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
GRAYSON COUNTY 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 ) CASE NO. 2018-00394
KENTUCKY’S JURISDICTIONAL WATER )
UTILITIES )

CERTIFICATION OF RESPONSE OF GRAYSON COUNTY WATER DISTRICT TO
COMMISSION’S REQUEST FOR INFORMATION

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

Date: 1-16-2019

Kevin Shaw, District Manager
Grayson County Water District
GRAYSON COUNTY WATER DISTRICT

CASE NO. 2018-00394

Response to Commission’s Request for Information

Question No. 1

Responding Witness: Kevin Shaw

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. The Grayson County Water District prides itself on its efforts to maintain a low water loss. Every day starts with several staff members reviewing master meter reports from the previous day. Each night at 12:00 a.m. readings from 21 different meter sites are recorded from our SCADA system. Calculations are made of the previous days usage on each source comparing it to the average daily usage for that source last month and also the same period last year. When excess usage is identified in a particular area the staff then goes out and listens on valves to ascertain what may be the source of the high usage.

   a. We have an excel spreadsheet developed that we complete monthly to follow loss by system, source, and area.
### January Water Loss

<table>
<thead>
<tr>
<th>SOURCE</th>
<th>PRODUCED PURCHASED</th>
<th>SOLD</th>
<th>LOSS / (GAIN)</th>
<th>% LOSS BEFORE ACCOUNTED USE</th>
<th>WATER FOR OWN USE</th>
<th>UNACCOUNTED FOR WATER LOSS</th>
<th>THIS MONTH % AFTER ACCOUNTED USE</th>
<th>YTD % LOST</th>
</tr>
</thead>
<tbody>
<tr>
<td>DETENTION CENTER</td>
<td>5,003,000</td>
<td>4,269,130</td>
<td>733,870</td>
<td>14.7%</td>
<td>125,000</td>
<td>608,870</td>
<td>12.2%</td>
<td>12.2%</td>
</tr>
<tr>
<td>HWY 920</td>
<td>1,925,000</td>
<td>1,550,970</td>
<td>374,030</td>
<td>19.4%</td>
<td>50,000</td>
<td>324,030</td>
<td>16.6%</td>
<td>16.6%</td>
</tr>
<tr>
<td>ROCK CREEK</td>
<td>826,000</td>
<td>589,470</td>
<td>(163,470)</td>
<td>-19.6%</td>
<td>0</td>
<td>(163,470)</td>
<td>-19.6%</td>
<td>-19.6%</td>
</tr>
<tr>
<td>CLARKSON</td>
<td>1,449,000</td>
<td>1,206,420</td>
<td>142,580</td>
<td>9.8%</td>
<td>90,000</td>
<td>52,580</td>
<td>3.6%</td>
<td>3.6%</td>
</tr>
<tr>
<td>BIG CLIFTY</td>
<td>1,837,000</td>
<td>1,478,520</td>
<td>358,480</td>
<td>19.5%</td>
<td>140,000</td>
<td>218,480</td>
<td>11.9%</td>
<td>11.9%</td>
</tr>
<tr>
<td>SPURRIER RD (720)</td>
<td>1,675,000</td>
<td>1,507,650</td>
<td>167,350</td>
<td>10.0%</td>
<td>167,350</td>
<td>10.0%</td>
<td>10.0%</td>
<td>10.0%</td>
</tr>
<tr>
<td>HWY 224</td>
<td>848,000</td>
<td>730,790</td>
<td>117,210</td>
<td>13.6%</td>
<td>75,000</td>
<td>42,210</td>
<td>5.0%</td>
<td>5.0%</td>
</tr>
<tr>
<td></td>
<td>13,563,000</td>
<td>11,832,550</td>
<td>1,730,450</td>
<td>12.6%</td>
<td>480,000</td>
<td>1,250,050</td>
<td>9.2%</td>
<td>9.2%</td>
</tr>
<tr>
<td>PETER CAVE SHORES</td>
<td>73,900</td>
<td>106,920</td>
<td>(33,020)</td>
<td>-44.7%</td>
<td>0</td>
<td>(33,020)</td>
<td>-44.7%</td>
<td>-44.7%</td>
</tr>
<tr>
<td>LILAC ROAD</td>
<td>31,300</td>
<td>66,400</td>
<td>(35,100)</td>
<td>-112.1%</td>
<td>0</td>
<td>(35,100)</td>
<td>-112.1%</td>
<td>-112.1%</td>
</tr>
<tr>
<td>HWY 259 NORTH</td>
<td>1,567,000</td>
<td>1,455,330</td>
<td>111,670</td>
<td>7.1%</td>
<td>75,000</td>
<td>36,670</td>
<td>2.3%</td>
<td>2.3%</td>
</tr>
<tr>
<td>HWY 259 SOUTH</td>
<td>2,174,400</td>
<td>1,483,590</td>
<td>690,810</td>
<td>31.8%</td>
<td>80,000</td>
<td>610,810</td>
<td>28.1%</td>
<td>28.1%</td>
</tr>
<tr>
<td></td>
<td>17,409,600</td>
<td>14,945,190</td>
<td>2,464,410</td>
<td>14.2%</td>
<td>635,000</td>
<td>1,829,410</td>
<td>10.5%</td>
<td>10.5%</td>
</tr>
<tr>
<td>WATER PLANT</td>
<td>5,042,928</td>
<td>4,315,230</td>
<td>727,698</td>
<td>14.4%</td>
<td>225,000</td>
<td>502,698</td>
<td>10.0%</td>
<td>10.0%</td>
</tr>
<tr>
<td>WATERPLANT P.M.</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0.0%</td>
<td>0</td>
<td>0</td>
<td>0.0%</td>
<td>0.0%</td>
</tr>
<tr>
<td>ROCK QUARRY</td>
<td>1,226,100</td>
<td>1,046,630</td>
<td>179,470</td>
<td>14.6%</td>
<td>50,000</td>
<td>129,470</td>
<td>10.6%</td>
<td>10.6%</td>
</tr>
<tr>
<td>HWY 187</td>
<td>2,305,400</td>
<td>1,996,960</td>
<td>308,440</td>
<td>13.4%</td>
<td>60,000</td>
<td>249,460</td>
<td>10.8%</td>
<td>10.8%</td>
</tr>
<tr>
<td>RABBIT FLAT</td>
<td>2,424,000</td>
<td>1,688,000</td>
<td>736,000</td>
<td>30.4%</td>
<td>130,000</td>
<td>606,000</td>
<td>25.0%</td>
<td>25.0%</td>
</tr>
<tr>
<td>RAY PRIDDY ROAD</td>
<td>4,852,000</td>
<td>4,391,660</td>
<td>260,340</td>
<td>5.5%</td>
<td>125,000</td>
<td>135,340</td>
<td>2.9%</td>
<td>2.9%</td>
</tr>
<tr>
<td>MILLWOOD</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MOUNTAIN VIEW</td>
<td>1,501,000</td>
<td>1,211,133</td>
<td>289,867</td>
<td>19.3%</td>
<td>95,000</td>
<td>194,867</td>
<td>13.0%</td>
<td>13.0%</td>
</tr>
<tr>
<td>SHORTCREEK</td>
<td>500,000</td>
<td>485,040</td>
<td>14,960</td>
<td>3.0%</td>
<td>0</td>
<td>14,960</td>
<td>3.0%</td>
<td>3.0%</td>
</tr>
<tr>
<td>POST TOUSEY</td>
<td>2,413,000</td>
<td>2,340,400</td>
<td>72,600</td>
<td>3.0%</td>
<td>75,000</td>
<td>(2,400)</td>
<td>-0.1%</td>
<td>-0.1%</td>
</tr>
<tr>
<td>HWY 52 WEST</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HWY 54</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>20,065,428</td>
<td>17,475,043</td>
<td>2,590,385</td>
<td>12.9%</td>
<td>760,000</td>
<td>1,830,385</td>
<td>9.1%</td>
<td>9.1%</td>
</tr>
<tr>
<td></td>
<td>37,475,028</td>
<td>32,420,233</td>
<td>5,054,795</td>
<td>13.5%</td>
<td>1,395,000</td>
<td>3,659,795</td>
<td>9.8%</td>
<td>9.8%</td>
</tr>
</tbody>
</table>

c. It is an in house developed form.
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. We report all water produced and purchased, lines 2 & 3 for a total produced & purchased on line 4. We report residential sales in line 7, commercial sales in line 8, resale in line 11, and in line 12 (other sale) we report agricultural sales. For total water sales in line 13. Line 16 is used to report (metered) water used in the treatment plant process. Line 18 is used to report water used for flushing purposes and any intentional tank overfills. Our fire departments do a very poor job notifying us of water used, however we believe the amount used is so insignificant that it is not even guessed at. Line 21 is the total of lines 16 & 18. Plant water used and system flushing. All other water is unaccounted for water loss.
GRAYSON COUNTY WATER DISTRICT

CASE NO. 2018-00394

Response to Commission's Request for Information

Question No. 3

Responding Witness: Kevin Shaw

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. I have none.
GRAYSON COUNTY WATER DISTRICT

CASE NO. 2018-00394

Response to Commission’s Request for Information

Question No. 4

Responding Witness: Kevin Shaw

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. I have none
GRAYSON COUNTY WATER DISTRICT

CASE NO. 2018-00394

Response to Commission’s Request for Information

Question No. 5

Responding Witness: Kevin Shaw

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. I have none.
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. I Have none.
GRAYSON COUNTY WATER DISTRICT

CASE NO. 2018-00394

Response to Commission's Request for Information

Question No. 7

Responding Witness: Kevin Shaw

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. The only suggestion I would have would be for the commission to consider not requiring utilities who have a history of acceptable or good water loss to have another form to be required to fill out and return. I think it is reasonable to ask systems with bad habits and high loss to be on notice and held to more stringent reporting guidelines. Reward good systems for a job well done by not asking them to do more work.
CERTIFICATE OF SERVICE

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

Kevin Shaw