



ARKANSAS DRINKING WATER UPDATE

Volume 32, No.1

ENGINEERING SECTION – DEPARTMENT OF HEALTH

Spring 2019

Public Water System Service Fees to Increase

Jeff Stone, P.E., Director

During the 92nd General Assembly of the Arkansas Legislature, House Bill 1737 was introduced to raise Public Water System Service Fees from \$0.30 per meter per month to \$0.40 per meter per month. This bill was the result of the Arkansas Department of Health seeking support for the safe drinking water program in order to cope with upcoming challenges and increasing costs to the program. HB 1737 left unchanged the minimum bill of \$125 per year for non-community public water systems and small public water systems and \$250 for non-transient non-community public water systems. House Bill 1737 was passed by both Houses and signed into law by the Governor. House Bill 1737 became Act 788 on April 8, 2019.

Act 788 will become effective 90 days following the end of the legislative session. The new fee rate of \$0.40 per meter per month will become effective for the month of August and thereafter. The month of July will be before the law becomes effective and will be at the old rate of \$0.30 per meter per month. This change in fee rate will also necessitate the updating of the Arkansas Department of Health's Rules and Regulations Pertaining to Public Water Systems.

The public water system's service fees were last adjusted 12 years ago in 2007. Since that time, the toll of inflation and increases in the monitoring burden of the federal Safe Drinking Water Act have rendered this funding source inadequate to meet ongoing costs and upcoming challenges. This increase will enable the Arkansas Department of Health to incorporate the upcoming challenges that include: a perchlorate rule due to be proposed during 2019, a revised lead and copper rule due to be proposed during 2019, and enables the Public Health Laboratory to develop analytical capabilities for cyanotoxins and polyfluoralkyl substances (PFAS). Also, the future Unregulated Contaminant Monitoring Rule 5 (UCMR5) will be more expensive due to recent federal changes that will include many smaller water systems. Changes in the unregulated

contaminant monitoring rules are expected to double the cost of these rules in the future. UCMR5 is scheduled to begin sampling during 2023. Currently, the Arkansas Department of Health is fulfilling the monitoring requirements of UCMR4.

Since 2007 when the fees were set at the \$0.30 rate, the drinking water program has had to absorb increased costs that included the cost of inflation, additional sampling technicians to meet an increased monitoring burden, and a more expensive unregulated contaminant monitoring rule (UCMR4)

The Engineering Section is appreciative of the goodwill among the regulated community and appreciates those that may have spoken up for the program. In Arkansas, one of the great strengths of the program is the utilization of the Arkansas Department of Health's Public Health Laboratory for determining the health and safety of drinking water supplies. Use of the Public Health Laboratory also enables better response to water quality issues that may arise. It is routine for water systems in Arkansas to show 99+% compliance with Safe Drinking Water Act monitoring requirements.

The Engineering Section will mail out a notice to all regulated public water systems informing them of the new rate, effective date, and the changes to fee collection. Also, public water system service fee bills will be adjusted and be correct when those bills are sent out during the summer.

If you have any questions about the changes in the fees, please email your questions to jeffery.stone@arkansas.gov

Inside the <i>Update</i>	Page
Regulation Changes	2
Risk Assessments	3
PFAS Action Plan	4
Exam Scores	6
Water Fluoridation	8

Regulation Changes Required by Legislative Session

Jeff Stone, P.E., Director

Three different Acts of the 92nd Legislative General Assembly will require the Engineering Section to either modify or develop regulations. Modifying or creating regulations is a lengthy process which has to take care to enable public comment and comply with legally required administrative procedures. The three acts are discussed as follows:

Act 788 raises the public water system service fee rate from \$0.30 per meter per month to \$0.40 per meter per month. The Arkansas Department of Health's Rules and Regulations Pertaining to Public Water Systems will need to be updated to indicate this rate. It has been some time since these regulations were updated and some house cleaning is in order. Several AWWA Standard references need to be updated. It is also possible that language may need to be revised here or there to better express intent. The regulated community will be kept informed on this process.

Act 820 requires that bodies that issue occupational licenses must provide certain accommodations for persons that are either active duty in the military, a veteran recently returning from deployment, or the spouse of one of the previous two classifications. This law will require a revision of the water operator licensing regulations.

Act 708 requires that the Arkansas Department of Health promulgate a regulation that sets minimum standards for water and sewer improvements in Improvement Districts. At this time, the staff of the Engineering Section is attempting to determine the intent of this law and also the intended scope.

Since the last time that the Engineering Section engaged in regulation change, there have been substantial changes to the required administrative procedures. The Engineering Section will carefully proceed through this process and make sure that the regulated community is informed and has ample public comment opportunities.

Appointment to Water License Committee



Jeff Ford

On April 25, 2019, the State Board of Health appointed Charles J. (Jeff) Ford, Manager, Kimzey Regional Water District, Malvern, Arkansas to the Arkansas Drinking Water Advisory and Operator Licensing Committee. His strong background in the drinking water industry will allow him to be a valued member of the Committee.

Nominations were requested from the Arkansas Water and Wastewater Managers Association, Arkansas Rural Water Association, Arkansas Water Works and Water Environment Association, and Arkansas Environmental Training Academy Advisory Board.

The Committee thanks Roger Moring, Sardis Water Association, Mabelvale, Arkansas for his six years of dedicated service to the Committee. He served as the Committee Chair during his last year of service. The Committee advises the Department of Health and its Engineering Section on matters affecting Public Water Systems and the administration of the Water Operator Licensing Program.

ARKANSAS DRINKING WATER UPDATE is published quarterly by the Engineering Section, Arkansas Department of Health to inform readers of issues and activities affecting this industry. Articles and information in the newsletter can be reproduced without restriction if credit is given for the source. Potential contributors of articles for the *UPDATE* and persons wishing to be added to the mailing list should contact the Section at the address listed on the last page.

Risk Assessments and Emergency Response Plans

Nushat Dyson, EPA & Jatin Mistry, EPA Region 6

On October 23, 2018, America's Water Infrastructure Act (AWIA) was signed into law. The law requires applicable drinking water utilities to conduct risk and resilience assessments and, if necessary, update emergency response plans (ERP) based on their findings. The law includes specific components that the risk assessment and ERPs must address and establishes deadlines by which water systems must certify to the United States Environmental Protection Agency (EPA) completion of the risk assessment and ERP.

AWIA Section 2013 (a) through (f) describe the key components that must be followed regarding the risk assessments and ERPs. This section applies to all community water systems (CWS) serving more than 3,300 people whereby these systems are to conduct risk and resilience assessments and update ERPs.

For the risk and resilience assessments, water systems must now consider risks from malevolent acts and natural hazards. These can include the following:

- Pipes/conveyances, source water, water collection/intake, pretreatment, treatment, storage and distribution, electronic, computer, or other automated systems (including security);
- Monitoring practices;
- Financial infrastructure;
- Use, storage or handling of chemicals;
- Operation and maintenance; and
- May include capital and operational needs for risk management.

For the ERPs, prepare or revise the document that incorporates findings from the risk assessment. This can include the following:

- Strategies and resources to improve resilience, including physical security and cybersecurity;
- Plans, procedures, and equipment for responding to a malevolent act or natural hazard;
- Actions, procedures, and equipment to lessen the impact of a malevolent act or natural hazard, including alternative source

water, relocation of intakes, and flood protection barriers; and

- Strategies to detect malevolent acts or natural hazards.

It is recommended that water systems coordinate with local emergency planning committees and federal, state, local, and private sector partners when preparing or revising the risk assessment and ERP. Water systems must maintain the risk assessment and ERP for 5 years after the due date for certification.

Each CWS must certify to EPA that the CWS has completed the risk assessment and ERP. There is no need to send the actual risk assessment or ERP to EPA. All that is required is the name of the CWS, date of completion, and a statement of completion. EPA will be providing an optional certification template for the risk assessment and ERP.

The certification due date for the **risk assessment** is as follows for the population served:

≥100,000 = March 31, 2020
50,000-99,999 = December 31, 2020
3,301-49,999 = June 30, 2021

The certification for the **ERP** is no later than 6 months after the completion of the risk assessment.

EPA will provide three options for the submission of the certifications. The options are as follows:

- Regular US Mail
- Email
- Secure online portal

Detailed information on submittal procedures will be provided by August 1, 2019. At this time, EPA requests that all CWS wait until August 1, 2019, to submit their risk assessment and ERP certifications.

Each CWS must review and, if necessary, revise the risk assessment every 5 years after the certification deadline. Submit a certification to EPA that the CWS has reviewed and, if applicable, revised the risk assessment.

Each CWS must review and, if necessary, revise the ERP every 5 years following the review of the risk assessment. Submit a certification to EPA that the CWS has reviewed and, if necessary, revised the ERP no later than 6 months after the CWS has reviewed the risk assessment.

(continued next page)

EPA Releases PFAS Action Plan

Jeff Stone, P.E., Director

A CWS may use a risk assessment or ERP developed prior to enactment of the AWIA. To meet the certification requirements, a previous risk assessment or ERP must include all assessment or response components listed in the law; and reflect the current condition of the CWS. If required parts of the risk assessment or ERP have been omitted, the CWS may add those components. If the CWS has undergone modifications, the CWS may update the risk assessment or ERP where needed.

EPA does not require the use of any standards, tools or templates to develop a risk assessment or ERP under AWIA. The use of standards (e.g., AWWA methods) and tools from EPA and others is recommended as these tools can facilitate the development of sound risk assessment and ERPs. Please note that no method or tool guarantees compliance with AWIA as the CWS must ensure it complies with all AWIA requirements.

For additional information, please visit the following website:

<https://www.epa.gov/waterresilience/americas-water-infrastructure-act-2018-risk-assessments-and-emergency-response-plans>

For questions regarding AWIA Section 2013 (a) – (f), please contact EPA's Water Security Division at WSD-outreach@epa.gov.

On February 14, 2019, EPA issued its Per and polyfluoralkyl substances (PFAS) Action Plan. This action plan outlines various steps EPA will take in an effort to address concerns about Per and Polyfluoralkyl substances (PFAS) in the environment and in drinking water.

PFAS substances have been produced and utilized since the 1940's. Over 4,000 different PFAS substances have been manufactured and utilized. EPA's Toxic Substances Control Act Chemical Substance Inventory lists over 1,000 PFAS, of which approximately half are known to be commercially active within the last decade. The popularity of PFAS chemical is due to their chemical stability and resistance to heat, water, and oil. These substances have been used in firefighting foam, stain resistant materials, food packaging, and many other uses. There have been instances where drinking water supplies have been contaminated by PFAS chemicals. Typical sources of pollution include manufacturing operations producing or using these chemicals or from firefighting foams that are allowed to enter the environment. PFAS refers to the large group of Per and polyfluoralkyl substances. PFOS refers to Perfluorooctanesulfonic acid, a specific chemical of this type. PFOA refers to Perfluorooctanoic Acid, another specific chemical of this type. EPA has previously issued drinking water health advisories for PFOS and PFOA. PFOA and PFOS are relatively longer chain chemicals of this type and longer chain chemicals of this type are considered more toxic. For some time now, substitute chemicals have been utilized in an attempt to reduce exposure to toxins of this type. One common substitute chemical is commonly referred to as GenX. It is not yet clear that toxicity concerns have been adequately addressed by use of GenX or other substitute chemicals of this type.

There have been health concerns regarding PFAS chemicals for some time. For many years EPA has been working with manufacturers to phase out the production and use of PFOS and PFOA. Also, manufacturers are required to notify EPA of any resumed use of these chemicals.

EPA has also been concerned and has taken actions with regard to PFAS chemicals in drinking water. Six PFAS chemicals were included as part of the 3rd Unregulated Contaminant Monitoring Rule (UCMR3). UCMR3 monitoring was

REPORT OF THE Arkansas Drinking Water Advisory and Operator Licensing Committee

The Arkansas Drinking Water Advisory and Operator Licensing Committee cancelled its January 10, 2019 quarterly meeting. The Committee's next scheduled meeting was April 11, 2019. The April meeting report will be in the next edition of the *Arkansas Drinking Water Update*.

conducted nationwide between 2013 and 2015. PFAS chemicals were detected in less than 1% of the sample results. Arkansas was fortunate in that no samples from our state detected the presence of PFAS chemicals during UCRM3 monitoring.

Some water systems in the nation were found to have PFAS chemicals present and some in significant concentrations. At least one water system, Hoosick Falls, NY proceeded with treatment to remove these chemicals. The relatively expensive granular activated carbon filtration will remove PFAS chemicals.

During May 2016, EPA issued drinking water health advisories for PFOA and also PFOS. The health advisories indicate that these chemicals present health concerns that include: growth and development, the immune system, hormonal function, and increased cancer risks. The health advisory levels for PFOA and PFOS are 70 parts per trillion (0.07 ug/L) individually or combined.

The PFAS Action Plan released on February 14, 2019, outlined the future steps that EPA plans to take to address PFAS concerns. Non-drinking water actions include utilizing existing regulatory authority to minimize exposure to these chemicals. EPA indicates that it will work to expand the understanding of health effects. EPA indicates it will provide guidance for proper cleanup of contaminated sites and work to hold responsible entities accountable. Also, EPA indicates it will work towards development of public communication tools and materials.

The EPA Action Plan also outlines steps that will be taken to address PFAS concerns relating to drinking water. First, EPA indicates that during 2019 it will propose a regulatory determination as to whether it intends to regulate PFAS chemicals as part of the federal Safe Drinking Water Act (SDWA). This step is a legally required step in order to possibly initiate a process that will eventually establish maximum contaminant levels for PFAS chemicals in the federal SDWA.

EPA also indicates that PFAS chemicals will be included in the upcoming 5th Unregulated Contaminant Monitoring Rule (UCMR5). This will not only gather further occurrence data that will inform establishment of a maximum contaminant level (MCL) but will also assist in further development of analytical methods.

It appears that it will be several years before any MCLs for PFAS chemicals are established and become effective. UCMR5 sampling will occur between 2023 and 2025. There will be a period where those results are evaluated. If MCLs are proposed, there will be public comment periods and once final MCLs are established there is usually a

period of 3 years during which preparations are made prior to the MCLs becoming legally binding. It seems reasonable to conclude that it is likely to be between 2025 and 2030 before any PFAS drinking water MCLs are established and effective.

In the interim, the health advisories issued in May of 2016 will serve as guidance if any drinking water systems in Arkansas detect these chemicals. The Action Plan issued by EPA in February 2019 did not modify the previously issued health advisories for PFOA and PFOS.

The Arkansas Department of Health has a very limited ability to monitor water systems for the presence of PFOA and PFOS. Currently, the ADH Public Health Laboratory does not have the ability to analyze drinking water for these chemicals. If it appears that a water system needs to be checked for the presence of these chemicals due to a suspicion of contamination, the analytical work will have to be performed by a private laboratory certified for this analysis. The Engineering Section at the ADH should be able to quickly arrange for needed analysis should a situation of concern arise.

The EPA PFAS Action Plan can be viewed and downloaded at the following internet location: <https://www.epa.gov/pfas/epas-pfas-action-plan>

**Arkansas Water &
Wastewater Managers
Association
Annual Meeting**

**July 10-13, 2019 – Best Western Inn
of the Ozarks – Eureka Springs, AR**
www.arkwwma.org

The conference consists of three (3) days of manager focused training. Each day has a morning training session. The conference is approved for up to 10 contact hours of directly applicable water license training credit. No mandatory water training courses for exam purposes or license exams are available.

What Do Exam Scores Tell You

Martin Nutt, Training and Certification Officer

Great effort goes into the design and development of Association of Boards of Certification (ABC) License Exams to reliably measure your knowledge as outlined in each exam's Needs To Know (NTK). Exam scores continue to show this reliability. Exam takers normally repeat, within a couple of points, their previous exam score. This repeated score is your consistent knowledge of the subject matter of the exam. To improve this knowledge level will require the exam taker to do something significant to improve their knowledge.

How do you significantly improve your knowledge level? It takes hard work and the right attitude. Attitude is huge in this effort. Until the exam taker opens the reference books with a genuine desire to know the material it is not likely the material will be retained. The exam taker must study the manual with an attitude to understand how the individual pieces fit together to make a whole treatment unit and how that treatment unit fits into an overall plant. Simply looking through the book for exam answers to memorize has limited success due to your memories retention capabilities.

With your attitude improved, it is time to seek out available reference materials, and the ABC Needs To Know Criteria (NTK) for the exam being taken, then set aside study times. The Water Licensing Program has a helpful webpage in identifying the above references, NTK, and other helpful items. The webpage is at www.healthy.arkansas.gov/water-license.

The mandatory training courses to sit for a license exam are helpful in preparation for your license exam but they are not meant to be all your exam preparation. They are best suited as measurements of how your knowledge is progressing though your self-study efforts and assisting in understanding concepts you are having difficulties understanding. The courses taught as multiple all day courses do not provide high knowledge retention rates without the self-study reinforcement before and after the course. In the very unlikely chance the courses provided the answers to all the exam questions, over 50 % of that knowledge is lost by the end of the course, 75% by the end of the week. This is not

necessarily your fault. It is the average human brain's retention capabilities. The mentioned self-study prior to the course and certain teaching methods can improve the brains retention capability. The trainers utilize these teaching methods to the best of their abilities with the time allowed. The information is best retained in methodical, frequent reinforcement of the information utilizing quality study periods (times with few to no distractions, sorry TV in the background is a distraction). The study periods should be one to two hours every day or so, not an all-night cram session before the exam. A good night's sleep with time for a healthy breakfast far outweighs the cram session in exam benefit. This is the method used to learn in school, from kindergarten to college. Why would preparing for a license be any different?

This is why access to the suggested reference materials and other preparation helps are so critical. The NTK, and the reference book's "Table of Content" and index/glossary are all very useful. You can take the NTK provided "Job Task" and then use the table of contents and the index to narrow the amount of information needing studied in the reference books. Job task that are unknown or your weak subjects are great areas to study. The NTK provides information on the complexity (Recall, Application, or Analysis) of questions. In addition, the Supporting Knowledge needed for each job tasks is provided. The NTK indicates whether the task requires Basic, Intermediate or Advanced knowledge of the task. The NTK defines these terms.

Access to the reference books, both California State University, Sacramento (CSUS) references and American Water Works Association (AWWA), Water Supply Operator reference series are critical. Check with your utility to see if they do or will provide the references. The utility has a stake in your success. They need licensed operators.

Water Operator Licenses are considered "livelihood" licenses. Why? The obtaining of the license allows you to retain work that in theory, improves your quality of life. Therefore, the effort needed to become licensed comes with rewards.

New Water License Exams Started January 1, 2019

Martin Nutt, Training and Certification Officer

The Arkansas Drinking Water Advisory and Operator Licensing Committee approved the use of the 2017 Association of Boards of Certification (ABC) exam versions starting January 1, 2019. ABC has provided water license exams to the Arkansas Water License Program since 1997.

The new exams have a few significant changes. The most significant change, of course, is they are new exams with new items ("test questions"). The items are very similar in design and cover similar topics. There was no significant or purposeful effort to change the base content knowledge of the exams or change their difficulty levels. In reviewing exam results, most exam takers repeating their exam scored similar scores before and after the exam change.

Items have weights and measures provided in both US Customary and metric units. The metric terms are enclosed in parenthesis to make them easy to identify and ignore.

The new exams have had specific federal, state or provincial compliance items eliminated. For example items, such as, "What is the maximum contaminant level (MCL) for lead?" are removed. Knowledge of federal or state compliance is needed because items on how to comply with the requirements are allowed, such as, methods to reduce lead levels.

Each new exam has ten extra un-scored items, which may change over time. These are "pre-test" items allowing ABC to gather valuable data about the new item's performance. The pre-test items are not identified and are scattered throughout the exam to ensure candidates answer them with the same care in which they address scored items. Most importantly, the pre-test items are not included in the candidate's final score determination. Please visit the Arkansas Water Operator Licensing webpage "Obtaining a License" for licensing exams preparation information, such as: the updated recommended exam reference manuals, formula sheets, and the ABC provided exam Needs To Know Criteria (NTK) booklets.

ANRC Announces New Streamlined Financial Assistance Application

Mark Bennett, Chief of Water Development ANRC announced the Arkansas Natural Resources Commission has recently updated and streamlined the application form for ANRC's water, sewer and solid waste programs. "This is an outcome of the customer focus group conducted by the Commission, with the assistance of EPA, in Bentonville last fall. Our applicants and their engineers indicated they wanted an on-line, blank fillable, streamlined application form." Efforts were already underway to provide on-line guidance documents for applicant's use such as environmental review requirement guidance. The form revision was under the direction of Debra Dickson and Darla Brooks of ANRC Water Development staff.

Under the direction of ANRC Deputy Director Ryan Benefield P.E., ANRC has begun a review of the ANRC Water Development Division's financial assistance process from application to final project completion to debt retirement. "Our goal is to remove any unnecessary delays that are attributable to ANRC and allow the projects to move through the process smoothly and in the minimum amount of time necessary." Bennett said.

"In addition to revising the application form, we will be receiving technical assistance from EPA to review our Drinking Water and Clean Water Revolving Loan Fund requirements to make sure we are not requiring information no longer required. Each year the federal requirements change and we do a good job adding the new requirements, but may overlook removing all of the requirements no longer mandated" Bennett stated. Richard Dawson, P.E., Water Development Engineering Supervisor, will lead a team to work with EPA and its contractor in updating the division's engineering requirements.

The new application may be found on the Commission web site: <https://www.anrc.arkansas.gov/divisions/water-resources-development>.

ANRC is seeking drinking water projects that would return a water system into compliance or keep a system in compliance of Safe Drinking Water Act. If your system has a project that you would like to discuss further, please contact Debra Dickson at (501) 682-0548 or debra.dickson@arkansas.gov

Community Water Fluoridation

Lindy Bollen, DDS, Director of Oral Health

Fluoride is a mineral naturally occurring in rock that makes its way into the soil and water. All water contains fluoride to various concentrations. For over seventy years, community water fluoridation (CWF) has reduced the incidence of dental disease for people across the lifespan. CWF is the process to optimally adjust the level of fluoride to the desired concentration that will provide oral health benefits. The Center for Disease Control and Prevention (CDC) proclaimed CWF one of the top ten great public health achievements in the 20th century.

CWF is similar to fortifying salt with iodine, milk with vitamin D, orange juice with calcium and bread with folic acid. When fluoride enters the body it is deposited in mineralized structures such as bone and tooth enamel. The incorporation of fluoride in developing teeth creates a stronger tooth surface more resistant to acid breakdown which leads to dental decay (cavities). To be therapeutic, the fluoride level needs to be at 0.7 milligrams per liter, or parts per million (ppm). At this level, fluoride remains safe and effective.

Dental decay is the result of acids in the mouth that begins to breakdown tooth enamel. Acids occur with the introduction of any food substance which is the beginning acts of digestion. The normal neutral pH in the mouth drops from 7.5 to 5.5, or lower, depending on the food substrate. This acidic environment leads to a breakdown of enamel called demineralization. The longer this process is allowed to occur, the weaker the enamel becomes and eventually leads to dental decay. However, within 20 minutes when the mouth is cleared of food, saliva buffers the pH and returns to a normal 7.5 which allows the tooth surface to remineralize. Fluoride ions when present in the mouth is part of the remineralization process incorporating into the tooth enamel creating a more acid resistant surface. Fluoride inhibits the rate of acid breakdown of calcium phosphate, which constitutes most of the mineral in the tooth and also favors remineralization of these tissues. Fluoridated water benefits infants and children as teeth develop by becoming part of the matrix of tooth enamel. Fluoride benefits teens and adults through the continued remineralization process that is constantly occurring on a daily basis.

Numerous studies have compared populations between fluoridated and nonfluoridated

communities to measure the value of CWF, e.g. Louisiana (1999), Texas (2000) and New York (2010). The most recent and compelling comparison comes from Juneau, Alaska in 2018. An isolated city of 32K+ people, Juneau discontinued CWF in 2007 after previously providing fluoridated water for decades. A review of Medicaid claims the year before cessation and seven years after cessation in (2003 and 2012) revealed statistically significant differences both in the increase in total dental decay as well as the severity based on treatment rendered. With an increase of 25% more restorative dental procedures required there was also a treatment cost that was much higher for the nonfluoridated population. The approximate treatment costs for the group receiving fluoridated water was \$344.34. The group without the benefit of water fluoridation had treatment costs of \$593.70, an average increase of \$249.36 per child. The greatest level of increased decay was found in children born after the cessation of water fluoridation since they did not have the advantage of stronger tooth enamel.

Community water fluoridation has been identified as the most cost-effective method of delivering fluoride to all citizens reducing the incidence of tooth decay by 25% in both children and adults. Here in Arkansas, 86% of the population served by public water systems now receives optimally fluoridated drinking water. As water operators, you play a key role to ensure that our water is not only safe but with the optimum concentration of fluoride the water provides a cavity prevention service as well.

NOTICE

The Arkansas Department of Health/Office of Oral Health has grant money available to upgrade old and outdated water fluoridation equipment. If you are interested, please send the following documents: engineering plans/schematic for engineering approval, a list of materials to be purchased for the project, and a letter of interest printed on municipal stationary. For more information, contact the director of the Office of Oral Health:

Lindy Bollen, Jr., DDS

Lindy.Bollen@arkansas.gov 501.280.4111

STAFF NEWS:



Maygun Butler is the new Environmental Health Specialist working with the CCR Program as well as the Water Bottling Program. Maygun has an Associate's Degree in animal science from Arkansas State University in Beebe. She also has a Bachelor's of Science in Biology from University of Central Arkansas in Conway. She had previously worked with the Arkansas Game and Fish Commission doing various projects. She also worked with the fisheries lab at UCA in Conway.



Jackson Pruss is the new District 8 Environmental Health Specialist. Jackson is a native of Marche outside of Maumelle. He received a degree in Geography with a concentration in Geomatics from the University of Arkansas in Fayetteville. Before moving to the Engineering section, he worked as the onsite wastewater sanitarian for Pulaski County and represented the Department on the Pulaski County Planning Board. Jackson has a passion for the weather and is a trained weather spotter and a member of Arkansas Skywarn.



Savannah Riddle is the new District 4 Environmental Health Specialist. She graduated from the University of Central Arkansas in 2018 with a Bachelor's of Natural Science in Environmental Science. Prior to ADH, she worked for the Arkansas Game and Fish Commission as an educator teaching people about wildlife, habitat, and conservation.



David Sohmer is the new District 6 Environmental Health Specialist. He earned a Master of Public Health degree in epidemiology from the University of Arizona and is a Certified Public Health Professional. He was a Navy Preventive Medicine Technician stationed in Pearl Harbor, Hawaii. He also worked at the Hawaii Department of Health for 14 years, managing public health programs. Most recently he worked at the Butterball turkey processing plant in Huntsville as a food safety and employee safety worker.

WATER OPERATOR LICENSES ISSUED

December 1, 2018 through March 31, 2019

LICENSEE NAME	GRADE/TYPE	SYSTEM NAME
ADAIR LLOYD	T - I	FORT SMITH WATER UTILITIES
ADAMS DEAN	D - II	CHEROKEE VILLAGE WATER ASSOC
ANDERSON PRESTON	D - II	QUITMAN WATERWORKS
APPLEGATE THEODORE	D - II	BRUNNER HILL & COMMUNITY WATER ASSN (SALESVILLE)
ARCHER BRIAN	D - IV	PARAGOULD, LIGHT, WATER, & CABLE
ARNOLD JASON	D - I	PRAIRIE GROVE WATERWORKS
BARNES VICTOR	D - IV	COMMUNITY WATER SYSTEM
BATTERTON JAMES	T - IV	BENTON WATERWORKS
BETHEL CHAD	T - IV	FORT SMITH WATER UTILITIES
BIDDLE JOHN	D - III	BOIS D'ARC WATER & HOPE WATER AND LIGHT COMM
BOATMAN JOHNNY	D - III	CARAWAY WATERWORKS
BRADFORD BRETT	D - IV	PARAGOULD, LIGHT, WATER, & CABLE
BRADLEY MONICA	T - III	SEVIER CO WATER ASSOCIATION
BRECKENRIDGE TRACY	D - IV	ASH FLAT WATER COMPANY
BROWN TERRANCE	D - IV	KIMZEY REGIONAL WATER DISTRICT
BROWN TONY	D - IV	SILOAM SPRINGS WATERWORKS
CANNON TIMOTHY	T - IV	CENTRAL ARKANSAS WATER
CESSOR JAMES	T - I	HAMBURG WATERWORKS
COOK ELIZABETH	T - IV	JONESBORO WATER SYSTEM
COOPER TOMMY	D - I	SOUTH LOGAN COUNTY WATER
CRAVENS MICHAEL	D - IV	ELAINE WATERWORKS
CRIPPEN CURTIS	D - II	HWY 71 WATER DISTRICT #1 PWA
DEAL GREGG	D - II	LACEY-LADELLE WATER ASSOCIATIO
DEBES JACOB	D - IV & T - II	OZARK WATERWORKS
DOEGE LEE	T - I	HOT SPRINGS UTILITIES
DOEPEL VERA	D - VSS	ULM WATERWORKS
ECKELKAMP MARK	D - IV	CENTRAL ARKANSAS WATER
ENGLEDOWL WILLIAM	D - II	TEXARKANA WATER UTILITIES
FERGUSON HUNTER	D - II	SPRINGDALE WATER UTILITIES
FIELDS DARREN	T - I	MULBERRY WATERWORKS
FLETCHER JOHN	T - IV	CABOT WATERWORKS
FROST GABE	D - IV & T - IV	BEAVER WATER DISTRICT
GALLAGHER JASON	D - IV & T - IV	TEXARKANA WATER UTILITIES
GARCIA JAIME	D - IV	ROGERS WATER UTILITIES
GIBBY JACOB	D - I	BENTONVILLE WATER UTILITIES
GUTHRIE JOHN	D - IV	FORT SMITH WATER UTILITIES
HAGENBURGER WILLIAM	D - IV	BEAVER WATER DISTRICT
HAMRICK RICHARD	D - I & T - I	FORT SMITH WATER UTILITIES
HANKINS CHRISTIAN	D - I	NAT CTR FOR TOXOLOGICAL RES
HARRIS KEITH	D - IV	MOUNTAIN HOME WATERWORKS
HARVILL DUNCAN	D - I	ATKINS WATER SYSTEM
HENDERSON KURTIS	D - I	CAVE SPRINGS WATERWORKS
HENSLEY CORY	D - III	TEXARKANA WATER UTILITIES
HERRINGTON SHAWN	D - IV	BENTONVILLE WATER UTILITIES
HIGGINS DARREN	T - II	DEQUEEN WATER WORK
HITER RICHARD	D - II	BIG FLAT WATERWORKS
HOLT WILLIAM	T - III	CENTRAL ARKANSAS WATER
HUGHES KENTON	D - IV	WARD WATERWORKS
JENKINS RONNIE	T - III	CENTRAL ARKANSAS WATER
JONES CHRIS	D - II	FULTON COUNTY WATER ASSOC
JONES DILLON	D - I	VAN BUREN WATERWORKS
KINION TONY	D - IV	ROGERS WATER UTILITIES
KRONBERG ANDREW	D - II	SALEM WATER ASSOCIATION & SOUTHWEST WATER ASSOCIATION
LANCASTER ROBERT	D - IV	FAYETTEVILLE WATERWORKS
LANE AARON	T - II	CROSSETT WATER COMMISSION
LEPOLA KEVIN	D - IV & T - IV	BENTON-WASHINGTON REGIONAL PWA
LOWERY WILSON	D - I	VAN BUREN WATERWORKS

LICENSEE NAME	GRADE/TYPE	SYSTEM NAME
LYBRAND KASEY	D - II	NORMAN WATERWORKS
MARR CHRISTOPHER	D - IV	CENTRAL ARKANSAS WATER
MARTINEZ LONNIE	D - II	MID-ARKANSAS UTILITIES PWA
MCCARTY TRACY	D - I	ADC - TUCKER UNIT MAINT
MCCOY SHAWN	D - I	HOT SPRINGS VILLAGE WATER
MILES SHAWN	D - II	LITTLE RIVER WATER ASSOCIATION
MILLER DAVE	T - I	
MILLS ALBERT	D - IV	CROSSETT WATER COMMISSION & WEST ASHLEY COUNTY WATER ASSN
MINCY JEFF	D - III	FAYETTEVILLE WATERWORKS
MOSELEY BRADLEY	D - I	CENTERTON WATERWORKS
MOUL KEVIN	D - III & T - III	CENTRAL ARKANSAS WATER
OSTRAND DANIEL	D - I	VETERANS HEALTH CARE SYSTEM OF THE OZARKS
PARHAM RICHARD	D - III	CENTRAL ARKANSAS WATER
PAYNE BRADLEY	D - IV	CENTRAL ARKANSAS WATER
PEEL BRADY	T - II	WILBURN WATER ASSOCIATION
PEREZ RICHARD	D - II	KNOXVILLE WATERWORKS
PETTY JIMMY	D - III	BATESVILLE WATER UTILITIES
PETTY JONATHAN	D - III	GREENBRIER WATERWORKS
PITMAN CHARLES	D - III	MENA WATER DEPT
POTEETE WILLIAM	D - VSS	
PUGH DANIEL	D - IV	SILOAM SPRINGS WATERWORKS
RAMON GREGORIO	D - IV & T - IV	LR WATER RECLAMATION AUTHORITY
RAWE PHILLIP	T - I	BEEBE WATERWORKS
REYNOLDS JAMES	D - II	GREENBRIER WATERWORKS
RICHARDSON JOHN	D - IV	ROCK MOORE WATER AUTHORITY
RIDER CASEY	D - IV	HEBER SPRINGS WATER SYSTEM
RIGGS AARON	T - I	
ROBINSON COBIE	D - I	GRANGE-CALAMINE WATER ASSOC
RUTHERFORD JOHN	D - IV	ARKADELPHIA WATERWORKS
SACKETT JAMES	D - I	COMMUNITY WATER SYSTEM
SANDERS CLIFTON	D - IV	FORDYCE WATER CO
SCHMIDT MARIEDA	D - I	BLACK ROCK WATERWORKS
SCHNEIDER CHRISTINE	T - IV	BENTON-WASHINGTON REGIONAL PWA
SCHULTZ BRYAN	T - IV	BOONEVILLE WATERWORKS
SIMS BRETT	D - IV	WEST MEMPHIS WATERWORKS
SKINNER BOBBIE	T - IV	MC RAE WATERWORKS
SKINNER JUSTIN	D - I	COTTON PLANT WATERWORKS
SMITH STEPHEN	D - I	MAUMELLE WATER CORPORATION
SPEAK COLLIN	D - I	WEST MEMPHIS WATERWORKS
STAIB JOHN	D - I	BENTONVILLE WATER UTILITIES
SURRATT JUSTIN	T - II	BENTON WATERWORKS
TENNISON ALFRED	D - IV & T - IV	CENTRAL ARKANSAS WATER
TERRY CASE	D - IV & T - IV	DANVILLE WATERWORKS
THOMPSON BEAU	D - II	BENTONVILLE WATER UTILITIES
TRIPODI TRAVIS	D - IV	ROGERS WATER UTILITIES
UTT STEVEN	D - I	BERRYVILLE WATERWORKS
VINEY MICHELLE	D - VSS	COMMUNITIES UNLIMITED
WALL BRIAN	D - VSS	LITTLE RIVER COUNTRY CLUB
WALLIS ANDY	T - III	CROSS COUNTY RURAL WATER SYS
WELLBORN MICHAEL	T - III	NORTH EAST ARKANSAS PWA
WHITE KENT	D - II	TRI-COUNTY WATER DISTBR DIST & TRI COUNTY RWDD -MOORES CHAPEL
WILLIAMS AARON	D - II	SALEM WATER ASSOCIATION & SOUTHWEST WATER ASSOCIATION
WILLIAMS ANDREW	D - I	CAVE SPRINGS WATERWORKS
WILLIAMS BYRON	T - III	HOPE WATER LIGHT COMM
WIMBISH WARD	D - IV	WEST MEMPHIS WATERWORKS
WOODS CHRISTOPHER	D - IV	MOUNTAIN HOME WATERWORKS

Water Licensing Renewal

The June 2019 Water Operator License renewal is approaching quickly. Water Operators are expected to obtain at least 24 hours of ADH approved renewal training within the renewal period July 1, 2017 and June 30, 2019. At least 12 hours must be Direct training hours. The remaining 12 hours may be additional Direct or In-direct to complete the minimum renewal requirement of 24 training hours. A license or OIT received after July 1, 2017 may have the hours prorated to meet the License renewal requirements. Also, any mandatory training attended within this renewal period, even prior to passing the exam, may be used to renew licenses. Significant effort is being made to update the ADH training website to assist you in documenting Water Operator training attendance credit. See this [website: https://health.arkansas.gov/wa_engTraining/hours.aspx](https://health.arkansas.gov/wa_engTraining/hours.aspx) This site

The below chart is a list of available renewal training being held prior to the end of the renewal period. Additional training may be available within your local area. Please visit our website at:

<http://www.healthy.arkansas.gov/eng/autoupdates/oper/opcertlinks.htm>

for the most current training list.

Course Name	Start Date	Ending Date	Time	City	Location	Sponsor	Direct/Hours
Water Lic Ren Training	5/7/19	5/8/19	8 AM	Bono	Bono Community Center,	ARWA	12
Small Drinking PWS	5/21/19	5/22/19	8 AM	Addison, TX	EPA Region 6 Training Facility, 16650 Westgrove Road, Suite 200, Addison, TX 75001	EPA Reg 6	12
Disinfectants and DBP	5/29/19	5/29/19	8 AM	Fayetteville	Utilities Operations Center	AETA	8
Water/WW Mgmt	5/30/19	5/30/19	8 AM	Fayetteville	Utilities Operations Center	AETA	8
Chlorine Safety	6/4/19	6/4/19	8 AM	Little Rock	CAW Clearwater Complex	AETA	8
Trenching	6/6/19	6/6/19	8 AM	Little Rock	CAW Clearwater Complex	AETA	8
Water Lic Ren Training	6/11/19	6/12/19	8 AM	Lonoke	ARWA Training Facility	ARWA	12
Operator Expo	6/12/19	6/12/19	8 AM	Lonoke	ARWA Training Facility	ARWA	TBD
Basic Pump O&M	6/18/19	6/18/19	8 AM	Camden	AR Env Training Academy	AETA	8
ADH PWS Compliance	6/19/19	6/19/19	8 AM	Bono	Bono Community Center	ADH	8
Advanced Pump O&M	6/19/19	6/19/19	8 AM	Camden	AR Env Training Academy	AETA	8
Disinfectants and DBP	6/25/19	6/25/19	8 AM	Camden	AR Env Training Academy	AETA	8
Filter Optimization	6/26/19	6/26/19	8 AM	Camden	AR Env Training Academy	AETA	8
Source Water Mgmt	6/27/19	6/27/19	8 AM	Little Rock	CAW Clearwater Complex	AETA	8

Mandatory Training Course Schedule

Most Current Listing is at: www.healthy.arkansas.gov/eng/autoupdates/oper/mandtrngall.htm.

Please contact the course sponsor to register for course well in advance of course date.

WATER LICENSE EXAM SESSION NOT HELD END OF MOST COURSES.

Mandatory Course Name	Start Date	Ending Date	Time	CITY	LOCATION	SPONSOR
Intermediate Treatment	6/3/19	6/16/19	TBD	Internet	http://www.sautech.edu/aeta/schedule.aspx	AETA
Basic Water Distribution	6/4/19	6/6/19	8:00 AM	Jonesboro	Operations Facility, 105 W Johnson Ave	AETA
Basic Water Distribution	6/4/19	6/6/19	8:00 AM	Siloam Spgs	Contact ARWA for location	ARWA
Basic Water Treatment	6/18/19	6/20/19	8:00 AM	Camden	Operations Facility, 105 W Johnson Ave	AETA
Basic Water Math	6/18/19	6/18/19	8:00 AM	Bono	Contact ARWA for location	ARWA
ADH PWS Compliance	6/19/19	6/19/19	8:00 AM	Bono	Bono Community Center, 100 Woodland Trail	ARWA
Applied Water Math	6/20/19	6/20/19	8:00 AM	Bono	Contact ARWA for location	ARWA
Advanced Treatment	7/1/19	7/14/19	TBD	Internet	http://www.sautech.edu/aeta/schedule.aspx	AETA
Intermediate Distribution	7/9/19	7/11/19	8:00 AM	Siloam Spgs	Contact ARWA for location	ARWA
Advanced Distribution	7/15/19	7/28/19	TBD	Internet	http://www.sautech.edu/aeta/schedule.aspx	AETA
Basic Water Treatment	7/16/19	7/18/19	8:00 AM	Greers Ferry	Community Water System, 299 Lakeshore Drive	AETA
Basic Water Math	7/16/19	7/16/19	8:00 AM	Springdale	Springdale Training Facility, 525 Oak Ave	AETA
Applied Water Math	7/17/19	7/17/19	8:00 AM	Springdale	Springdale Training Facility, 525 Oak Ave	AETA
ADH PWS Compliance	7/18/19	7/18/19	8:00 AM	Springdale	Springdale Training Facility, 525 Oak Ave.	ADH
Basic Water Treatment	7/23/19	7/25/19	8:00 AM	Bono	Contact ARWA for location	ARWA
Intermediate Distribution	7/23/19	7/25/19	8:00 AM	Paragould	Paragould Light Water & Cable, 1901 Jones Rd	AETA
Basic Water Math	7/29/19	8/11/19	TBD	Internet	http://www.sautech.edu/aeta/schedule.aspx	AETA
Intermediate Treatment	7/30/19	8/1/19	8:00 AM	Little Rock	CAW Clearwater Complex, 11 Clearwater Drive	AETA
Basic Water Math	8/6/19	8/6/19	8:00 AM	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	ARWA
ADH PWS Compliance	8/7/19	8/7/19	8:00 AM	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	ARWA
Applied Water Math	8/8/19	8/8/19	8:00 AM	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	ARWA
Applied Water Math	8/12/19	8/25/19	TBD	Internet	http://www.sautech.edu/aeta/schedule.aspx	AETA
Basic Water Distribution	8/20/19	8/22/19	8:00 AM	Rogers	Rogers Water Utility, 521 South 2nd Street	AETA
Basic Water Math	8/27/19	8/27/19	8:00 AM	Greers Ferry	Community Water System, 299 Lakeshore Drive	AETA
Applied Water Math	8/28/19	8/28/19	8:00 AM	Greers Ferry	Community Water System, 299 Lakeshore Drive	AETA
ADH PWS Compliance	8/29/19	8/29/19	8:00 AM	Greers Ferry	Community Water System, 299 Lakeshore Drive	ADH
Advanced Treatment	9/3/19	9/5/18	8:00 AM	Little Rock	CAW Clearwater Complex, 11 Clearwater Drive	AETA
Basic Water Treatment	9/3/19	9/15/19	TBD	Internet	http://www.sautech.edu/aeta/schedule.aspx	AETA
Advanced Distribution	9/10/19	9/12/19	8:00 AM	Jonesboro	Operations Facility, 105 W Johnson Ave	AETA
Basic Water Distribution	9/16/19	9/29/19	TBD	Internet	http://www.sautech.edu/aeta/schedule.aspx	AETA
Basic Water Math	9/17/19	9/17/19	8:00 AM	Russellville	Tri-County Water, 5306 N Arkansas Ave	AETA
Applied Water Math	9/18/19	9/18/19	8:00 AM	Russellville	Tri-County Water, 5306 N Arkansas Ave	AETA
ADH PWS Compliance	9/19/19	9/19/19	8:00 AM	Russellville	Tri-County Water, 5306 N Arkansas Ave	ADH
Intermediate Distribution	9/24/19	9/26/19	8:00 AM	Fayetteville	Utilities Operations Center, 2435 S Industrial Dr	AETA
Basic Water Distribution	9/24/19	9/26/19	8:00 AM	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	ARWA
Intermediate Treatment	9/30/19	10/13/19	TBD	Internet	http://www.sautech.edu/aeta/schedule.aspx	AETA

WATER OPERATOR LICENSE EXAMINATIONS SCHEDULE

The most current Exam Schedule is at: <http://www.healthy.arkansas.gov/eng/autoupdates/oper/operexam.htm>

You must register for the exam 45 days in advance. To register on the internet go to www.healthy.arkansas.gov/eng and click on Operator Certification, then select Register- Water License Exam. To register by e-mail provide name, license exam desired, exam session site, and exam date in an email addressed to ADH.Water.Licensing@arkansas.gov. You may register by phone with the Water Licensing Program at (501) 661-2623. Call (501) 661-2623, ask for Water Licensing Program.

Listed below are the dates and locations of examination sessions as scheduled, as of **April 3, 2019**. All Treatment and Distribution exam grades will be available at the sessions. Acceptable photo identification (Drivers License or equivalent) will be required to sit for an Exam. Cell phones, pagers and other electronic communication devices are not allowed. Non-Programmable calculators are allowed in exam sessions.

EXAM DATE	REGISTER DEADLINE	CITY	LOCATION	TIME
9/5/2019	7/22/2019	Mtn. Home	Baxter Co OEM Train Facility, 170 Dillard Dr, Midway	9:00 AM
9/6/2019	7/22/2019	Fayetteville	Fayetteville Operations Center, 2435 S Industrial Dr	9:00 AM
9/6/2019	7/22/2019	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	9:00 AM
9/13/2019	7/30/2019	Camden	AR Environmental Training Academy, 100 Carr Road	9:00 AM
9/13/2019	7/30/2019	Clarksville	CLW (Operations Bld) 710 East Main (Hwy 64 East)	9:00 AM
9/13/2019	7/30/2019	Jonesboro	Jonesboro CWL Office Training Rm, 400 E Monroe	9:00 AM
9/18/2019	8/4/2019	Hot Springs	ARWA Conference, HS Convention Center	9:00 AM
12/6/2019	10/22/2019	Fayetteville	Fayetteville Operations Center, 2435 S Industrial Dr	9:00 AM
12/6/2019	10/22/2019	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	9:00 AM
12/6/2019	10/22/2019	Nashville	Carter Day Center, 200 Lake Nichols Drive	9:00 AM
12/13/2019	10/29/2019	Camden	AR Environmental Training Academy, 100 Carr Road	9:00 AM
12/13/2019	10/29/2019	Clarksville	CLW (Operations Bld) 710 East Main (Hwy 64 East)	9:00 AM
12/13/2019	10/29/2019	Jonesboro	Jonesboro CWL Office Training Rm, 400 E Monroe	9:00 AM

The above exam session information is subject to change. You should confirm this information just prior to the scheduled examination period. Also, the latest and complete exam schedule information can be viewed on the Internet at: < <http://www.healthy.arkansas.gov/eng/autoupdates/oper/operexam.htm> >.

Remember, you must register for the exam 45 days in advance. Application for License is not registration for an exam

Please verify that your license application has been filed with this office and that the required exam fee for each exam has been paid. The license exams require significant preparation prior to sitting for the exam. The preparation must include extensive study utilizing the study guide and recommended reference manuals/materials. Credit for the mandatory Certification Training Courses must be obtained before taking an exam. Copies of your training documentation must be provided when registering for an exam or provide documentation of its attendance by the exam session.

Major Monitoring, MCL, Treatment Technique, & Licensing Violations

Community & Nontransient Noncommunity Public Water Systems, October – December 2018

ALTUS WATERWORKS	Bmon 12	SYLAMORE VALLEY WATER	Tmon 10
BASSETT WATERWORKS	OperLic 10	TRI COUNTY, MOORES	DBPR 10, 11, 12
BASSETT WATERWORKS	PN 11	CHAPEL	
BATTS-LAPILE WATER ASSN	LCR 10	UNITED WATER ASSN	DBPR 10, 11, 12
BODCAW RURAL WATER	DBPR 10, 11, 12	UNITED WATER ASSN	Dmon 12
BRANCH WATERWORKS	DBPR 10, 11, 12	WASHINGTON WATER	DBPR 10, 11, 12
BRINKLEY WATERWORKS	Dmon 12	AUTHORITY WW	
BRUNO PYATT SCHOOL	PN 11, 12	WHEATLEY WATERWORKS	DBPR 10, 11, 12
CASA WATER DEPT	DBPR 10, 11, 12	WHEATLEY WATERWORKS	Dmon 12
CAVE SPRINGS	OperLic 10, 11, 12		
CAVE SPRNGS	PN 11, 12		
CLARENDON WATERWORKS	OperLic 10, 11, 12		
EAST MONROE COUNTY	DBPR 10, 11, 12		
EAST MONROE COUNTY	PN 12		
EAST MONROE COUNTY	Dmon 10, 12		
GUM SPRINGS	Dmon 12		
HOPE WATER AND LIGHT	DBPR 10, 11, 12		
HUMNOKE WATERWORKS	OperLic 12		
HUNTINGTON	DBPR 10, 11, 12		
JOHNSON TWP	DBPR 10, 11, 12		
LEE COUNTY WATER ASSN	DPBR 10, 11, 12		
LEE COUNTY WATER ASSN	Dmon 12		
LEE COUNTY WATER ASSN	PN 12		
LITTLE RIVER CO RDA	DBPR 10, 11, 12		
MARVELL WATERWORKS	OperLic 10, 11		
MARYSVILLE WATER ASSN	LCR 10		
MILLTOWN-WASHBURN	DBPR 10, 11, 12		
MONTGOMERY CO RPWA	DBPR 10, 11, 12		
MONTROSE/BOYDELL	Bmon 12		
MONTROSE/BOYDELL	GWRmon 12		
MORO WATERWORKS	DBPR 10, 11, 12		
MORRISON BLUFF	TMCL 10		
MOUNT IDA WATERWORKS	DBPR 10, 11, 12		
MOUNT IDA WATERWORKS	Bmon 10		
MOUNT OLIVE WATER ASSN	Dmon 12		
MOUNTAIN DEVELOPMENT	IMCL 10, 11, 12		
NASHVILLE RURAL WATER	DBPR 10, 11, 12		
NAIL-SWAIN WATER ASSN	PN 12		
NEW LONDON WATER ASSN	DBPR 10, 11, 12		
NORTH HOWARD RWA	DBPR 10, 11, 12		
OLD BELLA VISTA POA	DBPR 10, 11, 12		
OLD BELLA VISTA POA	PN 12		
PANGBURN WATERWORKS	Tmon 11		
PARKDALE WATERWORKS	OperLic 10, 11		
PICKENS WATERWORKS	PN 10		
RAMBO WATER DISTRICT #1	IMCL 10, 11, 12		
SANDRIDGE BARDSTOWN	OperLic 10		
SANDRIDGE BARDSTOWN	PN 11		
SHUMAKER	Bmon 12		
SOUTHWEST ARKANSAS WS	DBPR 10, 11, 12		
STEPHENS WATERWORKS	Dmon 10		

KEY: Bmon = Bacti Monitoring; BMCL = Bacti MCL; CCR = Consumer Confidence Rule; Dmon = Disinfection By Product Rule Monitoring; DBPR=Disinfection By Product Rule MCL or Treatment Technique; GWRMCL=GWR Treatment Technique; GWRmon= GWR Monitoring or Reporting; PN = Public Notice Rule Tmon = SWTR Major Monitoring; TMCL = SWTR Treatment Technique; SWTR= Various SWTR requirements; Failure to Filter; RMCL = Radiochemical MCL; FMCL = Fluoride MCL; IMCL=Inorganic Chemical MCL; SMCL = Synthetic Chemical MCL; OperLic = Operator Licensing; 10 = Oct. 2018, 11 = Nov. 2018, 12 = Dec.. 2018

Return Service Requested

PRINTED ON RECYCLED PAPER

AWW&WEA District Meetings

See also the Division's web site www.healthyearkansas.com/eng/ for updates.

DATE	TIME	CITY	LOCATION	SPONSOR
May 2019				
No Meeting Scheduled				
2	5:30 PM	Little Rock	Lake Maumelle	Northwest District, AWW&WEA
7	5:30 PM	Fort Smith	Western Sizzlin	Central District, AWW&WEA
9	5:00 PM	Caldwell	Catfish Island	Western District, AWW&WEA
9	5:00 PM	Pleasant Plains	Tadpole's Catfish Barn	Eastern District, AWW&WEA
9	6:00 PM	Russellville	Western Sizzlin	North Central District, AWW&WEA
16	12:30 PM	Rector	Community Center	AR Valley District, AWW& WEA
21	6:00 PM	Watson Chapel	Water Shop	Northeast District, AWW& WEA
23	6:00 PM	Arkadelphia	Western Sizzlin	Southeast District, AWW&WEA
June 2019				
TBA				
7	5:30 PM	Fort Smith	Western Sizzlin	Southwest District, AWW&WEA
12	8:30 AM	Holiday Island	Club House	Central District, AWW&WEA
13	6:00 PM	Stuttgart	TBA	Western District, AWW&WEA
13	5:00 PM	Pleasant Plains	Tadpole's Catfish Barn	Northwest District, AWW&WEA
13	6:00 PM	Russellville	Western Sizzlin	Eastern Central District, AWW&WEA
18	6:00 PM	TBA	TBA	North Central District, AWW&WEA
20	12:30 PM	Paragould	Iron Horse BBQ	AR Valley District, AWW&WEA
27	6:00 PM	Foreman	Community Center	Southeast District, AWW&WEA
July 2019				
TBA				
4	5:30 PM	Fort Smith	Western Sizzlin	Central District, AWW&WEA
10	8:30 AM	Pea Ridge	Emergency Services Bldg.	Western District, AWW&WEA
11	5:30 PM	Des Arc	Dondies	Northwest District, AWW&WEA
11	6:00 PM	Russellville	Western Sizzlin	Eastern District, AWW&WEA
11	5:00 PM	Pleasant Plains	Tadpole's Catfish Barn	AR Valley District, AWW& WEA
16	6:00 PM	Star City	Country Village BBQ	North Central District, AWW&WEA
18	12:30 PM	Walnut Ridge	Wonderful Chinese Buffet	Southeast District, AWW&WEA
25	6:00 PM	El dorado	Water Utility Mtg. Room	Northeast District, AWW&WEA
				Southwest District, AWW&WEA