COMMOMWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

ELECTRONIC INVESTIGATION
INTO THE MEASURING,
RECORDING, AND REPORTING OF
WATER LOSS BY KENTUCKY’S
JURISDICTIONAL WATER
UTILITIES

RESPONSE OF
Knox County Utility Commission

TO

COMMISSION’S REQUEST FOR INFORMATION

DATED DECEMBER 18, 2018

FILED: January 14, 2019
COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

ELECTRONIC INVESTIGATION
INTO THE MEASURING,
RECORDING, AND REPORTING OF
WATER LOSS BY KENTUCKY’S JURISDICTIONAL WATER UTILITIES

CASE NO. 2018-00394

CERTIFICATION OF RESPONSE OF KNOX COUNTY UTILITY COMMISSION
TO COMMISSION’S REQUEST FOR INFORMATION

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

Date: 1/14/2019

Marshall Ramey, Superintendent
Knox County Utility Commission
Response to Commission’s Request for Information

Question No. 1

Responding Witness: Marshall Ramey

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. Knox County Utility Commission reads master meters and customer meters monthly. The readings from the monthly master meter readings are then used from the same day the customer's monthly readings are done to calculate water loss. The monthly flushing reports and monthly fire department usage reports are then entered on the PSC monthly water loss report.

a. Knox County Utility Commission uses the approved PSC water loss spreadsheet.

b. See Attached Appendix A

c. Public Service Commission
Response to Commission’s Request for Information

Question No. 2

Responding Witness: Marshall Ramey

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.


1. Knox County Utility Commission uses line 2 for total water produced at our Class II water treatment plant.

2. Knox County Utility Commission uses line 3 for total water purchased.

3. Knox County Utility Commission uses line 7 for residential water sales.

4. Knox County Utility Commission uses line 8 for commercial water sales.

5. Knox County Utility Commission uses line 12 for water sales that are tax exempt.

6. Knox County Utility Commission uses line 13 for total water sales.

7. Knox County Utility Commission uses lines 16, 18, 19 and 20 for water used that is accounted for.

8. Knox County Utility Commission uses line 21 for total water used that is accounted for.

9. Knox County Utility Commission uses lines 25 and 26 for water used that is not accounted for.

10. Knox County Utility Commission uses line 28 for total water used that is not accounted for.
KNOX COUNTY UTILITY COMMISSION

CASE NO. 2018-00394

Response to Commission’s Request for Information

Question No. 3

Responding Witness: Marshal Ramey

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. Knox County Utility Commission does not have any questions regarding the updated Commission Form described or about attached appendix A.
KNOX COUNTY UTILITY COMMISSION

CASE NO. 2018-00394

Response to Commission’s Request for Information

Question No. 4

Responding Witness: Marshall Ramey

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. Knox County Utility Commission has no suggestions or improvements for the updated Commission Form or for attached appendix A.
KNOX COUNTY UTILITY COMMISSION  
CASE NO. 2018-00394  
Response to Commission’s Request for Information

Question No. 5

Responding Witness: Marshall Ramey

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. Knox County Utility Commission has no questions regarding the information in the updated Commission Form and attached appendix A, to how it is to be incorporated into annual reports.
KNOX COUNTY UTILITY COMMISSION

CASE NO. 2018-00394

Response to Commission’s Request for Information

Question No. 6

Responding Witness: Marshall Ramey

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. Knox County Utility Commission has no concerns regarding the use of the updated Commission Form or Appendix A.
KNOX COUNTY UTILITY COMMISSION

CASE NO. 2018-00394

Response to Commission’s Request for Information

Question No. 7

Responding Witness: Marshall Ramey

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. Knox County Utility Commission believes it is reasonable, proper, and appropriate for the Commission to require Water Utilities to maintain and use the updated Commission Form and attached Appendix A. We believe water loss is an important part of running an efficient water district and can have many effects on the district, including lost potential revenue. Excessive water loss can also cause higher rates for consumers to the ultimate failure of a water utility. Moreover, to the extent excessive water loss is the result of poor infrastructure, it may reflect the potential for health risks from contaminants infiltrating the water system.
CERTIFICATE OF SERVICE

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

Marshall Ramey, Superintendent
Knox County Utility Commission
## PUBLIC SERVICE COMMISSION

### Monthly Water Loss Report

**Water Utility:** Knox County Utility Commission  
**For the Month of:** October  
**Year:** 2018

<table>
<thead>
<tr>
<th>LINE #</th>
<th>ITEM</th>
<th>GALLONS (Omit 000's)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>WATER PRODUCED, PURCHASED &amp; DISTRIBUTED</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Water Produced</td>
<td>8,330</td>
</tr>
<tr>
<td>3</td>
<td>Water Purchased</td>
<td>7,945</td>
</tr>
<tr>
<td>4</td>
<td>TOTAL PRODUCED AND PURCHASED</td>
<td>16,275</td>
</tr>
<tr>
<td>5</td>
<td>WATER SALES</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Residential</td>
<td>10,463</td>
</tr>
<tr>
<td>7</td>
<td>Commercial</td>
<td>451</td>
</tr>
<tr>
<td>8</td>
<td>Industrial</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Bulk Loading Stations</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Wholesale</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Other Sales</td>
<td>Tax Exempt</td>
</tr>
<tr>
<td>12</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>TOTAL WATER SALES</td>
<td>12,170</td>
</tr>
<tr>
<td>14</td>
<td>OTHER WATER USED</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>Utility and/or Water Treatment Plant</td>
<td>162</td>
</tr>
<tr>
<td>16</td>
<td>Wastewater Plant</td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>System Flushing</td>
<td>850</td>
</tr>
<tr>
<td>18</td>
<td>Fire Department</td>
<td>825</td>
</tr>
<tr>
<td>19</td>
<td>Other</td>
<td>Computer Adjustments &amp; Misc.</td>
</tr>
<tr>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>21</td>
<td>TOTAL OTHER WATER USED</td>
<td>2,238</td>
</tr>
<tr>
<td>22</td>
<td>WATER LOSS</td>
<td></td>
</tr>
<tr>
<td>23</td>
<td>Tank Overflows</td>
<td></td>
</tr>
<tr>
<td>24</td>
<td>Line Breaks</td>
<td>1,500</td>
</tr>
<tr>
<td>25</td>
<td>Line Leaks</td>
<td>367</td>
</tr>
<tr>
<td>26</td>
<td>Other</td>
<td></td>
</tr>
<tr>
<td>27</td>
<td></td>
<td></td>
</tr>
<tr>
<td>28</td>
<td>TOTAL LINE LOSS</td>
<td>1,867</td>
</tr>
<tr>
<td>29</td>
<td>Note: Line 13 + Line 21 + Line 28 Must Equal Line 4</td>
<td></td>
</tr>
<tr>
<td>30</td>
<td>WATER LOSS PERCENTAGE</td>
<td>Unaccounted-For Water (Line 28 divided by Line 4)</td>
</tr>
</tbody>
</table>

Note: Line 13 + Line 21 + Line 28 Must Equal Line 4