumidas				
Comments:						
	(11111111111111111111111111111111111111		ygalanian na n			
			THE			
A STATE OF THE STA		T THE THE THE THE TOURS AND AND A SECOND				
	The second of th		Y VALUE VIII			

	WOTES:									
		TOTAL USAGE FOR THE ENTIRE MONTH						LOCATION OF HYDRANT	HIMOW	MARROWBONE
133 Lower River Street Burkesville, KY 42717 SUBMITTED BY:	Please return this form by the 5th o	NTIRE MONTH						DATE	YEAR	MARROWBONE FRE DEPARTMENT WATER USAGE
 8	Please return this form by the 5th of each following month to Cumberland County Water District Phone: 770.464.3133							GALLONS USED		WATER USAGE

01/14/2019 09:31

Exhibit 5

CCWD

PLANT MASTER N	AETER - 000	CEDAR CREEK M	ÉTER - 00
	<i>j</i>	Yesterday	
Total	4	Total	,
GPM		GPM	
5QUTH 61 PIT - 00	00	ZINC MINE METE	R • 00

Yesterday		Yesterday	
ALLE -		GPM	/
<u></u>		9(1)(1)	
SOUTH 61 PUMP	STATION - 00	ALBANY MASTER	METER - 000
		Today	, , , , , , , , , , , , , , , , , , , ,
		Yesterday	
1 -4-1		!	,
		(ora)	
		COL 184	
JOE SCOTT RIDGE-	000	NEW 1880 MAST	ER METER - 00
~ _ →			/
		Yesterday	
GPM	/	CD14	. /
		OPPV)	
WHITES BOTTOM	/ ID# 11934183 - 00	NORTH CHI ORINE RE	SIDUAL @
**************************************		LOCATION	
Yesterday		TOTAL	/FREE
		10171	_/ Filetti manaramana
GPM		SOUTH OHLORING DE	SIDUAL @
	- MANIFESTER LANDING	LOCATION	
HWY 953 METER /	ID# 12957650 - 00	TOTAL	
	12337830-00	TOTAL	_ / FREE
		EAST CHI ODINE DEEL	DUAL @
Total		LOCATION	30A4 @
GPM			/ CDCE
GP (V)		TOTAL	/ PREE
JAMES LONG METE	ER - 00	WEST CHLORINE RESI	DUAL @
, , , , , , , , , , , , , , , , , , ,		LOCATION	
Yesterday		TOTAL	/ FREF
Total		14176	/ Title
GPM		NOTES	
	, I HIGHWOOD	NO 153	
BILLY COOT METER	R - 00	THE TENED OF THE PERSON OF THE	WWALLELD
oday		THE THE STREET AND ADDRESS OF THE PARTY OF T	
/esterday		THE PERSON NAMED IN COLUMN TO A STREET OF THE PERSON NAMED IN COLUMN TO	
Total			
5PM			***************************************
		1	MATTER AND

HIGHWAY 1206 N	NETER - O
Today	
Yesterday	
Total	J
GPM	
GARRETT CREEK	ID# 12957648- 00
Today	
Yesterday	/
Total	/
GPM	
WEST 90 METER	/ ID# 12957649 - 00
Today	
Yesterday	
iotai	/
GPM	
EAST 90 METER /	ID# 12957647 - 00
Today	
Yesterday	
Total	
GPM	
STATE PARK MAST	ER METER
Today	
Yesterday	/
Total	
mma s	,

CUMBERLAND COUNTY WATER DISTRICT LEAK REPAIR LOG

Date leak was repa	alred:	
Location of leak:		
Time leak was disc	overed: How	ong to repair:
	Number of custo	
	epair leak:	
Size of hole:	Length of crack:	_ Width of crack:
	mate time leaking:	
Flushed by:	Date:	Time:
Chlorine Residual:	Free /	Total
	Date	
Comments:		
		THE TRANSPORT OF THE PERSON OF
	The state of the s	