



**Arkansas  
Department  
of Health**

**Drinking Water Program**

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# **Annual Report**

## **Public Water System Supervision Program**

### **Calendar Year 2017**

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## INTRODUCTION

### Arkansas Land Use (2017 U. S. Census Bureau Estimate)

|                              |                  |
|------------------------------|------------------|
| Total area of Arkansas       | 34,036,672 acres |
| Total area of land           | 33,328,192 acres |
| Total area of water          | 708,480 acres    |
| Total area of forest         | 15,950,000 acres |
| Total area of arable land    | 7,295,000 acres  |
| Total area of wetland        | 820,619 acres    |
| Total area of barren land    | 42,000 acres     |
| Total area of developed land | 205,340 acres    |

### Characteristics of Arkansas's Water Systems

#### **Population of Arkansas (2017 U. S. Census Bureau Estimate) 3,004,279**

|   |           |
|---|-----------|
| Population served by public water systems     | 2,845,160 |
| Population served by surface water systems    | 1,868,814 |
| Population served by ground water systems     | 808,550   |
| Population served by ground & surface systems | 167,796   |

|   |       |
|---|-------|
| % population served by community public water systems           | 94.7% |
| % population served by individual private wells or other source | 5.3%  |

#### **Total number of public water systems active during 2017 1070**

|  |     |
|--|-----|
| Number of community public water systems                   | 689 |
| Number of transient non-community public water systems     | 346 |
| Number of non-transient non-community public water systems | 35  |
| Number of systems using surface water                      | 424 |
| Number of systems using ground water                       | 616 |
| Number of systems using ground & surface                   | 30  |

Total average daily water used by public water systems (estimate MGD) 556

## **PURPOSE**

The purpose of this report is to summarize the Arkansas Public Water System violations data submitted to the Safe Drinking Water Information System (SDWIS/FED) for the calendar year 2017. The data include PWS inventory statistics, the incidence of Maximum Contaminant Level, Major Monitoring, and Treatment Technique violations, and the enforcement actions taken against violators. The report provides a total annual representation of the numbers of violations for each of the four categories listed in Section 1414(c)(3) of the Safe Drinking Water Act reauthorization. These four categories include MCLs, treatment techniques, variances and exemptions, and significant monitoring violations.

## **STATUTORY ORIGIN**

The EPA established the Public Water System Supervision (PWSS) Program under the authority of the 1974 Safe Drinking Water Act (SDWA). Under the SDWA and its 1986 and 1996 Amendments, EPA sets national limits for contaminant levels in drinking water to ensure that the water is safe for human consumption. These limits are known as Maximum Contaminant Levels (MCLs). For some regulations, EPA establishes treatment techniques in lieu of MCLs to control unacceptable levels of contaminants in water. The EPA also regulates how often public water systems (PWSs) monitor their water for contaminants and requires the monitoring results to be reported to the States and/or EPA. Generally, the larger the population served by a water system, the more frequent the monitoring and reporting (M/R) requirements. In addition, EPA requires PWSs to monitor for unregulated contaminants to provide data for future regulatory development. Finally, EPA requires PWSs to notify the public when they have violated these regulations. The 1996 Amendments to the SDWA require public notification to include a clear and understandable explanation of the nature of the violation, its potential adverse health effects; steps that the PWS is undertaking to correct the violation and the possibility of alternative water supplies during the violation.

The SDWA applies to the 50 States, the District of Columbia, Indian Country, Puerto Rico, the Virgin Islands, American Samoa, Guam, the Commonwealth of the Northern Mariana Islands, and the Republic of Palau.

The SDWA allows States and Territories to seek EPA approval to administer their own PWSS Programs. The authority to run a PWSS Program is called primacy. To receive primacy, States must meet certain requirements laid out in the SDWA and the regulations, including the adoption of drinking water regulations that are at least as stringent as the Federal regulations and a demonstration that they can enforce the program requirements. Of the 57 States and Territories, all but Wyoming and the District of Columbia have primacy. The EPA Regional Offices administer the PWSS Programs within these two jurisdictions.

## **ACCESSIBILITY TO PUBLIC:**

The full report will be made available on the Arkansas Department of Health – Engineering Section web site. The address is: <https://www.healthy.arkansas.gov/programs-services/topics/epa-drinking-water-annual-violation-reports>

1. The notice of availability will be published in the Section's quarterly newsletter. This newsletter reaches all community and non-transient non-community PWS's, consulting engineers, government agencies, nonprofit organizations and other stakeholders interested in public drinking water in the state of Arkansas.
2. A notice of the availability of the report will be provided to all local health units in Arkansas.

## **Summary of Violations**

- No violations occurred during 2017 for contaminants and rules not shown in the violation tables.
- There were 1070 public water systems in operation during 2017. Six hundred and eighty nine (689) were community water systems, thirty five (35) were non-transient, non-community water systems, and three hundred and forty six (346) were transient non-community water systems.
- A total of two hundred and forty four (244) major monitoring violations occurred for public water systems during 2017. Ninety four (94) violations were for (54) community water systems, four (4) violations were for (4) non-transient, non-community water systems, one hundred and twenty five (125) violations were for eighty five (85) transient non-community water systems, and twenty one (21) violations for eleven (11) systems who were active in CY2017 but are now inactive and non-public.
- A total of two hundred and eighty (280) Maximum Contaminant Level (MCL) or Treatment Technique (TT) violations were issued in 2017 for ninety (90) systems. Two Hundred and thirty five (235) violations were issued for seventy one (71) community water systems, seven (7) violations for two (2) non-transient, non-community water systems, and twenty six (26) violations were for twelve (12) transient non-community water systems and twelve (12) violations were for five (5) systems which were active in CY2017 but are now inactive and non-public..
- No variances or exemptions were issued to any public water system in Arkansas during the calendar year 2017.
- 97.3% of the public water systems in Arkansas did not have an organic (SOC, VOC, TTHM, HAA) MCL violation. All organic MCL violations were for the (TTHM, HAA5) analyte group.
- 100% of the public water systems in Arkansas did not have a nitrate MCL violation.
- 99.9% of the community public water systems in Arkansas did not exceed the radium-226/228 MCL or either of the individual MCL's. One system (AR0000096) received one violation.
- There were nine (9) inorganic chemical (MCL) violations for three (3) water systems, one (1) community and two (2) non-transient non-community systems.
- There were no monitoring violations for chemicals covered under Phases I, II, IIB, & V. The Arkansas Department of Health performs monitoring of these chemicals on behalf of the public water systems.
- The compliance rate for the contaminants and rules not shown on the violation tables was 100%.

- Using a time and population weighted determination of risk, based on exposure to water that either failed to meet the drinking water standards or which was of unknown quality, Arkansas community water systems achieved the following compliance rates:

|                        | Monitoring | Quality  | Overall  |
|------------------------|------------|----------|----------|
| Compliance Percentage  | 99.9%      | 98.1%    | 98.0%    |
| Person months exposure | 27369      | 622545   | 649914   |
| Person months possible | 33528228   | 33528228 | 33528228 |

In this calculation, a system serving 100 persons that has one violation lasting one month produces a risk of 100 person months. The total risk possible for this system is 1200 person months (100 persons served multiplied by 12 months). In this example, the compliance rate would be  $91.6\% = (1200 - 100) / 1200$ .

## **DEVIATION FROM FEDERAL DATABASE**

The following discrepancies have been identified between the Federal database (**violation reports for calendar year 2017**) on which the national Annual Compliance Report will be based (Frozen) and the Arkansas state drinking water program database, SDWIS/STATE.

There are no deviations between the Federal Frozen Database and Arkansas's SDWIS/STATE database for the 2017 calendar year reported violations which include.

Revised Total Coliform Rule: (Violation code 1A – *E. coli* MCL)

Revised Total Coliform Rule: (Violation code 2A – Level1 assessment failure or inadequate)

Revised Total Coliform Rule: (Violation code 2B – Level2 assessment failure or inadequate)

Revised Total Coliform Rule: (Violation code 2C - Fail to take corrective action)

Revised Total Coliform Rule: (Violation code 2D - Fail to complete seasonal system start up procedures)

Revised Total Coliform Rule: (Violation code 3A - Fail to collect routine samples)

Revised Total Coliform Rule: (Violation code 3B - Fail to collect additional samples)

Revised Total Coliform Rule: (Violation code 3C – Fail to collect required extra samples/Turbidity)

Revised Total Coliform Rule: (Violation code 3D - Fail to use approved laboratory)

Revised Total Coliform Rule: (Violation code 4D - Fail to notify state within 24 of *E.coli* positive sample)

Revised Total Coliform Rule: (Violation code 4E - Fail to provide state that an *E.coli* MCL violation occurred)

Revised Total Coliform Rule: (Violation code 5A - Fail to submit a sample site plan)

Total Coliform Rule: (Violation Code 21 – Acute MCL Violation)

Total Coliform Rule: (Violation Code 22 – Non-Acute MCL Violation)

Total Coliform Rule: (Violation Code 23 – Major routine monitoring)

Total Coliform Rule: (Violation Code 24 - Monitoring (TCR) Routine Minor)

Total Coliform Rule: (Violation Code 25 – Major follow up monitoring)

Total Coliform Rule: (Violation Code 26 – Monitoring (TCR), Repeat Minor)

Disinfectant / Disinfection By Products: MCL, Treatment Technique, and Significant Monitoring/Reporting Violations.

Surface Water Treatment (SWTR / IESWTR/GWR): (Violation Code 36 – Filter Monitoring)

Surface Water Treatment (SWTR / IESWTR/GWR): (Violation Code 38 – Monitoring Turbidity)

Surface Water Treatment (SWTR / IESWTR/GWR): (Violation Code 41 – Treatment Techniques)

Surface Water Treatment (SWTR / IESWTR/GWR): (Violation Code 42 – Failure to filter)

Surface Water Treatment (SWTR / IESWTR/GWR): (Violation Code 43 – Treatment tech >Turbidity 1 NTU)

Surface Water Treatment (SWTR / IESWTR/GWR): (Violation Code 44 – Treatment >Turbidity 3 NTU)

Lead and Copper Rule: Violation codes 51, 52, 66, 58, 65

Radionuclide Rule: MCL violation Consumer Confidence Reports and Public Notification: Violations codes 71, 75

Public Notice Rule (PN): (Violation Code 75 – PN Violation for NPDWR violation)

**VIOLATIONS TABLES: CHEMICAL CONTAMINANTS**

|                               | SDWIS Codes | MCL (mg/l) | MCLs                                   |   | Treatment Techniques |                                   | Significant Monitoring/Reporting       |   |
|-------------------------------|-------------|------------|--|---|----------------------|-----------------------------------|--|---|
|                               |             |            | Number of violations<br><b>T/C/N/P</b> | Number of Systems with Violations<br><b>T/C/N/P</b> | Number of Violations | Number of Systems with Violations | Number of Violations<br><b>T/C/N/P</b> | Number of Systems With Violations<br><b>T/C/N/P</b> |
| <b>Inorganic Contaminants</b> |             |            |  |   |                      |                                   |  |   |
| Fluoride                      | 1025        | 4.0        | 2/0/0/2                                | 2/0/0/2   |                      |                                   |  |   |
| Arsenic                       | 1005        | 10.0       | 0/0/0/0                                | 0/0/0/0   |                      |                                   |  |   |
| Cyanide                       | 1024        |            | 7/2/0/5                                | 3/1/0/2   |                      |                                   |  |   |
| <b>Organic Contaminants</b>   |             |            | 0/0/0/0                                | 0/0/0/0   |                      |                                   |  |   |
| <b>Subtotal</b>               |             |            | 9/2/0/7                                | 3/1/0/2   |                      |                                   |  |   |

|   | SDWIS Codes | MCL (mg/l) | MCLs                                   |   | Treatment Techniques                   |   | Significant Monitoring/Reporting       |   |
|---|-------------|------------|--|---|--|---|--|---|
|   |             |            | Number of violations<br><b>T/C/N/P</b> | Number of Systems with Violations<br><b>T/C/N/P</b> | Number of Violations<br><b>T/C/N/P</b> | Number of Systems with Violations<br><b>T/C/N/P</b> | Number of Violations<br><b>T/C/N/P</b> | Number of Systems With Violations<br><b>T/C/N/P</b> |
| <b>Disinfectants / Disinfection By-Products</b>   |             |            |  |   |  |   |  |   |
| Stage 1 DBPR                                      | 0400        |            |  |   | 125/125/0/0                            | 33/33/0/0   |  |   |
| Stage 1 DBPR                                      | 0999        |            |  |   |  |   | 5/5/0/0                                | 5/5/0/0   |
| Long Term 2 Enhanced Surface water treatment rule | 0999        |            |  |   |  |   | 2/0/2/0                                | 2/0/2/0   |
| Chlorite  | 1009        | 1.0        | 0/0/0/0                                | 0/0/0/0   |  |   | 0/0/0/0                                | 0/0/0/0   |
| Total Haloacetic Acids (HAA5)                     | 2456        | 0.060      | 13/13/0/0                              | 7/7/0/0   |  |   |  |   |
| Total Organic Carbon                              | 2920        |            |  |   | 1/1/0/0                                | 1/1/0/0   |  |   |
| Total Trhhalomethanes (TTHM)                      | 2950        | 0.08       | 68/68/0/0                              | 23/23/0/0   |  |   |  |   |
| <b>Subtotal</b>                                   |             |            | 81/81/0/0                              | 30/30/0/0   | 126/126/0/0                            | 34/34/0/0   | 7/5/2/0                                | 7/5/2/0   |

**T/C/N/P – Total /Community PWS / Transient Non-Community PWS / Non-Transient Non-Community PWS**



**VIOLATIONS TABLES: TOTAL COLIFORM RULE (TCR) / REVISED TOTAL COLIFORM RULE (RTCR)**

|                                | SDWIS Codes | MCL (mg/l) | MCLs                                   |   | Treatment Techniques                   |  | Significant Monitoring/Reporting       |   |
|--------------------------------|-------------|------------|--|---|--|--|--|---|
|                                |             |            | Number of violations<br><b>T/C/N/P</b> | Number of Systems with Violations<br><b>T/C/N/P</b> | Number of Violations<br><b>T/C/N/P</b> | Number of Systems in Violation<br><b>T/C/N/P</b> | Number of Violations<br><b>T/C/N/P</b> | Number of Systems With Violations<br><b>T/C/N/P</b> |
| <b>TCR / RTCR</b>              |             |            |  |   |  |  |  |   |
| Acute MCL violation TCR        | 21          | Presence   | 0/0/0/0                                | 0/0/0/0   |  |  |  |   |
| RTCR MCL violations            | 1A          | Presence   | 3/1/2/0                                | 3/1/2/0   |  |  |  |   |
| Non-Acute MCL violation TCR    | 22          |            | 0/0/0/0                                | 0/0/0/0   |  |  |  |   |
| RTCR Treatment Technique       | 2A          |            |  |   | 7/1/0/6                                | 2/1/1/0  |  |   |
| RTCR Treatment Technique       | 2B          |            |  |   | 0/0/0/0                                | 0/0/0/0  |  |   |
| RTCR Treatment Technique       | 2C          |            |  |   | 0/0/0/0                                | 0/0/0/0  |  |   |
| RTCR Treatment Technique       | 2D          |            |  |   | 7/0/0/7                                | 6/0/6/0  |  |   |
| RTCR monitoring                | 3A          |            |  |   |  |  | 228/96/124/8                           | 164/66/91/7   |
| RTCR monitoring                | 3B          |            |  |   |  |  | 0/0/0/0                                | 0/0/0/0   |
| RTCR monitoring                | 3C          |            |  |   |  |  | 0/0/0/0                                | 0/0/0/0   |
| RTCR monitoring                | 3D          |            |  |   |  |  | 0/0/0/0                                | 0/0/0/0   |
| RTCR reporting                 | 4D          |            |  |   |  |  | 0/0/0/0                                | 0/0/0/0   |
| RTCR reporting                 | 4E          |            |  |   |  |  | 0/0/0/0                                | 0/0/0/0   |
| RTCR reporting                 | 4F          |            |  |   |  |  | 0/0/0/0                                | 0/0/0/0   |
| RTCR other                     | 5A          |            |  |   |  |  | 21/20/1/0                              | 17/16/1/0   |
| RTCR other                     | 5B          |            |  |   |  |  | 0/0/0/0                                | 0/0/0/0   |
| Major routine monitoring TCR   | 23          |            |  |   |  |  | 0/0/0/0                                | 0/0/0/0   |
| Major routine monitoring TCR   | 24          |            |  |   |  |  | 0/0/0/0                                | 0/0/0/0   |
| Major follow up monitoring TCR | 25          |            |  |   |  |  | 0/0/0/0                                | 0/0/0/0   |
| Monitoring(TCR), Repeat Minor  | 26          |            |  |   |  |  | 0/0/0/0                                | 0/0/0/0   |
| <b>Subtotal</b>                |             |            | 3/1/2/0                                | 3/1/2/0   | 14/1/0/13                              | 8/1/7/0  | 249/116/125/8                          | 181/82/92/7   |

**VIOLATIONS TABLES: SURFACE WATER TREATMENT RULE(SWTR) / GROUND WATER RULE / INTERIM ENHANCED(SWTR)**

|                                      | SDWIS Codes | MCL (mg/l) | MCLs                 |                                   | Treatment Techniques                   |   | Significant Monitoring/Reporting       |   |
|--------------------------------------|-------------|------------|----------------------|-----------------------------------|--|---|--|---|
|                                      |             |            | Number of violations | Number of Systems with Violations | Number of Violations<br><b>T/C/N/P</b> | Number of Systems with Violations<br><b>T/C/N/P</b> | Number of Violations<br><b>T/C/N/P</b> | Number of Systems With Violations<br><b>T/C/N/P</b> |
| <b>Surface Water Treatment Rule</b>  |             |            |                      |                                   |  |   |  |   |
| <u>Filtered Systems</u>              |             |            |                      |                                   |  |   |  |   |
| Monitoring, routine/repeat           | 36          |            |                      |                                   |  |   | 9/3/6/0                                | 7/3/4/0   |
| Monitoring, routine/filter turbidity | 38          |            |                      |                                   |  |   | 12/6/6/0                               | 4/1/3/0   |
| Treatment techniques                 | 41          |            |                      |                                   | 14/10/4/0                              | 6/4/2/0   |  |   |
| Failure to filter                    | 42          |            |                      |                                   | 0/0/0/0                                | 0/0/0/0   |  |   |
| Treatment Tech > Turb 1 NTU          | 43          |            |                      |                                   | 3/1/2/0                                | 2/1/1/0   |  |   |
| 3reatment Tech > Turb 3 NTU          | 44          |            |                      |                                   | 9/4/5/0                                | 4/3/1/0   |  |   |
| <b>Subtotal</b>                      |             |            |                      |                                   | 26/15/11/0                             | 12/8/4/0  | 21/9/12/0                              | 11/4/7/0  |

**T/C/N/P – Total /Community PWS / Transient Non-Community PWS / Non-Transient Non-Community PWS**

**VIOLATIONS TABLES: LEAD & COPPER RULE**

|  | SDWIS Codes | MCL (mg/l) | MCLs                            |  | Treatment Techniques            |  | Significant Monitoring/Reporting |  |
|--|-------------|------------|---------------------------------|--|---------------------------------|--|----------------------------------|--|
|  |             |            | Number of violations<br>T/C/N/P | Number of Systems with Violations<br>T/C/N/P | Number of Violations<br>T/C/N/P | Number of Systems with Violations<br>T/C/N/P | Number of Violations<br>T/C/N/P  | Number of Systems With Violations<br>T/C/N/P |
| <b>Lead and Copper Rule</b>                  |             |            |                                 |  |                                 |  |                                  |  |
| Initial lead and copper tap M/R              | 51          |            |                                 |  |                                 |  | 1/1/0/0                          | 1/1/0/0                                      |
| Follow-up or routine lead and copper tap M/R | 52          |            |                                 |  |                                 |  | 12/12/0/0                        | 10/10/0/0                                    |
| Failure to Conduct Consumer Notice           | 66          |            |                                 |  |                                 |  | 53/51/0/2                        | 51/49/0/2                                    |
| Treatment Installation                       | 58          |            |                                 |  | 1/1/0/0                         | 1/1/0/0                                      |                                  |  |
| Public education                             | 65          |            |                                 |  | 2/2/0/0                         | 2/2/0/0                                      |                                  |  |
| <b>Subtotal</b>                              |             |            |                                 |  | 3/3/0/0                         | 3/3/0/0                                      | 66/64/0/2                        | 62/60/0/2                                    |

**CONSUMER NOTIFICATION: CONSUMER CONFIDENCE REPORTS / PUBLIC NOTIFICATION**

|                                   | SDWIS Codes | MCL (mg/l) | MCLs                            |  | Treatment Techniques |                                   | Significant Monitoring/Reporting |  |
|-----------------------------------|-------------|------------|---------------------------------|--|----------------------|-----------------------------------|----------------------------------|--|
|                                   |             |            | Number of violations<br>T/C/N/P | Number of Systems with Violations<br>T/C/N/P | Number of Violations | Number of Systems with Violations | Number of Violations<br>T/C/N/P  | Number of Systems With Violations<br>T/C/N/P |
|                                   |             |            |                                 |  |                      |                                   |                                  |  |
| <b>Consumer Confidence Report</b> | 71          |            |                                 |  |                      |                                   | 65/65/0/0                        | 54/54/0/0                                    |
| <b>Consumer Confidence Report</b> | 72          |            |                                 |  |                      |                                   | 11/11/0/0                        | 10/10/0/0                                    |
| <b>Public Notification</b>        | 75          |            |                                 |  |                      |                                   | 312/162/142/8                    | 114/56/56/2                                  |
| <b>Subtotal</b>                   |             |            |                                 |  |                      |                                   | 388/238/142/8                    | 178/120/56/2                                 |

T/C/N/P – Total /Community PWS / Transient Non-Community PWS / Non-Transient Non-Community PWS

**VIOLATIONS TABLES: RADIONUCLIDES**

|                           | SDWIS Codes | MCL (mg/l) | MCLs                                   |   | Treatment Techniques |                                   | Significant Monitoring/Reporting       |   |
|---------------------------|-------------|------------|--|---|----------------------|-----------------------------------|--|---|
|                           |             |            | Number of violations<br><b>T/C/N/P</b> | Number of Systems with Violations<br><b>T/C/N/P</b> | Number of Violations | Number of Systems with Violations | Number of Violations<br><b>T/C/N/P</b> | Number of Systems With Violations<br><b>T/C/N/P</b> |
| <b>Radionuclide MCLs</b>  |             |            |  |   |                      |                                   |  |   |
| Gross alpha               | 4000        | 15 Pci/l   | 0/0/0/0                                | 0/0/0/0   |                      |                                   | 0/0/0/0                                | 0/0/0/0   |
| Radium-226 and Radium-228 | 4010        | 5 pCi/l    | 1/1/0/0                                | 1/1/0/0   |                      |                                   | 0/0/0/0                                | 0/0/0/0   |
| Gross beta                | 4100        | 4 mrem/yr  | 0/0/0/0                                | 0/0/0/0   |                      |                                   | 0/0/0/0                                | 0/0/0/0   |
| <b>Subtotal</b>           |             |            | 1/1/0/0                                | 1/1/0/0   |                      |                                   | 0/0/0/0                                | 0/0/0/0   |

**T/C/N/P – Total /Community PWS / Transient Non-Community PWS / Non-Transient Non-Community PWS**

## **DEFINITIONS FOR THE VIOLATIONS TABLES**

**Public Water System:** A Public Water System (PWS) is defined as a system that provides water via piping or other constructed conveyances for human consumption to at least 15 service connections or serves an average of at least 25 people for at least 60 days each year. There are three types of PWSs. PWSs can be community (such as towns), non-transient non-community (such as schools or factories), or transient non-community systems (such as rest stops or parks). In this report, when the acronym “PWS”, is used, it means systems of all types unless otherwise specified.

**Consumer Notification:** Every community water system is required to deliver to its customers a brief annual water quality report called the Consumer Confidence Report (CCR). This report is to include some educational material, and will provide information on the source water, the levels of any detected contaminants, and compliance with drinking water regulations.

**Filtered Systems:** Water systems that have installed filtration treatment [40 CFR 141, Subpart H].

**Inorganic Contaminants:** Non-carbon-based compounds such as metals, nitrates, and asbestos. These contaminants are naturally-occurring in some water, but can get into water through farming, chemical manufacturing, and other human activities. EPA has established MCLs for 15 inorganic contaminants [40 CFR 141.62].

**Lead and Copper Rule:** This rule established national limits on lead and copper in drinking water [40 CFR 141.80-91]. Lead and copper corrosion pose various health risks when ingested at certain levels, and can enter drinking water from household pipes and plumbing fixtures. States report violations of the Lead and Copper Rule in the following six categories:

*Initial lead and copper tap M/R:* SDWIS Violations Code 51 indicates that a system did not meet initial lead and copper testing requirements, or failed to report the results of those tests to the State.

*Follow-up or routine lead and copper tap M/R:* SDWIS Violations code 52 indicates that a system did not meet follow-up or routine lead and copper tap testing requirements, or failed to report the results.

*Treatment installation:* SDWIS Violation Code 58 indicates a failure to install optimal corrosion control treatment system or source water treatment system which would reduce lead and copper levels in water at the tap.

*Public Education:* SDWIS Violation Code 65 shows that a system did not provide required public education about reducing or avoiding lead intake from water.

**Maximum Contaminant Level (MCL):** The highest amount of a contaminant that EPA allows in drinking water. MCLs ensure that drinking water does not pose either a short-term or long-term health risk. MCLs are defined in milligrams per liter (parts per million) unless otherwise specified.

**Monitoring:** EPA specifies which water testing methods the water systems must use, and sets schedules for the frequency of testing. A water system that does not follow EPA’s schedule or methodology is in violation [40 CFR 141].

States must report monitoring violations that are significant as determined by the EPA Administrator and in consultation with the States. For purposes of this report, significant monitoring violations are major violations and they occur when no samples are taken or no results are reported during a compliance period.

A major monitoring violation for the surface water treatment rule occurs when at least 10% of the required samples are not taken or results are not reported during the compliance period.

**Organic Contaminants:** Carbon-based compounds, such as industrial solvents and pesticides. These contaminants generally get into water through runoff from cropland or discharge from factories. EPA has set legal limits on 54 organic contaminants that are to be reported [40 CFR 141.61].

**Public Notice Violations:** The Public Notification Rule requires all PWS to notify their consumers any time a PWS violated a national drinking water regulation or has a situation posing a risk to public health. Notices must be provided to persons served (not just billing consumers).

**Radionuclides:** Radioactive particles, which can occur naturally in water or result from human activity. EPA has set legal limits on five types of radionuclides: radium-226, radium 228, gross alpha, and beta particle/photon radioactivity, and uranium [40 CFR 141]. Violations for these contaminants are to be reported using the following three categories:

*Gross alpha:* SDWIS Contaminant Code 4000 for alpha radiation above MCL of 15 picocuries/liter. Gross alpha includes radium-226 but excludes radon and uranium.

*Combined radium-226 and radium-228:* SDWIS Contaminant Code 4010 for combined radiation from these two isotopes above MCL of 5 pCi/L.

*Gross beta:* SDWIS Contaminant Code 4101 for the combination of beta particles and photon radioactivity resulting from man-made radionuclides above 4 millirem/year.

*Uranium:* SDWIS Contaminant Code 4006 for combined uranium above the MCL of 30 micrograms/liter.

**Reporting Interval:** The reporting interval for violations reported in the, 2017 PWS Annual Compliance Report, is January 1, 2017 through December 31, 2017.

**SDWIS Code:** Specific numeric codes from the Safe Drinking Water Information System (SDWIS) have been assigned to each violation type included in this report. The violations to be reported include exceeding contaminant MCLs, failure to comply with treatment requirements, and failure to meet monitoring and reporting requirements. Four-digit SDWIS Contaminant Codes have also been included in the chart for specific MCL contaminants.

**Surface Water Treatment Rule / Ground Water Rule:** The Surface Water Treatment Rule [40 CFR 141, Subpart H] and the Ground Water Rule [40 CFR 141, Subpart S] establishes criteria under which water systems supplied by surface water sources, or ground water sources under the direct influence of surface water, must filter and disinfect their water. Violations under both rules are to be reported for the following four categories:

*Monitoring, routine/repeat (for filtered systems):* SDWIS Violation Code 36 indicates a system's failure to carry out required tests, or to report the results of those tests.

*Treatment techniques (for filtered systems):* SDWIS Violations 41, 42, and 43 show a system's failure to properly treat its water.

*Monitoring, routine/repeat (for unfiltered systems):* SDWIS Violation Code 31 indicates a system's failure to carry out required water tests, or to report the results of those tests.

*Failure to filter (for unfiltered systems):* SDWIS Violation Code 42 shows a system's failure to properly treat its water.

**Total Coliform Rule (TCR):** The Total Coliform Rule establishes regulations for microbiological contaminants in drinking water. These contaminants can cause short-term health problems. If no samples are collected during the one-month compliance period, a significant monitoring violation occurs. States are to report four categories of violations:

*Acute MCL violation:* SDWIS Violation Code 21 indicates that the system found fecal coliform or *E. coli*, potentially harmful bacteria, in its water, thereby violating the rule.

*Non-acute MCL violation:* SDWIS Violation code 22 indicates that the system found total coliform in samples of its water at a frequency or at a level that violates the rule. For systems collecting fewer than 40 samples per month, more than one positive sample for total coliform is a violation. For systems collecting 40 or more samples per month, more than 5% of the samples positive for total coliform is a violation.

*Major routine and follow-up monitoring:* SDWIS Violation Codes 23 and 25 indicate a system did not perform any monitoring. [One number is to be reported for the sum of violations in these two categories.]

*Sanitary Survey:* SDWIS Violation Code 28 indicates a major monitoring violation if a system fails to collect 5 routine monthly samples if a sanitary survey is not performed.

**REVISED TOTAL COLIFORM RULE (RTCR):** The Revised Total Coliform Rule adds or changes the requirements for the regulations for microbiological contaminants in drinking water established in the Total Coliform Rule. The RTCR rule establishes 16 new violation codes for four categories. (1.) Maximum Contaminant Level (MCL), (2.) Treatment Technique (TT), (3.) Monitoring (MON), (4.) Reporting (RPT).

RTCR MCL Violation: Violation code 1A is for an *E.coli* MCL.

RTCR Treatment Technique Violations: Violation codes: 2A failure to perform a Level 1 assessment, 2B failure to perform a Level 2 assessment, 2C failure to take corrective action, 2D failure to perform proper start up procedures.

RTCR Monitoring Violations: Violation codes: 3A is a routine monitoring violation, 3B failure to collect additional routine samples required after a positive total coliform sample, 3C failure to collect additional samples triggered by turbidity, 3D lab and/or analytical method errors.

RTCR Reporting Violations: 4A Assessment forms reporting, 4B Sample results reporting, 4C Certification form (for start-up procedures), 4D *E.coli* positive notification reporting, 4E *E.coli* MCL reporting, 4F Assessments, Assessment forms, corrective/expedited actions reporting.

RTCR Other: 5A Errors with sample siting plan, 5B RTCR recordkeeping violations.

**Treatment Techniques:** A water treatment process that EPA requires instead of an MCL for contaminants that laboratories cannot adequately measure. Failure to meet other operational and system requirements under the Surface Water Treatment and the Lead and Copper Rules have also been included in this category of violation for purposes of this report.

**Unfiltered Systems:** Water systems that do not need to filter their water before disinfecting it because the source is very clean [40 CFR, Subpart H].

**Violation:** A failure to meet any state or federal drinking water regulation.

## **VARIANCES AND EXEMPTIONS**

Variances and exemptions to specific requirements under the Safe Drinking Water Act Amendments of 1996 may be granted under certain circumstances. If, due to the characteristics of the raw water sources reasonably available, a PWS cannot meet the MCL, a primacy State can grant the PWS a variance from the applicable primary drinking water regulation on the condition that the system, install the best available technology, treatment techniques, or other means which the Administrator finds are available (taking costs into account). The state must find that the variance will not result in an unreasonable risk to health, and shall prescribe, at the time the variance is granted, a schedule (including increments of progress) in accordance with which the PWS must come into compliance with the MCL. Small systems (serving 3,300 or fewer persons; or 10,000 or fewer persons with the Administrator's approval) may be granted variances if they cannot afford (as determined by application of the Administrator's affordability criteria) to comply with certain MCLs (non-microbial, promulgated after January 1, 1986) by means of treatment, alternative source of water, or restructuring or consolidation. Small systems must, within 3 years, install and operate EPA approved small system variance technology. The variance must ensure adequate protection of human health, and the variance shall be reviewed not less than every 5 years to determine whether the system remains eligible for the variance. A primacy State may by exemption relieve a PWS of its obligation to comply with an MCL, treatment technique, or both if the system's noncompliance results from compelling factors (which may include economic factors, the system was in operation on the effective date of the MCL or treatment technique requirement) or if not in operation by that date, only if no reasonable alternative source of drinking water is available to such new systems, management or restructuring changes cannot reasonably be made that will result in compliance with the SDWA or improvement of water quality, and the exemption will not result in an unreasonable risk to public health. The State will require the PWS to comply with the MCL or treatment technique as expeditiously as practicable, but not later than 3 years after the otherwise applicable compliance date. No variances or exemptions were issued to any public water system in Arkansas during the calendar year 2017.



## **ENFORCEMENT DEFINITIONS**

The Arkansas Department of Health has developed a multi stage enforcement escalation scheme which pairs technical assistance with multiple opportunities to return to compliance. The ADHHS utilizes methods such as sanitary surveys and operator assistance to prevent water quality problems from occurring. Enforcement is with the attitude of protecting the public health with any and all tools available to achieve compliance.

**Phase 1:** A very informal means of enforcement. With every Safe Drinking Water Act (SDWA) violation, a Notice of violation is issued explaining what the system failed to do, in anticipation of correcting the problem. If necessary, a site visit may be required to assist the water system into achieving compliance.

**Phase 2:** When an Acute violation or several other violations occur and meet our escalation policy we issue a State Formal Notification of Violation (SFJ). This is our 1st formal enforcement action & last chance for voluntary compliance. This letter formally warns the operator that if an additional violation occurs an Administrative Order will be issued to correct the deficiencies.

**Phase 3:** If the system has an additional violation within the 12 months following the SFJ, an Administrative Order Issued (SFL) is issued, requiring the system to correct all deficiencies and comply fully with the SDWA.

**Phase 4:** If the SFL is not complied with a Proposed Penalties Issued (SFN) is calculated based on the population, severity, correct ability and frequency of the violations. It is then issued to the system and a hearing date is scheduled for a Subcommittee of the Arkansas State Board of Health.

**Phase 5:** Once the proposed penalty is issued the water system operator can either go to the hearing before the subcommittee of the Board of Health, Penalties Assessed – Board of Health (SFM) or Penalties Suspended – Board of Health (SFO).

**SUMMARY OF FORMAL ENFORCEMENT ACTIONS**

Following is a summary of the enforcement actions taken in 2017.

**Community Public Water Systems**

|   |    |
|---|----|
| State Formal Notification of Violation (SFJ).....               | 28 |
| Administrative Orders Issued (SFL).....                         | 15 |
| Proposed Penalties Issued (SFN).....                            | 2  |
| Penalties Suspended – Board of Health (SFO).....                | 0  |
| Penalties Assessed – Bilateral Compliance Agreements (SFK)..... | 0  |
| Penalties Assessed – Board of Health (SFM).....                 | 19 |
| Total Enforcement Actions for CWSs.....                         | 64 |

**Non-Transient Non-Community Systems**

|   |   |
|---|---|
| State Formal Notification of Violation (SFJ).....               | 2 |
| Administrative Orders Issued (SFL).....                         | 1 |
| Proposed Penalties Issued (SFN).....                            | 1 |
| Penalties Suspended – Board of Health (SFO).....                | 0 |
| Penalties Assessed – Bilateral Compliance Agreements (SFK)..... | 0 |
| Penalties Assessed – Board of Health (SFM).....                 | 1 |
| Total Enforcement Actions for NTNC.....                         | 5 |

**Transient Non-Community Systems**

|   |    |
|---|----|
| State Formal Notification of Violation (SFJ).....               | 10 |
| Administrative Orders Issued (SFL).....                         | 5  |
| Proposed Penalties Issued (SFN).....                            | 0  |
| Penalties Suspended – Board of Health (SFO).....                | 0  |
| Penalties Assessed – Bilateral Compliance Agreements (SFK)..... | 0  |
| Penalties Assessed – Board of Health (SFM).....                 | 5  |
| Total Enforcement Actions for Transient NC.....                 | 20 |

## **COMPLIANCE ASSISTANCE EFFORTS**

### **Capacity Development Program**

Under the Capacity Development Program, the Engineering Section has established two contracts with third party technical assistance providers for small systems (<10,000 population) technical assistance. The main purpose of the contracts is to help small public water systems develop the ability to achieve and maintain compliance with applicable national primary and secondary drinking water regulations. Helping the water systems attain a state of self-sufficiency is the primary goal.

The Engineering Section advertised for a new Request for Proposals as part of our Capacity Development Program efforts in early 2011 with contracts beginning in September 2011. The review process led to Arkansas Rural Water Association being awarded the Financial and Managerial and the Technical and Operational contracts to assist small public water systems achieve TMF capacity. The Section's goal was to provide more of a "hands on" approach with the Engineering Section's staff performing the assessments and the contractor performing system specific types of assistance and training. As part of our efforts, in 2017, Arkansas Rural Water Association assisted in 375 hours of technical assistance in the Financial and Managerial contract and 2,215 hours of technical assistance hours in the Technical and Operational contract. Some examples of direct assistance hours provided by the Contractors include rate studies, asset management plans, budgets, emergency response plans, on-site peer to peer training, new operator assistance with sampling plans and operations reports, leak detection and repairs, valve maintenance training, and assistance with water treatment problems.

As part of the Section's initiatives to promote and improve the asset sustainability of small public water systems, the Section contracted with Magnolia River Services, Inc. [MRS] to assist high priority small public water systems to assess and improve their infrastructure by physically locating and mapping the primary water system assets with GPS equipment and then importing the field-collected data onto the utility's computer. MRS then installed a GIS platform onto the utility's computer and trained the staff on the use of the software and how to view and print maps. The water systems were also provided with a 24" by 36" laminated map of the distribution system for office use. In 2017, MRS completed 37 assessment reports, collected GPS data at 37 water systems, and installed and trained 37 water systems on the use of the GIS software.

### **Area Wide Optimization Program**

The Arkansas Department of Health has been participating in the EPA Region 6/7 Area Wide Optimization Program (AWOP) with the States of New Mexico, Oklahoma, Louisiana, Texas, Missouri, Kansas and Iowa, EPA Region 6 staff, EPA Region 7 staff and EPA Technical Support Center Staff. During Calendar year 2017, staff members attended the AWOP quarterly meetings and shared information and program implementation with other states. Turbidity data from monthly operation reports was entered into an Access database for performance tracking and to determine prioritization of efforts.

## **Sanitary Surveys**

Sanitary Surveys conducted by technical staff can consist of reporting deficiencies in the construction or design of a public water system or the operation of the public water system. Sanitary Surveys combined with monitoring and reporting, to complement each other, can be indispensable for assuring the long-term quality and safety of drinking water. In calendar year 2017, there were approximately three hundred eighty one (381) sanitary surveys performed. Two hundred seventy one (271) Sanitary Surveys were performed on the state's community water systems, ninety four (94) Sanitary Surveys were performed on transient non-community water systems, sixteen (16) on non-transient non-community water systems. During the sanitary surveys of community and non-transient non-community water systems, owners are notified of "significant deficiencies". A list of significant deficiencies was developed by ADH staff in compliance with the sanitary survey requirements of the Enhanced Surface Water Treatment Rule and Ground Water Rule. Significant deficiencies are obvious shortcomings that could directly affect water quality and require immediate attention by the owner. Under the ADH protocol developed, owners are notified verbally of the deficiency during the survey and again notified by certified letter following the survey. Surface water systems are given 45 days following the written notification to respond with a plan of action and a timetable to address the significant deficiency. Groundwater systems are given 30 days following written notification to confer with the State and 120 days to be in compliance with an approved corrective action plan.

## **Industry Education**

The Engineering Section has continued its efforts in educating and informing members of the water industry as well as the general public with its web site and its quarterly newsletter. From the website, water operators can obtain information about various Section programs; download copies of state regulations, policies, compliance documents and operations reports; determine the result of microbiological analyses, the status of the review of construction plans; and obtain information or guidance about numerous other areas of the drinking water program

The Section's quarterly newsletter, Arkansas Drinking Water Update, has a distribution of approximately 3650 and a copy is mailed to every water system or licensed water operator as well as all city mayors within the state. Each issue of the newsletter contains information of relevance to the water industry including articles on proposed and final state and federal regulations as well as guidance for implementing the regulations, capacity development, source water protection, water system security, cross connection control, operator training, water licensing, water treatment, area wide optimization, noncompliant systems, fluoridation, and other areas.

Additionally, the Engineering Section has participated in past years and continued in 2017 in sponsoring technical tracks at the annual conferences for both the Arkansas Water Works and Water Environment Association and the Arkansas Rural Water Association. At the AWW&WEA conference, the Engineering Section sponsored two technical tracks with a total of 12 separate sessions on issues including regulations and regulatory compliance, treatment and distribution technical matters, and treatability studies. At the ARWA conference, the Engineering section sponsored one technical track with a total 8 separate sessions on similar topics.

## **Source Water Assessment Program (SWAP)**

The Source Water Assessment Program (SWAP), required by the Safe Drinking Water Act Amendments of 1996, was developed by the Department of Health and was submitted to and approved by the U.S. Environmental Protection Agency during calendar year 1999. In 2003, SWAP reports were produced for each public water system to serve as a management tool for implementing source protection activities. Initially, the SWAP Model located all sources of drinking water utilized by public water systems, delineated “assessment areas” around each source, and mapped potential contaminants within the delineated areas for approximately 1500 drinking water sources in Arkansas. At the close of 2017, 1070 PWS systems were active in Arkansas. Thirty three (33) PWS reached substantial implementation status in 2017; see the table, below for details:

| <b>State</b>    | <b># CWS w/ Sub Imp</b> | <b>% CWS w Sub Imp</b> | <b># of People served by CWS w/ Sub Imp</b> | <b># of People served by all CWS</b> | <b>% of population served by all CWS</b> | <b>% of population served by CWS under Sub Imp</b> |
|-----------------|-------------------------|------------------------|---|--------------------------------------|--|--|
| <b>Arkansas</b> | 428                     | 62.1                   | 1,997,805                                   | 2,845,160                            | 94.7                                     | 70.2   |

The source water assessment program became fully staffed in 2017 for the first time since mid2015 and consists of a geology supervisor, an ADH EH Supervisor/GIS Analyst, a geologist, a WHPP EHS (11 months), and a GIS EHS (10 months). Much of our effort was geared at the orientation, training and direct supervision of the new GIS staff. New GIS staff attended operator training, including ADH Compliance course, Basic Treatment, and Basic Water Math. SWAP staff completed a total of five (5) Phase I Delineation Wellhead Protection (WHP) reports covering twenty one (21) wells and five (5) Phase II Potential Sources of Contamination (PSOC) Inventory WHP reports covering six (6) wells were completed. An additional twelve (12) PSOC Maps were created for twelve (12) sources. ADH also constructed PSOC maps for Arkansas Rural Water Association three (3) source water protection plans covering surface water sources with seventy two (72) PSOC maps.

Collaboration with other stakeholders is instrumental to effective source water protection. SWAP staff played key roles in 2017 in the Arkansas Forestry and Drinking Water Forum, ADEQ Water Quality Assessment Methodology stakeholders group, State Agency GIS Agency Coordination work group, SWAP staff provided sixteen (16) source water protection presentations, wrote three (3) newsletter articles, and managed seven (7) information booths on source water protection on twenty six (26) occasions, participated with other agencies regarding source protection one hundred thirty two (132) times, disseminated source water assessment reports (8) or technical assistance to public water suppliers on hundred eighteen (118), performed eight (8) public water supply well recommendations, reviewed drill cuttings for four (4) new wells, and conducted eight hundred seventy six (876) miscellaneous environmental permit reviews, including five (5) AOGC Form 36 UIC evaluations and two (2) additional UIC comment letters. Additional activities conducted (267 total logged) included screening and responding to requestors for SWAP GIS data, providing information on hydrogeology and associated technical support for PWS, adoption of drinking water protection ordinances to local governments, performing proximity analyses, and reviewing and commenting on a variety of construction and environmental projects that have the potential to impact public water supply sources in the state.

Collection and verification of data necessary for accurate and improved source water assessments has been ongoing since inception in 2003. SWPP staff continued to maintain the existing source water assessment GIS database in 2016. SWPP staff continued to fill data gaps for SWAP Version 2 Model during the review period, including completion of all 1044 wellhead deficiency surveys, with supporting maps, data review, data dictionary preparation and training and supervision of summer intern/s. Reissuance of SWAP reports for surface systems will be distributed by June 30, 2018.

### **Cross-Connection Control Program**

Long term approximately ninety (90) percent of the community water systems surveyed have at least a partial Cross Connection Control Program (CCCP) and approximately 1/3 of the community water systems have a 100% complete CCCP. Each year some systems let their cross-connection control program lapse because of operator turnover or from general lack of effort.

During 2017, the CCCP engineer made thirty-two (32) CCCP surveys at water utilities. Of these utilities, seven (7) systems had a CCCP with deficiencies of available documentation and/or implementation, and eighteen (18) systems have a 100% complete program. Four (4) visits were made to waterworks district meetings and conferences to provide CCCP presentations and training. The CCCP engineer is active in the American Backflow Prevention Association and the Backflow Prevention Association of Arkansas of which he is a member of the board of directors. He attended all four board meetings and taught four (4) classes. He also taught the CCCP updates class at the Arkansas Water Works & Water Environment Association conference, and serves on the Arkansas Environmental Training Academy advisory board to the chancellor of Southern Arkansas University. In addition to providing technical support to district engineering staff, the CCCP completed four hundred and one (401) review/comment/approve assignments for engineering submittals for commercial fire protection systems in Arkansas.

### **Comprehensive Performance Evaluations**

A CPE is an evaluation of a surface water plant to determine whether the drinking water facility is operating at its optimum capacity and is maintaining compliance with applicable drinking water regulations. The CPE is a systematic procedure that identifies the unique combination of factors, in the areas of design, operation, maintenance and administration that would limit the performance of the water system. It was developed to improve performance by using existing facilities thereby minimizing construction alternatives. The CPE is focused on improving performance of surface water systems by optimizing the use of existing facilities, and, if possible, avoiding construction of new facilities. The ADH has established a goal of conducting two (2) or three (3) CPE's per calendar year. In calendar year 2017, no CPE's were conducted. A CPE was scheduled at Magnolia, but was repeatedly postponed by the water system and was not conducted until 2018. The CPE engineer was assigned multiple sanitary surveys to conduct and multiple sets of plans to review due to a lack of district staff. The CPE program engineer supervisor worked on sanitary surveys, plan review, and supervision of two districts due to a vacancy in the district supervisor position.

Data Audits were conducted at Amity, Ozark Mountain Regional Water Authority, Mountain Home, Gillham Regional, Little River, Pangburn, and at the Booneville HDC water systems. Issues were found and followed up on. The issues ranged from very minor to will full data falsification that resulted in multiple violations being issued and the water operator losing his license.

## **Microbial / Disinfection Byproduct Rules Programs**

The Arkansas Department of Health (ADH) has been providing early implementation activities for the LT2ESWTR, Stage 2 DBPR, and GWR. Compliance assistance efforts for the calendar year 2017 in these areas include the following:

**Long Term 2 Enhanced Surface Water Treatment Rule:** As part of early implementation strategies for large and small systems, the first round of source monitoring for *Cryptosporidium* and *E. coli* has been completed. All seven of the Bin 2 Systems (4 large and 3 small) are obtaining 1.0-log of credit by documenting treatment performance in their combined filter and individual filters. To date, one system had a maintenance problem and did not meet the minimum treatment requirements to obtain the 1.0-log of *Cryptosporidium* monthly inactivation credit for one month (November 2014), per the LT2ESWTR. The second round of source monitoring for *Cryptosporidium* and *E. coli* for large systems began in July 2014 (early). *Cryptosporidium* and *E. coli* monitoring at eleven (11) large systems (18 sources) has been completed, and the remaining sixteen (16) large systems (20 sources) began monitoring in July 2016. No additional Bin 2 sources have been found thus far. There are sixty four (64) small water systems with seventy five (75) sources (less than 10,000 populations) that began Round 2 monitoring for *E. coli* in January 2015. All of these completed sampling by the end of 2017. Eighteen (18) small systems with twenty one (21) sources triggered *Cryptosporidium* sampling which will begin in July 2018. One proposed new source will be monitored beginning July 2018 as well. Grading for monitoring and reporting requirements will be conducted monthly for 24 months for each of the large and small system sources. Source water monitoring data will be used to categorize the source water *Cryptosporidium* concentration into one of four “bin” classifications based on the average concentration of the pathogen in the source water. The second round of source monitoring will continue into year 2020. Analyses of large system samples continue to be outsourced to IEH-BioVir Laboratories for *E. coli* and *Cryptosporidium*. Any new *E. coli* samples for small systems will be analyzed in-house by the Arkansas Public Health Laboratory.

**Stage 2 Disinfectants and Disinfection By Products Rule:** As part of continued implementation strategies, TTHM and HAA5 monitoring plans were updated and approved as needed for all non-transient non-community water systems. One (1) water system with results exceeding 80 ppb for TTHM and/or 60 ppb HAA5 was placed on increased monitoring. All of the Capital Improvement extensions granted under Stage 2 are now over and all systems are being monitored for compliance. Arkansas continued using the disinfection by-product and treatment technique calculation reports and monitoring plans format and continued the operational evaluation level (OEL) report State review policy and tools. A total of one hundred fourteen (114) OEL exceedance notifications were issued in calendar year 2017. Eighty-five (85) OEL reports were received in calendar year 2017.

**Ground Water Rule:** During the calendar year 2017, seventeen (17) systems conducted Compliance Monitoring (i.e., monitoring to determine compliance with 4-log virus treatment). Grading for monitoring and reporting requirements was conducted on a monthly basis for each of these system sources. One system was issued violations for failure to maintain CT. There were no violations issued for failure to conduct compliance monitoring. TCR sampling data was reviewed daily for five hundred ninety (590) ground water systems with a total of eight hundred thirty three (833) ground water well sources during the 2017 calendar year. From this subset of systems approximately four hundred nine (409) routine distribution system samples tested total coliform positive and triggered source water monitoring was necessary. A total of fifteen (15) system sources tested *E. coli* positive and required additional raw water *E. coli* monitoring. One system had confirmed *E. coli* positive samples as a result of the additional monitoring. A total of zero (0) violations were issued for failure to meet State designated interim measures. A total of one hundred thirteen (113) groundwater consecutive systems were tracked monthly to assure their special GWR compliance criteria.

## **Technical Assistance & Training**

Technical assistance and training provided by the Engineering staff occurs in many different areas and in many different forms. Among the more common areas in which technical assistance and training are generally provided are the following:

- Comprehensive Performance Evaluations and follow-ups.
- Comprehensive Technical Assistance
- Jar tests and jar test calibrations
- Disinfection profiles
- Chlorine control studies
- Filter studies & filter backwash procedure studies
- Process control sampling and evaluations
- Field testing of total trihalomethanes
- Bench scale testing of treatment plant modifications
- Distribution system evaluations and modeling to lessen water age and improve water quality.
- Storage tank evaluations and modeling to lessen water age and improve water quality.
- Tracer studies
- Collection of special samples for inorganic and organic analyses
- Evaluation, testing and recommendations on treatment modifications to improve water quality in areas such
  - as disinfection by-products reduction, coagulants, filters, filter backwash, total organic carbon removal, color removal, disinfectants, oxidants, and iron and manganese removal.
- Evaluation, testing, and recommendations on the employment of alternate water sources due to drought conditions.
- Evaluation, testing and recommendations on the development of new sources of water.
- Training of water operators in basic system operation, and onsite water quality monitoring including turbidity, pH, chlorine and chlorine dioxide.
- Input and recommendations on long range and master planning
- Cross connection control program implementation, surveys and incident investigations.

Among the water systems receiving other technical assistance related to disinfection byproducts in 2017 were; Brinkley, Mount Ida, East Monroe County, Paris, Faircrest, Des Arc, Montgomery County, Lake Village, Lake Chicot, Chicot Junction, Lee County, Moro, Marianna, Old Union, Havana, Hope, Bodcaw, SAWS, Riviera, and Paron Owensville. This technical assistance includes but is not limited to tank studies, THM+ profiling, water age control, monitoring plan updates, chlorine control, total organic carbon treatment technique optimization through jar testing and pilot studies, and water system inspections.

Area Wide Optimization Program related activities, discussed elsewhere in this report, include a Comprehensive Performance Evaluation, Comprehensive Technical Assistance, and quarterly and annual AWOP meetings. Systems involved in AWOP activities in addition to those systems listed under disinfection byproduct technical assistance above: Amity, Central Arkansas Water, Gillham Regional, Jonesboro, Ozark Mountain Regional, Mountain Home, Little River, Magnolia, Pangburn, and Booneville HDC.

Additionally, for the past several summers, the Engineering Section has employed one or more summer interns to check calibration of monitoring equipment, specifically turbidity and chlorine, at water systems throughout the state. During 2017, summer interns checked the calibration of two



hundred eighty (280) turbidimeters, sixty eight (68) pH meters, and ninety (91) chlorine analyzers at thirty six (36) surface water treatment plants. Only 84% of the turbidimeters, 49% of the pH meters, and 77% of the chlorine analyzers were found to be in calibration.

In addition, the interns collected GIS location data (2 meter accuracy) and wellhead deficiency data on approximately 450 wells.

### **Water Operator Licensing and Training**

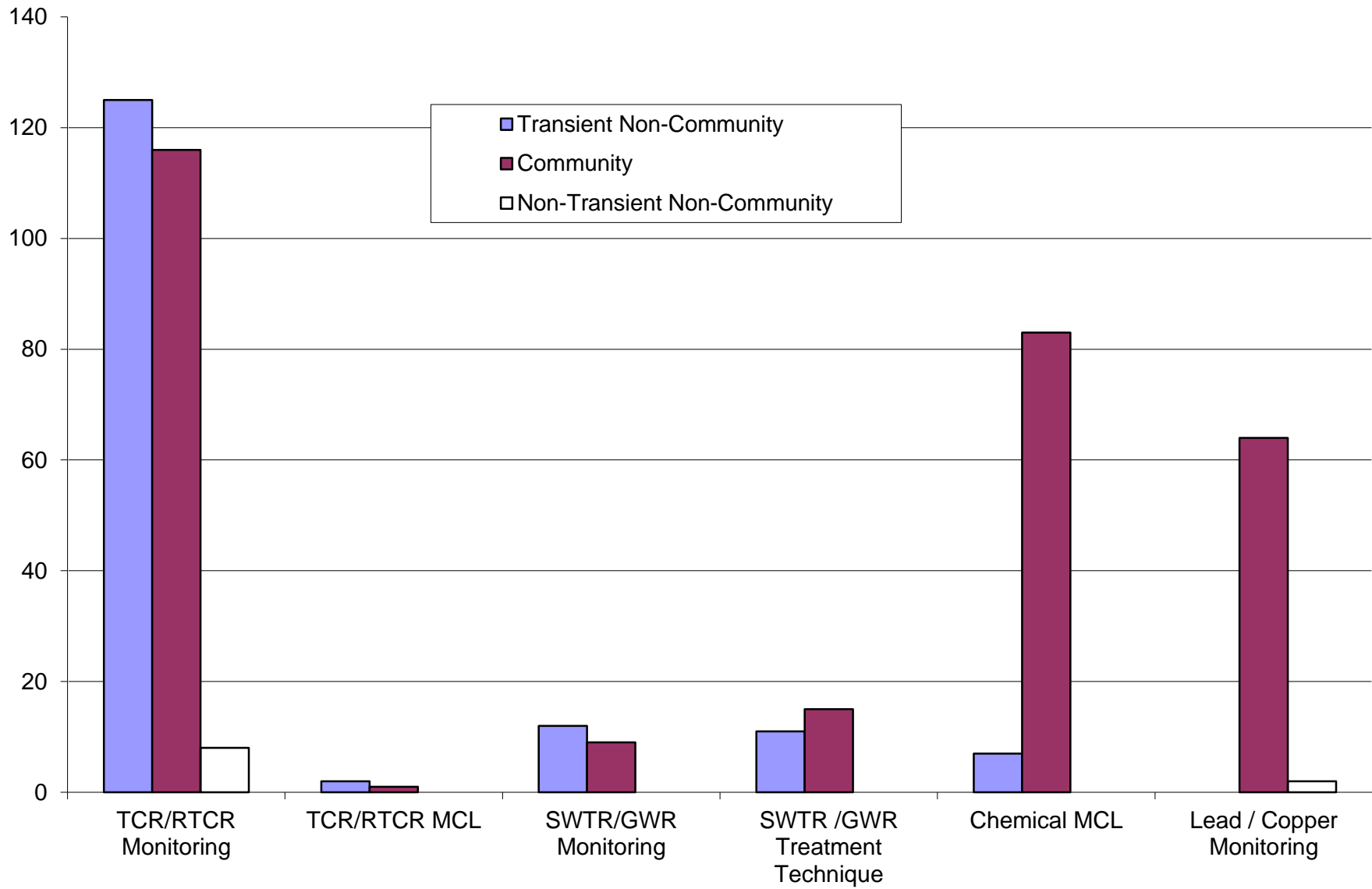
The purpose of licensing and training water operators is to ensure that all public water systems in the State of Arkansas are maintained by personnel who have shown their competence and knowledge of the public health and scientific principles necessary to produce and deliver adequate quantities of water which meets or exceeds the National Primary and Secondary Drinking Water Standards.

In order to sit for a water operator license exam, specific curriculum based courses must be attended. The nine (9) courses range from 8 to 24 hours in length with total hours ranging from 40 hours required for the lowest license grades and 96 hours for the highest license grades. The approved course providers for the treatment, distribution, and math courses are the Arkansas Environmental Training Academy and the Arkansas Rural Water Association. The Arkansas Environmental Training Academy provided forty nine (49) classroom courses in calendar 2017. In addition, AETA conducted twenty four (24) internet based mandatory training courses in calendar year 2017. The Arkansas Rural Water Association provided twenty three (23) courses in calendar year 2017. The Engineering Section is the only approved provider of the required public water system regulations and Safe Drinking Water Act compliance course. The Compliance course was provided sixteen (16) times in calendar year 2017. A total of one hundred twelve (112) mandatory training sessions were offered by the three approved training organizations in calendar year 2017. Courses offered continue to decrease as the impact of lost federal training grants have ceased or decreased available monies for conducting training courses. The reduced number of courses offered have remained relatively stable the last couple of years. The decreased number of courses has resulted in some classes having larger than ideal participant numbers and additional operator travel cost reaching available courses to meet training requirements.

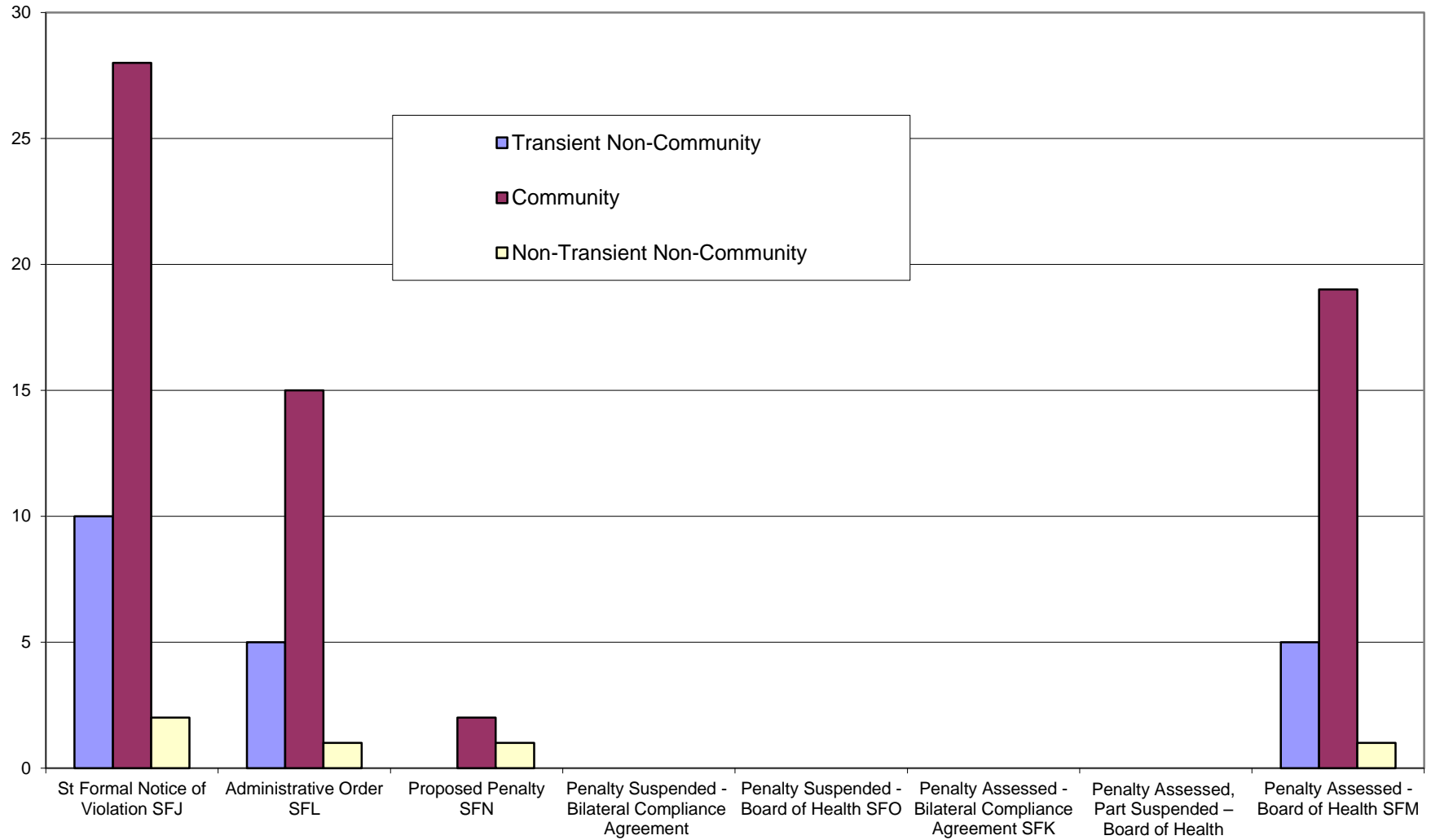
A large number of approved general and specialized training courses are provided to assist licensed operator in meeting their continuing education requirements for license renewal. The courses are offered through conferences, general meetings, and workshops, and are provided by the Arkansas Water Works and Water Environment Association and its local training districts, the Arkansas Rural Water Association; the Arkansas Environmental Academy; the Arkansas Water and Wastewater Managers Association and the Arkansas Department of Health. Various other industry groups and private vendors offer a large array of other relevant training, both site based and internet based to water operators.

In calendar year 2017, approximately six hundred eight (608) water operator license exams were administered, two hundred twenty six (226) water operator licenses were issued, and ninety four (94) Operator-In-Training (OIT) certificates were issued. An OIT is issued to operators who do not meet the experience requirement at the time their license exam was passed. Upon completion of their experience requirement the license is issued. The water licensing program had two thousand one hundred twenty two (2122) active licensed water operators at the end of calendar year 2017. They held three thousand seventy two (3072) treatment, distribution, and/or very small system licenses.

## Violations By Type Of System Graph



**Enforcement Actions By Type Of System Graph**



# **APPENDICES**

## **Appendix A - Microbiological Acute Maximum Contaminant Level Violations**

**PWS type:** C

| <b>PWS ID</b> | <b>System Name</b>      | <b>SDWIS Code</b> | <b>Violation Date</b> | <b>Retail population</b> |
|---------------|-------------------------|-------------------|-----------------------|--------------------------|
| 178           | BOIS D'ARC WATER SYSTEM | 1A                | 12/1/2017             | 50                       |

**PWS type:** N

| <b>PWS ID</b> | <b>System Name</b>         | <b>SDWIS Code</b> | <b>Violation Date</b> | <b>Retail population</b> |
|---------------|----------------------------|-------------------|-----------------------|--------------------------|
| T0472         | ROCKING CHAIR RANCH        | 1A                | 8/1/2017              | 84                       |
| T0797         | USFS LITTLE PINES REC AREA | 1A                | 8/1/2017              | 25                       |

## **Appendix B - Microbiological Maximum Contaminant Level Violations**

**PWS type:** C

| <b>PWS</b> | <b>System Name</b>      | <b>SDWIS Code</b> | <b>Violation Date</b> | <b>Retail population</b> |
|------------|-------------------------|-------------------|-----------------------|--------------------------|
| 178        | BOIS D'ARC WATER SYSTEM | 1A                | 12/1/2017             | 50                       |

**PWS type:** N

| <b>PWS</b> | <b>System Name</b>         | <b>SDWIS Code</b> | <b>Violation Date</b> | <b>Retail population</b> |
|------------|----------------------------|-------------------|-----------------------|--------------------------|
| T0472      | ROCKING CHAIR RANCH        | 1A                | 8/1/2017              | 84                       |
| T0797      | USFS LITTLE PINES REC AREA | 1A                | 8/1/2017              | 25                       |

## Appendix C - Microbiological Monitoring - No Valid Samples

PWS type: C

| <b>PWS</b> | <b>System Name</b>                  | <b>SDWIS Code</b> | <b>Violation Date</b> | <b>Retail population</b> |
|------------|-------------------------------------|-------------------|-----------------------|--------------------------|
| 006        | ALMYRA WATERWORKS                   | 3A                | 6/1/2017              | 348                      |
| 271        | ALTHEIMER WATERWORKS                | 3A                | 3/1/2017              | 900                      |
| 271        | ALTHEIMER WATERWORKS                | 3A                | 4/1/2017              | 900                      |
| 721        | AURELLE WATER SYSTEM                | 3A                | 4/1/2017              | 296                      |
| 1178       | BAXTER-MARION REGIONAL WATER        | 3A                | 4/1/2017              | 360                      |
| 074        | BERRYVILLE WATERWORKS               | 3A                | 3/1/2017              | 5632                     |
| 074        | BERRYVILLE WATERWORKS               | 3A                | 4/1/2017              | 5632                     |
| 178        | BOIS D'ARC WATER SYSTEM             | 3A                | 4/1/2017              | 50                       |
| 178        | BOIS D'ARC WATER SYSTEM             | 3A                | 5/1/2017              | 50                       |
| 178        | BOIS D'ARC WATER SYSTEM             | 3A                | 6/1/2017              | 50                       |
| 178        | BOIS D'ARC WATER SYSTEM             | 3A                | 7/1/2017              | 50                       |
| 178        | BOIS D'ARC WATER SYSTEM             | 3A                | 8/1/2017              | 50                       |
| 178        | BOIS D'ARC WATER SYSTEM             | 3A                | 9/1/2017              | 50                       |
| 178        | BOIS D'ARC WATER SYSTEM             | 3A                | 10/1/2017             | 50                       |
| 178        | BOIS D'ARC WATER SYSTEM             | 3A                | 11/1/2017             | 50                       |
| 043        | CAVE SPRINGS WATERWORKS             | 3A                | 11/1/2017             | 3811                     |
| 181        | COLLINS WATER ASSOCIATION           | 3A                | 1/1/2017              | 269                      |
| 061        | DIAMOND CITY WATER                  | 3A                | 2/1/2017              | 1175                     |
| 061        | DIAMOND CITY WATER                  | 3A                | 3/1/2017              | 1175                     |
| 358        | FOUKE WATERWORKS                    | 3A                | 2/1/2017              | 940                      |
| 586        | FOUR MILE HILL WATER ASSOC          | 3A                | 12/1/2017             | 4603                     |
| 422        | GLENWOOD WATER DEPARTMENT           | 3A                | 11/1/2017             | 3023                     |
| 076        | GRAY ROCK WATER ASSOCIATION         | 3A                | 9/1/2017              | 738                      |
| 086        | GUM SPRINGS MUNICIPLE WATER UTILITY | 3A                | 1/1/2017              | 947                      |
| 086        | GUM SPRINGS MUNICIPLE WATER UTILITY | 3A                | 2/1/2017              | 947                      |
| 086        | GUM SPRINGS MUNICIPLE WATER UTILITY | 3A                | 7/1/2017              | 947                      |
| 086        | GUM SPRINGS MUNICIPLE WATER UTILITY | 3A                | 8/1/2017              | 947                      |
| 015        | HAMBURG WATERWORKS                  | 3A                | 9/1/2017              | 5481                     |
| 506        | HARTFORD WATERWORKS                 | 3A                | 2/1/2017              | 665                      |
| 506        | HARTFORD WATERWORKS                 | 3A                | 6/1/2017              | 665                      |
| 286        | HARTMAN WATERWORKS                  | 3A                | 11/1/2017             | 1230                     |
| 427        | HEAFER-BLACK OAK WATER ASSOC        | 3A                | 10/1/2017             | 436                      |
| 159        | HICKORY RIDGE WATERWORKS            | 3A                | 1/1/2017              | 280                      |
| 414        | HOUSTON WATERWORKS                  | 3A                | 6/1/2017              | 647                      |
| 010        | HUMPHREY WATERWORKS                 | 3A                | 2/1/2017              | 557                      |
| 010        | HUMPHREY WATERWORKS                 | 3A                | 8/1/2017              | 557                      |
| 010        | HUMPHREY WATERWORKS                 | 3A                | 11/1/2017             | 557                      |
| 010        | HUMPHREY WATERWORKS                 | 3A                | 12/1/2017             | 557                      |
| 145        | HWY 71 WATER DISTRICT #1 PWA        | 3A                | 1/1/2017              | 6250                     |
| 640        | JOHNSON TOWNSHIP WATER ASSOC        | 3A                | 7/1/2017              | 794                      |
| 552        | JUNCTION CITY WATERWORKS            | 3A                | 9/1/2017              | 726                      |
| 552        | JUNCTION CITY WATERWORKS            | 3A                | 12/1/2017             | 726                      |
| 420        | LAKE VIEW MUNICIPAL WATER           | 3A                | 2/1/2017              | 556                      |
| 063        | LEAD HILL WATERWORKS                | 3A                | 12/1/2017             | 428                      |
| 297        | LEWISVILLE WATERWORKS               | 3A                | 2/1/2017              | 1687                     |
| 297        | LEWISVILLE WATERWORKS               | 3A                | 10/1/2017             | 1687                     |

Wednesday, May 16, 2018

Appendix C

## Appendix C - Microbiological Monitoring - No Valid Samples

PWS type: C

| PWS | System Name                    | SDWIS Code | Violation Date | Retail population |
|-----|--------------------------------|------------|----------------|-------------------|
| 443 | LONDON WATERWORKS              | 3A         | 12/1/2017      | 1245              |
| 274 | LONG LAKE WATER ASSOCIATION    | 3A         | 2/1/2017       | 516               |
| 718 | LURTON-PELSOR WATER ASSOC      | 3A         | 3/1/2017       | 289               |
| 637 | MARVELL RURAL WATER ASSOC      | 3A         | 12/1/2017      | 1800              |
| 421 | MARVELL WATERWORKS             | 3A         | 12/1/2017      | 1187              |
| 705 | MC NEIL RURAL WATER ASSOC      | 3A         | 12/1/2017      | 1200              |
| 951 | MONTGOMERY CO REGIONAL PWA     | 3A         | 12/1/2017      | 0                 |
| 392 | MOUNT IDA WATERWORKS           | 3A         | 12/1/2017      | 3218              |
| 557 | NEW LONDON WATER ASSOCIATION   | 3A         | 6/1/2017       | 802               |
| 554 | NORPHLET WATERWORKS            | 3A         | 12/1/2017      | 1228              |
| 331 | NORTH CARBON CITY WATER ASSOC  | 3A         | 2/1/2017       | 113               |
| 331 | NORTH CARBON CITY WATER ASSOC  | 3A         | 3/1/2017       | 113               |
| 331 | NORTH CARBON CITY WATER ASSOC  | 3A         | 11/1/2017      | 113               |
| 676 | OAKHILLS SURB IMPROVMENT DIST  | 3A         | 11/1/2017      | 130               |
| 616 | ODEN- PENCIL BLUFF WATER ASSN. | 3A         | 7/1/2017       | 383               |
| 616 | ODEN- PENCIL BLUFF WATER ASSN. | 3A         | 8/1/2017       | 383               |
| 247 | OIL TROUGH WATERWORKS          | 3A         | 12/1/2017      | 284               |
| 753 | OLD BELLA VISTA POA            | 3A         | 11/1/2017      | 130               |
| 160 | PARKIN WATERWORKS              | 3A         | 2/1/2017       | 988               |
| 160 | PARKIN WATERWORKS              | 3A         | 12/1/2017      | 988               |
| 598 | PATTERSON WATERWORKS           | 3A         | 9/1/2017       | 452               |
| 623 | PERLA WATER ASSOCIATION        | 3A         | 1/1/2017       | 1900              |
| 623 | PERLA WATER ASSOCIATION        | 3A         | 6/1/2017       | 1900              |
| 234 | PERRYTOWN WATERWORKS           | 3A         | 12/1/2017      | 130               |
| 172 | PICKENS WATERWORKS             | 3A         | 4/1/2017       | 57                |
| 172 | PICKENS WATERWORKS             | 3A         | 7/1/2017       | 57                |
| 172 | PICKENS WATERWORKS             | 3A         | 10/1/2017      | 57                |
| 092 | POLLARD WATERWORKS             | 3A         | 10/1/2017      | 287               |
| 445 | POTTSVILLE WATER ASSOCIATION   | 3A         | 11/1/2017      | 4108              |
| 354 | PYATT WATERWORKS               | 3A         | 2/1/2017       | 225               |
| 354 | PYATT WATERWORKS               | 3A         | 7/1/2017       | 225               |
| 776 | RIDGEFIELD ESTATES             | 3A         | 11/1/2017      | 150               |
| 304 | SEDGWICK WATERWORKS            | 3A         | 5/1/2017       | 209               |
| 182 | SELMA WATER ASSOCIATION        | 3A         | 2/1/2017       | 1100              |
| 540 | SHADY ACRES MOBILE HOME PARK   | 3A         | 7/1/2017       | 60                |
| 537 | ST FRANCIS RURAL WATER ASSOC   | 3A         | 11/1/2017      | 1386              |
| 095 | SUCCESS WATERWORKS             | 3A         | 9/1/2017       | 164               |
| 057 | SULPHUR SPRINGS WATERWORKS     | 3A         | 3/1/2017       | 628               |
| 057 | SULPHUR SPRINGS WATERWORKS     | 3A         | 10/1/2017      | 628               |
| 057 | SULPHUR SPRINGS WATERWORKS     | 3A         | 11/1/2017      | 628               |
| 265 | SWIFTON WATERWORKS             | 3A         | 2/1/2017       | 1013              |
| 114 | TAYLOR WATERWORKS              | 3A         | 3/1/2017       | 655               |
| 137 | VANDERVOORT WATERWORKS         | 3A         | 8/1/2017       | 685               |
| 137 | VANDERVOORT WATERWORKS         | 3A         | 9/1/2017       | 685               |
| 639 | WALKERVILLE WATER ASSOCIATION  | 3A         | 6/1/2017       | 535               |
| 735 | WEST STONE COUNTY WATER ASSN   | 3A         | 1/1/2017       | 4634              |

Wednesday, May 16, 2018

Appendix C



## Appendix C - Microbiological Monitoring - No Valid Samples

PWS type: C

| PWS   | System Name                           | SDWIS Code | Violation Date | Retail population |
|-------|---------------------------------------|------------|----------------|-------------------|
| 779   | WEST WOODRUFF WATER DISTRICT          | 3A         | 9/1/2017       | 351               |
| 383   | YARBRO WATERWORKS                     | 3A         | 9/1/2017       | 388               |
| 319   | YORKTOWN WATER ASSOCIATION            | 3A         | 4/1/2017       | 8423              |
| 1161  | GLACIER WATER FAMD3377 FT. SMITH      | 3A         | 4/1/2017       | 30                |
| 1162  | GLACIER WATER FAMD8571 FT. SMITH      | 3A         | 4/1/2017       | 30                |
| 981   | HARVEST CHURCH                        | 3A         | 7/1/2017       | 75                |
| T0258 | HOLIDAY HILLS RESORT                  | 3A         | 7/1/2017       | 150               |
| 945   | HOT SPRINGS ORV PARK                  | 3A         | 4/1/2017       | 80                |
| 945   | HOT SPRINGS ORV PARK                  | 3A         | 8/1/2017       | 80                |
| T0332 | HOUSE OF BLESSINGS                    | 3A         | 6/1/2017       | 60                |
| 1009  | HOUSE OF LUKE MINISTRIES              | 3A         | 3/1/2017       | 50                |
| 1009  | HOUSE OF LUKE MINISTRIES              | 3A         | 4/1/2017       | 50                |
| 1009  | HOUSE OF LUKE MINISTRIES              | 3A         | 5/1/2017       | 50                |
| 1009  | HOUSE OF LUKE MINISTRIES              | 3A         | 6/1/2017       | 50                |
| 1009  | HOUSE OF LUKE MINISTRIES              | 3A         | 9/1/2017       | 50                |
| 1009  | HOUSE OF LUKE MINISTRIES              | 3A         | 10/1/2017      | 50                |
| 1105  | HOWARD COVE STRIPER AND RV            | 3A         | 2/1/2017       | 88                |
| 1043  | JIM'S SALOON                          | 3A         | 7/1/2017       | 25                |
| T0295 | KELLER'S KOVE RESORT                  | 3A         | 3/1/2017       | 150               |
| T0295 | KELLER'S KOVE RESORT                  | 3A         | 7/1/2017       | 150               |
| T0297 | KETTLE CAMPGROUND                     | 3A         | 4/1/2017       | 55                |
| T0308 | KOA CAMPGROUND STORE                  | 3A         | 4/1/2017       | 40                |
| T0381 | KWIK SERV                             | 3A         | 4/1/2017       | 500               |
| T0313 | LAKE NORFORK INN                      | 3A         | 6/1/2017       | 25                |
| T0313 | LAKE NORFORK INN                      | 3A         | 9/1/2017       | 25                |
| T1092 | Lake Norfolk Ozark Mountain Lodge     | 3A         | 5/1/2017       | 50                |
| T1092 | Lake Norfolk Ozark Mountain Lodge     | 3A         | 6/1/2017       | 50                |
| T1092 | Lake Norfolk Ozark Mountain Lodge     | 3A         | 9/1/2017       | 50                |
| T0316 | LAKESIDE COUNTRY CLUB                 | 3A         | 11/1/2017      | 120               |
| 982   | MULBERRY RIVER MOUNTAIN RANCH         | 3A         | 11/1/2017      | 25                |
| 1198  | NWS INC. WF0317 LITTLE ROCK           | 3A         | 12/1/2017      | 30                |
| T0244 | PARON FOOD MART                       | 3A         | 2/1/2017       | 25                |
| T0244 | PARON FOOD MART                       | 3A         | 5/1/2017       | 25                |
| T0244 | PARON FOOD MART                       | 3A         | 6/1/2017       | 25                |
| 1018  | Parthenon Church of God               | 3A         | 1/1/2017       | 35                |
| 1236  | PRIMO GLACIER OTW5 FAYETTEVILLE       | 3A         | 12/1/2017      | 60                |
| N0150 | PRIMO HARPS DARDANELLE                | 3A         | 4/1/2017       | 30                |
| N0202 | PRIMO HF119 SPRINGDALE                | 3A         | 6/1/2017       | 30                |
| N0212 | PRIMO HF135 MOUNTAIN HOME             | 3A         | 7/1/2017       | 30                |
| N0212 | PRIMO HF135 MOUNTAIN HOME             | 3A         | 12/1/2017      | 30                |
| 1152  | PRIMO REFILL LLC WMSC 0169 LONOKE     | 3A         | 4/1/2017       | 30                |
| 1145  | PRIMO REFILL LLC WMSC0062 BLYTHEVILLE | 3A         | 2/1/2017       | 30                |
| 1145  | PRIMO REFILL LLC WMSC0062 BLYTHEVILLE | 3A         | 6/1/2017       | 30                |
| 1147  | PRIMO REFILL LLC WMSC348 MONTICELLO   | 3A         | 3/1/2017       | 30                |
| N0175 | PRIMO REFILL LLCJONESBORO WAL-M128    | 3A         | 4/1/2017       | 30                |
| N0148 | Primo Russellville Harps              | 3A         | 4/1/2017       | 30                |
| N0197 | PRIMO WMNM 2471 BENTONVILLE           | 3A         | 12/1/2017      | 30                |

## Appendix C - Microbiological Monitoring - No Valid Samples

PWS type: C

| <b>PWS</b> | <b>System Name</b>                | <b>SDWIS Code</b> | <b>Violation Date</b> | <b>Retail population</b> |
|------------|-----------------------------------|-------------------|-----------------------|--------------------------|
| N0229      | PRIMO WMNM 3479 ROGERS            | 3A                | 2/1/2017              | 30                       |
| 1215       | PRIMO WMNM3654 ROGERS             | 3A                | 2/1/2017              | 30                       |
| 1189       | PRIMO WMNM4128 RUSSELLVILLE       | 3A                | 10/1/2017             | 30                       |
| 1225       | PRIMO WMNM5780 PARAGOULD          | 3A                | 2/1/2017              | 30                       |
| 1225       | PRIMO WMNM5780 PARAGOULD          | 3A                | 3/1/2017              | 30                       |
| 1200       | PRIMO WMNM6876 JONESBORO          | 3A                | 4/1/2017              | 30                       |
| 1199       | PRIMO WMNM6943 JONESBORO          | 3A                | 4/1/2017              | 30                       |
| 1197       | PRIMO WMNM6975 CABOT              | 3A                | 7/1/2017              | 30                       |
| 1196       | PRIMO WMNM7317 GREENBRIAR         | 3A                | 8/1/2017              | 30                       |
| 965        | PRIMO WMS0058 RUSSELLVILLE        | 3A                | 7/1/2017              | 80                       |
| N0157      | PRIMO WMSC0001 ROGERS             | 3A                | 2/1/2017              | 30                       |
| N0198      | PRIMO WMSC0024 JACKSONVILLE       | 3A                | 7/1/2017              | 30                       |
| 1205       | PRIMO WMSC0055 BOONEVILLE         | 3A                | 7/1/2017              | 30                       |
| N0151      | PRIMO WMSC0070 WEST MEMPHIS       | 3A                | 4/1/2017              | 30                       |
| N0153      | PRIMO WMSC0091 FOREST CITY        | 3A                | 4/1/2017              | 30                       |
| N0191      | PRIMO WMSC0124 LITTLE ROCK        | 3A                | 4/1/2017              | 30                       |
| 1112       | PRIMO WMSC0126 LITTLE ROCK        | 3A                | 4/1/2017              | 30                       |
| N0170      | PRIMO WMSC0144 FAYETTEVILLE       | 3A                | 2/1/2017              | 30                       |
| N0170      | PRIMO WMSC0144 FAYETTEVILLE       | 3A                | 4/1/2017              | 30                       |
| N0160      | PRIMO WMSC0145 JONESBORO          | 3A                | 4/1/2017              | 30                       |
| N0160      | PRIMO WMSC0145 JONESBORO          | 3A                | 11/1/2017             | 30                       |
| N0166      | PRIMO WMSC0160 ASH FLAT           | 3A                | 4/1/2017              | 30                       |
| N0166      | PRIMO WMSC0160 ASH FLAT           | 3A                | 10/1/2017             | 30                       |
| 921        | PRIMO WMSC0279 DEQUEEN            | 3A                | 4/1/2017              | 30                       |
| N0176      | PRIMO WMSC0281 HEBER SPRINGS      | 3A                | 3/1/2017              | 30                       |
| 963        | PRIMO WMSC0296 DARDANELLE         | 3A                | 6/1/2017              | 50                       |
| 930        | PRIMO WMSC0380 WALDRON            | 3A                | 5/1/2017              | 30                       |
| 983        | PRIMO WMSC2587 CABOT              | 3A                | 7/1/2017              | 30                       |
| 946        | PRIMO WMSC5260 ROGERS             | 3A                | 2/1/2017              | 30                       |
| 1186       | PRIMO WNM6971 PEA RIDGE           | 3A                | 2/1/2017              | 30                       |
| 1041       | PRIMO-GLACER ONF FAYETTville      | 3A                | 12/1/2017             | 30                       |
| T1097      | ROOST YOUR WHEELS                 | 3A                | 9/1/2017              | 120                      |
| 928        | SADDLER FALLS RESORT              | 3A                | 8/1/2017              | 30                       |
| T1109      | SUGAR CREEK LODGE                 | 3A                | 5/1/2017              | 25                       |
| T0524      | SUNRISE POINT RESORT              | 3A                | 4/1/2017              | 76                       |
| T0524      | SUNRISE POINT RESORT              | 3A                | 6/1/2017              | 76                       |
| T0524      | SUNRISE POINT RESORT              | 3A                | 8/1/2017              | 76                       |
| T0524      | SUNRISE POINT RESORT              | 3A                | 9/1/2017              | 76                       |
| T0931      | T & A SALOON & IRON HORSE STABLES | 3A                | 11/1/2017             | 50                       |
| T1053      | USCOE NF HOWARD COVE              | 3A                | 5/1/2017              | 100                      |
| T0832      | WAGON WHEEL RESTAURANT            | 3A                | 7/1/2017              | 150                      |
| 949        | WEST SHORE RESTAURANT             | 3A                | 4/1/2017              | 150                      |
| 949        | WEST SHORE RESTAURANT             | 3A                | 7/1/2017              | 150                      |

**PWS type:** N

| <b>PWS</b> | <b>System Name</b>               | <b>SDWIS Code</b> | <b>Violation Date</b> | <b>Retail population</b> |
|------------|----------------------------------|-------------------|-----------------------|--------------------------|
| T1066      | 201 XPRESS                       | 3A                | 12/1/2017             | 30                       |
| N0235      | ALEXA SPRINGS WATER COMPANY      | 3A                | 2/1/2017              | 25                       |
| N0074      | ASHLEY MINERAL SPRING            | 3A                | 8/1/2017              | 25                       |
| 1155       | BLUE BELL CAFE                   | 3A                | 5/1/2017              | 25                       |
| 1001       | Blue Heron Campground            | 3A                | 6/1/2017              | 25                       |
| T0079      | BLUE LADY RESORT                 | 3A                | 11/1/2017             | 45                       |
| T0120      | CAMP KIA KIMA                    | 3A                | 6/1/2017              | 500                      |
| T0120      | CAMP KIA KIMA                    | 3A                | 7/1/2017              | 500                      |
| 1171       | CK QUICK STOP                    | 3A                | 3/1/2017              | 25                       |
| 1171       | CK QUICK STOP                    | 3A                | 4/1/2017              | 25                       |
| T1103      | CLOUD 9 RV PARK                  | 3A                | 12/1/2017             | 50                       |
| T0269      | CORNER CAFÉ & DAIRY BAR          | 3A                | 11/1/2017             | 25                       |
| T1076      | ECHO CANYON RESORT & MARINA      | 3A                | 2/1/2017              | 30                       |
| T1076      | ECHO CANYON RESORT & MARINA      | 3A                | 7/1/2017              | 30                       |
| T0215      | FISH FIDDLE RESORT               | 3A                | 4/1/2017              | 50                       |
| 989        | FOODIE'S CAFÉ & CATERING         | 3A                | 7/1/2017              | 25                       |
| 942        | FRED BERRY CONSERVATION ED CTR   | 3A                | 6/1/2017              | 25                       |
| T0563      | FREEDOM RV PARK                  | 3A                | 2/1/2017              | 25                       |
| 972        | GENERAL WATER CONDITIONING       | 3A                | 3/1/2017              | 30                       |
| 972        | GENERAL WATER CONDITIONING       | 3A                | 8/1/2017              | 30                       |
| 972        | GENERAL WATER CONDITIONING       | 3A                | 9/1/2017              | 30                       |
| 926        | GIFT-TIQUES                      | 3A                | 12/1/2017             | 25                       |
| 1079       | GLACIER 42175 HARRISON           | 3A                | 12/1/2017             | 30                       |
| 1120       | GLACIER CASHSAV3301 RUSSELLVILLE | 3A                | 6/1/2017              | 30                       |
| 1109       | GLACIER ELMWOOD EXPRESS          | 3A                | 3/1/2017              | 30                       |
| 1109       | GLACIER ELMWOOD EXPRESS          | 3A                | 4/1/2017              | 30                       |
| 1168       | GLACIER FAM7888 SPRINGDALE       | 3A                | 4/1/2017              | 60                       |
| 1099       | GLACIER FTRAX4451 SPRINGDALE     | 3A                | 4/1/2017              | 30                       |
| 1099       | GLACIER FTRAX4451 SPRINGDALE     | 3A                | 12/1/2017             | 30                       |
| 1124       | GLACIER HM1 SPRINGDALE           | 3A                | 3/1/2017              | 30                       |
| 1124       | GLACIER HM1 SPRINGDALE           | 3A                | 4/1/2017              | 30                       |
| 1210       | GLACIER LES SPRINGDALE           | 3A                | 2/1/2017              | 30                       |
| 1210       | GLACIER LES SPRINGDALE           | 3A                | 6/1/2017              | 30                       |
| 1209       | GLACIER OTW WESLEY               | 3A                | 4/1/2017              | 30                       |
| 1209       | GLACIER OTW WESLEY               | 3A                | 6/1/2017              | 30                       |
| 1085       | GLACIER SMERC 1900 SPRINGDALE    | 3A                | 11/1/2017             | 30                       |
| 1096       | GLACIER SMERC300 ROGERS          | 3A                | 3/1/2017              | 30                       |
| 1096       | GLACIER SMERC300 ROGERS          | 3A                | 4/1/2017              | 30                       |

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**Appendix C**

## **Appendix C - Microbiological Monitoring - No Valid Samples**

**PWS type:** P

| <b>PWS</b> | <b>System Name</b>                  | <b>SDWIS Code</b> | <b>Violation Date</b> | <b>Retail population</b> |
|------------|-------------------------------------|-------------------|-----------------------|--------------------------|
| T0045      | ARK ST PARK-QUEEN WILHELMENA        | 3A                | 12/1/2017             | 223                      |
| N0032      | Evergreen Packaging INC, Pine Bluff | 3A                | 8/1/2017              | 950                      |
| N0029      | Great Lakes Chemical South          | 3A                | 10/1/2017             | 240                      |
| T1065      | GREENWICH CENTER                    | 3A                | 3/1/2017              | 30                       |
| N0241      | HUTCHINSON REALTY                   | 3A                | 11/1/2017             | 28                       |
| 1227       | JLM VA HOSPITAL                     | 3A                | 5/1/2017              | 4000                     |
| N0046      | NAT CTR FOR TOXOLOGICAL RES         | 3A                | 3/1/2017              | 400                      |
| N0046      | NAT CTR FOR TOXOLOGICAL RES         | 3A                | 6/1/2017              | 400                      |

**Appendix D - Microbiological Monitoring - Failure to collect Level 1 or Level 2 Assessment Samples**

**PWS type:** C

| <b>PWS</b> | <b>System Name</b>       | <b>SDWIS Code</b> | <b>Violation Date</b> | <b>Retail population</b> |
|------------|--------------------------|-------------------|-----------------------|--------------------------|
| 159        | HICKORY RIDGE WATERWORKS | 2A                | 12/1/2016             | 280                      |

**PWS type:** N

| <b>PWS</b> | <b>System Name</b>   | <b>SDWIS Code</b> | <b>Violation Date</b> | <b>Retail population</b> |
|------------|----------------------|-------------------|-----------------------|--------------------------|
| T0524      | SUNRISE POINT RESORT | 2A                | 8/1/2016              | 76                       |
| T0524      | SUNRISE POINT RESORT | 2A                | 9/1/2016              | 76                       |
| T0524      | SUNRISE POINT RESORT | 2A                | 4/1/2017              | 76                       |
| T0524      | SUNRISE POINT RESORT | 2A                | 6/1/2017              | 76                       |
| T0524      | SUNRISE POINT RESORT | 2A                | 7/1/2017              | 76                       |
| T0524      | SUNRISE POINT RESORT | 2A                | 8/1/2017              | 76                       |

## **Appendix E - Surface Water Treatment Rule Monitoring**

**PWS type:** C

| <b>PWS</b> | <b>System Name</b>         | <b>SDWIS Code</b> | <b>Violation Date</b> | <b>Retail population</b> |
|------------|----------------------------|-------------------|-----------------------|--------------------------|
| 580        | PANGBURN WATERWORKS        | 36                | 1/1/2017              | 2786                     |
| 334        | SUBIACO ACADEMY WATERWORKS | 36                | 5/1/2017              | 250                      |
| 577        | WEST FORK WATERWORKS       | 36                | 7/1/2017              | 2688                     |

**PWS type:** N

| <b>PWS</b> | <b>System Name</b>      | <b>SDWIS Code</b> | <b>Violation Date</b> | <b>Retail population</b> |
|------------|-------------------------|-------------------|-----------------------|--------------------------|
| N0074      | ASHLEY MINERAL SPRING   | 36                | 7/1/2017              | 25                       |
| 1155       | BLUE BELL CAFE          | 36                | 6/1/2017              | 25                       |
| 1018       | Parthenon Church of God | 36                | 1/1/2017              | 35                       |
| 1018       | Parthenon Church of God | 36                | 4/1/2017              | 35                       |
| T0524      | SUNRISE POINT RESORT    | 36                | 7/1/2017              | 76                       |
| T0524      | SUNRISE POINT RESORT    | 36                | 8/1/2017              | 76                       |

**Appendix F - Treatment Technique Violations: Surface Water Treatment Rule, Ground Water Rule and Long Term 2 (LT2)**

**PWS type:** C

| <b>PWS</b> | <b>System Name</b>         | <b>SDWIS Code</b> | <b>Violation Date</b> | <b>Retail population</b> |
|------------|----------------------------|-------------------|-----------------------|--------------------------|
| 601        | DARDANELLE WATERWORKS      | 41                | 7/31/2017             | 4228                     |
| 507        | FORT SMITH WATER UTILITIES | 41                | 8/31/2017             | 86209                    |
| 884        | HOSANNA HEIGHTS WATER      | 41                | 1/31/2017             | 50                       |
| 884        | HOSANNA HEIGHTS WATER      | 41                | 2/28/2017             | 50                       |
| 884        | HOSANNA HEIGHTS WATER      | 41                | 3/31/2017             | 50                       |
| 884        | HOSANNA HEIGHTS WATER      | 41                | 4/30/2017             | 50                       |
| 884        | HOSANNA HEIGHTS WATER      | 41                | 6/30/2017             | 50                       |
| 884        | HOSANNA HEIGHTS WATER      | 41                | 8/31/2017             | 50                       |
| 884        | HOSANNA HEIGHTS WATER      | 41                | 10/31/2017            | 50                       |
| 580        | PANGBURN WATERWORKS        | 41                | 12/31/2017            | 2786                     |

**PWS type:** N

| <b>PWS</b> | <b>System Name</b>          | <b>SDWIS Code</b> | <b>Violation Date</b> | <b>Retail population</b> |
|------------|-----------------------------|-------------------|-----------------------|--------------------------|
| N0235      | ALEXA SPRINGS WATER COMPANY | 41                | 2/28/2017             | 25                       |
| N0235      | ALEXA SPRINGS WATER COMPANY | 41                | 3/31/2017             | 25                       |
| N0235      | ALEXA SPRINGS WATER COMPANY | 41                | 5/31/2017             | 25                       |
| T1076      | ECHO CANYON RESORT & MARINA | 41                | 11/30/2017            | 30                       |

## Appendix G - Chemical Maximum Contaminant Level Violation

PWS type: C

| PWS ID | System Name               | SDWIS Code | Violation Definition  | Violation Date | Retail population |
|--------|---------------------------|------------|---|----------------|-------------------|
| 441    | ATKINS WATER SYSTEM       | 2950       | Maximum Contaminant Level Violation for<br><b>TTHM</b>                          | 7/1/2017       | 4439              |
| 441    | ATKINS WATER SYSTEM       | 2950       | Maximum Contaminant Level Violation for<br><b>TTHM</b>                          | 10/1/2017      | 4439              |
| 887    | BODCAW RURAL WATER SYSTEM | 2950       | Maximum Contaminant Level Violation for<br><b>TTHM</b>                          | 7/1/2017       | 1188              |
| 294    | BRADLEY WATERWORKS        | 2950       | Maximum Contaminant Level Violation for<br><b>TTHM</b>                          | 1/1/2017       | 567               |
| 660    | CASA WATER DEPT           | 2950       | Maximum Contaminant Level Violation for<br><b>TTHM</b>                          | 10/1/2017      | 1200              |
| 603    | DANVILLE WATERWORKS       | 2950       | Maximum Contaminant Level Violation for<br><b>TTHM</b>                          | 4/1/2017       | 2810              |
| 449    | DES ARC WATERWORKS        | 2950       | Maximum Contaminant Level Violation for<br><b>TTHM</b>                          | 1/1/2017       | 3964              |
| 449    | DES ARC WATERWORKS        | 2950       | Maximum Contaminant Level Violation for<br><b>TTHM</b>                          | 1/1/2017       | 3964              |
| 449    | DES ARC WATERWORKS        | 2950       | Maximum Contaminant Level Violation for<br><b>TTHM</b>                          | 4/1/2017       | 3964              |
| 449    | DES ARC WATERWORKS        | 2950       | Maximum Contaminant Level Violation for<br><b>TTHM</b>                          | 4/1/2017       | 3964              |
| 449    | DES ARC WATERWORKS        | 2950       | Maximum Contaminant Level Violation for<br><b>TTHM</b>                          | 7/1/2017       | 3964              |
| 449    | DES ARC WATERWORKS        | 2950       | Maximum Contaminant Level Violation for<br><b>TTHM</b>                          | 7/1/2017       | 3964              |
| 449    | DES ARC WATERWORKS        | 2950       | Maximum Contaminant Level Violation for<br><b>TTHM</b>                          | 10/1/2017      | 3964              |
| 809    | EAST LOGAN CO RURAL WATER | 2456       | Maximum Contaminant Level Violation for<br><b>Total Haloacetic Acids (HAA5)</b> | 7/1/2017       | 2008              |

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## Appendix G - Chemical Maximum Contaminant Level Violation

|     |                                      |      |  |           |      |
|-----|--------------------------------------|------|--|-----------|------|
| 809 | EAST LOGAN CO<br>RURAL WATER         | 2456 | Maximum Contaminant<br>Level Violation for<br><b>Total Haloacetic Acids (HAA5)</b> | 10/1/2017 | 2008 |
| 715 | EAST MONROE<br>COUNTY WATER<br>USERS | 2950 | Maximum Contaminant<br>Level Violation for<br><b>TTHM</b>                          | 1/1/2017  | 966  |
| 715 | EAST MONROE<br>COUNTY WATER<br>USERS | 2950 | Maximum Contaminant<br>Level Violation for<br><b>TTHM</b>                          | 4/1/2017  | 966  |
| 715 | EAST MONROE<br>COUNTY WATER<br>USERS | 2950 | Maximum Contaminant<br>Level Violation for<br><b>TTHM</b>                          | 7/1/2017  | 966  |
| 715 | EAST MONROE<br>COUNTY WATER<br>USERS | 2950 | Maximum Contaminant<br>Level Violation for<br><b>TTHM</b>                          | 10/1/2017 | 966  |
| 544 | FAIRCREST WATER<br>ASSOCIATION       | 2950 | Maximum Contaminant<br>Level Violation for<br><b>TTHM</b>                          | 4/1/2017  | 1244 |
| 544 | FAIRCREST WATER<br>ASSOCIATION       | 2950 | Maximum Contaminant<br>Level Violation for<br><b>TTHM</b>                          | 7/1/2017  | 1244 |
| 544 | FAIRCREST WATER<br>ASSOCIATION       | 2950 | Maximum Contaminant<br>Level Violation for<br><b>TTHM</b>                          | 10/1/2017 | 1244 |
| 546 | HARMONY WATER<br>ASSOCIATION         | 2950 | Maximum Contaminant<br>Level Violation for<br><b>TTHM</b>                          | 7/1/2017  | 336  |
| 546 | HARMONY WATER<br>ASSOCIATION         | 2950 | Maximum Contaminant<br>Level Violation for<br><b>TTHM</b>                          | 10/1/2017 | 336  |
| 602 | HAVANA WATERWORKS                    | 2456 | Maximum Contaminant<br>Level Violation for<br><b>Total Haloacetic Acids (HAA5)</b> | 1/1/2017  | 1143 |
| 765 | HWY 4 24 WATER<br>ASSOCIATION        | 2950 | Maximum Contaminant<br>Level Violation for<br><b>TTHM</b>                          | 4/1/2017  | 2165 |
| 313 | LEE COUNTY WATER<br>ASSOCIATION      | 2950 | Maximum Contaminant<br>Level Violation for<br><b>TTHM</b>                          | 1/1/2017  | 4760 |
| 313 | LEE COUNTY WATER<br>ASSOCIATION      | 2950 | Maximum Contaminant<br>Level Violation for<br><b>TTHM</b>                          | 1/1/2017  | 4760 |
| 313 | LEE COUNTY WATER<br>ASSOCIATION      | 2950 | Maximum Contaminant<br>Level Violation for<br><b>TTHM</b>                          | 4/1/2017  | 4760 |

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## Appendix G - Chemical Maximum Contaminant Level Violation

|     |                              |      |   |           |       |
|-----|------------------------------|------|---|-----------|-------|
| 313 | LEE COUNTY WATER ASSOCIATION | 2950 | Maximum Contaminant Level Violation for<br><b>TTHM</b>                          | 4/1/2017  | 4760  |
| 313 | LEE COUNTY WATER ASSOCIATION | 2950 | Maximum Contaminant Level Violation for<br><b>TTHM</b>                          | 7/1/2017  | 4760  |
| 313 | LEE COUNTY WATER ASSOCIATION | 2950 | Maximum Contaminant Level Violation for<br><b>TTHM</b>                          | 7/1/2017  | 4760  |
| 313 | LEE COUNTY WATER ASSOCIATION | 2950 | Maximum Contaminant Level Violation for<br><b>TTHM</b>                          | 10/1/2017 | 4760  |
| 109 | MAGNOLIA WATERWORKS          | 2456 | Maximum Contaminant Level Violation for<br><b>Total Haloacetic Acids (HAA5)</b> | 1/1/2017  | 12000 |
| 109 | MAGNOLIA WATERWORKS          | 2456 | Maximum Contaminant Level Violation for<br><b>Total Haloacetic Acids (HAA5)</b> | 1/1/2017  | 12000 |
| 951 | MONTGOMERY CO REGIONAL PWA   | 2950 | Maximum Contaminant Level Violation for<br><b>TTHM</b>                          | 1/1/2017  | 0     |
| 951 | MONTGOMERY CO REGIONAL PWA   | 2950 | Maximum Contaminant Level Violation for<br><b>TTHM</b>                          | 1/1/2017  | 0     |
| 951 | MONTGOMERY CO REGIONAL PWA   | 2950 | Maximum Contaminant Level Violation for<br><b>TTHM</b>                          | 4/1/2017  | 0     |
| 314 | MORO WATERWORKS              | 2950 | Maximum Contaminant Level Violation for<br><b>TTHM</b>                          | 1/1/2017  | 216   |
| 314 | MORO WATERWORKS              | 2950 | Maximum Contaminant Level Violation for<br><b>TTHM</b>                          | 1/1/2017  | 216   |
| 314 | MORO WATERWORKS              | 2950 | Maximum Contaminant Level Violation for<br><b>TTHM</b>                          | 4/1/2017  | 216   |
| 314 | MORO WATERWORKS              | 2950 | Maximum Contaminant Level Violation for<br><b>TTHM</b>                          | 4/1/2017  | 216   |
| 314 | MORO WATERWORKS              | 2950 | Maximum Contaminant Level Violation for<br><b>TTHM</b>                          | 7/1/2017  | 216   |
| 314 | MORO WATERWORKS              | 2950 | Maximum Contaminant Level Violation for<br><b>TTHM</b>                          | 7/1/2017  | 216   |

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## Appendix G - Chemical Maximum Contaminant Level Violation

|     |                              |      |   |           |      |
|-----|------------------------------|------|---|-----------|------|
| 314 | MORO WATERWORKS              | 2950 | Maximum Contaminant Level Violation for<br><b>TTHM</b>                          | 10/1/2017 | 216  |
| 392 | MOUNT IDA WATERWORKS         | 2950 | Maximum Contaminant Level Violation for<br><b>TTHM</b>                          | 1/1/2017  | 3218 |
| 392 | MOUNT IDA WATERWORKS         | 2950 | Maximum Contaminant Level Violation for<br><b>TTHM</b>                          | 1/1/2017  | 3218 |
| 392 | MOUNT IDA WATERWORKS         | 2950 | Maximum Contaminant Level Violation for<br><b>TTHM</b>                          | 4/1/2017  | 3218 |
| 136 | MULBERRY WATERWORKS          | 2950 | Maximum Contaminant Level Violation for<br><b>TTHM</b>                          | 7/1/2017  | 1648 |
| 136 | MULBERRY WATERWORKS          | 2950 | Maximum Contaminant Level Violation for<br><b>TTHM</b>                          | 9/2/2017  | 1648 |
| 136 | MULBERRY WATERWORKS          | 2950 | Maximum Contaminant Level Violation for<br><b>TTHM</b>                          | 10/1/2017 | 1648 |
| 557 | NEW LONDON WATER ASSOCIATION | 2456 | Maximum Contaminant Level Violation for<br><b>Total Haloacetic Acids (HAA5)</b> | 1/1/2017  | 802  |
| 557 | NEW LONDON WATER ASSOCIATION | 2456 | Maximum Contaminant Level Violation for<br><b>Total Haloacetic Acids (HAA5)</b> | 1/1/2017  | 802  |
| 557 | NEW LONDON WATER ASSOCIATION | 2950 | Maximum Contaminant Level Violation for<br><b>TTHM</b>                          | 4/1/2017  | 802  |
| 557 | NEW LONDON WATER ASSOCIATION | 2950 | Maximum Contaminant Level Violation for<br><b>TTHM</b>                          | 4/1/2017  | 802  |
| 557 | NEW LONDON WATER ASSOCIATION | 2950 | Maximum Contaminant Level Violation for<br><b>TTHM</b>                          | 7/1/2017  | 802  |
| 557 | NEW LONDON WATER ASSOCIATION | 2950 | Maximum Contaminant Level Violation for<br><b>TTHM</b>                          | 7/1/2017  | 802  |
| 328 | PARIS WATERWORKS             | 2456 | Maximum Contaminant Level Violation for<br><b>Total Haloacetic Acids (HAA5)</b> | 7/1/2017  | 4365 |
| 328 | PARIS WATERWORKS             | 2456 | Maximum Contaminant Level Violation for<br><b>Total Haloacetic Acids (HAA5)</b> | 10/1/2017 | 4365 |

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## Appendix G - Chemical Maximum Contaminant Level Violation

|     |                                  |      |  |           |      |
|-----|----------------------------------|------|--|-----------|------|
| 883 | PARON-OWENSVILLE<br>WATER AUTH   | 2456 | Maximum Contaminant<br>Level Violation for<br><b>Total Haloacetic Acids (HAA5)</b> | 1/1/2017  | 2071 |
| 883 | PARON-OWENSVILLE<br>WATER AUTH   | 2950 | Maximum Contaminant<br>Level Violation for<br><b>TTHM</b>                          | 1/1/2017  | 2071 |
| 883 | PARON-OWENSVILLE<br>WATER AUTH   | 2950 | Maximum Contaminant<br>Level Violation for<br><b>TTHM</b>                          | 1/1/2017  | 2071 |
| 883 | PARON-OWENSVILLE<br>WATER AUTH   | 2950 | Maximum Contaminant<br>Level Violation for<br><b>TTHM</b>                          | 4/1/2017  | 2071 |
| 883 | PARON-OWENSVILLE<br>WATER AUTH   | 2950 | Maximum Contaminant<br>Level Violation for<br><b>TTHM</b>                          | 4/1/2017  | 2071 |
| 251 | PFEIFFER WATER<br>AUTHORITY      | 2950 | Maximum Contaminant<br>Level Violation for<br><b>TTHM</b>                          | 7/1/2017  | 3167 |
| 040 | RAMBO WATER<br>DISTRICT #1 INC   | 1024 | Maximum Contaminant<br>Level Violation for<br><b>Cyanide</b>                       | 7/1/2017  | 93   |
| 040 | RAMBO WATER<br>DISTRICT #1 INC   | 1024 | Maximum Contaminant<br>Level Violation for<br><b>Cyanide</b>                       | 10/1/2017 | 93   |
| 329 | RATCLIFF<br>WATERWORKS           | 2456 | Maximum Contaminant<br>Level Violation for<br><b>Total Haloacetic Acids (HAA5)</b> | 7/1/2017  | 1350 |
| 329 | RATCLIFF<br>WATERWORKS           | 2456 | Maximum Contaminant<br>Level Violation for<br><b>Total Haloacetic Acids (HAA5)</b> | 7/1/2017  | 1350 |
| 329 | RATCLIFF<br>WATERWORKS           | 2456 | Maximum Contaminant<br>Level Violation for<br><b>Total Haloacetic Acids (HAA5)</b> | 10/1/2017 | 1350 |
| 889 | SOUTHWEST<br>ARKANSAS WATER SYST | 2950 | Maximum Contaminant<br>Level Violation for<br><b>TTHM</b>                          | 1/1/2017  | 1698 |
| 889 | SOUTHWEST<br>ARKANSAS WATER SYST | 2950 | Maximum Contaminant<br>Level Violation for<br><b>TTHM</b>                          | 4/1/2017  | 1698 |
| 889 | SOUTHWEST<br>ARKANSAS WATER SYST | 2950 | Maximum Contaminant<br>Level Violation for<br><b>TTHM</b>                          | 7/1/2017  | 1698 |
| 889 | SOUTHWEST<br>ARKANSAS WATER SYST | 2950 | Maximum Contaminant<br>Level Violation for<br><b>TTHM</b>                          | 10/1/2017 | 1698 |

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Appendix G

## Appendix G - Chemical Maximum Contaminant Level Violation

|     |                                    |      |   |           |       |
|-----|------------------------------------|------|---|-----------|-------|
| 846 | TRI COUNTY RWDD -<br>MOORES CHAPEL | 2950 | Maximum Contaminant<br>Level Violation for<br><b>TTHM</b> | 1/1/2017  | 2620  |
| 782 | TRI-COUNTY WATER<br>DISTBR DIST    | 2950 | Maximum Contaminant<br>Level Violation for<br><b>TTHM</b> | 4/1/2017  | 16671 |
| 782 | TRI-COUNTY WATER<br>DISTBR DIST    | 2950 | Maximum Contaminant<br>Level Violation for<br><b>TTHM</b> | 7/1/2017  | 16671 |
| 782 | TRI-COUNTY WATER<br>DISTBR DIST    | 2950 | Maximum Contaminant<br>Level Violation for<br><b>TTHM</b> | 10/1/2017 | 16671 |
| 654 | UNITED WATER<br>ASSOCIATION        | 2950 | Maximum Contaminant<br>Level Violation for<br><b>TTHM</b> | 4/1/2017  | 568   |
| 654 | UNITED WATER<br>ASSOCIATION        | 2950 | Maximum Contaminant<br>Level Violation for<br><b>TTHM</b> | 7/1/2017  | 568   |
| 654 | UNITED WATER<br>ASSOCIATION        | 2950 | Maximum Contaminant<br>Level Violation for<br><b>TTHM</b> | 7/1/2017  | 568   |
| 654 | UNITED WATER<br>ASSOCIATION        | 2950 | Maximum Contaminant<br>Level Violation for<br><b>TTHM</b> | 10/1/2017 | 568   |
| 298 | WALNUT HILL WATER<br>ASSOCIATION   | 2950 | Maximum Contaminant<br>Level Violation for<br><b>TTHM</b> | 10/1/2017 | 270   |

**PWS type:** P

| <b>PWS ID</b> | <b>System Name</b>      | <b>SDWIS Code</b> | <b>Violation Definition</b>                                   | <b>Violation Date</b> | <b>Retail population</b> |
|---------------|-------------------------|-------------------|---|-----------------------|--------------------------|
| N0241         | HUTCHINSON REALTY       | 1025              | Maximum Contaminant<br>Level Violation for<br><b>Fluoride</b> | 1/1/2017              | 28                       |
| N0241         | HUTCHINSON REALTY       | 1024              | Maximum Contaminant<br>Level Violation for<br><b>Cyanide</b>  | 4/1/2017              | 28                       |
| N0241         | HUTCHINSON REALTY       | 1024              | Maximum Contaminant<br>Level Violation for<br><b>Cyanide</b>  | 7/1/2017              | 28                       |
| N0241         | HUTCHINSON REALTY       | 1024              | Maximum Contaminant<br>Level Violation for<br><b>Cyanide</b>  | 10/1/2017             | 28                       |
| 932           | MOUNTAIN<br>DEVELOPMENT | 1025              | Maximum Contaminant<br>Level Violation for<br><b>Fluoride</b> | 1/1/2017              | 50                       |

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**Appendix G - Chemical Maximum Contaminant Level Violation**

|     |                      |      |  |           |    |
|-----|----------------------|------|--|-----------|----|
| 932 | MOUNTAIN DEVELOPMENT | 1024 | Maximum Contaminant Level Violation for <b>Cyanide</b> | 7/1/2017  | 50 |
| 932 | MOUNTAIN DEVELOPMENT | 1024 | Maximum Contaminant Level Violation for <b>Cyanide</b> | 10/1/2017 | 50 |

**Appendix H - Radium Maximum Contaminant Level Violation**

**PWS type:** C

| <b>PWS</b> | <b>System Name</b> | <b>SDWIS Code</b> | <b>Violation Date</b> | <b>Retail population</b> |
|------------|--------------------|-------------------|-----------------------|--------------------------|
| 096        | CORNING WATERWORKS | 4010              | 10/1/2017             | 3650                     |

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**Appendix H**

## **Appendix I - Lead & Copper Rule Monitoring & Treatment Technique**

**PWS type:** C

| <b>PWS ID</b> | <b>System Name</b>                    | <b>SDWIS Code</b> | <b>Violation Definition</b>        | <b>Violation Date</b> | <b>Retail population</b> |
|---------------|---------------------------------------|-------------------|------------------------------------|-----------------------|--------------------------|
| 796           | ADC EAST ARKANSAS REGIONAL            | 66                | LEAD CONSUMER NOTICE (LCR)         | 12/18/2016            | 1793                     |
| 271           | ALTHEIMER WATERWORKS                  | 66                | LEAD CONSUMER NOTICE (LCR)         | 11/23/2015            | 900                      |
| 088           | AMITY WATERWORKS                      | 66                | LEAD CONSUMER NOTICE (LCR)         | 1/12/2016             | 725                      |
| 068           | BANKS WATERWORKS                      | 66                | LEAD CONSUMER NOTICE (LCR)         | 1/28/2016             | 248                      |
| 377           | BASSETT WATERWORKS                    | 52                | FOLLOW-UP OR ROUTINE TAP M/R (LCR) | 10/1/2011             | 143                      |
| 622           | BATTS-LAPILE WATER ASSOCIATION        | 66                | LEAD CONSUMER NOTICE (LCR)         | 1/28/2016             | 583                      |
| 1178          | BAXTER MARION RURAL WATER ASSOCIATION | 52                | FOLLOW-UP OR ROUTINE TAP M/R (LCR) | 1/1/2016              | 360                      |
| 417           | BIRDSONG WHITTON WATER ASSOC          | 66                | LEAD CONSUMER NOTICE (LCR)         | 1/12/2016             | 464                      |
| 123           | BLACK OAK WATERWORKS                  | 66                | LEAD CONSUMER NOTICE (LCR)         | 1/14/2016             | 449                      |
| 336           | BOONEVILLE DEVELOPMENT CENTER         | 66                | LEAD CONSUMER NOTICE (LCR)         | 12/1/2016             | 275                      |
| N0014         | BRUNO PYATT SCHOOL                    | 66                | LEAD CONSUMER NOTICE (LCR)         | 11/19/2015            | 370                      |
| 919           | CALHOUN COUNTY WATER ASSN             | 66                | LEAD CONSUMER NOTICE (LCR)         | 1/28/2016             | 1553                     |

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Appendix I



## ***Appendix I - Lead & Copper Rule Monitoring & Treatment Technique***

|     |                                 |    |                                       |           |      |
|-----|---------------------------------|----|---------------------------------------|-----------|------|
| 661 | CHICOT JUNCTION<br>WATER ASSOC  | 66 | LEAD CONSUMER<br>NOTICE (LCR)         | 9/28/2016 | 681  |
| 181 | COLLINS WATER<br>ASSOCIATION    | 66 | LEAD CONSUMER<br>NOTICE (LCR)         | 12/1/2017 | 269  |
| 596 | COTTON PLANT<br>WATERWORKS      | 52 | FOLLOW-UP OR<br>ROUTINE TAP M/R (LCR) | 10/1/2011 | 1025 |
| 813 | COTTONWOOD WATER<br>ASSOCIATION | 52 | FOLLOW-UP OR<br>ROUTINE TAP M/R (LCR) | 10/1/2014 | 703  |
| 685 | DEER RUN WATER<br>COMPANY       | 66 | LEAD CONSUMER<br>NOTICE (LCR)         | 5/18/2011 | 121  |
| 685 | DEER RUN WATER<br>COMPANY       | 66 | LEAD CONSUMER<br>NOTICE (LCR)         | 3/1/2017  | 121  |
| 461 | DENNARD WATER<br>ASSOCIATION    | 66 | LEAD CONSUMER<br>NOTICE (LCR)         | 9/2/2016  | 908  |
| 082 | DERMOTT<br>WATERWORKS           | 66 | LEAD CONSUMER<br>NOTICE (LCR)         | 12/1/2017 | 2600 |
| 061 | DIAMOND CITY WATER              | 66 | LEAD CONSUMER<br>NOTICE (LCR)         | 6/22/2016 | 1203 |
| 376 | DYESS WATERWORKS                | 66 | LEAD CONSUMER<br>NOTICE (LCR)         | 2/1/2017  | 430  |
| 164 | FORDYCE WATER CO                | 66 | LEAD CONSUMER<br>NOTICE (LCR)         | 12/1/2017 | 4746 |
| 358 | FOUKE WATERWORKS                | 66 | LEAD CONSUMER<br>NOTICE (LCR)         | 4/1/2017  | 940  |
| 358 | FOUKE WATERWORKS                | 52 | FOLLOW-UP OR<br>ROUTINE TAP M/R (LCR) | 10/1/2015 | 940  |

**Appendix I - Lead & Copper Rule Monitoring & Treatment Technique**

|      |                              |    |                                    |            |      |
|------|------------------------------|----|------------------------------------|------------|------|
| 636  | FRENCHPORT WATER ASSOCIATION | 66 | LEAD CONSUMER NOTICE (LCR)         | 10/28/2015 | 1669 |
| 097  | GREENWAY WATERWORKS          | 52 | FOLLOW-UP OR ROUTINE TAP M/R (LCR) | 10/1/2016  | 322  |
| 427  | HEAFER-BLACK OAK WATER ASSOC | 66 | LEAD CONSUMER NOTICE (LCR)         | 1/12/2016  | 436  |
| 518  | HORATIO WATERWORKS           | 66 | LEAD CONSUMER NOTICE (LCR)         | 1/6/2016   | 1529 |
| 884  | HOSANNA HEIGHTS WATER        | 66 | LEAD CONSUMER NOTICE (LCR)         | 12/31/2015 | 50   |
| 749  | HWY 64 WATER ASSOCIATION     | 66 | LEAD CONSUMER NOTICE (LCR)         | 1/28/2016  | 215  |
| 122  | LAKE CITY WATERWORKS         | 66 | LEAD CONSUMER NOTICE (LCR)         | 3/1/2017   | 2182 |
| 420  | LAKE VIEW MUNICIPAL WATER    | 66 | LEAD CONSUMER NOTICE (LCR)         | 1/6/2016   | 638  |
| 726  | LAKESHORE ESTATES WATER ASSN | 66 | LEAD CONSUMER NOTICE (LCR)         | 1/13/2016  | 634  |
| 063  | LEAD HILL WATERWORKS         | 66 | LEAD CONSUMER NOTICE (LCR)         | 12/1/2016  | 428  |
| 1091 | LEATHERWOOD VIEW ESTATES     | 66 | LEAD CONSUMER NOTICE (LCR)         | 11/30/2016 | 40   |
| 1091 | LEATHERWOOD VIEW ESTATES     | 51 | INITIAL TAP SAMPLING (LCR)         | 7/1/2012   | 40   |
| 421  | MARVELL WATERWORKS           | 52 | FOLLOW-UP OR ROUTINE TAP M/R (LCR) | 7/1/2016   | 1187 |

## ***Appendix I - Lead & Copper Rule Monitoring & Treatment Technique***

|      |                                      |    |                                       |            |      |
|------|--------------------------------------|----|---------------------------------------|------------|------|
| 421  | MARVELL WATERWORKS                   | 66 | LEAD CONSUMER NOTICE (LCR)            | 1/14/2016  | 1187 |
| 683  | NEW HOPE WATER ASSOCIATION           | 66 | LEAD CONSUMER NOTICE (LCR)            | 3/1/2017   | 1159 |
| 557  | NEW LONDON WATER ASSOCIATION         | 66 | LEAD CONSUMER NOTICE (LCR)            | 12/9/2015  | 802  |
| 035  | NORFORK WATERWORKS                   | 66 | LEAD CONSUMER NOTICE (LCR)            | 9/11/2016  | 1503 |
| 1075 | NORTH HOWARD RURAL WATER ASSOCIATION | 58 | OCCT/SOWT INSTALL DEMONSTRATION (LCR) | 7/1/2017   | 964  |
| 175  | NORTHERN OHIO WATER ASSOC            | 66 | LEAD CONSUMER NOTICE (LCR)            | 1/12/2016  | 665  |
| 227  | OZAN WATERWORKS                      | 66 | LEAD CONSUMER NOTICE (LCR)            | 3/1/2017   | 425  |
| 580  | PANGBURN WATERWORKS                  | 52 | FOLLOW-UP OR ROUTINE TAP M/R (LCR)    | 7/1/2016   | 2786 |
| 172  | PICKENS WATERWORKS                   | 66 | LEAD CONSUMER NOTICE (LCR)            | 11/24/2016 | 57   |
| 202  | PLEASANT VIEW WATER FAC BOARD        | 65 | PUBLIC EDUCATION (LCR)                | 11/30/2016 | 1708 |
| 474  | POCAHONTAS WATERWORKS                | 66 | LEAD CONSUMER NOTICE (LCR)            | 12/18/2016 | 7547 |
| 354  | PYATT WATERWORKS                     | 66 | LEAD CONSUMER NOTICE (LCR)            | 12/1/2017  | 225  |
| 776  | RIDGEFIELD ESTATES WATER SYS         | 66 | LEAD CONSUMER NOTICE (LCR)            | 6/1/2017   | 150  |

## **Appendix I - Lead & Copper Rule Monitoring & Treatment Technique**

|     |                                  |    |                                       |            |      |
|-----|----------------------------------|----|---------------------------------------|------------|------|
| 776 | RIDGEFIELD ESTATES<br>WATER SYS  | 52 | FOLLOW-UP OR<br>ROUTINE TAP M/R (LCR) | 10/1/2014  | 150  |
| 731 | RIVER BEND PARK POA              | 66 | LEAD CONSUMER<br>NOTICE (LCR)         | 3/1/2017   | 523  |
| 491 | SALINE CO WW SS PFB              | 66 | LEAD CONSUMER<br>NOTICE (LCR)         | 11/13/2015 | 1900 |
| 005 | ST CHARLES<br>WATERWORKS         | 66 | LEAD CONSUMER<br>NOTICE (LCR)         | 12/1/2016  | 347  |
| 882 | SYLAMORE VALLEY<br>WATER ASSN    | 66 | LEAD CONSUMER<br>NOTICE (LCR)         | 10/21/2015 | 270  |
| 155 | TURRELL WATER<br>WORKS           | 66 | LEAD CONSUMER<br>NOTICE (LCR)         | 11/23/2015 | 625  |
| 065 | VALLEY SPRINGS<br>WATERWORKS     | 66 | LEAD CONSUMER<br>NOTICE (LCR)         | 6/1/2017   | 3075 |
| 065 | VALLEY SPRINGS<br>WATERWORKS     | 65 | PUBLIC EDUCATION<br>(LCR)             | 9/1/2016   | 3075 |
| 298 | WALNUT HILL WATER<br>ASSOCIATION | 66 | LEAD CONSUMER<br>NOTICE (LCR)         | 10/8/2015  | 270  |
| 806 | WIEDERKEHR VILLAGE<br>WATER DEPT | 66 | LEAD CONSUMER<br>NOTICE (LCR)         | 1/14/2016  | 77   |
| 806 | WIEDERKEHR VILLAGE<br>WATER DEPT | 52 | FOLLOW-UP OR<br>ROUTINE TAP M/R (LCR) | 7/1/2011   | 77   |
| 806 | WIEDERKEHR VILLAGE<br>WATER DEPT | 52 | FOLLOW-UP OR<br>ROUTINE TAP M/R (LCR) | 7/1/2010   | 77   |
| 806 | WIEDERKEHR VILLAGE<br>WATER DEPT | 52 | FOLLOW-UP OR<br>ROUTINE TAP M/R (LCR) | 1/1/2010   | 77   |
| 642 | WINTHROP WATER<br>ASSOCIATION    | 66 | LEAD CONSUMER<br>NOTICE (LCR)         | 3/1/2017   | 338  |

## **Appendix J - No Violations for This Calendar Year**

| <b>PWS ID</b>      | <b>System Name</b>             | <b>Retail population served</b> |
|--------------------|--------------------------------|---------------------------------|
| <b>PWS type: C</b> |                                |                                 |
| 811                | ACORN RURAL WATER ASSN         | 1975                            |
| 144                | ALMA WATERWORKS                | 5745                            |
| 058                | ALPENA WATERWORKS              | 550                             |
| 764                | ALPINE WATER ASSOCIATION       | 740                             |
| 424                | ANTOINE WATERWORKS             | 563                             |
| 790                | AR DEPT OF CORRECTION IZARD CO | 800                             |
| 085                | ARKADELPHIA WATERWORKS         | 10553                           |
| 667                | ARSENAL WATER SYSTEM           | 2577                            |
| 527                | ASH FLAT WATER COMPANY         | 1082                            |
| 320                | ASHDOWN WATERWORKS             | 4723                            |
| 597                | AUGUSTA WATERWORKS             | 2284                            |
| 584                | BALD KNOB WATERWORKS           | 2905                            |
| 785                | BARKADA WATER ASSOCIATION      | 381                             |
| 415                | BARTON LEXA WATER ASSOCIATION  | 4000                            |
| 819                | BASIN VALLEY WATER SYSTEM      | 376                             |
| 250                | BATESVILLE WATER UTILITIES     | 10026                           |
| 401                | BEARDEN WATERWORKS             | 2450                            |
| 038                | BEAVER WATER DISTRICT          | 52                              |
| 844                | BEAVERFORK VOLUNTEER FD WSD    | 3458                            |
| 904                | BEDFORD FALLS MHP              | 98                              |
| 462                | BEE BRANCH WATER               | 3135                            |
| 592                | BEEBE WATERWORKS               | 7898                            |
| 262                | BEEDEVILLE WATER WORKS         | 113                             |
| 039                | BELLA VISTA P.O.A.             | 26673                           |
| 059                | BELLEFONTE WATER               | 468                             |
| 600                | BELLEVILLE WATER               | 1103                            |
| 519                | BEN LOMOND WATERWORKS          | 120                             |
| 037                | BENTON CO WATER                | 5217                            |
| 899                | BENTON COUNTY WATER AUTHORITY4 | 543                             |
| 913                | BENTON COUNTY WATER AUTHORITY5 | 1622                            |
| 484                | BENTON WATERWORKS              | 30681                           |
| 041                | BENTONVILLE WATER UTILITIES    | 42343                           |
| 871                | BENTON-WASHINGTON REGIONAL PWA | 19                              |
| 060                | BERGMAN WATERWORKS             | 2945                            |
| 627                | BETHESDA WATER ASSOCIATION     | 1302                            |
| 799                | BIG CLIFTY WATER               | 150                             |
| 026                | BIG FLAT WATERWORKS            | 523                             |
| 476                | BIGGERS WATERWORKS             | 404                             |
| 448                | BISCOE WATERWORKS              | 380                             |

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**Appendix J**

## **Appendix J - No Violations for This Calendar Year**

| <b>PWS ID</b> | <b>System Name</b>                   | <b>Retail population served</b> |
|---------------|--------------------------------------|---------------------------------|
| 302           | BLACK ROCK WATERWORKS                | 698                             |
| 233           | BLEVINS WATERWORKS                   | 335                             |
| 365           | BLYTHEVILLE WATERWORKS               | 16413                           |
| 126           | BONO WATERWORKS                      | 2014                            |
| 336           | BOONEVILLE DEVELOPMENT CENTER        | 275                             |
| 326           | BOONEVILLE WATERWORKS                | 4108                            |
| 179           | BOWSER WATER ASSN                    | 569                             |
| 587           | BRADFORD WATERWORKS                  | 825                             |
| 054           | BRADLEY CO RURAL WATER ASSN          | 1438                            |
| 223           | BRECKENRIDGE UNION WATER ASSOC       | 1267                            |
| 024           | BRIARCLIFF WATERWORKS                | 313                             |
| 384           | BRINKLEY WATERWORKS                  | 4281                            |
| 131           | BROOKLAND WATERWORKS                 | 2797                            |
| 837           | BRUNNER HILL WATER ASSOC             | 1150                            |
| 486           | BRYANT WATERWORKS                    | 19607                           |
| 295           | BUCKNER WATERWORKS                   | 290                             |
| 737           | BUENA VISTA-OGEMAW WATER ASSOCIATION | 384                             |
| 671           | BUFFALO ISLAND REG WATER DIST        | 3429                            |
| 352           | BULL SHOALS WATER SYSTEM             | 2654                            |
| 366           | BURDETTE WATERWORKS                  | 606                             |
| 338           | CABOT WATERWORKS                     | 23776                           |
| 515           | CADDO VALLEY WATERWORKS              | 635                             |
| 532           | CALDWELL WATER                       | 1280                            |
| 003           | CALICO ROCK WATERWORKS               | 1642                            |
| 551           | CALION WATER WORKS                   | 494                             |
| 404           | CAMDEN WATERWORKS                    | 14825                           |
| 877           | CAMP ROBINSON                        | 1500                            |
| 127           | CARAWAY WATERWORKS                   | 1375                            |
| 339           | CARLISLE WATERWORKS                  | 2214                            |
| 675           | CARROLL-BOONE WATER DISTRICT         | 24                              |
| 165           | CARTHAGE WATER AND SEWER             | 338                             |
| 526           | CAVE CITY WATERWORKS                 | 2664                            |
| 138           | CEDARVILLE WATERWORKS                | 8423                            |
| 213           | CENTER GROVE WATER ASSOCIATION       | 4377                            |
| 044           | CENTERTON WATERWORKS                 | 13235                           |
| 465           | CENTRAL ARKANSAS WATER               | 313504                          |
| 845           | CENTRAL LOGAN COUNTY PWF             | 1230                            |
| 503           | CENTRAL PUBLIC WATER AUTHORITY       | 1218                            |
| 200           | CHARLESTON WATERWORKS                | 3568                            |
| 521           | CHEROKEE VILLAGE WATER ASSOC         | 4717                            |

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## **Appendix J - No Violations for This Calendar Year**

| <b>PWS ID</b> | <b>System Name</b>                   | <b>Retail population served</b> |
|---------------|--------------------------------------|---------------------------------|
| 158           | CHERRY VALLEY WATERWORKS             | 712                             |
| 661           | CHICOT JUNCTION WATER ASSOC          | 681                             |
| 446           | CITY CORPORATION                     | 29115                           |
| 385           | CLARENDON WATERWORKS                 | 1640                            |
| 741           | CLARK CO COUNTRY WATER FACILIT       | 2450                            |
| 148           | CLARKEDALE-JERICHO WATER ASSOC       | 925                             |
| 289           | CLARKSVILLE WATERWORKS               | 9410                            |
| 722           | CLAY CO REG WATER DISTRICT           | 5515                            |
| 069           | CLEVELAND CO RURAL WATER USERS ASSOC | 1637                            |
| 564           | CLINTON WATERWORKS                   | 5733                            |
| 533           | COLT WATER ASSOCIATION               | 910                             |
| 101           | COMMUNITY WATER SYSTEM               | 15646                           |
| 669           | COMPTON WATERWORKS                   | 811                             |
| 119           | CONWAY CO REGIONAL WATER DIST        | 18973                           |
| 189           | CONWAY WATER SYSTEM                  | 58908                           |
| 927           | CORINTH VALLEY WATER SYSTEM          | 84                              |
| 028           | COTTER WATERWORKS                    | 980                             |
| 439           | COVE WATERWORKS                      | 625                             |
| 149           | CRAWFORDSVILLE WATERWORKS            | 2032                            |
| 873           | CRESTWOOD MOBILE HOME PARK           | 34                              |
| 459           | CROSS COUNTY RURAL WATER SYS         | 9233                            |
| 017           | CROSSETT WATER COMMISSION            | 8038                            |
| 180           | CROWLEYS RIDGE WATER ASSOC           | 3611                            |
| 249           | CUSHMAN WATER SYSTEM                 | 1385                            |
| 190           | DAMASCUS WATER WORKS                 | 1490                            |
| 052           | DECATUR WATERWORKS                   | 3003                            |
| 670           | DEER WATER ASSOCIATION               | 882                             |
| 224           | DELAPLAINE WATERWORKS                | 150                             |
| 423           | DELIGHT WATERWORKS                   | 1577                            |
| 461           | DENNARD WATER ASSOCIATION            | 908                             |
| 199           | DENNING WATERWORKS                   | 755                             |
| 450           | DEVALLS BLUFF WATERWORKS             | 670                             |
| 008           | DEWITT WATERWORKS                    | 3294                            |
| 585           | DOGWOOD WATER ASSOCIATION            | 1345                            |
| 714           | DORCHEAT WATER ASSOCIATION           | 1860                            |
| 698           | Dota Public Water Authority          | 2662                            |
| 444           | DOVER WATERWORKS                     | 1587                            |
| 171           | DUMAS WATERWORKS                     | 4289                            |
| 143           | DYER WATERWORKS                      | 1010                            |
| 730           | DYESS RURAL WATER                    | 324                             |

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**Appendix J**

## **Appendix J - No Violations for This Calendar Year**

| <b>PWS ID</b> | <b>System Name</b>             | <b>Retail population served</b> |
|---------------|--------------------------------|---------------------------------|
| 376           | DYESS WATERWORKS               | 430                             |
| 886           | E CASS WATER SUPPLY CORP       | 150                             |
| 150           | EARLE WATERWORKS               | 1720                            |
| 772           | EAST JOHNSON CO WATER ASSN     | 4210                            |
| 768           | EAST NEWTON COUNTY WATER ASSN  | 1815                            |
| 539           | EASTSIDE HOMEOWNERS ASSOC      | 201                             |
| 350           | EDGEWOOD BAY WATER             | 279                             |
| 550           | EL DORADO WATERWORKS           | 18750                           |
| 418           | ELAINE WATERWORKS              | 1673                            |
| 567           | ELKINS WATERWORKS              | 3033                            |
| 111           | EMERSON WATERWORKS             | 1145                            |
| 393           | EMMET WATERWORKS               | 570                             |
| 341           | ENGLAND WATERWORKS             | 2823                            |
| 183           | ENON WATER ASSOCIATION         | 488                             |
| 083           | EUDORA WATERWORKS              | 2160                            |
| 075           | EUREKA SPRINGS WATERWORKS      | 4125                            |
| 525           | EVENING SHADE WATERWORKS       | 728                             |
| 569           | FAYETTEVILLE WATERWORKS        | 95000                           |
| 514           | FCMTC WATERWORKS               | 500                             |
| 545           | FELSENTHAL WATER AND SEWER     | 100                             |
| 046           | FIFTY SIX WATERWORKS           | 595                             |
| 351           | FLIPPIN WATERWORKS             | 3625                            |
| 635           | FORDYCE RURAL WATER ASSOC      | 1320                            |
| 164           | FORDYCE WATER CO               | 4746                            |
| 323           | FOREMAN WATERWORKS             | 1527                            |
| 004           | FORREST CITY WATERWORKS        | 15435                           |
| 257           | FRANKLIN WATERWORKS            | 192                             |
| 1077          | FRANKLIN-SEBATHIAN PWA         | 0                               |
| 812           | FREEDOM WATER ASSOCIATION      | 1858                            |
| 814           | FULTON COUNTY WATER ASSOC      | 2152                            |
| 645           | FURLOW WATER ASSOCIATION       | 2905                            |
| 692           | GARRETT BRIDGE WATER ASSOC     | 784                             |
| 034           | GASSVILLE WATERWORKS           | 1618                            |
| 693           | GATEWAY PUBLIC WATER AUTHORITY | 1890                            |
| 048           | GENTRY WATERWORKS              | 5385                            |
| 699           | GENTRYVILLE PUBLIC WATER AUTH  | 386                             |
| 009           | GILLETT WATER DEPT             | 681                             |
| 658           | GILLHAM REGIONAL WATER DIST    | 3                               |
| 516           | GILLHAM WATERWORKS             | 300                             |
| 374           | GOSNELL WATER ASSOCIATION      | 3220                            |

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**Appendix J**



## **Appendix J - No Violations for This Calendar Year**

| <b>PWS ID</b> | <b>System Name</b>              | <b>Retail population served</b> |
|---------------|---------------------------------|---------------------------------|
| 316           | GOULD MUNICIPAL WATER-SEWER     | 908                             |
| 317           | GRADY WATERWORKS                | 377                             |
| 734           | GRAND PRAIRIE BAYOU 2 PWA       | 10360                           |
| 738           | GRAND PRAIRIE REGIONAL WATER    | 13500                           |
| 437           | GRANNIS WATERWORKS              | 548                             |
| T1101         | GRASSY KNOB SUBORDINATE SD      | 65                              |
| 051           | GRAVETTE WATERWORKS             | 3740                            |
| 696           | GREASY VALLEY WPFB LOGAN CO.    | 520                             |
| 077           | GREEN FOREST WATERWORKS         | 5752                            |
| 701           | GREEN HILL-BROOKS CHAPEL WATER  | 785                             |
| 191           | GREENBRIER WATERWORKS           | 7893                            |
| 504           | GREENWOOD WATERWORKS            | 8952                            |
| 267           | GRUBBS WATERWORKS               | 877                             |
| 626           | GUION WATER DEPARTMENT          | 255                             |
| 087           | GURDON WATERWORKS               | 3215                            |
| 192           | GUY WATERWORKS                  | 1620                            |
| 505           | HACKETT WATERWORKS              | 973                             |
| 070           | HAMPTON WATERWORKS              | 1327                            |
| 273           | HARDIN WATER ASSOCIATION        | 4802                            |
| 524           | HARDY WATERWORKS                | 1123                            |
| 071           | HARRELL WATERWORKS              | 296                             |
| 431           | HARRISBURG WATERWORKS           | 2888                            |
| 062           | HARRISON WATERWORKS             | 17135                           |
| 436           | HATFIELD WATERWORKS             | 776                             |
| 452           | HAZEN WATERWORKS                | 1600                            |
| 104           | HEBER SPRINGS WATER SYSTEM      | 11131                           |
| 419           | HELENA WATER SEWER              | 5500                            |
| 067           | HERMITAGE WATERWORKS            | 851                             |
| 885           | HIGHFILL WATER DEPARTMENT       | 649                             |
| 672           | Highland Public Water Authority | 1816                            |
| 388           | HOLLY GROVE WATERWORKS          | 1010                            |
| 230           | HOPE WATER LIGHT COMM           | 11500                           |
| 617           | HORSEHEAD WATER ASSOCIATION     | 4940                            |
| 255           | HORSESHOE BEND WATERWORKS       | 2178                            |
| 151           | Horseshoe Lake Utilities        | 726                             |
| 236           | HOT SPRING CO WATER ASSOC       | 3395                            |
| 209           | HOT SPRINGS UTILITIES           | 92020                           |
| 208           | HOT SPRINGS VILLAGE WATER       | 13921                           |
| 301           | HOXIE WATER DEPARTMENT          | 2650                            |
| 011           | HUGHES COMMUNITY WATER ASSOC    | 2226                            |

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**Appendix J**

## **Appendix J - No Violations for This Calendar Year**

| <b>PWS ID</b> | <b>System Name</b>                        | <b>Retail population served</b> |
|---------------|---|---------------------------------|
| 531           | HUGHES WATERWORKS                         | 1441                            |
| 508           | HUNTINGTON WATERWORKS                     | 620                             |
| 348           | HUNTSVILLE WATERWORKS                     | 2358                            |
| 553           | HUTTIG WATERWORKS                         | 733                             |
| 107           | HWY 63 WATER ASSOCIATION                  | 7343                            |
| 702           | HWY 9 WATER ASSOCIATION                   | 1285                            |
| 300           | IMBODEN WATERWORKS                        | 675                             |
| 774           | INDEPENDENCE JACKSON REGIONAL             | 2996                            |
| 263           | JACKSONPORT WATERWORKS                    | 230                             |
| 466           | JACKSONVILLE WATERWORKS                   | 28364                           |
| 513           | JAMES FORK REGIONAL WATER                 | 11384                           |
| 397           | JASPER WATERWORKS                         | 766                             |
| 276           | JEFFERSON-SAMPLES-DEXTER WATER            | 2552                            |
| 372           | JOINER WATERWORKS                         | 508                             |
| 124           | JONESBORO WATER SYSTEM                    | 70066                           |
| 582           | JUDSONIA WATERWORKS                       | 3028                            |
| 588           | KENSETT WATERWORKS                        | 1425                            |
| 337           | KEO WATER WORKS                           | 275                             |
| 140           | KIBLER WATER SYSTEM                       | 1800                            |
| 821           | KIMZEY REGIONAL WATER DISTRICT            | 11650                           |
| 827           | KINGS HILL ESTATES                        | 25                              |
| 108           | KINGSLAND WATERWORKS                      | 447                             |
| 099           | KNOBEL WATERWORKS                         | 270                             |
| 287           | KNOXVILLE WATERWORKS                      | 1810                            |
| 706           | KROOKED KREEK WATER ASSN                  | 2093                            |
| 684           | LACEY-LADELLE WATER ASSOCIATIO            | 1492                            |
| 277           | LADD WATER ASSOCIATION                    | 2195                            |
| 483           | LAFE REGIONAL WATER DISTRIBUTION DISTRICT | 2478                            |
| 031           | LAKE BULL SHOALS ESTATES WATER            | 54                              |
| 080           | LAKE CHICOT WATER ASSOCIATION             | 2038                            |
| 677           | LAKE FOREST SUBORDINATE DIST              | 123                             |
| 780           | LAKE LUCERNE ESTATES                      | 55                              |
| 824           | LAKE TABLE ROCK ESTATES                   | 33                              |
| 081           | LAKE VILLAGE WATERWORKS                   | 2543                            |
| 822           | LAKESIDE WATER ASSOCIATION                | 1987                            |
| 027           | LAKEVIEW MIDWAY PUBLIC WATER AUTHORITY    | 3012                            |
| 510           | LAVACA WATERWORKS                         | 3550                            |
| 688           | LAWRENCE CO REG WATER DIST                | 6998                            |
| 548           | LAWSON-URBANA WATER ASSOC                 | 1130                            |
| 362           | LEACHVILLE WATERWORKS                     | 1989                            |

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**Appendix J**

## **Appendix J - No Violations for This Calendar Year**

| <b>PWS ID</b> | <b>System Name</b>                 | <b>Retail population served</b> |
|---------------|------------------------------------|---------------------------------|
| 500           | LESLIE WATER SYSTEM                | 740                             |
| 471           | LIBERTY - WOODSON / HENSLEY        | 1000                            |
| 272           | LIBERTY UTILITIES                  | 44730                           |
| 572           | LINCOLN WATERWORKS                 | 6353                            |
| 716           | LISBON WATER ASSOCIATION           | 487                             |
| 214           | LITTLE CREEK WATER ASSOCIATION     | 2159                            |
| 787           | LITTLE RIVER CO RDA                | 4279                            |
| 467           | LITTLE RIVER COUNTRY CLUB          | 120                             |
| 371           | LITTLE RIVER WATER ASSOCIATION     | 816                             |
| 912           | LOCKE-FERN DOLLARD RD WW PFB       | 1135                            |
| 517           | LOCKESBURG WATERWORKS              | 739                             |
| 102           | LOCUST BAYOU WATER ASSOCIATION     | 535                             |
| 1076          | LONOKE WHITE PUBLIC WATER AUTH     | 0                               |
| 049           | LOST BRIDGE VILL WAT-SEW DIST      | 990                             |
| 406           | LOUANN WATERWORKS                  | 180                             |
| 292           | LUDWIG WATER ASSOCIATION           | 1322                            |
| 713           | LYDESDALE WATER ASSOCIATION        | 405                             |
| 299           | LYNN WATERWORKS                    | 704                             |
| 349           | MADISON CO WATER FACILITIES BD     | 9318                            |
| 327           | MAGAZINE WATERWORKS                | 1000                            |
| 246           | MAGNESS WATER ASSOCIATION          | 202                             |
| 241           | MAGNET-BUTTERFIELD WATER AUTHORITY | 1838                            |
| 237           | MALVERN WATERWORKS                 | 10318                           |
| 206           | MAMMOTH SPRING WATERWORKS          | 1442                            |
| 378           | MANILA WATERWORKS                  | 3348                            |
| 310           | MARIANNA WATERWORKS                | 4115                            |
| 382           | MARIE WATER SYSTEM                 | 135                             |
| 152           | MARION WATERWORKS                  | 12345                           |
| 430           | MARKED TREE WATERWORKS             | 2566                            |
| 225           | MARMADUKE WATERWORKS               | 1111                            |
| 501           | MARSHALL WATERWORKS                | 2304                            |
| 001           | MARYSVILLE WATER ASSOCIATION       | 729                             |
| 464           | MAUMELLE WATER CORPORATION         | 2771                            |
| 193           | MAYFLOWER WATERWORKS               | 7435                            |
| 599           | MC CRORY WATERWORKS                | 1647                            |
| 098           | MC DOUGAL WATERWORKS               | 251                             |
| 110           | MC NEIL WATERWORKS                 | 525                             |
| 170           | MCGEHEE WATERWORKS                 | 4386                            |
| 256           | MELBOURNE WATERWORKS               | 4128                            |
| 438           | MENA WATER DEPT                    | 7777                            |

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## **Appendix J - No Violations for This Calendar Year**

| <b>PWS ID</b> | <b>System Name</b>                       | <b>Retail population served</b> |
|---------------|--|---------------------------------|
| 118           | MENIFEE WATER DEPARTMENT                 | 445                             |
| 725           | Mid-Arkansas Utilities PWA               | 11148                           |
| 153           | MIDWAY WATER ASSOCIATION                 | 2100                            |
| 1141          | MILLER COUNTY PUBLIC WATER AUTHORITY     | 355                             |
| 773           | MILLTOWN-WASHBURN WATER USERS            | 3807                            |
| 242           | MINERAL SPRINGS WATERWORKS               | 1208                            |
| 128           | MONETTE WATERWORKS                       | 1306                            |
| 184           | MONTICELLO WATER DEPARTMENT              | 10568                           |
| 709           | MORRISON BLUFF WATER SYSTEM              | 325                             |
| 002           | MOUNT HOLLY WATERWORKS                   | 384                             |
| 668           | MOUNT OLIVE WATER ASSOCIATION            | 6858                            |
| 025           | MOUNTAIN HOME WATERWORKS                 | 16144                           |
| 176           | MOUNTAIN PINE WATERWORKS                 | 770                             |
| 454           | MOUNTAIN TOP WATER ASSOCIATION           | 8700                            |
| 542           | MOUNTAIN VIEW WATERWORKS                 | 7295                            |
| 141           | MOUNTAINBURG WATER AND SEWER             | 950                             |
| 258           | MT PLEASANT WATERWORKS                   | 1306                            |
| 633           | MUNDELL HEIGHTS WATERWORKS               | 190                             |
| 425           | MURFREESBORO WATERWORKS                  | 1645                            |
| 1069          | N E WHITE COUNTY PUBLIC FACILITIES BOARD | 0                               |
| 867           | N GARLAND CO REG WATER DIST              | 6655                            |
| 856           | NAIL-SWAIN WATER ASSOCIATION             | 604                             |
| 805           | NASHVILLE RURAL WATER AUTHORITY          | 6958                            |
| 244           | NASHVILLE WATERWORKS                     | 4627                            |
| 697           | NE YELL COUNTY WATER ASSOC               | 6160                            |
| 1070          | NEAPWA                                   | 2                               |
| 248           | NEWARK WATERWORKS                        | 1410                            |
| 264           | NEWPORT WATERWORKS                       | 6468                            |
| 035           | NORFORK WATERWORKS                       | 1503                            |
| 022           | NORTH CROSSETT UTILITIES                 | 2924                            |
| 023           | NORTH EAST CROSSETT WATER ASSN           | 154                             |
| 033           | NORTH EAST PUBLIC WATER AUTH             | 3927                            |
| 012           | NORTH LAGRUE WATER ASSOC                 | 296                             |
| 826           | NORTH PIKE CO RURAL WATER ASSN           | 1976                            |
| 583           | NORTH WHITE CO RURAL WATER PFB           | 5300                            |
| 007           | NORTHEAST DEWITT WATER ASSOC             | 662                             |
| 146           | OAK GROVE WATER ASSOCIATION              | 2773                            |
| 558           | OAK MANOR WATER ASSOCIATION              | 339                             |
| 322           | OGDEN WATERWORKS                         | 495                             |
| 473           | O'KEAN WATERWORKS                        | 207                             |

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## **Appendix J - No Violations for This Calendar Year**

| <b>PWS ID</b> | <b>System Name</b>               | <b>Retail population served</b> |
|---------------|----------------------------------|---------------------------------|
| 559           | OLD UNION WATER ASSOCIATION      | 1181                            |
| 120           | OPPELO WATER DEPARTMENT          | 1300                            |
| 832           | OSAGE POINT MHP                  | 68                              |
| 375           | OSCEOLA WATERWORKS               | 7398                            |
| 802           | OUTSIDE KINGSLAND WATER ASSOC    | 450                             |
| 259           | OXFORD WATERWORKS                | 1074                            |
| 1078          | OZAN CREEK RURAL WATER SYSTEM    | 675                             |
| 530           | OZARK ACRES WATER ASSOCIATION    | 819                             |
| 201           | OZARK WATERWORKS                 | 4325                            |
| 222           | PARAGOULD, LIGHT, WATER, & CABLE | 25261                           |
| 560           | PARKERS CHAPEL PUBLIC WATER      | 2369                            |
| 662           | PARKIN RURAL WATER ASSOCIATION   | 406                             |
| 736           | PARTHENON WATER ASSOCIATION      | 400                             |
| 053           | PEA RIDGE WATERWORKS             | 6560                            |
| 412           | PERRY WATER SYSTEM               | 658                             |
| 413           | PERRYVILLE WATERWORKS            | 2976                            |
| 090           | PIGGOTT WATERWORKS               | 4698                            |
| 720           | PLEASANT GROVE                   | 2315                            |
| 121           | PLUMERVILLE WATERWORKS           | 820                             |
| 474           | POCAHONTAS WATERWORKS            | 7547                            |
| 305           | PORTIA WATERWORKS                | 437                             |
| 217           | POYEN WATERWORKS                 | 755                             |
| 573           | PRAIRIE GROVE WATERWORKS         | 6303                            |
| 216           | PRATTSVILLE WATERWORKS           | 1282                            |
| 394           | PRESCOTT WATERWORKS              | 3300                            |
| 561           | QUINN WATER ASSOCIATION          | 751                             |
| 477           | RAVENDEN SPRINGS WATERWORKS      | 153                             |
| 306           | RAVENDEN WATERWORKS              | 470                             |
| 093           | RECTOR WATERWORKS                | 2312                            |
| 279           | REDFIELD WATERWORKS              | 2667                            |
| 173           | REED WATERWORKS                  | 211                             |
| 475           | REYNO WATERWORKS                 | 445                             |
| 835           | RICHWOODS WATER ASSOCIATION      | 1436                            |
| 106           | RISON WATERWORKS                 | 1344                            |
| 833           | RIVER VALLEY WATER ASSN          | 1181                            |
| 674           | RIVERSOUTH RURAL WATER DIST      | 4168                            |
| 239           | RIVIERA UTILITIES                | 1800                            |
| 252           | Rock Moore Water Authority       | 3087                            |
| 389           | ROE WATERWORKS                   | 124                             |
| 055           | ROGERS WATER UTILITIES           | 66838                           |

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**Appendix J**

## **Appendix J - No Violations for This Calendar Year**

| <b>PWS ID</b> | <b>System Name</b>                    | <b>Retail population served</b> |
|---------------|---------------------------------------|---------------------------------|
| 395           | ROSSTON WATER DEPARTMENT              | 620                             |
| 591           | RUSSELL WATERWORKS                    | 338                             |
| 678           | S P G WATER ASSOCIATION               | 1420                            |
| 492           | SALEM WATER ASSOCIATION               | 15713                           |
| 204           | SALEM WATERWORKS                      | 1639                            |
| 491           | SALINE CO WW SS PFB                   | 1900                            |
| 379           | SANDRIDGE-BARDSTOWN WTR ASSOC         | 143                             |
| 493           | SARDIS WATER ASSOCIATION              | 13752                           |
| 870           | SE BRADLEY CO WATER ASSN              | 2665                            |
| 594           | SE WHITE COUNTY WATER ASSOC           | 5075                            |
| 590           | SEARCY WATERWORKS                     | 23768                           |
| 511           | SEBASTIAN LAKE PUBLIC WATER AUTHORITY | 258                             |
| 868           | SEVIER CO WATER ASSOCIATION           | 4618                            |
| 800           | SHANNON HILLS WATER DEPT              | 3443                            |
| 215           | SHERIDAN WATERWORKS                   | 3136                            |
| 407           | SHUMAKER PUBLIC SERVICE CO            | 1413                            |
| 528           | SIDNEY WATER SYSTEM                   | 312                             |
| 056           | SILOAM SPRINGS WATERWORKS             | 17300                           |
| 555           | SMACKOVER WATERWORKS                  | 3104                            |
| 851           | SOUTH LOGAN COUNTY WATER              | 1783                            |
| 815           | SOUTH MOUNTAIN WATER ASSN             | 669                             |
| 978           | SOUTH PIKE CO. WATER                  | 742                             |
| 219           | SOUTH SHERIDAN WATER ASSOC            | 3491                            |
| 792           | SOUTHERN HILLS WATER SYSTEM           | 45                              |
| 254           | SOUTHSIDE PUB WATER AUTHORITY         | 9139                            |
| 495           | SOUTHWEST WATER ASSOCIATION           | 7140                            |
| 166           | SPARKMAN WATERWORKS                   | 1325                            |
| 575           | SPRINGDALE WATER UTILITIES            | 87618                           |
| 836           | ST FRANCIS RIVER REG WATER DD         | 2482                            |
| 094           | ST FRANCIS WATER SYSTEM               | 263                             |
| 296           | STAMPS WATERWORKS                     | 2267                            |
| 318           | STAR CITY WATER WATERWORKS            | 2695                            |
| 755           | STARLIGHT ESTATES                     | 44                              |
| 405           | STEPHENS WATERWORKS                   | 1000                            |
| 307           | STRAWBERRY WATERWORKS                 | 954                             |
| 556           | STRONG WATERWORKS                     | 899                             |
| 013           | STUTTGART WATERWORKS                  | 9745                            |
| 135           | SUBIACO CITY WATERWORKS               | 535                             |
| 355           | SUMMIT WATERWORKS                     | 604                             |
| 628           | SW BOONE COUNTY WATER ASSOC           | 4085                            |

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## **Appendix J - No Violations for This Calendar Year**

| <b>PWS ID</b> | <b>System Name</b>             | <b>Retail population served</b> |
|---------------|--------------------------------|---------------------------------|
| 852           | SW WARREN WATER ASSOCIATION    | 746                             |
| 185           | SW WHITE COUNTY WATER ASSN     | 10284                           |
| 882           | SYLAMORE VALLEY WATER ASSN     | 270                             |
| 045           | SYLVAN SHORES SD WATERWORKS    | 85                              |
| 891           | TALL OAKS MHP                  | 17                              |
| 895           | TANKSLEY APARTMENTS            | 52                              |
| 360           | TEXARKANA WATER UTILITIES      | 30015                           |
| 072           | THORNTON WATERWORKS            | 671                             |
| 186           | TILLAR WATERWORKS              | 225                             |
| 618           | TOLLETTE WATER                 | 339                             |
| 435           | TRUMANN WATERWORKS             | 7968                            |
| 825           | TULIP - PRINCETON WATER ASSN   | 1092                            |
| 220           | TULL WATER                     | 1987                            |
| 579           | TUMBLING SHOALS WATER ASSOC    | 4830                            |
| 155           | TURRELL WATER WORKS            | 625                             |
| 426           | TYRONZA WATERWORKS             | 852                             |
| 451           | ULM WATERWORKS                 | 206                             |
| 690           | US AIR FORCE BASE LITTLE ROCK  | 8618                            |
| 727           | VAN BUREN COUNTY W U A         | 3062                            |
| 162           | VANNDALE-BIRDEYE WATER ASSOC   | 2353                            |
| 380           | VICTORIA WATER ASSOCIATION     | 35                              |
| 115           | VILLAGE WATER ASSOCIATION      | 417                             |
| 195           | VILONIA WATERWORKS             | 23177                           |
| 205           | VIOLA WATERWORKS               | 363                             |
| 460           | WALDENBURG WATER ASSOCIATION   | 181                             |
| 112           | WALDO WATERWORKS               | 1372                            |
| 498           | WALDRON WATERWORKS             | 2955                            |
| 858           | WALKER CREEK STATELINE RWA     | 1335                            |
| 116           | WALKER WATER ASSOCIATION       | 1182                            |
| 309           | WALNUT RIDGE WATERWORKS        | 5234                            |
| 066           | WARREN WATERWORKS              | 6384                            |
| 574           | WASHINGTON WATER AUTHORITY WWA | 16750                           |
| 606           | WATALULA WATER ASSOCIATION     | 2278                            |
| 284           | WATSON CHAPEL WATER ASSOC      | 5865                            |
| 174           | WATSON WATERWORKS              | 249                             |
| 428           | WEINER WATERWORKS              | 1013                            |
| 103           | WESSON-NEWELL WATER ASSOC      | 658                             |
| 878           | WEST ASHLEY COUNTY WATER ASSN  | 683                             |
| 416           | WEST HELENA WATER WORKS        | 7500                            |
| 682           | WEST SALINE WATER USERS ASSN   | 1862                            |

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## **Appendix J - No Violations for This Calendar Year**

| <b>PWS ID</b>      | <b>System Name</b>                      | <b>Retail population served</b> |
|--------------------|---|---------------------------------|
| 704                | WESTERN GREENE COUNTY R W D             | 5848                            |
| 400                | WESTERN GROVE MUNICIPAL WATER           | 939                             |
| 535                | WHEATLEY WATERWORKS                     | 447                             |
| 804                | WHELEN SPRINGS WATER DEPT               | 500                             |
| 440                | WICKES WATERWORKS                       | 1303                            |
| 538                | WIDENER WATERWORKS                      | 506                             |
| 686                | WILBURN WATER ASSOCIATION               | 739                             |
| 562                | WILDWOOD WATER ASSOCIATION              | 1386                            |
| 529                | WILLIFORD WATERWORKS                    | 105                             |
| 187                | WILMAR WATERWORKS                       | 511                             |
| 370                | WILSON WATER SYSTEM                     | 1122                            |
| 188                | WINCHESTER WATERWORKS                   | 457                             |
| 783                | WIRE ROAD WATER SYSTEM                  | 822                             |
| 700                | WKMM RURAL WATER ASSOCIATION            | 310                             |
| 196                | WOOSTER WATERWORKS                      | 3794                            |
| 695                | WRIGHT-PASTORIA WATER ASSOC             | 1268                            |
| 410                | WYE MOUNTAIN WATER ASSOCIATION          | 1350                            |
| 163                | WYNNE WATERWORKS                        | 8837                            |
| 356                | YELLVILLE WATERWORKS                    | 2329                            |
| <b>PWS type: N</b> |   |                                 |
| T0015              | AHTD-LONSDALE REST AREA                 | 100                             |
| 1177               | ANCHOR'S LANDING AT WOODS POINT RV PARK | 72                              |
| T0031              | ARK POST NATIONAL MEMORIAL              | 100                             |
| 1107               | ARK S/P BEECH POINT CAMPGROUND          | 25                              |
| T0068              | BAYOU RESORT                            | 25                              |
| T1086              | BEAR CREEK COUNTRY STORE                | 50                              |
| T0751              | BEAVER RV PARK                          | 100                             |
| T1070              | Benny's Country Store                   | 44                              |
| N0080              | BLACK BEAR SPRINGS                      | 25                              |
| T0350              | BLUE WATER'S RESORT                     | 52                              |
| T1082              | BNR U2-02 DILLARDS FERRY                | 250                             |
| T1022              | BNR U2-48 RUSH CAMPGROUND               | 25                              |
| T0098              | BNRU2-01 BUFFALO POINT CAMPGROUND       | 25                              |
| T0885              | BOLL WEEVIL                             | 300                             |
| T0087              | BOY SCOUT CAMP ORR                      | 300                             |
| T0965              | BUFFALO NATRV U4-08 OZARK CG            | 25                              |
| T0961              | BUFFALO NATRV U4-24 KYLES CG            | 25                              |
| T0963              | BUFFALO NRVU4-02LOST VALLEYCG           | 25                              |
| T0096              | BUFFALO NRVU4-06 UPPER PRUITT           | 25                              |
| T1047              | BUFFALO OUTDOOR CENTER                  | 25                              |

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## **Appendix J - No Violations for This Calendar Year**

| <b>PWS ID</b> | <b>System Name</b>                       | <b>Retail population served</b> |
|---------------|--|---------------------------------|
| T0906         | BUFFALO RV TYLER BEND CGU3-13            | 25                              |
| T0097         | BUFFALO RV TYLER BEND MTU3-12            | 25                              |
| T0102         | BYRD'S ADVENTURE CENTER, INC.            | 25                              |
| 1013          | C. G. Roxane                             | 25                              |
| 973           | CAMP WAR EAGLE                           | 700                             |
| 986           | CEDAR GLADES PARK                        | 25                              |
| T0431         | CEDAR VALLEY INC                         | 250                             |
| T1080         | CITGO FOOD MART                          | 250                             |
| 1148          | COUNTRY BURGERS                          | 25                              |
| 748           | CRABAPPLE POINT WATER SYSTEM             | 25                              |
| N0136         | CULLIGAN OF NORTHWEST ARKANSAS           | 25                              |
| N0186         | CULLIGAN WATER CONDITIONING              | 30                              |
| 1222          | DELTA RESORT & SPA                       | 280                             |
| T1107         | EUREKA SPRINGS SPORTS FIELD              | 100                             |
| T0116         | FERNCLIFF CAMP CONFER CENTER             | 162                             |
| 1211          | GARNER'S ICE HOUSE ROSE BUD              | 30                              |
| T0231         | GASTON'S WHITE RIVER RESORT              | 550                             |
| T1045         | GIRL SCOUT CAMP KARLTON KEMP             | 25                              |
| N0244         | GLACIER BG0494 CROSSETT                  | 30                              |
| 1140          | GLACIER BG105 PINE BLUFF                 | 30                              |
| N0242         | GLACIER BG2195 ELDORADO                  | 30                              |
| N0245         | GLACIER BG2239 CAMDEN                    | 30                              |
| N0243         | GLACIER BG2371 MAGNOLIA 2371             | 30                              |
| 914           | GLACIER BG4365 ASHDOWN                   | 30                              |
| 1114          | GLACIER BGC096 ARKADELPHIA               | 30                              |
| 1117          | GLACIER BGC619 HOPE                      | 30                              |
| 1157          | GLACIER CN0037 MARSHALL                  | 30                              |
| 1154          | GLACIER FAMD1037 MARIANNA                | 30                              |
| 1143          | GLACIER FAMD4009 RUSSELLVILLE            | 30                              |
| 1165          | GLACIER FAMD4372 RODGERS                 | 30                              |
| 1046          | GLACIER FG37 MARIANNA                    | 80                              |
| 1172          | GLACIER HILLBILLY U-PUMP                 | 30                              |
| 1231          | GLACIER HSF2217 HARRISON                 | 30                              |
| 1230          | GLACIER SF2752 GASSVILLE                 | 30                              |
| 1053          | GLACIER THRIFTWAY CLINTON                | 30                              |
| N0239         | GLACIER WATER ALB TEXARK 4318            | 30                              |
| 1126          | GLACIER WATER CIRCLE K0030 MOUNTAIN VIEW | 30                              |
| T0486         | HIDE A WAY CAMPGROUND                    | 367                             |
| T0915         | HOT SPR NAT PK HAPPY HOLLOW SP           | 25                              |
| T0916         | HOT SPR NAT PK WHITTINGTON SPR           | 25                              |

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## **Appendix J - No Violations for This Calendar Year**

| <b>PWS ID</b> | <b>System Name</b>                     | <b>Retail population served</b> |
|---------------|--|---------------------------------|
| T0259         | HOT SPRINGS NATIONAL PARK              | 25                              |
| T0261         | HWY 27 FISHING VILLAGE                 | 25                              |
| T0714         | HWY 27 REC AREA                        | 50                              |
| 1094          | J & J WATER SPORTS                     | 50                              |
| 1213          | JUNIOR'S POLAR ICE BEEBE               | 30                              |
| T0294         | KELLER'S COUNTRY DORM RESORT           | 50                              |
| T0312         | LAKE LEATHERWOOD CAMPGROUND            | 25                              |
| T0330         | LITTLE FIR LANDING                     | 250                             |
| T1090         | LOST BRIDGE MARINA                     | 30                              |
| 1090          | LOST VALLEY CANOE AND LODGING          | 40                              |
| T0870         | MILLWOOD LANDING GOLF & RV RESORT      | 125                             |
| N0073         | MT VALLEY SPRING CO                    | 25                              |
| 1217          | NIMOCK'S ICE MARIANNA                  | 30                              |
| T0247         | NOLA GROCERY & CAFÉ                    | 25                              |
| T1068         | NORFORK LAKE ESTATES-MOHR ADD          | 30                              |
| 957           | NORFORK MARINA                         | 25                              |
| 1220          | NWS INC. WF0330 FAYETTEVILLE           | 30                              |
| 1005          | Oak Hill Lodge SGT                     | 25                              |
| 1216          | OZARK ICE HOUSE COTTER                 | 30                              |
| T0406         | OZARK REGULAR BAPTIST CAMP             | 25                              |
| T1016         | OZARKS RV RESORT OWNERS ASSOCIATION    | 500                             |
| T0439         | PONCA BIBLE CAMP                       | 70                              |
| 1071          | PRIMO WMSCO171 CAMDEN                  | 80                              |
| 1176          | PRIMO AKINS NF19 ROGERS                | 30                              |
| 1234          | PRIMO GLACIER HCP108 SPRINGDALE        | 30                              |
| 1235          | PRIMO GLACIER HF103 GREEN FOREST       | 30                              |
| 1237          | PRIMO GLACIER HF115 ELKINS             | 30                              |
| 1238          | PRIMO GLACIER HF122 CENTERTON          | 30                              |
| 1239          | PRIMO GLACIER HF127 BENTONVILLE        | 30                              |
| N0162         | PRIMO HF133 HUNTSVILLE                 | 30                              |
| N0225         | PRIMO NMKT2744 FT SMITH                | 30                              |
| 1066          | PRIMO REFILL LLC HARPS124 FAYETTEVILLE | 30                              |
| N0173         | PRIMO REFILL LLC SILOAM SPRINGS IGA    | 30                              |
| 1113          | PRIMO REFILL LLC WMNM5737 FAYETTEVILLE | 30                              |
| 1028          | PRIMO REFILL LLC WMSC 4460 NLR         | 30                              |
| 909           | PRIMO REFILL LLC WMSC0033 NASHVILLE    | 30                              |
| 911           | PRIMO REFILL LLC WMSC0068 WYNNE        | 30                              |
| 1011          | PRIMO REFILL LLC WMSC0133 Ashdown      | 30                              |
| N0174         | PRIMO REFILL LLC FAYETTEVILLE WAL359   | 30                              |
| 1151          | PRIMO REFILL WMSC 0008 MORRILTON       | 30                              |

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**Appendix J**

## **Appendix J - No Violations for This Calendar Year**

| <b>PWS ID</b> | <b>System Name</b>                  | <b>Retail population served</b> |
|---------------|-------------------------------------|---------------------------------|
| 1150          | PRIMO REFILL WMSC1105 N LITTLE ROCK | 30                              |
| 1149          | PRIMO REFILL WMSC157 SEARCY         | 30                              |
| N0178         | PRIMO SF HOLIDAY ISLAND             | 30                              |
| N0223         | PRIMO WMNM 2742 SPRINGDALE          | 80                              |
| 1182          | PRIMO WMNM 4686 BENTONVILLE         | 80                              |
| 1174          | PRIMO WMNM2431 SEARCY               | 30                              |
| 1201          | PRIMO WMNM2686 BENTONVILLE          | 30                              |
| N0201         | PRIMO WMNM2745                      | 30                              |
| 1218          | PRIMO WMNM3164 BENTONVILLE          | 30                              |
| 1207          | PRIMO WMNM4375                      | 30                              |
| 1208          | PRIMO WMNM4376 BENTONVILLE          | 30                              |
| 1224          | PRIMO WMNM4516 FAYETTEVILLE         | 30                              |
| 1214          | PRIMO WMNM4579 FT. SMITH            | 30                              |
| 1219          | PRIMO WMNM4654 MARION               | 80                              |
| 1068          | PRIMO WMNM5738 SPRINGDALE           | 30                              |
| 1228          | PRIMO WMNM5789 HOT SPRINGS          | 30                              |
| 1229          | PRIMO WMNM5790 HOT SPRINGS          | 30                              |
| 1185          | PRIMO WMNM6953 CENTERTON            | 80                              |
| 1194          | PRIMO WMNM6960 SILOAM SPRINGS       | 30                              |
| 1187          | PRIMO WMNM7242 FARMINGTON           | 30                              |
| N0218         | PRIMO WMSC0004 SILOAM SPRINGS       | 30                              |
| N0145         | PRIMO WMSC0005 CONWAY               | 30                              |
| N0230         | PRIMO WMSC0011 MT HOME              | 30                              |
| N0211         | PRIMO WMSC0016 VAN BUREN            | 30                              |
| 1181          | PRIMO WMSC0018 NEWPORT              | 30                              |
| N0161         | PRIMO WMSC0036 PARAGOULD            | 30                              |
| N0216         | PRIMO WMSC0052 HOT SPRNGS           | 30                              |
| N0168         | PRIMO WMSC0054 SPRINGDALE           | 60                              |
| N0140         | PRIMO WMSC0067 0067                 | 30                              |
| N0164         | PRIMO WMSC0071 POCAHONTAS           | 30                              |
| N0159         | PRIMO WMSC0076 BERRYVILLE           | 30                              |
| 1153          | PRIMO WMSC0083 MAGNOLIA             | 30                              |
| N0139         | PRIMO WMSC0085 BENTON               | 30                              |
| N0156         | PRIMO WMSC0100 WAL-100              | 30                              |
| N0142         | PRIMO WMSC0102 STUTTGART            | 30                              |
| N0219         | PRIMO WMSC0119 BATESVILLE           | 30                              |
| 947           | PRIMO WMSC0127 MALVERN              | 120                             |
| N0165         | PRIMO WMSC0141 FT. SMITH            | 30                              |
| N0224         | Primo WMSC0261 Hot Springs          | 30                              |
| 977           | PRIMO WMSC0358 ALMA                 | 30                              |

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**Appendix J**

## **Appendix J - No Violations for This Calendar Year**

| <b>PWS ID</b> | <b>System Name</b>              | <b>Retail population served</b> |
|---------------|---------------------------------|---------------------------------|
| 1195          | PRIMO WMSC0373 HUNTSVILLE       | 30                              |
| N0154         | PRIMO WMSC0530 ELDORADO         | 30                              |
| N0152         | PRIMO WMSC0714 W.HELENA         | 30                              |
| N0220         | PRIMO WMSC0788 CLINTON          | 30                              |
| N0221         | PRIMO WMSC1065 HOPE             | 30                              |
| 964           | PRIMO WMSC1114 MTN VIEW         | 30                              |
| 944           | PRIMO WMSC1147 FLIPPIN          | 30                              |
| 1179          | PRIMO WMSC3168 CONWAY           | 30                              |
| N0222         | Primo WMSC3230 Bryant           | 30                              |
| N0240         | PRIMO WMSC3231 GREENWOOD        | 30                              |
| 918           | PRIMO WMSC3331 PINE BLUFF       | 30                              |
| 974           | PRIMO WMSC336 SHERIDAN          | 30                              |
| 1188          | PRIMO WMSC4108 SPRINGDALE       | 30                              |
| 1180          | PRIMO WMSC4168 BEEBE            | 30                              |
| 929           | PRIMO WMSC5244 LR               | 30                              |
| 934           | Primo WMSC5433 HSV              | 30                              |
| 1167          | PRIMO WMSC5706 LITTLE ROCK      | 80                              |
| T1037         | RIVERSIDE RESORT                | 250                             |
| T0467         | RIVERSIDE RESORT AT KINGS RIVER | 25                              |
| 936           | RIVERSIDE RETREAT               | 25                              |
| T0468         | RIVERVIEW COUNTRY STORE         | 30                              |
| T0470         | ROADRUNNER INN                  | 25                              |
| T1085         | RUSSELL'S RV PARK               | 165                             |
| T0484         | SANDRA D'S GROCERY & FUEL STOP  | 25                              |
| 925           | SHADY OAK RV PARK               | 124                             |
| T1067         | SHEPHERD OF THE OZARKS          | 30                              |
| 958           | SOUTHFORK RESORT                | 50                              |
| 1183          | SPLASH CAR WASH MTN. VIEW       | 30                              |
| T0513         | SPRING RIVER OAKS CAMP          | 25                              |
| T0526         | SUPPLY COUNTRY STORE            | 150                             |
| T0322         | THE LANGLEY STORE               | 25                              |
| T0550         | THREE OAKS RESORT               | 40                              |
| 1241          | UNDER THE SON DAY SCHOOL        | 25                              |
| T0589         | USCOE BSWP110 TUCKER HOLLOW     | 25                              |
| T0591         | USCOE BSWP117 OZARK ISLE        | 120                             |
| T0592         | USCOE BSWP129 BUCK CREEK        | 25                              |
| T0594         | USCOE BSWP133 HIGHWAY 125       | 25                              |
| T0602         | USCOE BWP 18 LOST BRIDGE SOUTH  | 25                              |
| T0601         | USCOE BWP17 LOST BRIDGE         | 25                              |
| T0892         | USCOE BWP29 STARKEY PARK        | 25                              |

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**Appendix J**

## Appendix J - No Violations for This Calendar Year

| <b>PWS ID</b> | <b>System Name</b>             | <b>Retail population served</b> |
|---------------|--------------------------------|---------------------------------|
| T0609         | USCOE BWP33 LOST BRIDGE        | 25                              |
| T0612         | USCOE DG ALPINE RIDGE          | 25                              |
| T0619         | USCOE DG LENOX MARCUS          | 25                              |
| T0620         | USCOE DG LOWER LAKE            | 25                              |
| T0622         | USCOE DG OZAN POINT            | 25                              |
| T1035         | USCOE NF PANTHER BAY           | 56                              |
| T0689         | USCOE NFWP12 ROBINSON POINT    | 306                             |
| T0691         | USCOE NFWP15 PANTHER BAY       | 66                              |
| T0692         | USCOE NFWP18 HENDERSON         | 80                              |
| T0695         | USCOE NFWP25 BIDWELL POINT     | 144                             |
| T0696         | USCOE NFWP29 GAMALIEL          | 192                             |
| T0709         | USCOE OC - BRADY MTN           | 100                             |
| T0718         | USCOE OC - LITTLE FIR          | 100                             |
| T0763         | USFS ALBERT PIKE REC AREA      | 200                             |
| T0770         | USFS BLANCHARD                 | 25                              |
| T0786         | USFS GUNNER POOL               | 25                              |
| T0788         | USFS HORSEHEAD BATHHOUSE       | 25                              |
| T0795         | USFS LAKE WEDINGTON            | 50                              |
| T0806         | USFS REDDING                   | 25                              |
| T0810         | USFS SHADY LAKE REC AREA 16661 | 25                              |
| T0811         | USFS SHADY LAKE REC AREA 16666 | 25                              |
| T0814         | USFS SHORES LAKE               | 25                              |
| 970           | VENTRIS TRAILS END RESORT      | 50                              |
| 1132          | WARREN'S NORFORK LAKE GRILL    | 205                             |
| T1106         | WATER WAGON                    | 25                              |
| T1105         | WHEELIN' WORLD                 | 50                              |
| T0852         | WHITE RIVER CAMPGROUND         | 250                             |
| N0084         | WILDERNESS VALLEY SPRING       | 25                              |
| 1192          | YGAP ASHDOWN                   | 30                              |
| 1190          | YGAP GLENWOOD                  | 30                              |
| 1191          | YGAP prescott                  | 30                              |
| 1203          | YGAP TEXARKANA 1               | 30                              |
| 1204          | YGAP TEXARKANA 2               | 30                              |

### **PWS type: P**

|       |                              |     |
|-------|------------------------------|-----|
| N0180 | 4-H CENTER                   | 40  |
| N0103 | AHTD HARRISON 9 HEADQUARTERS | 90  |
| N0129 | AHTD MARION COUNTY           | 25  |
| N0022 | ALBEMARLE CORPORATION SOUTH  | 550 |
| N0021 | ALBEMARLE CORPORATION WEST   | 150 |
| T1110 | ARK STATE PARK MT MAGAZINE   | 128 |

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## **Appendix J - No Violations for This Calendar Year**

| <b>PWS ID</b> | <b>System Name</b>                        | <b>Retail population served</b> |
|---------------|---|---------------------------------|
| N0181         | BASF CORPORATION                          | 75                              |
| N0237         | CHRISTIAN MINISTRY ACADEMY                | 300                             |
| N0052         | CLEARWATER PAPER CORPORATION              | 339                             |
| N0009         | ENTERGY - INDEPENDENCE                    | 150                             |
| N0028         | GEORGIA PACIFIC PAPER MILL                | 1400                            |
| N0214         | GEORGIA PACIFIC WOOD PRODUCTS LLC         | 100                             |
| N0188         | NW ARKANSAS REGIONAL AIRPORT              | 2668                            |
| 1206          | PECO Foods                                | 30                              |
| N0189         | R V A F TEXARKANA                         | 120                             |
| N0057         | REMINGTON ARMS COMPANY                    | 1250                            |
| 1175          | ST. VINCENT INFIRMARY                     | 2700                            |
| N0109         | SW REGION WILDERNESS CAMP                 | 41                              |
| N0088         | THE GREAT PASSION PLAY                    | 450                             |
| N0126         | TRINITY BEHAVIORAL HEALTH                 | 30                              |
| 1221          | VETERANS HEALTH CARE SYSTEM OF THE OZARKS | 2150                            |
| N0069         | VISKASE CORPORATION                       | 200                             |
| 1123          | WILSON GUN SHOP #2                        | 150                             |

## Appendix K - Enforcement Actions

PWS type: C

| PWS | System Name                    | Enforcement Action              | Date Issued | Rule Violated |
|-----|--------------------------------|---------------------------------|-------------|---------------|
| 441 | ATKINS WATER SYSTEM            | Warning of Administrative Order | 11/21/2017  | DBP           |
| 068 | BANKS WATERWORKS               | Warning of Administrative Order | 6/1/2017    | DBP (lic)     |
| 068 | BANKS WATERWORKS               | Administrative Order            | 6/29/2017   | DBP (lic)     |
| 887 | BODCAW RURAL WATER SYSTEM      | Warning of Administrative Order | 11/22/2017  | DBP           |
| 294 | BRADLEY WATERWORKS             | Warning of Administrative Order | 5/4/2017    | DBP           |
| 290 | COAL HILL WATERWORKS           | Warning of Administrative Order | 12/15/2017  | DBP (lic)     |
| 596 | COTTON PLANT WATERWORKS        | Warning of Administrative Order | 3/2/2017    | Lic           |
| 596 | COTTON PLANT WATERWORKS        | Administrative Order            | 4/3/2017    | Lic           |
| 596 | COTTON PLANT WATERWORKS        | Proposed Penalty                | 12/18/2017  | lic           |
| 603 | DANVILLE WATERWORKS            | Warning of Administrative Order | 8/1/2017    | DBP/RTCR      |
| 449 | DES ARC WATERWORKS             | Warning of Administrative Order | 1/30/2017   | DBP           |
| 449 | DES ARC WATERWORKS             | Proposed Penalty                | 5/4/2017    | DBP           |
| 809 | EAST LOGAN CO RURAL WATER      | Warning of Administrative Order | 11/21/2017  | DBP           |
| 715 | EAST MONROE COUNTY WATER USERS | Proposed Penalty                | 1/1/2017    | DBP/PN        |
| 715 | EAST MONROE COUNTY WATER USERS | Warning of Administrative Order | 5/4/2017    | DBP           |
| 715 | EAST MONROE COUNTY WATER USERS | Administrative Order            | 8/4/2017    | DBP/PN        |
| 083 | EUDORA WATERWORKS              | Proposed Penalty                | 12/18/2017  | lic           |
| 544 | FAIRCREST WATER ASSOCIATION    | Warning of Administrative Order | 8/1/2017    | DBP           |
| 544 | FAIRCREST WATER ASSOCIATION    | Administrative Order            | 11/28/2017  | DBP           |
| 625 | FREE HOPE WATER ASSOCIATION    | Warning of Administrative Order | 11/21/2017  | DBP (lic)     |

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## Appendix K - Enforcement Actions

|     |   |                                    |            |                    |
|-----|---|------------------------------------|------------|--------------------|
| 086 | GUM SPRINGS<br>MUNICIPAL WATER<br>UTILITY | Proposed Penalty                   | 2/1/2017   | RTCR/PN            |
| 086 | GUM SPRINGS<br>MUNICIPAL WATER<br>UTILITY | Proposed Penalty                   | 7/5/2017   | RTCR/lic           |
| 546 | HARMONY WATER<br>ASSOCIATION              | Warning of Administrative<br>Order | 11/21/2017 | DBP                |
| 506 | HARTFORD<br>WATERWORKS                    | Warning of Administrative<br>Order | 1/30/2017  | RTCR/DBP           |
| 506 | HARTFORD<br>WATERWORKS                    | Administrative Order               | 3/2/2017   | Lic                |
| 506 | HARTFORD<br>WATERWORKS                    | Proposed Penalty                   | 4/3/2017   | LicRTCR/PN         |
| 488 | HASKELL WATER<br>SYSTEM                   | Warning of Administrative<br>Order | 10/9/2017  | DBP (lic)          |
| 488 | HASKELL WATER<br>SYSTEM                   | Administrative Order               | 11/28/2017 | DBP (lic)          |
| 488 | HASKELL WATER<br>SYSTEM                   | Proposed Penalty                   | 12/18/2017 | DBP (lic)          |
| 518 | HORATIO WATERWORKS                        | Administrative Order               | 12/15/2017 | DBP (lic)          |
| 552 | JUNCTION CITY<br>WATERWORKS               | Warning of Administrative<br>Order | 11/22/2017 | DBP (lic)          |
| 552 | JUNCTION CITY<br>WATERWORKS               | Administrative Order               | 12/15/2017 | DBP (lic)/DBP/RTCR |
| 718 | LURTON-PELSOR<br>WATER ASSOC              | Proposed Penalty                   | 4/3/2017   | E coli/Lic         |
| 109 | MAGNOLIA WATERWORKS                       | Proposed Penalty                   | 5/4/2017   | DBP                |
| 509 | MANSFIELD<br>WATERWORKS                   | Proposed Penalty                   | 1/10/2017  | DBP (lic)          |
| 619 | MAYNARD WATERWORKS                        | Warning of Administrative<br>Order | 12/15/2017 | DBP (lic)          |
| 392 | MOUNT IDA<br>WATERWORKS                   | Proposed Penalty                   | 2/1/2017   | DBP/PN             |
| 136 | MULBERRY<br>WATERWORKS                    | Warning of Administrative<br>Order | 11/21/2017 | DBP                |
| 557 | NEW LONDON WATER<br>ASSOCIATION           | Proposed Penalty                   | 2/1/2017   | DBP/PN             |
| 616 | ODEN- PENCIL BLUFF<br>WATER ASSN.         | Administrative Order               | 1/30/2017  | DBP                |
| 998 | Ozark Mtn Regional PWA                    | Proposed Penalty                   | 8/7/2017   | SWTR               |



## **Appendix K - Enforcement Actions**

|     |                               |                                    |            |                |
|-----|-------------------------------|------------------------------------|------------|----------------|
| 328 | PARIS WATERWORKS              | Warning of Administrative Order    | 11/21/2017 | DBP            |
| 883 | PARON-OWENSVILLE WATER AUTH   | Penalty Assessed - Board of Health | 5/5/2017   | DBP/PN         |
| 251 | PFEIFFER WATER AUTHORITY      | Warning of Administrative Order    | 11/21/2017 | DBP            |
| 818 | PIKE CITY WATER ASSN          | Warning of Administrative Order    | 1/30/2017  | DBP/PN         |
| 202 | PLEASANT VIEW WATER FAC BOARD | Warning of Administrative Order    | 1/30/2017  | LCR            |
| 354 | PYATT WATERWORKS              | Proposed Penalty                   | 4/3/2017   | RTCR           |
| 040 | RAMBO WATER DISTRICT #1 INC   | Warning of Administrative Order    | 11/21/2017 | IOC            |
| 329 | RATCLIFF WATERWORKS           | Warning of Administrative Order    | 11/21/2017 | DBP            |
| 540 | SHADY ACRES MOBILE HOME PARK  | Proposed Penalty                   | 1/10/2017  | DBP (lic)/RTCR |
| 265 | SWIFTON WATERWORKS            | Warning of Administrative Order    | 4/3/2017   | Lic/RTCR       |
| 265 | SWIFTON WATERWORKS            | Administrative Order               | 6/5/2017   | Lic/RTCR       |
| 265 | SWIFTON WATERWORKS            | Proposed Penalty                   | 7/5/2017   | lic            |
| 114 | TAYLOR WATERWORKS             | Warning of Administrative Order    | 5/4/2017   | DBP (lic)/RTCR |
| 114 | TAYLOR WATERWORKS             | Administrative Order               | 6/5/2017   | Lic/RTCR       |
| 114 | TAYLOR WATERWORKS             | Proposed Penalty                   | 7/5/2017   | lic            |
| 782 | TRI-COUNTY WATER DISTBR DIST  | Warning of Administrative Order    | 8/1/2017   | DBP            |
| 782 | TRI-COUNTY WATER DISTBR DIST  | Administrative Order               | 11/28/2017 | DBP            |
| 654 | UNITED WATER ASSOCIATION      | Warning of Administrative Order    | 8/1/2017   | DBP            |
| 654 | UNITED WATER ASSOCIATION      | Administrative Order               | 11/28/2017 | DBP/PN         |
| 806 | WIEDERKEHR VILLAGE WATER DEPT | Administrative Order               | 6/29/2017  | SWTR           |

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**Appendix K**

## **Appendix K - Enforcement Actions**

**PWS type:** N

| <b>PWS</b> | <b>System Name</b>             | <b>Enforcement Action</b>       | <b>Date Issued</b> | <b>Rule Violated</b> |
|------------|--------------------------------|---------------------------------|--------------------|----------------------|
| T0120      | CAMP KIA KIMA                  | Warning of Administrative Order | 8/1/2017           | RTCR                 |
| T0120      | CAMP KIA KIMA                  | Administrative Order            | 10/10/2017         | RTCR                 |
| T1076      | ECHO CANYON RESORT & MARINA    | Warning of Administrative Order | 10/9/2017          | RTCR                 |
| 989        | FOODIE'S CAFÉ & CATERING       | Proposed Penalty                | 1/10/2017          | RTCR                 |
| 972        | GENERAL WATER CONDITIONING     | Warning of Administrative Order | 8/1/2017           | PN/RTCR              |
| t0916      | HOT SPR NAT PK WHITTINGTON SPR | Warning of Administrative Order | 10/10/2017         | SWTR                 |
| 1009       | HOUSE OF LUKE MINISTRIES       | Warning of Administrative Order | 5/4/2017           | RTCR                 |
| 1009       | HOUSE OF LUKE MINISTRIES       | Administrative Order            | 6/29/2017          | RTCR                 |
| 1009       | HOUSE OF LUKE MINISTRIES       | Proposed Penalty                | 11/30/2017         | RTCR/PN              |
| T0308      | KOA CAMPGROUND STORE           | Warning of Administrative Order | 5/4/2017           | RTCR                 |
| T0373      | MOOSE LODGE 1953               | Proposed Penalty                | 1/10/2017          | RTCR/PN              |
| T0244      | PARON FOOD MART                | Warning of Administrative Order | 8/1/2017           | RTCR/GWR             |
| T0472      | ROCKING CHAIR RANCH            | Administrative Order            | 10/10/2017         | RTCR                 |
| T1097      | ROOST YOUR WHEELS              | Warning of Administrative Order | 6/1/2017           | RTCR                 |
| 1047       | T & T DOLLAR STORE FS          | Proposed Penalty                | 1/10/2017          | RTCR/PN              |
| T0797      | USFS LITTLE PINES REC AREA     | Warning of Administrative Order | 10/10/2017         | RTCR                 |
| T0821      | USFS WHITE ROCK                | Warning of Administrative Order | 4/3/2017           | SWTR                 |
| T0821      | USFS WHITE ROCK                | Administrative Order            | 5/4/2017           | SWTR                 |
| T0821      | USFS WHITE ROCK                | Proposed Penalty                | 7/5/2017           | SWTR                 |
| 949        | WEST SHORE RESTAURANT          | Warning of Administrative Order | 6/1/2017           | RTCR                 |

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**Appendix K**

## ***Appendix K - Enforcement Actions***

***PWS type:*** P

| <b><i>PWS</i></b> | <b><i>System Name</i></b> | <b><i>Enforcement Action</i></b> | <b><i>Date Issued</i></b> | <b><i>Rule Violated</i></b> |
|-------------------|---------------------------|----------------------------------|---------------------------|-----------------------------|
| N0014             | BRUNO PYATT SCHOOL        | Proposed Penalty                 | 1/10/2017                 | RTCR/PN                     |
| N0241             | HUTCHINSON REALTY         | Warning of Administrative Order  | 8/1/2017                  | ICR                         |
| N0241             | HUTCHINSON REALTY         | Administrative Order             | 11/28/2017                | IOC                         |
| 932               | MOUNTAIN DEVELOPMENT      | Warning of Administrative Order  | 11/21/2017                | IOC                         |

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