



Arkansas Department of Health

Drinking Water Program

Annual Report

Public Water System Supervision Program

Calendar Year 2019

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ABBREVIATIONS AND DEFINITIONS

ADH	Arkansas Department of Health
ARWA	Arkansas Rural Water Association
AWOP	Area Wide Optimization Program
CCCP	Cross-Connection Control Program
CCR	Consumer Notification
CDP	Capacity Development Program
CPE	Comprehensive Performance Evaluations
CY	Calendar Year
DBPR	Disinfectants and Disinfection Byproducts Rule
EPA	Environmental Protection Agency
GWR	Ground Water Rule
HAA	Total Haloacetic Acids
LT2ESWTR	Long Term 2 Enhanced Surface Water Treatment Rule
MCLs	Maximum Contaminant Levels
OEL	Operational evaluation level
OIT	Operator-In-Training
PWS	Public Water Systems
RTCR	Revised Total Coliform Rule
SDWIS	Safe Drinking Water Information System
SDWA	Safe Drinking Water Act
SOC	Synthetic Organic Compounds
SWAP	Source Water Assessment Program
SWTR	Surface Water Treatment Rule
TT	Treatment Technique
TTHM	Total Trihalomethanes
VOC	Volatile Organic Compounds

INTRODUCTION

Arkansas Land Use (2019 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 (2019 U. S. Census Bureau Estimate) 3,017,804

Population served by public water systems	2,887,727
Population served by surface water systems	1,917,225
Population served by ground water systems	799,887
Population served by ground & surface systems	170,615
% population served by community public water systems	95.7%
% population served by individual private wells or other source	4.3%

Total number of public water systems active during 2019 1058

Number of community public water systems	687
Number of transient non-community public water systems	336
Number of non-transient non-community public water systems	35
Number of systems using surface water	436
Number of systems using ground water	586
Number of systems using ground & surface	36
Total average daily water used by public water systems (estimate MGD)	450

PURPOSE

The purpose of this report is to summarize the Arkansas Public Water System violation data submitted to the Safe Drinking Water Information System (SDWIS/FED) for the calendar year 2019. The data includes 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 2019 for contaminants and rules not shown in the violation tables.
- There were 1058 public water systems in operation during 2019. Six hundred and eighty seven (687) were community water systems, thirty five (35) were non-transient, non-community water systems, and three hundred and thirty six (336) were transient non-community water systems.
- A total of two hundred and forty four (244) major monitoring violations occurred for one hundred and thirty six (136) public water systems during 2019. One hundred nine (109) violations were for fifty eight (58) community water systems, one (1) violation was for one (1) non-transient, non-community water systems, one hundred and five (105) violations were for sixty six (66) transient non-community water systems, and twenty nine (29) violations for eleven (11) systems who were active in CY2019 but are now inactive and non-public.
- A total of two hundred and fifty four (254) Maximum Contaminant Level (MCL) or Treatment Technique (TT) violations were issued in 2019 for ninety one (91) systems. Two Hundred and six (206) violations for sixty six (66) community water systems, four (4) violations for three (3) non-transient, non-community water systems, and seventeen (17) violations for fifteen (15) transient non-community water systems and twenty seven (27) violations for seven (7) systems which were active in CY2019 but are now inactive and non-public.
- No variances or exemptions were issued to any public water system in Arkansas during the calendar year 2019.
- 95.6% 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, HAA) analyte group. TTHM, trihalomethanes, and HAA, haloacetic acids, are by products of the disinfection process and decay of naturally occurring organic material such as leaves. The occurrence of these contaminants are largely the result of the use of water sources in forested areas and use of chlorine for disinfection purposes.
- 100% of the public water systems in Arkansas did not have a nitrate MCL violation.
- 100% of the community public water systems in Arkansas did not exceed the radium-226/228 MCL or either of the individual MCL's.
- There were seven (7) inorganic chemical (MCL) violations for three 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%	97.2%	97.1%
Person months exposure	27246	931114	958360
Person months possible	34124244	34124244	34124244

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 2019**) 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 2019 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)

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 tech >Turbidity 0.3 NTU in more than 5% of

monthly CFE samples)

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

Radionuclide Rule: MCL violation

Consumer Confidence Reports: violations codes 71, 72

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 T/C/N/P	Number of Systems with Violations T/C/N/P	Number of Violations	Number of Systems with Violations	Number of Violations T/C/N/P	Number of Systems With Violations T/C/N/P
Inorganic Contaminants								
Fluoride	1025	4.0	0/0/0/0	0/0/0/0				
Arsenic	1005	0.010	0/0/0/0	0/0/0/0				
Cyanide	1024		7/4/0/3	3/1/0/2				
Subtotal			7/4/0/3	3/1/0/2				

	SDWIS Codes	MCL (mg/L)	MCLs		Treatment Techniques		Significant Monitoring/Reporting	
			Number of violations T/C/N/P	Number of Systems with Violations T/C/N/P	Number of Violations T/C/N/P	Number of Systems with Violations T/C/N/P	Number of Violations T/C/N/P	Number of Systems With Violations T/C/N/P
Disinfectants / Disinfection By-Products								
Stage 1 DBPR	0400				63/60/3/0	19/17/0/2		
Stage 1 DBPR	0999						21/19/2/0	19/17/2/0
Long Term 2 Enhanced Surface water treatment rule	0999						1/1/0/0	1/1/0/0
Chlorite	1009	1.0	0/0/0/0	0/0/0/0			5/5/0/0	1/1/0/0
Total Haloacetic Acids (HAA5)	2456	0.060	19/19/0/0	10/10/0/0				
Total Organic Carbon	2920				0/0/0/0	0/0/0/0		
Total Trhhalomethanes (TTHM)	2950	0.080	112/112/0/0	37/37/0/0				
Subtotal			131/113/0/0	47/47/0/0	63/60/3/0	19/17/0/2	27/25/2/0	21/19/2/0

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)

TCR / RTCR	SDWIS Codes	MCL (mg/L)	MCLs		Treatment Techniques		Significant Monitoring/Reporting	
			Number of violations T/C/N/P	Number of Systems with Violations T/C/N/P	Number of Violations T/C/N/P	Number of Systems in Violation T/C/N/P	Number of Violations T/C/N/P	Number of Systems With Violations T/C/N/P
RTCR MCL violations	1A	Presence	7/3/4/0	7/3/4/0				
RTCR Treatment Technique	2A				1/1/0/0	1/1/0/0		
RTCR Treatment Technique	2B				0/0/0/0	0/0/0/0		
RTCR Treatment Technique	2C				1/1/0/0	1/1/0/0		
RTCR Treatment Technique	2D				14/0/14/0	12/0/12/0		
RTCR monitoring major	3A						135/51/83/1	90/31/58/1
RTCR monitoring minor	3A						46/38/6/2	43/36/5/2
RTCR monitoring major	3B						0/0/0/0	0/0/0/0
RTCR monitoring minor	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	14/13/1/0
RTCR other	5B						0/0/0/0	0/0/0/0
Subtotal			7/3/4/0	7/3/4/0	16/2/14/0	14/2/12/0	202/109/90/3	147/80/64/3

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 T/C/N/P	Number of Systems with Violations T/C/N/P	Number of Violations T/C/N/P	Number of Systems With Violations T/C/N/P
Surface Water Treatment Rule								
<u>Filtered Systems</u>								
Monitoring, routine/repeat	36						13/9/4/0	7/3/4/0
Monitoring, routine/filter turbidity	38						8/2/6/0	4/1/3/0
Treatment techniques	41				2/2/0/0	2/2/0/0		
Failure to filter	42				13/10/3/0	5/1/4/0		
Treatment Tech > Turb 1 NTU	43				0/0/0/0	0/0/0/0		
Treatment Tech > Turb 0.3 NTU	44				0/0/0/0	0/0/0/0		
Subtotal					15/12/3/0	7/3/4/0	21/11/10/0	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/ Consumer Notice	
			Number of violations T/C/N/P	Number of Systems with Violations T/C/N/P	Number of Violations T/C/N/P	Number of Systems with Violations T/C/N/P	Number of Violations T/C/N/P	Number of Systems With Violations T/C/N/P
Lead and Copper Rule								
Initial lead and copper tap M/R	51						5/3/0/2	4/3/0/1
Follow-up or routine lead and copper tap M/R	52						1712/0/5	15/10/0/5
Failure to Conduct Consumer Notice	66						38/36/0/2	34/32/0/2
Treatment Installation	58				1/1/0/0	1/1/0/0		
Public education	65				0/0/0/0	0/0/0/0		
Subtotal					1/1/0/0	1/1/0/0	60/51/0/9	53/45/0/8

CONSUMER NOTIFICATION: CONSUMER CONFIDENCE REPORTS / PUBLIC NOTIFICATION

	SDWIS Codes	MCL (mg/L)	MCLs		Treatment Techniques		Significant Monitoring/Reporting	
			Number of violations T/C/N/P	Number of Systems with Violations T/C/N/P	Number of Violations	Number of Systems with Violations	Number of Violations T/C/N/P	Number of Systems With Violations T/C/N/P
Consumer Confidence Report	71						74/74/0/0	63/63/0/0
Consumer Confidence Report	72						35/35/0/0	34/34/0/0
Public Notification	75						372/168/191/13	174/66/105/3
Subtotal							481/277/191/13	271/163/105/3

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 T/C/N/P	Number of Systems with Violations T/C/N/P	Number of Violations	Number of Systems with Violations	Number of Violations T/C/N/P	Number of Systems With Violations T/C/N/P
Radionuclide MCLs								
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	0/0/0/0	0/0/0/0			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
Subtotal			0/0/0/0	0/0/0/0			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 (CCR). This report is to include some educational material, and will provide information on the source water, the levels of any detected contaminants.

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 (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 collected 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 pCi/L. 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 2019 PWS Annual Compliance Report, is January 1, 2019 through December 31, 2019.

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.

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 2019.

ENFORCEMENT DEFINITIONS

The Arkansas Department of Health has developed a multi stage enforcement escalation scheme which pair's technical assistance with multiple opportunities to return to compliance. The ADH 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 Orders 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 2019.

Community Public Water Systems

State Formal Notification of Violation (SFJ).....	31
Administrative Orders Issued (SFL).....	27
Proposed Penalties Issued (SFN).....	4
Penalties Suspended – Board of Health (SFO).....	0
Penalties Assessed – Bilateral Compliance Agreements (SFK).....	29
Penalties Assessed – Board of Health (SFM).....	30
Total Enforcement Actions for CWSS.....	121

Non-Transient Non-Community Systems

State Formal Notification of Violation (SFJ).....	3
Administrative Orders Issued (SFL).....	3
Proposed Penalties Issued (SFN).....	0
Penalties Suspended – Board of Health (SFO).....	0
Penalties Assessed – Bilateral Compliance Agreements (SFK).....	2
Penalties Assessed – Board of Health (SFM).....	2
Total Enforcement Actions for NTNC.....	10

Transient Non-Community Systems

State Formal Notification of Violation (SFJ).....	13
Administrative Orders Issued (SFL).....	7
Proposed Penalties Issued (SFN).....	0
Penalties Suspended – Board of Health (SFO).....	0
Penalties Assessed – Bilateral Compliance Agreements (SFK).....	5
Penalties Assessed – Board of Health (SFM).....	5
Total Enforcement Actions for Transient NC.....	30

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 continued its utilization of technical assistance contracts as part of our Capacity Development Program in 2019. Arkansas Rural Water Association was awarded the Technical and Operational contract to assist small public water systems achieve TMF capacity, while Communities Unlimited was awarded the Financial and Managerial contract. 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 2019, Arkansas Rural Water Association assisted in 1,729.9 hours of technical assistance in the Technical and Operational contract. Communities Unlimited provided 1,098.75 hours of technical assistance in the Financial and Managerial contract. Some examples of direct assistance hours provided by the Contractors include regionalization efforts, 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.

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 along with EPA Region 6 staff, EPA Region 7 staff and EPA Technical Support Center Staff. During Calendar year 2019, 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. Due to lack of staffing only January through April 2018 data was entered in 2018. During 2019, data entry for 2018 was completed through October of 2018.

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 2019, there were approximately two hundred seventy (270) sanitary surveys performed. One hundred eighty nine (189) Sanitary Surveys were performed on the state's community water systems, seventy two (72) Sanitary Surveys were performed on transient non-community water systems, nine (9) 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. 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 calendar year 2019 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 one technical track with a total of 12 separate sessions on issues including regulations and regulatory compliance, treatment and distribution technical matters, and treatability studies. Also, the ADH 8 hour Public Water System Compliance Course was offered 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 2019, 422/685 Community Public Water Systems serving 2,005,046 people have reached substantial implementation status. This represents 61.6% of the community PWS and 70.9 of the population that they serve in Arkansas.

The source water assessment program staff included 2 geologists all year (Darcia Routh, Evelyn Kort), 1 WHPP EHS for 11 months (Allie Cumnock February through December), 1 GIS EHS for 10 months (Tyler Couch), 1 ADH EH Supervisor for 6 months (Richard Norwood, then vacant until October and filled by GIS EHS {Tyler Couch} for remainder of 2019. Training staff for new duties and filling vacancies in the GIS EHS position was a priority during 2019.

SWAP staff completed a total of six (6) Phase I Delineation Wellhead Protection (WHP) reports covering ten (10) wells and eight (8) Phase II Potential Sources of Contamination (PSOC) Inventory WHP reports covering eighteen (18) Wellhead protection areas were completed. In addition, Arkansas Rural Water Association source water protection staff completed three (3) source water protection plans covering surface water sources with forty-one (41) PSOC maps created by ADH.

Staff gave 16 SWP presentations, wrote 4 Newsletter articles, managed 3 information booths, participated with other agencies regarding source water protection 133 times, provided 14 well recommendations or well cuttings review, provided 79 hydrogeological technical assistance, including 15 field visits, sent 7 updates for source water assessment reports/13 historical source water assessment reports, and provided technical assistance to public water suppliers at least 50 times. SWP staff conducted 327 miscellaneous reviews of environmental permits. Staff responded to at least 50 requests 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 and water quality in the state.

Collection and verification of data for accurate and improved source water assessments has been ongoing since 2003. SWPP staff continued to maintain the existing source water assessment GIS database in 2019. Filling in data gaps and making enhancements to the USGS developed/improved SWAP GIS Model was a priority from 2017-2019. Most Surface Public Water Systems received their updated SWAP report in late 2018 into early 2019. Edits to the model focused on converting the existing model to better function for Groundwater PWSs and completing the SWAP reports for Groundwater PWSs is a priority for 2020. SWAP Reports for groundwater systems will be completed and distributed when a new GIS specialist is hired.

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 2019, the CCCP engineers made fifty-three (53) CCCP surveys at water utilities. Five (5) visits were made to 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. In 2019, the CCCP engineer job duties were split to three AWOP staff with the intent to split the job duties four ways when fully staffed. This should allow increased site visits and hopefully reduce the number of water systems with non-compliant CCCP.

In addition to providing technical support to district engineering staff, the CCCP staff completed two hundred nineteen (219) review/comment/approve (RCA) 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 2019, no CPE's were conducted. The focus on DBP technical assistance resulted in the use of targeted technical assistance instead of conducting CPE's. Due to lack of district staff, the AWOP staff conducted or assisted with eight (8) surface water system sanitary surveys. The AWOP staff also completed three hundred thirty one (331) RCA plan review assignments of non-fire sprinkler plans due to a lack of district staff.

A Data Audit was conducted at the Montgomery County water system and many operational and data quality issues were found.

Microbial / Disinfection Byproduct Rules Programs

The Arkansas Department of Health (ADH) has been providing implementation activities for the LT2ESWTR, Stage 2 DBPR, and GWR. Compliance assistance efforts in these areas during the 2019 calendar year include the following:

Long Term 2 Enhanced Surface Water Treatment Rule (LT2ESWTR): As part of the early implementation strategies for large and small systems, the first round of source water monitoring for *Cryptosporidium* and *E. coli* in Arkansas's public water systems began in January 2007. (All Schedule 1 ($\geq 100,000$ people served) systems in Arkansas at that time submitted grandfathered data, so Schedule 2 (99,999 to 50,000 people) monitoring had to commence by April 1, 2007.)

Source water *Cryptosporidium* monitoring data has been and will continue to be used to categorize each source into one of four "Bin" classifications based on the source's average observed pathogen concentration. The second round of monitoring will continue into at least the year 2020. *Cryptosporidium* analyses continue to be outsourced to IEH-BioVir Laboratories. Any new small system source water *E. coli* analyses will be completed in-house by the Arkansas Public Health Laboratory.

When Round 1 was completed, seven (7) Arkansas surface water sources were determined to be in Bin 2. Each system (4 large and 3 small) using a Bin 2 source chose to obtain an additional 1.0-log of *Cryptosporidium* removal credit by documenting treatment performance in its combined and individual filter effluents.

The turbidity measurements reported on each system's monthly operating report are reviewed in the following month to determine if the minimum allowable treatment performance was achieved. To date, two LT2-specific violations have been levied by Arkansas since treatment monitoring began in 2012 (i.e., one in November 2014 and one in January 2018). In both cases, a public water system using a Bin 2 source failed to demonstrate that it met the minimum treatment performance requirements to obtain the additional 1.0-log removal credit.

Surface water systems had to begin a second round of source water monitoring for *Cryptosporidium* and *E. coli* by April 2015. Arkansas initiated this second round early (in July 2014) and split its large systems (serving 10,000 or more people) into two groups. The first group finished all required *Cryptosporidium* and *E. coli* monitoring in 2016, and the second group finished in June 2018. No additional Bin 2 sources were found in Arkansas's large water systems during Round 2 thus far.

Two large surface water systems were built and began operation after Round 1 was completed, and these two completed Round 1 when the others completed Round 2. The source waters for these two systems were classified as Bin 1 sources on September 15, 2016. A second round of *Cryptosporidium* and *E. coli* monitoring must begin "no later than 6 years following initial bin classification."

Sixty-four (64) small public water systems (serving less than 10,000 people) using 75 source water intakes began Round 2 monitoring for *E. coli* in January 2015. All of these completed *E. coli* sampling by the end of 2017. Seventeen (17) of these small systems with twenty (20) sources triggered *Cryptosporidium* sampling which began in July 2018. Two other systems also began *Cryptosporidium* monitoring in July 2018, but these two are at the beginning of Round 1. One is a new intake at an existing small system, and the second is a proposed new source for an existing

large system. One additional small system began *Cryptosporidium* monitoring in February of 2019 at a proposed new source for a proposed new water treatment plant.

Stage 2 Disinfectants and Disinfection Byproducts Rule (DBPR): As part of the continued implementation strategies, TTHM and HAA5 monitoring plans were updated and approved as needed for all community and non-transient non-community water systems. During calendar year 2019, five (5) water systems with results exceeding 80 ppb for TTHM and/or 60 ppb HAA5 were placed on increased monitoring. To gather more representative DBP data, forty-three (43) new Stage 2 TTHM/HAA5 monitoring locations were also established by, or with assistance from, Engineering staff.

All Capital Improvement extensions granted under Stage 2 have expired, and all systems are being monitored for compliance. Arkansas continued using the DBP and treatment technique calculation reports and monitoring plans format and continued the operational evaluation level (OEL) report State review policy and tools. In calendar year 2019, a total of one hundred forty-three (143) OEL exceedance notifications were issued, and one hundred thirty-five (135) OEL reports were received.

Ground Water Rule (GWR): During the 2019 calendar year, eighteen (18) ground water 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's sources. No violations were issued for failure to maintain CT or for failure to conduct compliance monitoring. RTCR sampling data was reviewed daily for six hundred sixty two (662) ground water systems with a total of one thousand one hundred twelve (1112) ground water well sources during the 2019 calendar year. From this subset of systems approximately three hundred fifteen (315) routine distribution system samples tested total coliform positive and triggered source water monitoring was necessary. A total of five (5) system sources tested *E. coli* positive and required additional raw water *E. coli* monitoring. one (1) systems had confirmed *E. coli* positive samples as a result of the additional monitoring. No 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 ensure that their special GWR compliance criteria, was met.

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.
- Following up on citizen inquiries regarding drinking water quality.

Among the water systems receiving other technical assistance related to disinfection byproducts in 2019 were Little River County, Marianna, Lee County, New London, Magnolia and Lakeside. This technical assistance includes but is not limited to tank studies and tank management, THM Plus™ profiling, water age control, monitoring plan updates, chlorine control, distribution system chlorine residual studies, 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 attending quarterly and annual AWOP meetings. Systems involved in AWOP activities in addition to those systems listed under disinfection byproduct technical assistance above: Eudora, Redfield, North Pike, Horatio, Monticello, Montrose-Boydell, Arkansas City, Ozark Mountain, Fort Smith, Ward, and Carthage.

Additionally, for the past several summers, the Engineering Section has employed one or more summer interns to check calibration of monitoring equipment, specifically turbidity, pH, and chlorine, at water systems throughout the state. During 2019, a summer intern checked the calibration of two

hundred seventeen (217) turbidimeters, fifty (50) pH meters, and sixty four (64) chlorine analyzers at thirty three (33) surface water treatment plants. Only 58% of the turbidimeters, 52% of the pH meters, and 83% of the chlorine analyzers were found to be in calibration.

Water Operator Licensing and Training

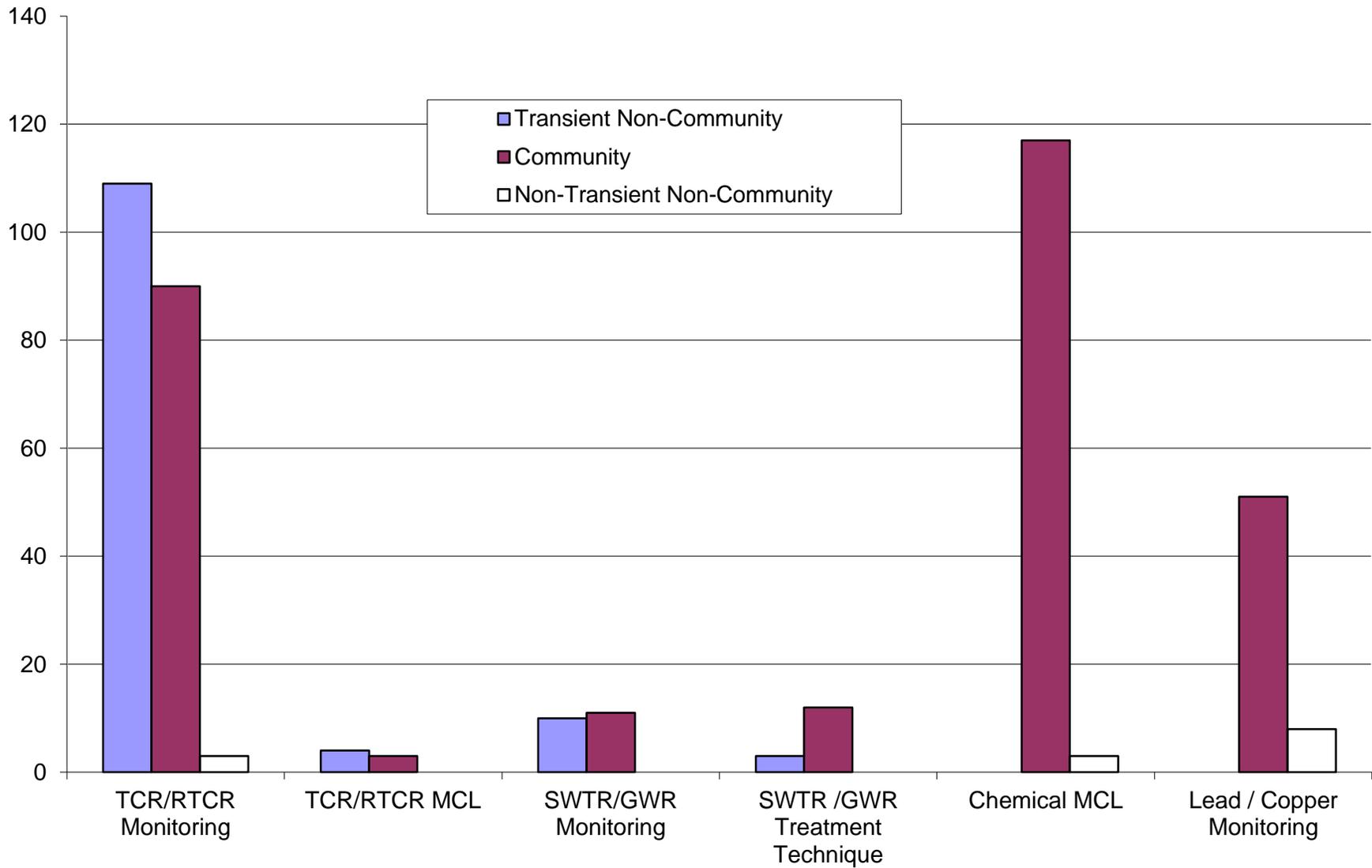
The purpose of licensing and training water operators is to ensure that all public water systems in the State of Arkansas are maintained by personnel who have shown their competence and knowledge of the public health and scientific principles necessary to produce and deliver adequate quantities of water 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 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 fifty one (51) classroom courses in calendar year 2019. In addition, AETA conducted twenty two (22) internet based mandatory training courses in calendar year 2019. The Arkansas Rural Water Association provided twenty seven (27) courses in calendar year 2019. 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 fourteen (14) times in calendar year 2019. A total of one hundred ten (110) mandatory training sessions were offered by the three approved training organizations in calendar year 2019. Courses offered continue to decrease as available training funds decrease through the loss of federal training grants and limited increases in other funding sources. 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.

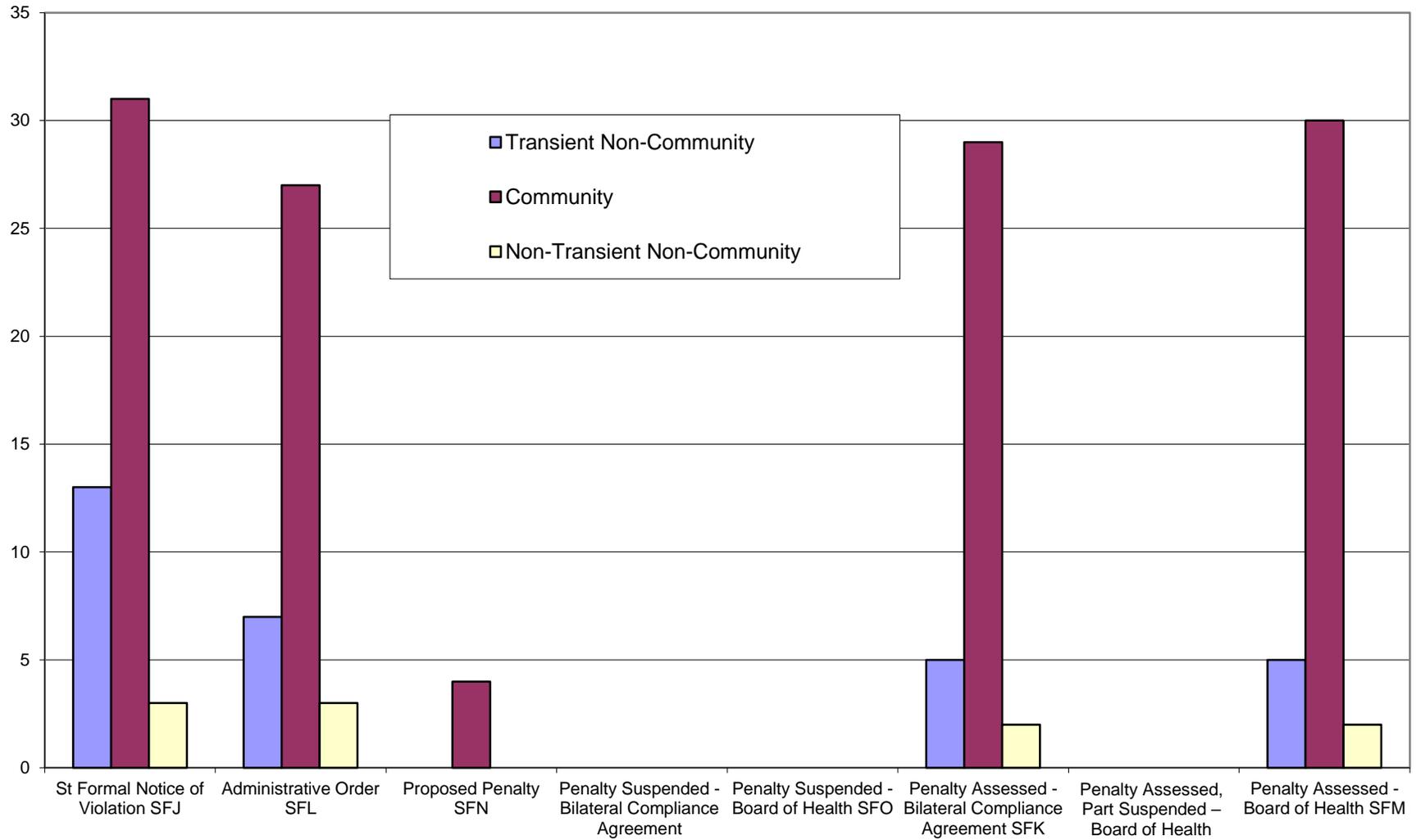
A large number of approved general and specialized training courses are provided to assist licensed operator in meeting their continuing education requirements for license renewal. The courses are offered through conferences, general meetings, and workshops. They are provided by the Arkansas Water Works 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 2019, approximately seven hundred thirty five out of seven hundred seventy nine (735/779) water operator license exams were administered, two hundred forty eight (248) water operator licenses were issued, and sixty nine (69) 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 thirteen (2013) active licensed water operators or OIT certificates at the end of calendar year 2019. They held two thousand two hundred eighty nine (2889) treatment, distribution, and/or very small system licenses or OIT certificates.

Violations By Type Of System Graph



Enforcement Actions By Type Of System Graph



APPENDICES

**Appendix A - Microbiological Acute Maximum Contaminant Level Violations
TCR Violation code 21 was replaced by RTCR Violation code 1A**

PWS type: C

PWS ID	System Name	SDWIS Code	Violation Date	Retail population
150	EARLE WATERWORKS	1A	6/1/2019	1720
815	SOUTH MOUNTAIN WATER ASSN	1A	8/1/2019	349
882	SYLAMORE VALLEY WATER ASSN	1A	6/1/2019	270

PWS type: N

PWS ID	System Name	SDWIS Code	Violation Date	Retail population
T0097	BUFFALO RV TYLER BEND MTU3-12	1A	5/1/2019	25
T1080	CITGO FOOD MART	1A	10/1/2019	250
989	FOODIE'S CAFÉ & CATERING	1A	8/1/2019	25
T1092	Lake Norfolk Ozark Mountain Lodge	1A	3/1/2019	25

Appendix B - Microbiological Maximum Contaminant Level Violations

PWS type: C

PWS	System Name	SDWIS Code	Violation Date	Retail population
150	EARLE WATERWORKS	1A	6/1/2019	1720
815	SOUTH MOUNTAIN WATER ASSN	1A	8/1/2019	349
882	SYLAMORE VALLEY WATER ASSN	1A	6/1/2019	270

PWS type: N

PWS	System Name	SDWIS Code	Violation Date	Retail population
T0097	BUFFALO RV TYLER BEND MTU3-12	1A	5/1/2019	25
T1080	CITGO FOOD MART	1A	10/1/2019	250
989	FOODIE'S CAFÉ & CATERING	1A	8/1/2019	25
T1092	Lake Norfolk Ozark Mountain Lodge	1A	3/1/2019	25

Appendix C - Microbiological Monitoring - No Valid Samples

PWS type: C

PWS	System Name	SDWIS Code	Violation Date	Retail population
006	ALMYRA WATERWORKS	3A	9/1/2019	348
689	BALD KNOB NORTH WATER ASSOC	3A	5/1/2019	2368
415	BARTON LEXA WATER ASSOCIATION	3A	4/1/2019	3700
600	BELLEVILLE WATER	3A	12/1/2019	1103
365	BLYTHEVILLE WATERWORKS	3A	7/1/2019	16243
178	BOIS D'ARC WATER SYSTEM	3A	8/1/2019	53
178	BOIS D'ARC WATER SYSTEM	3A	10/1/2019	53
178	BOIS D'ARC WATER SYSTEM	3A	11/1/2019	53
178	BOIS D'ARC WATER SYSTEM	3A	12/1/2019	53
653	BRANCH WATER WORKS	3A	7/1/2019	480
737	BUENA VISTA-OGEMAW WATER	3A	2/1/2019	384
551	CALION WATER WORKS	3A	11/1/2019	494
261	CAMPBELL STATION WATERWORKS	3A	2/1/2019	234
261	CAMPBELL STATION WATERWORKS	3A	11/1/2019	234
043	CAVE SPRINGS WATERWORKS	3A	5/1/2019	3993
043	CAVE SPRINGS WATERWORKS	3A	12/1/2019	3993
289	CLARKSVILLE CONNECTED UTILITIES	3A	4/1/2019	9410
596	COTTON PLANT WATERWORKS	3A	2/1/2019	435
199	DENNING WATERWORKS	3A	4/1/2019	755
061	DIAMOND CITY WATER	3A	11/1/2019	1175
150	EARLE WATERWORKS	3A	5/1/2019	1720
418	ELAINE WATERWORKS	3A	12/1/2019	1673
625	FREE HOPE WATER ASSOCIATION	3A	4/1/2019	165
636	FRENCHPORT WATER ASSOCIATION	3A	2/1/2019	1669
636	FRENCHPORT WATER ASSOCIATION	3A	3/1/2019	1669
636	FRENCHPORT WATER ASSOCIATION	3A	4/1/2019	1669
422	GLENWOOD WATER DEPARTMENT	3A	8/1/2019	3023
316	GOULD MUNICIPAL WATER-SEWER	3A	11/1/2019	908
086	GUM SPRINGS MUNICIPAL WATER UTILITY	3A	7/1/2019	947
015	HAMBURG WATERWORKS	3A	12/1/2019	5481
885	HIGHFILL WATER DEPARTMENT	3A	1/1/2019	649
388	HOLLY GROVE WATERWORKS	3A	6/1/2019	1010
884	HOSANNA HEIGHTS WATER	3A	11/1/2019	50
344	HUMNOKE WATERWORKS	3A	1/1/2019	290
010	HUMPHREY WATERWORKS	3A	1/1/2019	602
010	HUMPHREY WATERWORKS	3A	2/1/2019	602

Saturday, May 09, 2020

Appendix C

Appendix C - Microbiological Monitoring - No Valid Samples

010	HUMPHREY WATERWORKS	3A	6/1/2019	602
010	HUMPHREY WATERWORKS	3A	10/1/2019	602
010	HUMPHREY WATERWORKS	3A	12/1/2019	602
508	HUNTINGTON WATERWORKS	3A	4/1/2019	620
726	LAKESHORE ESTATES WATER ASSN	3A	6/1/2019	634
793	LAURELWOOD HOMEOWNERS	3A	5/1/2019	90
313	LEE COUNTY WATER ASSOCIATION	3A	2/1/2019	4813
747	LEISURE HILLS MOBILE HOME PARK	3A	7/1/2019	105
218	LEOLA WATERWORKS	3A	1/1/2019	561
517	LOCKESBURG WATERWORKS	3A	1/1/2019	739
246	MAGNESS WATER ASSOCIATION	3A	2/1/2019	202
589	MC RAE WATERWORKS	3A	1/1/2019	885
170	MCGEHEE WATERWORKS	3A	12/1/2019	4386
697	NE YELL COUNTY WATER ASSOC	3A	2/1/2019	6125
248	NEWARK WATERWORKS	3A	2/1/2019	1410
391	NORMAN WATERWORKS	3A	10/1/2019	850
583	NORTH WHITE CO RURAL WATER PFB	3A	2/1/2019	5300
322	OGDEN WATERWORKS	3A	2/1/2019	495
089	OKOLONA WATERWORKS	3A	8/1/2019	625
832	OSAGE POINT MHP	3A	6/1/2019	80
234	PERRYTOWN WATERWORKS	3A	10/1/2019	130
172	PICKENS WATERWORKS	3A	2/1/2019	57
172	PICKENS WATERWORKS	3A	7/1/2019	57
172	PICKENS WATERWORKS	3A	8/1/2019	57
172	PICKENS WATERWORKS	3A	10/1/2019	57
040	RAMBO WATER DISTRICT #1	3A	11/1/2019	93
776	RIDGEFIELD ESTATES	3A	11/1/2019	150
678	S P G WATER ASSOCIATION	3A	11/1/2019	1420
540	SHADY ACRES MOBILE HOME PARK	3A	5/1/2019	18
540	SHADY ACRES MOBILE HOME PARK	3A	6/1/2019	18
540	SHADY ACRES MOBILE HOME PARK	3A	7/1/2019	18
540	SHADY ACRES MOBILE HOME PARK	3A	8/1/2019	18
540	SHADY ACRES MOBILE HOME PARK	3A	9/1/2019	18
540	SHADY ACRES MOBILE HOME PARK	3A	10/1/2019	18
540	SHADY ACRES MOBILE HOME PARK	3A	11/1/2019	18
540	SHADY ACRES MOBILE HOME PARK	3A	12/1/2019	18
528	SIDNEY WATER SYSTEM	3A	1/1/2019	312
405	STEPHENS WATERWORKS	3A	3/1/2019	1000
472	SUNSET WATER ASSOCIATION	3A	11/1/2019	575
882	SYLAMORE VALLEY WATER ASSN	3A	12/1/2019	270
451	ULM WATERWORKS	3A	12/1/2019	213
137	VANDERVOORT WATERWORKS	3A	2/1/2019	685
283	WABBASEKA WATERWORKS	3A	1/1/2019	352
283	WABBASEKA WATERWORKS	3A	2/1/2019	352

Appendix C - Microbiological Monitoring - No Valid Samples

283	WABBASEKA WATERWORKS	3A	9/1/2019	352
283	WABBASEKA WATERWORKS	3A	10/1/2019	352
283	WABBASEKA WATERWORKS	3A	12/1/2019	352
400	WESTERN GROVE MUNICIPAL WATER	3A	11/1/2019	939
538	WIDENER WATERWORKS	3A	8/1/2019	506
321	WILTON WATERWORKS	3A	12/1/2019	354
783	WIRE ROAD WATER SYSTEM	3A	2/1/2019	830
383	YARBRO WATERWORKS	3A	5/1/2019	392

PWS type: N

PWS	System Name	SDWIS Code	Violation Date	Retail population
T1105	3B OFF ROAD, LLC	3A	7/1/2019	25
T0015	AHTD-LONSDALE REST AREA	3A	3/1/2019	25
T0015	AHTD-LONSDALE REST AREA	3A	5/1/2019	25
T0031	ARK POST NATIONAL MEMORIAL	3A	1/1/2019	100
T0068	BAYOU RESORT	3A	6/1/2019	25
1080	BIGGERS BED AND BREAKFAST	3A	10/1/2019	25
1155	BLUE BELL CAFE	3A	5/1/2019	25
T0079	BLUE LADY RESORT	3A	9/1/2019	45
T1083	BRADY MOUNTAIN RESORT & MARINA	3A	5/1/2019	1000
T0120	CAMP KIA KIMA	3A	6/1/2019	500
T0120	CAMP KIA KIMA	3A	7/1/2019	500
T1080	CITGO FOOD MART	3A	12/1/2019	250
T1103	CLOUD 9 RV PARK	3A	6/1/2019	25
T1103	CLOUD 9 RV PARK	3A	7/1/2019	25
T1103	CLOUD 9 RV PARK	3A	8/1/2019	25
T0269	CORNER CAFÉ & DAIRY BAR	3A	10/1/2019	25
T0269	CORNER CAFÉ & DAIRY BAR	3A	12/1/2019	25
748	CRABAPPLE POINT WATER SYSTEM	3A	11/1/2019	25
T0215	FISH FIDDLE RESORT	3A	5/1/2019	25
989	FOODIE'S CAFÉ & CATERING	3A	1/1/2019	25
989	FOODIE'S CAFÉ & CATERING	3A	3/1/2019	25
989	FOODIE'S CAFÉ & CATERING	3A	6/1/2019	25
989	FOODIE'S CAFÉ & CATERING	3A	11/1/2019	25
1251	FOURCHE MOUNTAIN ADVENTURES	3A	9/1/2019	50
942	FRED BERRY CONSERVATION ED CTR	3A	11/1/2019	25
T0563	FREEDOM RV PARK	3A	3/1/2019	25
972	GENERAL WATER CONDITIONING	3A	10/1/2019	30
972	GENERAL WATER CONDITIONING	3A	11/1/2019	30
926	GIFT-TIQUES	3A	12/1/2019	25
T1085	HIDDEN VALLEY RV PARK	3A	10/1/2019	165
T0486	HIDE A WAY CAMPGROUND	3A	4/1/2019	25
1253	HILLBILLY SLIMS	3A	11/1/2019	25

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Appendix C - Microbiological Monitoring - No Valid Samples

945	HOT SPRINGS ORV PARK	3A	7/1/2019	80
T0294	KELLER'S COUNTRY DORM RESORT	3A	2/1/2019	50
T0294	KELLER'S COUNTRY DORM RESORT	3A	3/1/2019	50
T0294	KELLER'S COUNTRY DORM RESORT	3A	4/1/2019	50
T0295	KELLER'S KOVE RESORT	3A	5/1/2019	25
T0295	KELLER'S KOVE RESORT	3A	6/1/2019	25
T0295	KELLER'S KOVE RESORT	3A	7/1/2019	25
T0313	LAKE NORFORK INN	3A	2/1/2019	25
T0313	LAKE NORFORK INN	3A	6/1/2019	25
T1092	Lake Norfolk Ozark Mountain Lodge	3A	6/1/2019	25
N0073	MT VALLEY SPRING CO	3A	7/1/2019	25
1217	NIMOCK'S ICE MARIANNA	3A	6/1/2019	30
1217	NIMOCK'S ICE MARIANNA	3A	7/1/2019	30
957	NORFORK MARINA	3A	6/1/2019	25
T0406	OZARK REGULAR BAPTIST CAMP	3A	9/1/2019	25
T1016	OZARKS RV RESORT OWNERS	3A	9/1/2019	500
T1016	OZARKS RV RESORT OWNERS	3A	10/1/2019	500
T0439	PONCA BIBLE CAMP	3A	12/1/2019	25
1237	PRIMO GLACIER HF115 ELKINS	3A	3/1/2019	30
1238	PRIMO GLACIER HF122 CENTERTON	3A	3/1/2019	30
1236	PRIMO GLACIER OTW5 FAYETTEVILLE	3A	3/1/2019	60
1066	PRIMO HARPS124 FAYETTEVILLE	3A	3/1/2019	30
N0178	PRIMO SF HOLIDAY ISLAND	3A	3/1/2019	30
N0197	PRIMO WMNM 2471 BENTONVILLE	3A	3/1/2019	30
1182	PRIMO WMNM 4686 BENTONVILLE	3A	3/1/2019	80
1185	PRIMO WMNM6953 CENTERTON	3A	3/1/2019	80
N0158	PRIMO WMSC 0002 HARRISON	3A	3/1/2019	30
N0156	PRIMO WMSC0100 WAL-100	3A	3/1/2019	30
1186	PRIMO WNM6971 PEA RIDGE	3A	3/1/2019	30
T1054	RIVERLAKE OUTDOOR Center	3A	5/1/2019	25
T1054	RIVERLAKE OUTDOOR Center	3A	6/1/2019	25
T0468	RIVERVIEW RESORT	3A	1/1/2019	30
T0468	RIVERVIEW RESORT	3A	3/1/2019	30
T0468	RIVERVIEW RESORT	3A	7/1/2019	30
928	SADDLER FALLS RESORT	3A	6/1/2019	30
T0484	SANDRA D'S GROCERY & FUEL STOP	3A	8/1/2019	25
T0484	SANDRA D'S GROCERY & FUEL STOP	3A	11/1/2019	25
T1067	SHEPHERD OF THE OZARKS	3A	3/1/2019	25
958	SOUTHFORK RESORT	3A	11/1/2019	50
T0399	STATION ONE	3A	5/1/2019	50
T0399	STATION ONE	3A	7/1/2019	50
T0524	SUNRISE POINT RESORT	3A	5/1/2019	76
T0931	T & A SALOON & IRON HORSE STABLES	3A	4/1/2019	25
T0931	T & A SALOON & IRON HORSE STABLES	3A	8/1/2019	25

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Appendix C - Microbiological Monitoring - No Valid Samples

T0931	T & A SALOON & IRON HORSE STABLES	3A	9/1/2019	25
T0931	T & A SALOON & IRON HORSE STABLES	3A	10/1/2019	25
T0931	T & A SALOON & IRON HORSE STABLES	3A	11/1/2019	25
T0322	THE LANGLEY STORE	3A	10/1/2019	25
1244	TIGER ICE 1 CHARLESTON	3A	1/1/2019	30
1244	TIGER ICE 1 CHARLESTON	3A	10/1/2019	30
T0622	USCOE DG OZAN POINT	3A	5/1/2019	25
T1053	USCOE NF HOWARD COVE	3A	5/1/2019	100
T1053	USCOE NF HOWARD COVE	3A	6/1/2019	100
T0709	USCOE OC - BRADY MTN	3A	8/1/2019	100
T0766	USFS BAYOU BLUFF	3A	8/1/2019	25
949	WEST SHORE RESTAURANT	3A	1/1/2019	150
1249	WHILEYS COUNTRY STORE	3A	2/1/2019	25
T0852	WHITE RIVER CAMPGROUND	3A	3/1/2019	250
1190	YGAP GLENWOOD	3A	3/1/2019	30

PWS type: P

PWS	System Name	SDWIS Code	Violation Date	Retail population
T1065	GREENWICH CENTER	3A	2/1/2019	30
1243	HAPPY FEET LEARNING CENTER	3A	2/1/2019	42

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Appendix C

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

PWS type: C

PWS	System Name	SDWIS Code	Violation Date	Retail population
313	LEE COUNTY WATER ASSOCIATION	2A	7/1/2019	4813

Appendix E - Surface Water Treatment Rule Monitoring

PWS type: C

PWS	System Name	SDWIS Code	Violation Date	Retail population
109	MAGNOLIA WATERWORKS	36	1/1/2019	12000
109	MAGNOLIA WATERWORKS	36	1/1/2019	12000
109	MAGNOLIA WATERWORKS	36	2/1/2019	12000
109	MAGNOLIA WATERWORKS	36	2/1/2019	12000
109	MAGNOLIA WATERWORKS	36	3/1/2019	12000
109	MAGNOLIA WATERWORKS	36	4/1/2019	12000
109	MAGNOLIA WATERWORKS	36	7/1/2019	12000
413	PERRYVILLE WATERWORKS	36	1/1/2019	2976
882	SYLAMORE VALLEY WATER ASSN	36	6/1/2019	270

PWS type: N

PWS	System Name	SDWIS Code	Violation Date	Retail population
T0524	SUNRISE POINT RESORT	36	5/1/2019	76
T0829	THE INN AT LOST BRIDGE	36	5/1/2019	25
T0718	USCOE OC - LITTLE FIR	36	8/1/2019	100
T0852	WHITE RIVER CAMPGROUND	36	5/1/2019	250

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Appendix E

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

PWS type: C

PWS	System Name	SDWIS Code	Violation Date	Retail population
718	LURTON-PELSOR WATER ASSOC	41	6/30/2019	289
718	LURTON-PELSOR WATER ASSOC	41	7/31/2019	289

Appendix G - Chemical Maximum Contaminant Level Violation

PWS type: C

<i>PWS ID</i>	<i>System Name</i>	<i>SDWIS Code</i>	<i>Violation Definition</i>	<i>Violation Date</i>	<i>Retail population</i>
600	BELLEVILLE WATER	2950	Maximum Contaminant Level Violation for TTHM	1/1/2019	1103
600	BELLEVILLE WATER	2950	Maximum Contaminant Level Violation for TTHM	4/1/2019	1103
600	BELLEVILLE WATER	2950	Maximum Contaminant Level Violation for TTHM	7/1/2019	1103
600	BELLEVILLE WATER	2950	Maximum Contaminant Level Violation for TTHM	10/1/2019	1103
638	BLUE MOUNTAIN WATERWORKS	2950	Maximum Contaminant Level Violation for TTHM	10/1/2019	357
887	BODCAW RURAL WATER SYSTEM	2950	Maximum Contaminant Level Violation for TTHM	10/1/2019	1430
660	CASA WATER DEPT	2950	Maximum Contaminant Level Violation for TTHM	7/1/2019	1200
439	COVE WATERWORKS	2950	Maximum Contaminant Level Violation for TTHM	1/1/2019	651
439	COVE WATERWORKS	2950	Maximum Contaminant Level Violation for TTHM	1/1/2019	651
439	COVE WATERWORKS	2950	Maximum Contaminant Level Violation for TTHM	4/1/2019	651
439	COVE WATERWORKS	2950	Maximum Contaminant Level Violation for TTHM	4/1/2019	651
439	COVE WATERWORKS	2950	Maximum Contaminant Level Violation for TTHM	7/1/2019	651
439	COVE WATERWORKS	2950	Maximum Contaminant Level Violation for TTHM	7/1/2019	651
459	CROSS COUNTY RURAL WATER SYS	2950	Maximum Contaminant Level Violation for TTHM	10/1/2019	9276

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Appendix G - Chemical Maximum Contaminant Level Violation

190	DAMASCUS WATER WORKS	2950	Maximum Contaminant Level Violation for TTHM	10/1/2019	1695
190	DAMASCUS WATER WORKS	2950	Maximum Contaminant Level Violation for TTHM	10/1/2019	1695
715	EAST MONROE COUNTY WATER USERS	2950	Maximum Contaminant Level Violation for TTHM	4/1/2019	762
323	FOREMAN WATERWORKS	2456	Maximum Contaminant Level Violation for Total Haloacetic Acids (HAA5)	1/1/2019	1011
658	GILLHAM REGIONAL WATER DIST	2950	Maximum Contaminant Level Violation for TTHM	4/1/2019	3
658	GILLHAM REGIONAL WATER DIST	2950	Maximum Contaminant Level Violation for TTHM	9/1/2019	3
505	HACKETT WATERWORKS	2950	Maximum Contaminant Level Violation for TTHM	10/1/2019	990
436	HATFIELD WATERWORKS	2950	Maximum Contaminant Level Violation for TTHM	1/1/2019	410
436	HATFIELD WATERWORKS	2950	Maximum Contaminant Level Violation for TTHM	1/1/2019	410
436	HATFIELD WATERWORKS	2950	Maximum Contaminant Level Violation for TTHM	4/1/2019	410
436	HATFIELD WATERWORKS	2950	Maximum Contaminant Level Violation for TTHM	4/1/2019	410
436	HATFIELD WATERWORKS	2950	Maximum Contaminant Level Violation for TTHM	7/1/2019	410
230	HOPE WATER LIGHT COMM	2950	Maximum Contaminant Level Violation for TTHM	1/1/2019	11500
230	HOPE WATER LIGHT COMM	2950	Maximum Contaminant Level Violation for TTHM	4/1/2019	11500
209	HOT SPRINGS UTILITIES	2950	Maximum Contaminant Level Violation for TTHM	1/1/2019	92020

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Appendix G - Chemical Maximum Contaminant Level Violation

301	HOXIE WATER DEPARTMENT	2456	Maximum Contaminant Level Violation for Total Haloacetic Acids (HAA5)	4/1/2019	2678
508	HUNTINGTON WATERWORKS	2950	Maximum Contaminant Level Violation for TTHM	1/1/2019	620
508	HUNTINGTON WATERWORKS	2950	Maximum Contaminant Level Violation for TTHM	4/1/2019	620
513	JAMES FORK REGIONAL WATER	2950	Maximum Contaminant Level Violation for TTHM	10/1/2019	11148
640	JOHNSON TOWNSHIP WATER ASSOC	2950	Maximum Contaminant Level Violation for TTHM	1/1/2019	794
640	JOHNSON TOWNSHIP WATER ASSOC	2950	Maximum Contaminant Level Violation for TTHM	10/1/2019	794
822	LAKESIDE WATER ASSOCIATION	2950	Maximum Contaminant Level Violation for TTHM	1/1/2019	1876
822	LAKESIDE WATER ASSOCIATION	2456	Maximum Contaminant Level Violation for Total Haloacetic Acids (HAA5)	1/1/2019	1876
822	LAKESIDE WATER ASSOCIATION	2950	Maximum Contaminant Level Violation for TTHM	1/1/2019	1876
822	LAKESIDE WATER ASSOCIATION	2950	Maximum Contaminant Level Violation for TTHM	4/1/2019	1876
822	LAKESIDE WATER ASSOCIATION	2456	Maximum Contaminant Level Violation for Total Haloacetic Acids (HAA5)	4/1/2019	1876
822	LAKESIDE WATER ASSOCIATION	2950	Maximum Contaminant Level Violation for TTHM	4/1/2019	1876
822	LAKESIDE WATER ASSOCIATION	2456	Maximum Contaminant Level Violation for Total Haloacetic Acids (HAA5)	7/1/2019	1876
822	LAKESIDE WATER ASSOCIATION	2950	Maximum Contaminant Level Violation for TTHM	7/1/2019	1876
822	LAKESIDE WATER ASSOCIATION	2950	Maximum Contaminant Level Violation for TTHM	7/1/2019	1876

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Appendix G - Chemical Maximum Contaminant Level Violation

822	LAKESIDE WATER ASSOCIATION	2950	Maximum Contaminant Level Violation for TTHM	10/1/2019	1876
822	LAKESIDE WATER ASSOCIATION	2456	Maximum Contaminant Level Violation for Total Haloacetic Acids (HAA5)	10/1/2019	1876
313	LEE COUNTY WATER ASSOCIATION	2950	Maximum Contaminant Level Violation for TTHM	1/1/2019	4813
313	LEE COUNTY WATER ASSOCIATION	2950	Maximum Contaminant Level Violation for TTHM	1/1/2019	4813
313	LEE COUNTY WATER ASSOCIATION	2950	Maximum Contaminant Level Violation for TTHM	4/1/2019	4813
313	LEE COUNTY WATER ASSOCIATION	2950	Maximum Contaminant Level Violation for TTHM	4/1/2019	4813
313	LEE COUNTY WATER ASSOCIATION	2950	Maximum Contaminant Level Violation for TTHM	7/1/2019	4813
313	LEE COUNTY WATER ASSOCIATION	2950	Maximum Contaminant Level Violation for TTHM	7/1/2019	4813
313	LEE COUNTY WATER ASSOCIATION	2950	Maximum Contaminant Level Violation for TTHM	10/1/2019	4813
313	LEE COUNTY WATER ASSOCIATION	2950	Maximum Contaminant Level Violation for TTHM	10/1/2019	4813
787	LITTLE RIVER CO RDA	2456	Maximum Contaminant Level Violation for Total Haloacetic Acids (HAA5)	1/1/2019	4279
787	LITTLE RIVER CO RDA	2456	Maximum Contaminant Level Violation for Total Haloacetic Acids (HAA5)	1/1/2019	4279
787	LITTLE RIVER CO RDA	2456	Maximum Contaminant Level Violation for Total Haloacetic Acids (HAA5)	4/1/2019	4279
787	LITTLE RIVER CO RDA	2456	Maximum Contaminant Level Violation for Total Haloacetic Acids (HAA5)	7/1/2019	4279
109	MAGNOLIA WATERWORKS	2950	Maximum Contaminant Level Violation for TTHM	1/1/2019	12000

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Appendix G - Chemical Maximum Contaminant Level Violation

109	MAGNOLIA WATERWORKS	2456	Maximum Contaminant Level Violation for Total Haloacetic Acids (HAA5)	1/1/2019	12000
773	MILLTOWN-WASHBURN WATER USERS	2950	Maximum Contaminant Level Violation for TTHM	1/1/2019	3807
773	MILLTOWN-WASHBURN WATER USERS	2950	Maximum Contaminant Level Violation for TTHM	1/1/2019	3807
773	MILLTOWN-WASHBURN WATER USERS	2950	Maximum Contaminant Level Violation for TTHM	4/1/2019	3807
773	MILLTOWN-WASHBURN WATER USERS	2950	Maximum Contaminant Level Violation for TTHM	4/1/2019	3807
773	MILLTOWN-WASHBURN WATER USERS	2950	Maximum Contaminant Level Violation for TTHM	7/1/2019	3807
773	MILLTOWN-WASHBURN WATER USERS	2950	Maximum Contaminant Level Violation for TTHM	10/1/2019	3807
773	MILLTOWN-WASHBURN WATER USERS	2950	Maximum Contaminant Level Violation for TTHM	10/1/2019	3807
951	MONTGOMERY CO REGIONAL PWA	2950	Maximum Contaminant Level Violation for TTHM	1/1/2019	0
951	MONTGOMERY CO REGIONAL PWA	2950	Maximum Contaminant Level Violation for TTHM	7/1/2019	0
951	MONTGOMERY CO REGIONAL PWA	2950	Maximum Contaminant Level Violation for TTHM	10/1/2019	0
951	MONTGOMERY CO REGIONAL PWA	2950	Maximum Contaminant Level Violation for TTHM	10/1/2019	0
314	MORO WATERWORKS	2950	Maximum Contaminant Level Violation for TTHM	1/1/2019	180
314	MORO WATERWORKS	2950	Maximum Contaminant Level Violation for TTHM	1/1/2019	180
314	MORO WATERWORKS	2950	Maximum Contaminant Level Violation for TTHM	4/1/2019	180

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Appendix G - Chemical Maximum Contaminant Level Violation

314	MORO WATERWORKS	2950	Maximum Contaminant Level Violation for TTHM	4/1/2019	180
314	MORO WATERWORKS	2950	Maximum Contaminant Level Violation for TTHM	7/1/2019	180
314	MORO WATERWORKS	2950	Maximum Contaminant Level Violation for TTHM	7/1/2019	180
314	MORO WATERWORKS	2950	Maximum Contaminant Level Violation for TTHM	10/1/2019	180
314	MORO WATERWORKS	2950	Maximum Contaminant Level Violation for TTHM	10/1/2019	180
392	MOUNT IDA WATERWORKS	2950	Maximum Contaminant Level Violation for TTHM	1/1/2019	3218
392	MOUNT IDA WATERWORKS	2950	Maximum Contaminant Level Violation for TTHM	4/1/2019	3218
392	MOUNT IDA WATERWORKS	2950	Maximum Contaminant Level Violation for TTHM	7/1/2019	3218
392	MOUNT IDA WATERWORKS	2950	Maximum Contaminant Level Violation for TTHM	7/1/2019	3218
392	MOUNT IDA WATERWORKS	2950	Maximum Contaminant Level Violation for TTHM	10/1/2019	3218
392	MOUNT IDA WATERWORKS	2950	Maximum Contaminant Level Violation for TTHM	10/1/2019	3218
805	NASHVILLE RURAL WATER AUTHORITY	2950	Maximum Contaminant Level Violation for TTHM	1/1/2019	7291
805	NASHVILLE RURAL WATER AUTHORITY	2950	Maximum Contaminant Level Violation for TTHM	1/1/2019	7291
805	NASHVILLE RURAL WATER AUTHORITY	2950	Maximum Contaminant Level Violation for TTHM	4/1/2019	7291
805	NASHVILLE RURAL WATER AUTHORITY	2950	Maximum Contaminant Level Violation for TTHM	4/1/2019	7291

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Appendix G - Chemical Maximum Contaminant Level Violation

805	NASHVILLE RURAL WATER AUTHORITY	2950	Maximum Contaminant Level Violation for TTHM	7/1/2019	7291
805	NASHVILLE RURAL WATER AUTHORITY	2950	Maximum Contaminant Level Violation for TTHM	7/1/2019	7291
805	NASHVILLE RURAL WATER AUTHORITY	2950	Maximum Contaminant Level Violation for TTHM	10/1/2019	7291
805	NASHVILLE RURAL WATER AUTHORITY	2950	Maximum Contaminant Level Violation for TTHM	10/1/2019	7291
557	NEW LONDON WATER ASSOCIATION	2950	Maximum Contaminant Level Violation for TTHM	1/1/2019	802
557	NEW LONDON WATER ASSOCIATION	2950	Maximum Contaminant Level Violation for TTHM	1/1/2019	802
557	NEW LONDON WATER ASSOCIATION	2950	Maximum Contaminant Level Violation for TTHM	4/1/2019	802
557	NEW LONDON WATER ASSOCIATION	2950	Maximum Contaminant Level Violation for TTHM	4/1/2019	802
557	NEW LONDON WATER ASSOCIATION	2950	Maximum Contaminant Level Violation for TTHM	7/1/2019	802
557	NEW LONDON WATER ASSOCIATION	2950	Maximum Contaminant Level Violation for TTHM	10/1/2019	802
557	NEW LONDON WATER ASSOCIATION	2950	Maximum Contaminant Level Violation for TTHM	10/1/2019	802
1075	NORTH HOWARD RURAL WATER ASSOCIATION	2456	Maximum Contaminant Level Violation for Total Haloacetic Acids (HAA5)	1/1/2019	710
616	ODEN- PENCIL BLUFF WATER ASSN.	2950	Maximum Contaminant Level Violation for TTHM	1/1/2019	383
616	ODEN- PENCIL BLUFF WATER ASSN.	2950	Maximum Contaminant Level Violation for TTHM	7/1/2019	383
616	ODEN- PENCIL BLUFF WATER ASSN.	2950	Maximum Contaminant Level Violation for TTHM	10/1/2019	383

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Appendix G - Chemical Maximum Contaminant Level Violation

753	OLD BELLA VISTA POA	2950	Maximum Contaminant Level Violation for TTHM	1/1/2019	105
559	OLD UNION WATER ASSOCIATION	2950	Maximum Contaminant Level Violation for TTHM	1/1/2019	1200
305	PORTIA WATERWORKS	2456	Maximum Contaminant Level Violation for Total Haloacetic Acids (HAA5)	4/1/2019	437
040	RAMBO WATER DISTRICT #1	1024	Maximum Contaminant Level Violation for Cyanide	1/1/2019	93
040	RAMBO WATER DISTRICT #1	1024	Maximum Contaminant Level Violation for Cyanide	4/1/2019	93
040	RAMBO WATER DISTRICT #1	1024	Maximum Contaminant Level Violation for Cyanide	7/1/2019	93
040	RAMBO WATER DISTRICT #1	1024	Maximum Contaminant Level Violation for Cyanide	10/1/2019	93
239	RIVIERA UTILITIES	2950	Maximum Contaminant Level Violation for TTHM	1/1/2019	1800
851	SOUTH LOGAN COUNTY WATER	2950	Maximum Contaminant Level Violation for TTHM	7/1/2019	1783
978	SOUTH PIKE CO. WATER	2950	Maximum Contaminant Level Violation for TTHM	1/1/2019	755
978	SOUTH PIKE CO. WATER	2950	Maximum Contaminant Level Violation for TTHM	4/1/2019	755
978	SOUTH PIKE CO. WATER	2950	Maximum Contaminant Level Violation for TTHM	10/1/2019	755
889	SOUTHWEST ARKANSAS WATER SYST	2950	Maximum Contaminant Level Violation for TTHM	1/1/2019	1698
889	SOUTHWEST ARKANSAS WATER SYST	2950	Maximum Contaminant Level Violation for TTHM	1/1/2019	1698
889	SOUTHWEST ARKANSAS WATER SYST	2950	Maximum Contaminant Level Violation for TTHM	4/1/2019	1698

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Appendix G - Chemical Maximum Contaminant Level Violation

889	SOUTHWEST ARKANSAS WATER SYST	2950	Maximum Contaminant Level Violation for TTHM	7/1/2019	1698
889	SOUTHWEST ARKANSAS WATER SYST	2950	Maximum Contaminant Level Violation for TTHM	10/1/2019	1698
135	SUBIACO CITY WATERWORKS	2950	Maximum Contaminant Level Violation for TTHM	10/1/2019	535
135	SUBIACO CITY WATERWORKS	2950	Maximum Contaminant Level Violation for TTHM	10/1/2019	535
566	TONTITOWN WATERWORKS	2950	Maximum Contaminant Level Violation for TTHM	10/1/2019	3740
654	UNITED WATER ASSOCIATION	2950	Maximum Contaminant Level Violation for TTHM	1/1/2019	461
654	UNITED WATER ASSOCIATION	2950	Maximum Contaminant Level Violation for TTHM	4/1/2019	461
654	UNITED WATER ASSOCIATION	2950	Maximum Contaminant Level Violation for TTHM	4/1/2019	461
309	WALNUT RIDGE WATERWORKS	2456	Maximum Contaminant Level Violation for Total Haloacetic Acids (HAA5)	10/1/2019	5234
574	WASHINGTON WATER AUTHORITY WWA	2950	Maximum Contaminant Level Violation for TTHM	1/1/2019	16750
440	WICKES WATERWORKS	2456	Maximum Contaminant Level Violation for Total Haloacetic Acids (HAA5)	1/1/2019	1303
021	WILMOT WATERWORKS	2950	Maximum Contaminant Level Violation for TTHM	10/1/2019	550
642	WINTHROP WATER ASSOCIATION	2456	Maximum Contaminant Level Violation for Total Haloacetic Acids (HAA5)	1/1/2019	338
642	WINTHROP WATER ASSOCIATION	2456	Maximum Contaminant Level Violation for Total Haloacetic Acids (HAA5)	1/1/2019	338
642	WINTHROP WATER ASSOCIATION	2456	Maximum Contaminant Level Violation for Total Haloacetic Acids (HAA5)	4/1/2019	338

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Appendix G - Chemical Maximum Contaminant Level Violation

642	WINTHROP WATER ASSOCIATION	2456	Maximum Contaminant Level Violation for Total Haloacetic Acids (HAA5)	4/1/2019	338
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PWS type: P

PWS ID	System Name	SDWIS Code	Violation Definition	Violation Date	Retail population
N0241	HUTCHINSON REALTY	1024	Maximum Contaminant Level Violation for Cyanide	4/1/2019	28
N0241	HUTCHINSON REALTY	1024	Maximum Contaminant Level Violation for Cyanide	7/1/2019	28
932	MOUNTAIN DEVELOPMENT	1024	Maximum Contaminant Level Violation for Cyanide	1/1/2019	50

Appendix H - Radium Maximum Contaminant Level Violation

PWS type: C

PWS	System Name	SDWIS Code	Violation Date	Retail population
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No Violations in 2019

Appendix I - Lead & Copper Rule Monitoring & Treatment Technique

PWS type: C

PWS ID	System Name	SDWIS Code	Violation Definition	Violation Date	Retail
324	145TH STREET WATER SEWER	52	Follow-up and Routine Tap Sampling	12/31/2004	461
377	BASSETT WATERWORKS	52	Follow-up and Routine Tap Sampling	10/1/2011	143
1178	BAXTER-MARION REGIONAL WATER ASSOCIATION	52	Follow-up and Routine Tap Sampling	1/1/2016	360
777	BRUSHY ISLAND WATER AUTHORITY	52	Follow-up and Routine Tap Sampling	11/25/2003	789
596	COTTON PLANT WATERWORKS	52	Follow-up and Routine Tap Sampling	10/1/2011	435
1091	LEATHERWOOD VIEW ESTATES	51	Initial Tap Sampling for Pb and Cu	7/1/2012	40
421	MARVELL WATERWORKS	52	Follow-up and Routine Tap Sampling	7/1/2016	1005
421	MARVELL WATERWORKS	58	OCCT Installation/Demonstration	4/1/2018	1005
229	MC CASKILL WATERWORKS	52	Follow-up and Routine Tap Sampling	12/31/2002	100
042	MOCKINGBIRD HILL WATER ASSOC	51	Initial Tap Sampling for Pb and Cu	1/1/2019	756
113	PINE REST MOBILE HOME PARK	52	Follow-up and Routine Tap Sampling	1/1/2007	53
776	RIDGEFIELD ESTATES	52	Follow-up and Routine Tap Sampling	10/1/2014	150

Appendix I - Lead & Copper Rule Monitoring & Treatment Technique

892	RIVERWALK APARTMENTS	51	Initial Tap Sampling for Pb and Cu	2/28/2005	350
806	WIEDERKEHR VILLAGE WATER DEPT	52	Follow-up and Routine Tap Sampling	1/1/2010	77
806	WIEDERKEHR VILLAGE WATER DEPT	52	Follow-up and Routine Tap Sampling	7/1/2010	77
806	WIEDERKEHR VILLAGE WATER DEPT	52	Follow-up and Routine Tap Sampling	7/1/2011	77

PWS type: P

PWS ID	System Name	SDWIS Code	Violation Definition	Violation Date	Retail
N0020	EL DORADO CHEMICAL COMPANY	52	Follow-up and Routine Tap Sampling	1/1/2008	150
N0024	FOURCHE VALLEY SCHOOL	52	Follow-up and Routine Tap Sampling	11/25/2003	185
N0043	HOWARD COUNTY CHRISTIAN SCHOOL	52	Follow-up and Routine Tap Sampling	12/31/2000	200
N0130	JOYFUL NOISE	52	Follow-up and Routine Tap Sampling	12/31/2002	50
N0047	OAK RIDGE CENTRAL SCHOOL	52	Follow-up and Routine Tap Sampling	2/25/2001	250
N0236	SALINE COUNTY CAREER CENTER	51	Initial Tap Sampling for Pb and Cu	11/25/2003	200
N0236	SALINE COUNTY CAREER CENTER	51	Initial Tap Sampling for Pb and Cu	8/25/2004	200

Appendix J - No Violations for This Calendar Year

PWS ID	System Name	Retail population served
PWS type: PWS type: C		
811	ACORN RURAL WATER ASSN	1975
315	ADC - CUMMINS UNIT MAINT	3800
303	ALICIA WATER SYSTEM	124
144	ALMA WATERWORKS	5978
058	ALPENA WATERWORKS	550
764	ALPINE WATER ASSOCIATION	780
424	ANTOINE WATERWORKS	563
085	ARKADELPHIA WATERWORKS	10548
667	ARSENAL WATER SYSTEM	2577
527	ASH FLAT WATER COMPANY	1082
320	ASHDOWN WATERWORKS	4723
441	ATKINS WATER SYSTEM	4439
346	AUSTIN WATERWORKS	2585
890	AUTUMN ACRES MHP	88
584	BALD KNOB WATERWORKS	2905
785	BARKADA WATER ASSOCIATION	381
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	108
462	BEE BRANCH WATER	3135
592	BEEBE WATERWORKS	8120
262	BEEDEVILLE WATER WORKS	112
039	BELLA VISTA P.O.A.	27128
059	BELLEFONTE WATER	468
037	BENTON CO WATER	5743
899	BENTON COUNTY WATER AUTHORITY4	555
913	BENTON COUNTY WATER AUTHORITY5	1468
484	BENTON WATERWORKS	30681
041	BENTONVILLE WATER UTILITIES	42343
871	BENTON-WASHINGTON REGIONAL PWA	19
060	BERGMAN WATERWORKS	2945
074	BERRYVILLE WATERWORKS	6025
627	BETHESDA WATER ASSOCIATION	1302
799	BIG CLIFTY WATER	170
026	BIG FLAT WATERWORKS	523
411	BIGELOW WATERWORKS	544

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Appendix J - No Violations for This Calendar Year

PWS ID	System Name	Retail population served
476	BIGGERS WATERWORKS	404
448	BISCOE WATERWORKS	440
233	BLEVINS WATERWORKS	335
979	Bonanza Waterworks	575
126	BONO WATERWORKS	2014
336	BOONEVILLE DEVELOPMENT CENTER	275
326	BOONEVILLE WATERWORKS	4108
179	BOWSER WATER ASSN	580
587	BRADFORD WATERWORKS	950
054	BRADLEY CO RURAL WATER ASSN	1438
294	BRADLEY WATERWORKS	567
024	BRIARCLIFF WATERWORKS	313
384	BRINKLEY WATERWORKS	3940
131	BROOKLAND WATERWORKS	2797
837	BRUNNER HILL WATER ASSOC	1150
486	BRYANT WATERWORKS	19607
295	BUCKNER WATERWORKS	290
671	BUFFALO ISLAND REG WATER DIST	3429
352	BULL SHOALS WATER SYSTEM	2723
366	BURDETTE WATERWORKS	606
338	CABOT WATERWORKS	23776
515	CADDO VALLEY WATERWORKS	635
532	CALDWELL WATER	1585
003	CALICO ROCK WATERWORKS	1726
404	CAMDEN WATERWORKS	13275
877	CAMP ROBINSON	1500
127	CARAWAY WATERWORKS	1375
339	CARLISLE WATERWORKS	2214
675	CARROLL-BOONE WATER DISTRICT	30
165	CARTHAGE WATER AND SEWER	345
130	CASH WATERWORKS	359
526	CAVE CITY WATERWORKS	2484
138	CEDARVILLE WATERWORKS	8423
213	CENTER GROVE WATER ASSOCIATION	4377
044	CENTERTON WATERWORKS	16380
465	CENTRAL ARKANSAS WATER	330667
503	CENTRAL CITY WATER DEPARTMENT	1218
845	CENTRAL LOGAN COUNTY PWFB	1268
200	CHARLESTON WATERWORKS	3265
521	CHEROKEE VILLAGE WATER ASSOC	4717

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Appendix J - No Violations for This Calendar Year

PWS ID	System Name	Retail population served
158	CHERRY VALLEY WATERWORKS	651
661	CHICOT JUNCTION WATER ASSOC	681
446	CITY CORPORATION	29260
741	CLARK CO COUNTRY WATER FACILIT	2450
722	CLAY CO REG WATER DISTRICT	5515
069	CLEVELAND CO RURAL WATER USERS ASSOC	1637
564	CLINTON WATERWORKS	5733
290	COAL HILL WATERWORKS	1300
181	COLLINS WATER ASSOCIATION	269
533	COLT WATER ASSOCIATION	853
101	COMMUNITY WATER SYSTEM	17038
669	COMPTON WATERWORKS	811
119	CONWAY CO REGIONAL WATER DIST	18973
189	CONWAY WATER SYSTEM	64960
927	CORINTH VALLEY WATER SYSTEM	84
096	CORNING WATERWORKS	3650
028	COTTER WATERWORKS	980
149	CRAWFORDSVILLE WATERWORKS	1646
873	CRESTWOOD MOBILE HOME PARK	34
017	CROSSETT WATER COMMISSION	8038
180	CROWLEYS RIDGE WATER ASSOC	3695
249	CUSHMAN WATER SYSTEM	1240
601	DARDANELLE WATERWORKS	4228
052	DECATUR WATERWORKS	2383
224	DELAPLAINE WATERWORKS	116
423	DELIGHT WATERWORKS	1577
367	DELL WATERWORKS	1077
450	DEVALLS BLUFF WATERWORKS	600
008	DEWITT WATERWORKS	3294
269	DIAZ WATERWORKS	1088
243	DIERKS WATER WORKS	1400
585	DOGWOOD WATER ASSOCIATION	1345
714	DORCHEAT WATER ASSOCIATION	1860
698	Dota Public Water Authority	2662
444	DOVER WATERWORKS	1410
171	DUMAS WATERWORKS	4289
143	DYER WATERWORKS	1010
730	DYESS RURAL WATER	324
376	DYESS WATERWORKS	430
886	E CASS WATER SUPPLY CORP	150

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Appendix J - No Violations for This Calendar Year

PWS ID	System Name	Retail population served
646	EAST END WATER	5800
772	EAST JOHNSON CO WATER ASSN	4210
809	EAST LOGAN CO RURAL WATER	2008
768	EAST NEWTON COUNTY WATER ASSN	1815
458	EAST PRAIRIE CNTY PUBLIC WATER AUTHORITY	700
539	EASTSIDE HOMEOWNERS ASSOC	201
350	EDGEWOOD BAY WATER	279
550	EL DORADO WATERWORKS	17932
567	ELKINS WATERWORKS	3473
393	EMMET WATERWORKS	550
341	ENGLAND WATERWORKS	2823
183	ENON WATER ASSOCIATION	488
083	EUDORA WATERWORKS	2380
075	EUREKA SPRINGS WATERWORKS	4125
544	FAIRCREST WATER ASSOCIATION	1244
569	FAYETTEVILLE WATERWORKS	102878
514	FCMTC WATERWORKS	500
545	FELSENTHAL WATER AND SEWER	150
046	FIFTY SIX WATERWORKS	595
351	FLIPPIN WATERWORKS	3625
635	FORDYCE RURAL WATER ASSOC	1320
164	FORDYCE WATER CO	4300
004	FORREST CITY WATERWORKS	15435
507	FORT SMITH WATER UTILITIES	86209
586	FOUR MILE HILL WATER ASSOC	4603
257	FRANKLIN WATERWORKS	192
1077	FRANKLIN-SEBASTIAN PWA	0
812	FREEDOM WATER ASSOCIATION	1858
814	FULTON COUNTY WATER ASSOC	2152
645	FURLOW WATER ASSOCIATION	2905
047	GARFIELD WATERWORKS	640
692	GARRETT BRIDGE WATER ASSOC	702
693	GATEWAY PUBLIC WATER AUTHORITY	1890
048	GENTRY WATERWORKS	5385
699	GENTRYVILLE PUBLIC WATER AUTH	402
009	GILLETT WATER DEPT	681
516	GILLHAM WATERWORKS	328
857	GLEN ACRES	68
374	GOSNELL WATER ASSOCIATION	3220
317	GRADY WATERWORKS	377

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Appendix J - No Violations for This Calendar Year

PWS ID	System Name	Retail population served
734	GRAND PRAIRIE BAYOU 2 PWA	11150
738	GRAND PRAIRIE REGIONAL WATER	13500
437	GRANNIS WATERWORKS	548
T1101	GRASSY KNOB SUBORDINATE SD	65
051	GRAVETTE WATERWORKS	4035
076	GRAY ROCK WATER ASSOCIATION	738
696	GREASY VALLEY WPFB LOGAN CO.	520
077	GREEN FOREST WATERWORKS	5752
191	GREENBRIER WATERWORKS	7893
504	GREENWOOD WATERWORKS	8952
267	GRUBBS WATERWORKS	409
626	GUION WATER DEPARTMENT	262
087	GURDON WATERWORKS	3245
192	GUY WATERWORKS	1692
070	HAMPTON WATERWORKS	1327
273	HARDIN WATER ASSOCIATION	4600
524	HARDY WATERWORKS	1123
546	HARMONY WATER ASSOCIATION	336
071	HARRELL WATERWORKS	296
431	HARRISBURG WATERWORKS	2885
062	HARRISON WATERWORKS	17135
506	HARTFORD WATERWORKS	665
286	HARTMAN WATERWORKS	1230
488	HASKELL WATER SYSTEM	3990
602	HAVANA WATERWORKS	1115
452	HAZEN WATERWORKS	1338
104	HEBER SPRINGS WATER SYSTEM	11150
419	HELENA WATER SEWER	5500
067	HERMITAGE WATERWORKS	851
159	HICKORY RIDGE WATERWORKS	280
672	Highland Public Water Authority	1825
617	HORSEHEAD WATER ASSOCIATION	4940
255	HORSESHOE BEND WATERWORKS	2178
151	Horseshoe Lake Utilities	726
236	HOT SPRING CO WATER ASSOC	3395
208	HOT SPRINGS VILLAGE WATER	14046
531	HUGHES WATERWORKS	827
348	HUNTSVILLE WATERWORKS	2485
553	HUTTIG WATERWORKS	733
765	HWY 4 24 WATER ASSOCIATION	2165

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Appendix J - No Violations for This Calendar Year

PWS ID	System Name	Retail population served
107	HWY 63 WATER ASSOCIATION	7185
145	HWY 71 WATER DISTRICT #1 PWA	6250
702	HWY 9 WATER ASSOCIATION	1285
300	IMBODEN WATERWORKS	675
774	INDEPENDENCE JACKSON REGIONAL	2996
466	JACKSONVILLE WATERWORKS	30481
397	JASPER WATERWORKS	766
276	JEFFERSON-SAMPLES-DEXTER WATER	2552
372	JOINER WATERWORKS	508
124	JONESBORO WATER SYSTEM	79864
582	JUDSONIA WATERWORKS	3028
552	JUNCTION CITY WATERWORKS	726
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 CREEK WATER ASSN	2153
684	LACEY-LADELLE WATER ASSOCIATIO	1492
277	LADD WATER ASSOCIATION	2195
483	LAFE REGIONAL WATER DISTRIBUTION DISTRICT	2522
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
027	LAKEVIEW MIDWAY PUBLIC WATER AUTHORITY	3012
510	LAVACA WATERWORKS	3550
688	LAWRENCE CO REG WATER DIST	7469
548	LAWSON-URBANA WATER ASSOC	1108
362	LEACHVILLE WATERWORKS	1989
063	LEAD HILL WATERWORKS	428
500	LESLIE WATER SYSTEM	740
297	LEWISVILLE WATERWORKS	1951
471	LIBERTY - WOODSON / HENSLEY	1000
272	LIBERTY UTILITIES	44730
572	LINCOLN WATERWORKS	6250
716	LISBON WATER ASSOCIATION	487

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Appendix J - No Violations for This Calendar Year

PWS ID	System Name	Retail population served
467	LITTLE RIVER COUNTRY CLUB	120
371	LITTLE RIVER WATER ASSOCIATION	829
912	LOCKE-FERN DOLLARD RD WW PFB	1135
102	LOCUST BAYOU WATER ASSOCIATION	535
274	LONG LAKE WATER ASSOCIATION	516
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	685
803	MADISON CO REGIONAL WATER	3
349	MADISON CO WATER FACILITIES BD	9688
241	MAGNET-BUTTERFIELD WATER AUTHORITY	1838
237	MALVERN WATERWORKS	10318
206	MAMMOTH SPRING WATERWORKS	997
509	MANSFIELD WATERWORKS	2348
310	MARIANNA WATERWORKS	3795
382	MARIE WATER SYSTEM	135
770	MARION COUNTY REG WATER DIST	0
152	MARION WATERWORKS	12345
430	MARKED TREE WATERWORKS	2566
225	MARMADUKE WATERWORKS	1111
501	MARSHALL WATERWORKS	2410
001	MARYSVILLE WATER ASSOCIATION	729
464	MAUMELLE WATER CORPORATION	2832
193	MAYFLOWER WATERWORKS	7578
599	MC CRORY WATERWORKS	1747
098	MC DOUGAL WATERWORKS	248
705	MC NEIL RURAL WATER ASSOC	900
110	MC NEIL WATERWORKS	515
256	MELBOURNE WATERWORKS	3600
438	MENA WATER DEPT	7784
118	MENIFEE WATER DEPARTMENT	445
725	Mid-Arkansas Utilities PWA	11148
153	MIDWAY WATER ASSOCIATION	1992
786	MILL POND VILLAGE MHP	160
1141	MILLER COUNTY PUBLIC WATER AUTHORITY	680
242	MINERAL SPRINGS WATERWORKS	1245
169	MITCHELLVILLE WATERWORKS	360

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Appendix J - No Violations for This Calendar Year

PWS ID	System Name	Retail population served
128	MONETTE WATERWORKS	1306
709	MORRISON BLUFF WATER SYSTEM	325
002	MOUNT HOLLY WATERWORKS	384
668	MOUNT OLIVE WATER ASSOCIATION	6858
025	MOUNTAIN HOME WATERWORKS	16333
454	MOUNTAIN TOP WATER ASSOCIATION	8700
542	MOUNTAIN VIEW WATERWORKS	6924
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
244	NASHVILLE WATERWORKS	4627
1070	NEAPWA	2
264	NEWPORT WATERWORKS	6468
035	NORFORK WATERWORKS	1503
554	NORPHLET WATERWORKS	1228
331	NORTH CARBON CITY WATER ASSOC	113
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
007	NORTHEAST DEWITT WATER ASSOC	662
146	OAK GROVE WATER ASSOCIATION	2773
558	OAK MANOR WATER ASSOCIATION	339
676	OAKHILLS SURB IMPROVMENT DIST	130
247	OIL TROUGH WATERWORKS	284
473	O'KEAN WATERWORKS	207
120	OPPELO WATER DEPARTMENT	1300
375	OSCEOLA WATERWORKS	7398
802	OUTSIDE KINGSLAND WATER ASSOC	450
259	OXFORD WATERWORKS	1074
1078	OZAN CREEK RURAL WATER SYSTEM	787
227	OZAN WATERWORKS	425
530	OZARK ACRES WATER ASSOCIATION	819
998	Ozark Mtn Regional PWA	0
201	OZARK WATERWORKS	4325
222	PARAGOULD, LIGHT, WATER, & CABLE	25261

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Appendix J - No Violations for This Calendar Year

PWS ID	System Name	Retail population served
328	PARIS WATERWORKS	4935
019	PARKDALE WATERWORKS	288
560	PARKERS CHAPEL PUBLIC WATER	2369
662	PARKIN RURAL WATER ASSOCIATION	406
883	PARON-OWENSVILLE WATER AUTH	2071
736	PARTHENON WATER ASSOCIATION	400
598	PATTERSON WATERWORKS	452
053	PEA RIDGE WATERWORKS	7273
623	PERLA WATER ASSOCIATION	1900
412	PERRY WATER SYSTEM	658
251	PFEIFFER WATER AUTHORITY	3167
1240	PINE TOP WATER FACILITIES BOARD	25
720	PLEASANT GROVE	2315
121	PLUMERVILLE WATERWORKS	826
474	POCAHONTAS WATERWORKS	7830
092	POLLARD WATERWORKS	287
217	POYEN WATERWORKS	755
573	PRAIRIE GROVE WATERWORKS	6303
216	PRATTSVILLE WATERWORKS	1282
394	PRESCOTT WATERWORKS	3300
561	QUINN WATER ASSOCIATION	751
329	RATCLIFF WATERWORKS	1395
477	RAVENDEN SPRINGS WATERWORKS	143
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
252	Rock Moore Water Authority	792
389	ROE WATERWORKS	124
055	ROGERS WATER UTILITIES	70878
395	ROSSTON WATER DEPARTMENT	750
591	RUSSELL WATERWORKS	338
492	SALEM WATER ASSOCIATION	15713
204	SALEM WATERWORKS	1639
493	SARDIS WATER ASSOCIATION	13752

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Appendix J

Appendix J - No Violations for This Calendar Year

PWS ID	System Name	Retail population served
870	SE BRADLEY CO WATER ASSN	2665
594	SE WHITE COUNTY WATER ASSOC	4992
590	SEARCY WATERWORKS	23650
511	SEBASTIAN LAKE UTILITY OPERATING COMPANY	258
304	SEDGWICK WATERWORKS	210
868	SEVIER CO WATER ASSOCIATION	4618
800	SHANNON HILLS WATER DEPT	3443
215	SHERIDAN WATERWORKS	3136
407	SHUMAKER PUBLIC SERVICE CO	1413
056	SILOAM SPRINGS WATERWORKS	18048
555	SMACKOVER WATERWORKS	2821
219	SOUTH SHERIDAN WATER ASSOC	3491
792	SOUTHERN HILLS WATER SYSTEM	45
254	SOUTHSIDE PUB WATER AUTHORITY	8848
495	SOUTHWEST WATER ASSOCIATION	7140
166	SPARKMAN WATERWORKS	1178
575	SPRINGDALE WATER UTILITIES	90235
836	ST FRANCIS RIVER REG WATER DD	2501
537	ST FRANCIS RURAL WATER ASSOC	1775
094	ST FRANCIS WATER SYSTEM	263
296	STAMPS WATERWORKS	2267
318	STAR CITY WATER WATERWORKS	2695
755	STARLIGHT ESTATES	44
307	STRAWBERRY WATERWORKS	954
556	STRONG WATERWORKS	1195
355	SUMMIT WATERWORKS	604
628	SW BOONE COUNTY WATER ASSOC	4178
852	SW WARREN WATER ASSOCIATION	746
185	SW WHITE COUNTY WATER ASSN	10917
045	SYLVAN SHORES SD WATERWORKS	85
891	TALL OAKS MHP	17
895	TANKSLEY APARTMENTS	52
114	TAYLOR WATERWORKS	566
360	TEXARKANA WATER UTILITIES	30015
072	THORNTON WATERWORKS	671
186	TILLAR WATERWORKS	225
618	TOLLETTE WATER	346
846	TRI COUNTY RWDD -MOORES CHAPEL	2620
782	TRI-COUNTY WATER DISTBR DIST	16671
435	TRUMANN WATERWORKS	7968

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Appendix J

Appendix J - No Violations for This Calendar Year

PWS ID	System Name	Retail population served
266	TUCKERMAN WATERWORKS	1817
825	TULIP - PRINCETON WATER ASSN	1092
220	TULL WATER	1987
579	TUMBLING SHOALS WATER ASSOC	4890
426	TYRONZA WATERWORKS	826
690	US AIR FORCE BASE LITTLE ROCK	8618
065	VALLEY SPRINGS WATERWORKS	3168
727	VAN BUREN COUNTY W U A	3062
142	VAN BUREN WATERWORKS	22725
162	VANNDALE-BIRDEYE WATER ASSOC	2389
380	VICTORIA WATER ASSOCIATION	35
115	VILLAGE WATER ASSOCIATION	417
195	VILONIA WATERWORKS	22730
205	VIOLA WATERWORKS	363
460	WALDENBURG WATER ASSOCIATION	181
112	WALDO WATERWORKS	1785
498	WALDRON WATERWORKS	2955
858	WALKER CREEK STATELINE RWA	1335
116	WALKER WATER ASSOCIATION	1182
066	WARREN WATERWORKS	6384
606	WATALULA WATER ASSOCIATION	2278
284	WATSON CHAPEL WATER ASSOC	5865
174	WATSON WATERWORKS	249
428	WEINER WATERWORKS	997
103	WESSON-NEWELL WATER ASSOC	658
878	WEST ASHLEY COUNTY WATER ASSN	683
577	WEST FORK WATERWORKS	2688
416	WEST HELENA WATER WORKS	5673
682	WEST SALINE WATER USERS ASSN	1825
735	WEST STONE COUNTY WATER ASSN	4634
704	WESTERN GREENE COUNTY R W D	7342
804	WHELEN SPRINGS WATER DEPT	500
686	WILBURN WATER ASSOCIATION	773
562	WILDWOOD WATER ASSOCIATION	1350
529	WILLIFORD WATERWORKS	105
187	WILMAR WATERWORKS	864
370	WILSON WATER SYSTEM	1122
188	WINCHESTER WATERWORKS	457
332	WINSLOW WATERWORKS	1590
700	WKMM RURAL WATER ASSOCIATION	310

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Appendix J - No Violations for This Calendar Year

PWS ID	System Name	Retail population served
196	WOOSTER WATERWORKS	5000
695	WRIGHT-PASTORIA WATER ASSOC	1268
410	WYE MOUNTAIN WATER ASSOCIATION	1350
163	WYNNE WATERWORKS	8837
356	YELLVILLE WATERWORKS	2329
319	YORKTOWN WATER ASSOCIATION	8423

PWS type:PWS type: N

N0235	ALEXA SPRINGS WATER COMPANY	25
1177	ANCHOR'S LANDING AT WOODS POINT RV PARK	72
1107	ARK S/P BEECH POINT CAMPGROUND	25
T1086	BEAR CREEK COUNTRY STORE	50
T1070	Benny's Country Store	25
N0080	BLACK BEAR SPRINGS	25
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
T0906	BUFFALO RV TYLER BEND CGU3-13	25
T0102	BYRD'S ADVENTURE CENTER, INC.	25
1013	C. G. Roxane	25
1242	CAMP HARVEST	25
973	CAMP WAR EAGLE	700
986	CEDAR GLADES PARK	25
T0431	CEDAR VALLEY INC	250
N0136	CULLIGAN OF NORTHWEST ARKANSAS	25
N0186	CULLIGAN WATER CONDITIONING	30
1222	DELTA RESORT & SPA	280
1246	DOLLAR GENERAL STORE 16417	25
1247	DOLLAR GENERAL STORE 17027	25
1255	EASY K RANCH	25
T1076	ECHO CANYON RESORT & MARINA	30
T1107	EUREKA SPRINGS PARKS & REC	100
1245	FALLING WATER HORSE CAMP	50
T0116	FERNCLIFF CAMP CONFER CENTER	162

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Appendix J - No Violations for This Calendar Year

PWS ID	System Name	Retail population served
1211	GARNER'S ICE HOUSE ROSE BUD	30
T0231	GASTON'S WHITE RIVER RESORT	550
T1045	GIRL SCOUT CAMP KARLTON KEMP	140
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
1126	GLACIER CK0030 MOUNTAIN VIEW	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
1230	GLACIER SF2752 GASSVILLE	30
1053	GLACIER TFS CLINTON	30
N0239	GLACIER WATER ALB TEXARK 4318	30
981	HARVEST CHURCH	75
T0258	HOLIDAY HILLS RESORT	25
T0915	HOT SPR NAT PK HAPPY HOLLOW SP	25
T0916	HOT SPR NAT PK WHITTINGTON SPR	25
T0259	HOT SPRINGS NATIONAL PARK	25
T0332	HOUSE OF BLESSINGS	60
T0261	HWY 27 FISHING VILLAGE	50
T0714	HWY 27 REC AREA	25
1094	J & J WATER SPORTS	50
1213	JUNIOR'S POLAR ICE BEEBE	30
T0297	KETTLE CAMPGROUND	55
T0312	LAKE LEATHERWOOD CAMPGROUND	25
993	Lake Shore Cabins	78
T0316	LAKESIDE COUNTRY CLUB	120
T0330	LITTLE FIR LANDING	250
T1090	LOST BRIDGE MARINA	25
1090	LOST VALLEY CANOE AND LODGING	25
T0341	MANY ISLAND CAMP	200
T0870	MILLWOOD LANDING GOLF & RV RESORT	125

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Appendix J - No Violations for This Calendar Year

PWS ID	System Name	Retail population served
T0373	MOOSE LODGE 1953	25
1252	NATURAL PURE 1 HOLIDAY ISLAND	30
T1068	NORFORK LAKE ESTATES-MOHR ADD	25
1198	NWS INC. WF0317 LITTLE ROCK	30
1220	NWS INC. WF0330 FAYETTEVILLE	30
1005	Oak Hill Lodge SGT	25
1216	OZARK ICE HOUSE COTTER	30
909	PRIMO WMSC0033 NASHVILLE	30
1071	PRIMO WMSC0171 CAMDEN	80
1176	PRIMO AKINS NF19 ROGERS	30
1234	PRIMO GLACIER HCP108 SPRINGDALE	30
1235	PRIMO GLACIER HF103 GREEN FOREST	30
N0162	PRIMO HF133 HUNTSVILLE	30
N0212	PRIMO HF135 MOUNTAIN HOME	30
N0225	PRIMO NMKT2744 FT SMITH	30
N0173	PRIMO REFILL LLC SILOAM SPRINGS IGA	30
1113	PRIMO REFILL LLC WMNM5737 FAYETTEVILLE	30
1028	PRIMO REFILL LLC WMSC 4460 NLR	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
1149	PRIMO REFILL WMSC157 SEARCY	30
N0148	Primo Russellville Harps	30
N0223	PRIMO WMNM 2742 SPRINGDALE	80
1207	PRIMO WMNM 4375 SPRINGDALE	30
1174	PRIMO WMNM2431 SEARCY	30
1201	PRIMO WMNM2686 BENTONVILLE	30
N0201	PRIMO WMNM2745	30
1218	PRIMO WMNM3164 BENTONVILLE	30
1189	PRIMO WMNM4128 RUSSELLVILLE	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
1225	PRIMO WMNM5780 PARAGOULD	30
1228	PRIMO WMNM5789 HOT SPRINGS	30
1229	PRIMO WMNM5790 HOT SPRINGS	30
1194	PRIMO WMNM6960 SILOAM SPRINGS	30

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Appendix J - No Violations for This Calendar Year

PWS ID	System Name	Retail population served
1187	PRIMO WMNM7242 FARMINGTON	30
1196	PRIMO WMNM7317 GREENBRIAR	30
965	PRIMO WMS0058 RUSSELLVILLE	80
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
1205	PRIMO WMSC0055 BOONEVILLE	30
N0140	PRIMO WMSC0067 MENA	30
N0164	PRIMO WMSC0071 POCAHONTAS	30
N0159	PRIMO WMSC0076 BERRYVILLE	30
1153	PRIMO WMSC0083 MAGNOLIA	30
N0139	PRIMO WMSC0085 BENTON	30
N0142	PRIMO WMSC0102 STUTTGART	30
N0219	PRIMO WMSC0119 BATESVILLE	30
947	PRIMO WMSC0127 MALVERN	120
N0165	PRIMO WMSC0141 FT. SMITH	30
N0166	PRIMO WMSC0160 ASH FLAT	30
N0224	Primo WMSC0261 Hot Springs	30
963	PRIMO WMSC0296 DARDANELLE	50
977	PRIMO WMSC0358 ALMA	30
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
1150	PRIMO WMSC1105 NLR	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

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Appendix J - No Violations for This Calendar Year

PWS ID	System Name	Retail population served
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
T0470	ROADRUNNER INN	25
T0472	ROCKING CHAIR RANCH	25
925	SHADY OAK RV PARK	124
1183	SPLASH CAR WASH MTN. VIEW	30
T0513	SPRING RIVER OAKS CAMP	25
T0526	SUPPLY COUNTRY STORE	150
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
T0609	USCOE BWP33 LOST BRIDGE	25
T0612	USCOE DG ALPINE RIDGE	25
T0619	USCOE DG LENOX MARCUS	25
T0620	USCOE DG LOWER LAKE	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
T0763	USFS ALBERT PIKE REC AREA	25
T0770	USFS BLANCHARD	25
T0786	USFS GUNNER POOL	25
T0788	USFS HORSEHEAD BATHHOUSE	25
T0795	USFS LAKE WEDINGTON	50
T0797	USFS LITTLE PINES REC AREA	25
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
T0821	USFS WHITE ROCK	35

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Appendix J - No Violations for This Calendar Year

PWS ID	System Name	Retail population served
970	VENTRIS TRAILS END RESORT	50
T1106	WATER WAGON	25
N0084	WILDERNESS VALLEY SPRING	25
1192	YGAP ASHDOWN	30
1203	YGAP TEXARKANA 1	30
1204	YGAP TEXARKANA 2	30
PWS type:PWS type: P		
N0180	4-H CENTER	40
N0103	AHTD HARRISON 9 HEADQUARTERS	90
N0022	ALBEMARLE CORPORATION SOUTH	550
N0021	ALBEMARLE CORPORATION WEST	150
T0045	ARK ST PARK-QUEEN WILHELMINA	223
T1110	ARK STATE PARK MT MAGAZINE	128
N0237	CHRISTIAN MINISTRY ACADEMY	300
N0052	CLEARWATER PAPER CORPORATION	339
N0009	ENTERGY - INDEPENDENCE	150
N0032	Evergreen Packaging INC, Pine Bluff	950
N0028	GEORGIA PACIFIC PAPER MILL	600
N0214	GEORGIA PACIFIC WOOD PRODUCTS LLC	100
N0029	Great Lakes Chemical South	144
1254	IDAHO TIMBER COMPANY	140
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	27
1221	VETERANS HEALTH CARE SYSTEM OF THE OZARKS	2200
N0069	VISKASE CORPORATION	200
1123	WILSON GUN SHOP #2	150

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Appendix J

Appendix K - Enforcement Actions

PWS type: C

PWS	System Name	Enforcement Action	Date Issued	Rule Violated
721	AURELLE WATER SYSTEM	Warning of Administrative Order	10/23/2019	state rules
600	BELLEVILLE WATER	Warning of Administrative Order	5/6/2019	DBP
600	BELLEVILLE WATER	Administrative Order	8/16/2019	DBP
600	BELLEVILLE WATER	Proposed Penalty	11/12/2019	DBP
178	BOIS D'ARC WATER SYSTEM	Warning of Administrative Order	9/11/2019	RTCR/GWR
178	BOIS D'ARC WATER SYSTEM	Administrative Order	11/4/2019	RTCR/GWR
178	BOIS D'ARC WATER SYSTEM	Proposed Penalty	12/9/2019	RTCR/lic
653	BRANCH WATER WORKS	Warning of Administrative Order	2/11/2019	DBP
223	BRECKENRIDGE UNION WATER ASSOC	Warning of Administrative Order	10/23/2019	RTCR/PN
660	CASA WATER DEPT	Proposed Penalty	2/11/2019	DBP
043	CAVE SPRINGS WATERWORKS	Penalty Assessed - Board of Health	2/11/2019	Op lic/PN
043	CAVE SPRINGS WATERWORKS	Proposed Penalty	3/1/2019	lic/PN
403	CHIDESTER WATERWORKS	Warning of Administrative Order	11/8/2019	RTCR/PN
596	COTTON PLANT WATERWORKS	Penalty Assessed - Board of Health	2/11/2019	pws fees/op lic
596	COTTON PLANT WATERWORKS	Proposed Penalty	3/1/2019	Lic/fees
596	COTTON PLANT WATERWORKS	Penalty Assessed - Board of Health	8/21/2019	lic/fees
439	COVE WATERWORKS	Warning of Administrative Order	5/6/2019	DBP
439	COVE WATERWORKS	Administrative Order	8/16/2019	DBP
439	COVE WATERWORKS	Proposed Penalty	11/12/2019	DBP
061	DIAMOND CITY WATER	Warning of Administrative Order	12/9/2019	DBP (lic)

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Appendix K

Appendix K - Enforcement Actions

150	EARLE WATERWORKS	Warning of Administrative Order	7/11/2019	LCR, lic, RTCR
150	EARLE WATERWORKS	Administrative Order	8/16/2019	LCR/lic/RTCR
323	FOREMAN WATERWORKS	Administrative Order	5/6/2019	DBP
636	FRENCHPORT WATER ASSOCIATION	Warning of Administrative Order	5/6/2019	RTCR/LCR/CCR
636	FRENCHPORT WATER ASSOCIATION	Administrative Order	6/24/2019	RTCR/CCR/PN
692	GARRETT BRIDGE WATER ASSOC	Warning of Administrative Order	5/6/2019	RTCR
658	GILLHAM REGIONAL WATER DIST	Warning of Administrative Order	8/16/2019	dbp
658	GILLHAM REGIONAL WATER DIST	Administrative Order	11/12/2019	DBP
701	GREEN HILL-BROOKS CHAPEL WATER	Warning of Administrative Order	12/9/2019	DBP (lic)
436	HATFIELD WATERWORKS	Warning of Administrative Order	5/6/2019	DBP
436	HATFIELD WATERWORKS	Administrative Order	8/16/2019	DBP
436	HATFIELD WATERWORKS	Proposed Penalty	11/12/2019	DBP
388	HOLLY GROVE WATERWORKS	Warning of Administrative Order	11/8/2019	RTCR
230	HOPE WATER LIGHT COMM	Proposed Penalty	2/13/2019	DBP
518	HORATIO WATERWORKS	Administrative Order	8/16/2019	state regs
209	HOT SPRINGS UTILITIES	Warning of Administrative Order	5/6/2019	DBP
301	HOXIE WATER DEPARTMENT	Warning of Administrative Order	8/16/2019	DBP
344	HUMNOKE WATERWORKS	Administrative Order	1/14/2019	RTCR
344	HUMNOKE WATERWORKS	Proposed Penalty	2/11/2019	RTCR/Oplic
508	HUNTINGTON WATERWORKS	Warning of Administrative Order	2/11/2019	DBP
508	HUNTINGTON WATERWORKS	Administrative Order	5/6/2019	DBP

Appendix K - Enforcement Actions

508	HUNTINGTON WATERWORKS	Proposed Penalty	8/20/2019	DBP
749	HWY 64 WATER ASSOCIATION	Proposed Penalty	7/11/2019	RTCR/PN
263	JACKSONPORT WATERWORKS	Warning of Administrative Order	8/16/2019	lic/RTCR
263	JACKSONPORT WATERWORKS	Administrative Order	9/11/2019	lic/RTCR
640	JOHNSON TOWNSHIP WATER ASSOC	Warning of Administrative Order	2/11/2019	DBP
640	JOHNSON TOWNSHIP WATER ASSOC	Administrative Order	5/6/2019	DBP/PN
373	KEISER WATERWORKS	Proposed Penalty	8/20/2019	RTCR
822	LAKESIDE WATER ASSOCIATION	Administrative Order	5/6/2019	DBP
822	LAKESIDE WATER ASSOCIATION	Proposed Penalty	8/20/2019	DBP
787	LITTLE RIVER CO RDA	Proposed Penalty	2/11/2019	DBP
718	LURTON-PELSOR WATER ASSOC	Proposed Penalty	8/20/2019	RTCR/GWR
109	MAGNOLIA WATERWORKS	Warning of Administrative Order	3/5/2019	SWTR/DBP
109	MAGNOLIA WATERWORKS	Administrative Order	4/10/2019	SWTR
109	MAGNOLIA WATERWORKS	Proposed Penalty	5/7/2019	SWTR/DBP
378	MANILA WATERWORKS	Warning of Administrative Order	11/8/2019	DBP (lic)
589	MC RAE WATERWORKS	Warning of Administrative Order	3/5/2019	lic/RTCR/DBP
773	MILLTOWN-WASHBURN WATER USERS	Proposed Penalty	2/11/2019	DBP
951	MONTGOMERY CO REGIONAL PWA	Proposed Penalty	5/7/2019	DBP
805	NASHVILLE RURAL WATER AUTHORITY	Administrative Order	2/11/2019	DBP
805	NASHVILLE RURAL WATER AUTHORITY	Proposed Penalty	5/7/2019	DBP
1075	NORTH HOWARD RURAL WATER ASSOCIATION	Proposed Penalty	2/11/2019	DBP

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Appendix K - Enforcement Actions

583	NORTH WHITE CO RURAL WATER PFB	Warning of Administrative Order	3/5/2019	lic
583	NORTH WHITE CO RURAL WATER PFB	Administrative Order	6/24/2019	lic
583	NORTH WHITE CO RURAL WATER PFB	Proposed Penalty	8/20/2019	lic
753	OLD BELLA VISTA POA	Administrative Order	2/11/2019	DBP
753	OLD BELLA VISTA POA	Proposed Penalty	5/7/2019	DBP/PN
559	OLD UNION WATER ASSOCIATION	Administrative Order	5/6/2019	DBP/PN
305	PORTIA WATERWORKS	Warning of Administrative Order	8/16/2019	DBP
239	RIVIERA UTILITIES	Warning of Administrative Order	5/6/2019	DBP
540	SHADY ACRES MOBILE HOME PARK	Warning of Administrative Order	6/24/2019	state regs
540	SHADY ACRES MOBILE HOME PARK	Administrative Order	7/11/2019	state regs; lic; RTCR
540	SHADY ACRES MOBILE HOME PARK	Proposed Penalty	8/20/2019	lic/RTCR/state regs
851	SOUTH LOGAN COUNTY WATER	Warning of Administrative Order	11/8/2019	DBP
851	SOUTH LOGAN COUNTY WATER	Administrative Order	12/9/2019	DPB and lic
815	SOUTH MOUNTAIN WATER ASSN	Administrative Order	9/11/2019	RTCR
978	SOUTH PIKE CO. WATER	Warning of Administrative Order	5/6/2019	DBP
978	SOUTH PIKE CO. WATER	Administrative Order	8/16/2019	DBP
556	STRONG WATERWORKS	Warning of Administrative Order	10/23/2019	state rules
882	SYLAMORE VALLEY WATER ASSN	Administrative Order	4/10/2019	RTCR/SWTR
882	SYLAMORE VALLEY WATER ASSN	Proposed Penalty	5/7/2019	RTCR/DBP/PN/SWTR
882	SYLAMORE VALLEY WATER ASSN	Proposed Penalty	8/20/2019	RTCR/SWTR
846	TRI COUNTY RWDD - MOORES CHAPEL	Administrative Order	2/11/2019	DBP

Appendix K - Enforcement Actions

451	ULM WATERWORKS	Proposed Penalty	2/11/2019	RTCR
137	VANDERVOORT WATERWORKS	Penalty Assessed - Board of Health	2/11/2019	RTCR
283	WABBASEKA WATERWORKS	Warning of Administrative Order	3/5/2019	lic/RTCR
283	WABBASEKA WATERWORKS	Administrative Order	4/10/2019	RTCR/lic
283	WABBASEKA WATERWORKS	Proposed Penalty	5/8/2019	RTCR/LIC/STATE
574	WASHINGTON WATER AUTHORITY WWA	Proposed Penalty	2/11/2019	DBP
779	WEST WOODRUFF WATER DISTRICT	Administrative Order	2/11/2019	RTCR
779	WEST WOODRUFF WATER DISTRICT	Proposed Penalty	4/10/2019	RTCR
440	WICKES WATERWORKS	Warning of Administrative Order	5/6/2019	DBP
642	WINTHROP WATER ASSOCIATION	Proposed Penalty	5/8/2019	DBP

PWS type: N

PWS	System Name	Enforcement Action	Date Issued	Rule Violated
T0015	AHTD-LONSDALE REST AREA	Warning of Administrative Order	10/24/2019	RTCR/PN
N0235	ALEXA SPRINGS WATER COMPANY	Administrative Order	7/11/2019	SWTR
T0751	BEAVER RV PARK	Warning of Administrative Order	7/11/2019	RTCR
1001	Blue Heron Campground	Warning of Administrative Order	6/24/2019	RTCR
T0350	BLUE WATER'S RESORT	Warning of Administrative Order	6/24/2019	RTCR
T0097	BUFFALO RV TYLER BEND MTU3-12	Administrative Order	7/11/2019	RTCR/GWR
T1080	CITGO FOOD MART	Administrative Order	12/9/2019	RTCR
T0163	COUNTRY MOUNTAIN INN	Warning of Administrative Order	7/11/2019	RTCR
989	FOODIE'S CAFÉ & CATERING	Warning of Administrative Order	7/11/2019	RTCR/PN/GWR
989	FOODIE'S CAFÉ & CATERING	Administrative Order	8/16/2019	RTCR/GWR

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Appendix K - Enforcement Actions

989	FOODIE'S CAFÉ & CATERING	Proposed Penalty	11/4/2019	RTCR/GWR
T0563	FREEDOM RV PARK	Proposed Penalty	5/7/2019	RTCR/PN
T0486	HIDE A WAY CAMPGROUND	Warning of Administrative Order	8/16/2019	RTCRGWR
T0308	KOA CAMPGROUND STORE	Warning of Administrative Order	6/24/2019	RTCR
T1092	Lake Norfolk Ozark Mountain Lodge	Administrative Order	5/6/2019	RTCR/PN
T1092	Lake Norfolk Ozark Mountain Lodge	Proposed Penalty	8/20/2019	RTCRPN
T0468	RIVERVIEW RESORT	Warning of Administrative Order	9/11/2019	RTCR
T1097	ROOST YOUR WHEELS	Administrative Order	1/14/2019	RTCR/PN
T1097	ROOST YOUR WHEELS	Proposed Penalty	7/1/2019	RTCR/PN
T0931	T & A SALOON & IRON HORSE STABLES	Warning of Administrative Order	12/9/2019	RTCR
T0829	THE INN AT LOST BRIDGE	Administrative Order	7/11/2019	SWTR
T0550	THREE OAKS RESORT	Warning of Administrative Order	6/24/2019	RTCR
t0832	WAGON WHEEL RESTAURANT	Warning of Administrative Order	6/24/2019	RTCR
949	WEST SHORE RESTAURANT	Proposed Penalty	3/6/2019	RTCR/GWR/PN

PWS type: P

PWS	System Name	Enforcement Action	Date Issued	Rule Violated
N0129	AHTD MARION COUNTY	Warning of Administrative Order	6/24/2019	lic
N0129	AHTD MARION COUNTY	Administrative Order	7/11/2019	lic
N0129	AHTD MARION COUNTY	Proposed Penalty	8/20/2019	lic
T1110	ARK STATE PARK MT MAGAZINE	Warning of Administrative Order	8/16/2019	lic/RTCR
T1110	ARK STATE PARK MT MAGAZINE	Administrative Order	9/11/2019	lic/RTCR
N0028	GEORGIA PACIFIC PAPER MILL	Administrative Order	4/10/2019	AR rules
1227	JLM VA HOSPITAL	Warning of Administrative Order	7/11/2019	lic

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