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

RESPONSE OF
North Nelson Water District

TO
COMMISSION’S REQUEST FOR INFORMATION
DATED DECEMBER 18, 2018

FILED: January 16, 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  
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CASE NO. 2018-00394

CERTIFICATION OF RESPONSE OF North Nelson Water District TO  
COMMISSION’S REQUEST FOR INFORMATION

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

Date: 1/16/19  

Colin Cissell, Manager  
North Nelson Water District
North Nelson Water District

CASE NO. 2018-00394

Response to Commission's Request for Information

Question No. 1

Responding Witness: Colin Cissell

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. North Nelson Water District (NNWD) uses its Loss-Gain report to track purchased water, sold water, water used for flushing, and water used by the fire departments. Additionally, NNWD reads its master meters three times per week to check for any unusually high usage.

   a. NNWD uses the PSC water loss report and NNWD's Loss-Gain report.

   b. See appendix A

   c. Public Service Commission's water loss report
North Nelson Water District

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Response to Commission's Request for Information

Question No. 2

Responding Witness: Colin Cissell

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. Lines 1-4 of the Water Statistics page is the amount of water that is purchased.

Lines 6-13 of the Water Statistics page is the amount of water sold to NNWD’s customers.

Lines 15-21 of the Water Statistics page is other water used such as flushing and fire department usage that is factored into NNWD water loss.

Lines 23-28 of the Water Statistics page is water loss due to line leaks, line breaks, tank overflows.

Lines 32-33 of the Water Statistics page is how the water loss percentage is calculated and the annual water loss percentage.
North Nelson Water District

CASE NO. 2018-00394

Response to Commission’s Request for Information

Question No. 3

Responding Witness: Colin Cissell

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. NNWD does not have any questions at this time.
North Nelson Water District

CASE NO. 2018-00394

Response to Commission's Request for Information

Question No. 4

Responding Witness: Colin Cissell

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. NNWD suggests that each pressure zone should be tracked instead of the system as a whole.
North Nelson Water District

CASE NO. 2018-00394

Response to Commission’s Request for Information

Question No. 5

Responding Witness: Colin Cissell

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. NNWD has no questions at this time.
North Nelson Water District

CASE NO. 2018-00394

Response to Commission's Request for Information

Question No. 6

Responding Witness: Colin Cissell

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. NNWD does not have any concerns at this time.
North Nelson Water District

CASE NO. 2018-00394

Response to Commission’s Request for Information

Question No. 7

Responding Witness: Colin Cissell

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. NNWD does not believe it is an unreasonable request.
CERTIFICATE OF SERVICE

In accordance with 807 KAR 5:001, Section 8, I certify that North Nelson 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.

Colin Cissell
Appendix A
## Monthly Water Loss Report

### Public Service Commission

- **Water Utility:** NORTH NELSON WATER DISTRICT
- **For the Month of:** January  
  **Year:** 2018

<table>
<thead>
<tr>
<th>Water Produced, Purchased &amp; Distributed</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Water Produced</td>
<td></td>
</tr>
<tr>
<td>Water Purchased</td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL PRODUCED AND PURCHASED</strong></td>
<td>24,858,000</td>
</tr>
</tbody>
</table>

### Water Sales

- **Residential**
- **Commercial**
- **Industrial**
- **Bulk Loading Stations**
- **Wholesale**
- **Other Sales**

<table>
<thead>
<tr>
<th><strong>TOTAL WATER SALES</strong></th>
<th>89.2%</th>
</tr>
</thead>
</table>

### Other Water Used

- **Utility and/or Water Treatment Plant**
- **Wastewater Plant**
- **System Flushing**
- **Fire Department**
- **Other**

<table>
<thead>
<tr>
<th><strong>TOTAL OTHER WATER USED</strong></th>
<th>3.7%</th>
</tr>
</thead>
</table>

### Water Loss

- **Tank Overflows**
- **Line Breaks**
- **Line Leaks**
- **Other**

<table>
<thead>
<tr>
<th><strong>TOTAL LINE LOSS</strong></th>
<th>7.2%</th>
</tr>
</thead>
</table>

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

### Water Loss Percentage

- **Unaccounted-For Water** (Line 28 divided by Line 4)

---

*Note: The table and calculations are based on the information provided in the document.*
# Loss - Gain
## July-18

<table>
<thead>
<tr>
<th>READ</th>
<th>4,686</th>
</tr>
</thead>
<tbody>
<tr>
<td>EST.</td>
<td>8</td>
</tr>
<tr>
<td>TOTAL</td>
<td>4,694</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Purchased</th>
<th>Sold</th>
<th>Loss</th>
<th>Gain</th>
<th>Flushing</th>
<th>Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Whitesides Rd.</td>
<td>5,071,000</td>
<td>4,105,000</td>
<td>966,000</td>
<td>685,000</td>
<td>200,000</td>
<td>6/13-7/13</td>
</tr>
<tr>
<td>Louisville Rd.</td>
<td>2,793,000</td>
<td>2,718,000</td>
<td>75,000</td>
<td>75,000</td>
<td>20,000</td>
<td>6/11-7/11</td>
</tr>
<tr>
<td>Ben Irvin</td>
<td>4,945,000</td>
<td>4,874,200</td>
<td>70,800</td>
<td>70,800</td>
<td>25,000</td>
<td>6/18-7/17</td>
</tr>
<tr>
<td>Browningtown</td>
<td>6,637,000</td>
<td>5,409,300</td>
<td>1,227,700</td>
<td>1,227,700</td>
<td>225,000</td>
<td>5/25-6/26</td>
</tr>
<tr>
<td>Weller Loop</td>
<td>8,600,000</td>
<td>8,153,700</td>
<td>454,300</td>
<td>454,300</td>
<td>50,000</td>
<td>6/4-7/3</td>
</tr>
</tbody>
</table>

|                | 28,054,000 | 25,260,200 | 2,793,800 | 0 | 520,000 |

| Flushing       | 520,000    |
| Fire Dept.     | 12,000     |

2,281,800

8.06% Loss