



ARKANSAS DRINKING WATER UPDATE

SRF Applications Mailed

Teresa Lee, Engineer Supervisor

By now most of you have received your annual Drinking Water State Revolving Fund (SRF) application in the mail. The SRF program is a joint effort between the Arkansas Natural Resources Commission (ANRC) and the Arkansas Department of Health Engineering Section (ADH). The purpose of the program is to provide financing to community water systems and not-for-profit non-community water systems for infrastructure improvements that would enable systems to comply with the Safe Drinking Water Act.

If you are interested in obtaining an SRF loan, you will need to submit applications to both ANRC and ADH. The purpose of the application to ADH is to determine the eligibility and priority of the project. Eligible projects may include, but are not limited to, the installation and replacement of failing treatment facilities, storage facilities, and transmission and distribution systems. Projects to consolidate water systems may also be eligible. Priority is given to those eligible projects that address the most serious risks to human health, are necessary to ensure compliance with the requirements of the Safe Drinking Water Act, and assist systems most in need based on the State's determined affordability criteria.

Arkansas Natural Resources Commission administers the Loan Fund. The lending rate is determined at the time the loan is made, but as of this date, the lending rate is 1.5% for a ten-year repayment period, 2.5% for a twenty-year repayment period, and 3.0% for a thirty-year repayment period.

A portion of the Capitalization Grant issued by Congress to fund the SRF program must be used for principal forgiveness loans or additional subsidization. To be eligible to receive additional subsidization, a borrower must meet one of two requirements. The first requirement is the utility's current rate for 4,000 gallons of water per month on an annual basis must be equal to or greater than 1.5% of the Median Household Income (MHI) for the

project area. The second way in which a system can meet the requirements for additional subsidization is if 51% of the households in the project area have either Low or Moderate Income levels. If the system falls into this category, then the current rate for 4,000 gallons of water per month on an annual basis must be equal to or greater than 1.25% of the MHI. Recently McNeil, Winthrop, Chidester, Bradley, Stephens, Norman, Old Bella Vista, and Wilton received principal forgiveness loans totaling \$13,041,000.

In 2011, Congress required that the states reserve 20% of the SRF Capitalization Grant for "Green Project Reserve" projects. To be eligible for funding, it must be demonstrated that the project would conserve water based upon the current usage. Some of the projects were for 100% waterline replacements in systems that experienced greater than forty percent water loss. From 2011 through 2014, eleven water systems were funded using Green Project Reserve allocations. For the 2015 Capitalization Grant, infrastructure projects for Lockesburg, Strong, Thornton, and Waldo were approved to receive Green Project Reserve funds. More information is available in the Intended Use Plan and the State Revolving Loan Program SFY 2014 Annual Report. These reports are available on ANRC's website anrc.ark.org.

Many small public water systems find it difficult to obtain low interest loans for infrastructure improvements. The Drinking Water State Revolving Fund was set up to help small water systems find favorable funding. If you would like more information, please contact Teresa Lee at 501.661.2623.

Inside the <i>Update</i>	Page
Certificate of Excellence	2
Personal Protective Equipment	3
PWS Fee Update	4
Preparing For Winter	6
Licensing Committee Report	8

Certificate of Excellence

Delois Manor, Laboratory Manager



(Pictured from L to R: Richard Bonner, Yuling Ji, Delois Manor, Gordon Beeson, and Nathaniel Noble)

The Organic Chemistry Unit of the Arkansas Department of Health's Public Health Laboratory provides drinking water analyses as part of overall safe drinking water quality monitoring. The Organic Chemistry Unit has recently received a certificate of excellence from the Environmental Resource Associates (ERA) for passing WS-217 Proficiency Testing with a 100% pass rate. ERA provides proficiency testing standards, certified reference

materials and quality control standards for the Environmental Protection Agency (EPA)

laboratories as well as to waste facilities, medical and pharmaceutical facilities, etc.

The Organic Chemistry Unit is certified through EPA and must annually participate and successfully pass a water study sample for each method reported for compliance monitoring. Gordon Beeson, Richard Bonner, Yuling Ji, and Nathaniel Noble participated in ERA WS-217 proficiency study for Drinking Water Methods EPA 549.2, EPA 552.2, EPA ML525.2 and EPA 508, respectively.

All analysts, including analysts for methods requiring more than one analyst and each back-up analyst, must participate in a separate WS Study, which may require as many as three separate proficiencies per method within a calendar year. The Organic Chemistry Unit participates in WS studies for thirteen (13) methods: Ethylene Dibromide (EDBs) – EPA Method 504.1, Organonitrogen/Phosphorus Compounds (OGN) – EPA Method 507, Organochlorinated Pesticides (OGCs) – EPA Method 508, Chlorinated Phenolic Acid Herbicides (CPAHs) – EPA Method 515.4, Volatile Organic Compounds (VOCs) – EPA Method 524.2, Trihalomethanes (THMs) – EPA Method 524.2, Polyaromatic Hydrocarbons/Polycyclic Adipate Esters (PAH/PAEs) – EPA Method ML525.2, Carbamates (CARBs) – EPA Method 531.2, Glyphosates (GLYs) – EPA Method 547, Endothall (ENDOs) – EPA Method 548.1, Diquat/Paraquat (QUATs) – EPA Method 549.2, Haloacetic Acids (HAAs) – EPA Method 552.2 and Total Organic Carbon (TOCs) – Standard Method (SM)-5310C.

The Organic Chemistry Unit is committed to providing quality analytical data that is valid and defensible. These analytical results are used in making decisions to ensure that we keep Arkansas's hometowns healthy.

The Public Health Laboratory, which includes the Organic Chemistry Unit, performs analysis on approximately 75,000 drinking water samples a year.

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.

Personal Protective Equipment and the Wastewater Work Environment

Jeff Stone, P.E., Director, Engineering Section



Recent cases of a hemorrhagic fever in the United States (Ebola) have prompted a refocusing of attention upon pathogens found in wastewater and the need for some

wastewater workers to utilize personal protective equipment when performing work tasks that might bring them into contact with those pathogens. The refocusing of attention to this issue has served to remind the industry of the pathogenic nature of wastewater and to dispel complacency that may creep in over time regarding use of personal protective equipment (PPE).

Waterworks professional associations have been quick to respond to these concerns. On November 4, 2014, the Water Environment Federation sponsored a webcast titled "Wastewater Worker Safety - Addressing Concerns on Ebola in Wastewater." Also, on November 6, the American Waterworks Association sponsored a Webinar titled "Preparing for Ebola in the Water Sector". Slides from those presentations may be available from those sponsoring organizations. Notable facts as the issue now stands include: a) research is needed to more fully understand the relative persistence of Ebola virus in the wastewater environment; b) other pathogens are likely to be more persistent and c) only designated hospitals will treat Ebola patients when active infections are being treated.

While recent events have caused heightened concern, on an ongoing basis, wastewater workers also need to take proper safeguards to prevent exposure to more common pathogens found in wastewater. These include hepatitis, Norwalk virus, salmonella, cryptosporidium, and others. Sanitary sewer systems are the accepted and approved method of disposing of wastes such as feces, urine, vomit, and liquid waste from washing. Hospitals where infected persons are treated routinely

discharge wastewater into the sanitary sewer systems.

Fortunately, both personal protective equipment and information resources are available that enable wastewater utilities to conduct their work in a safe manner. A wastewater utility should not only provide workers with necessary personal protective equipment but also have a safety or risk management plan that provides detail concerning proper use of protective equipment. Training and supervision concerning the use of personal protective equipment is a necessary element of a safety/risk management plan.

With regards to Ebola specifically, on November 20, 2014, the Centers for Disease Control (CDC) issued guidance titled "Interim Guidance for Workers Handling Untreated Sewage from Ebola Cases in the United States". That guidance can be found here:

<http://www.cdc.gov/vhf/ebola/prevention/handling-sewage.html>

Also, OSHA has made a Fact Sheet available titled "Safe Handling, Treatment, Transport and Disposal of Ebola Contaminated Waste" and that fact sheet can be found here:

https://www.osha.gov/Publications/OSHA_FS-3766.pdf

It is expected that if a patient infected with Ebola virus were to be treated in the state of Arkansas, that treatment would most likely be at a hospital located in a larger metropolitan area. The Arkansas Department of Health and the Little Rock Wastewater Utility conducted a training session for utility employees on November 5, 2014. This training focused upon the use of personal protective equipment and included a demonstration concerning the donning and doffing of personal protective equipment. A video was recorded of this training and the utility has made this video available on YouTube and can be found here:

<https://www.youtube.com/watch?v=6c2jzfPmHos>

The training was conducted by Ms. Shirley Louie the Deputy State Epidemiologist at the Arkansas Department of Health and Mr. Alex Hill an epidemiologist working with Ms. Louie at the ADH. Important points made during this presentation include the importance of following prescribed steps in donning and doffing personal protective equipment and the importance of the procedure being observed and supervised by another employee. A copy of the slide show presentation utilized during this training session can be obtained by emailing a request to jeffery.stone@arkansas.gov

Public Water System Service Fee Update

Jeff Stone, P.E., Director

For almost three decades now, the Public Water System Service Fees (PWS Fees) have enabled the Engineering Section of the Arkansas Department of Health (ADH) to provide assistance to public water systems for the purpose of ensuring compliance with the federal Safe Drinking Water Act. Included in that assistance is water sample collection, laboratory analysis, and required reporting of results to the Environmental Protection Agency. However, sample collection and analysis is only one component of the services authorized by the Public Water System Service Fee Act (Arkansas Code 20-28- 101 to 106). Drinking water program activities/expenditures also authorized by the PWS Fee Act include: program staff salaries, water operator training, capital equipment, travel, training, public education, and well head protection activities.

The rate of the PWS Service Fee is set at \$0.30 per meter per month. The PWS Service Fees currently generate approximately \$4.1 million per year. This rate was last adjusted in 2007, almost 8 years ago. Since that time, low but consistent inflation has effectively reduced the purchasing power of the fee from \$0.30 per meter per month to about \$0.25 per meter per month. During this same time period, the cost of a greater portion of drinking water program activities has been shifted to federal grants such as the Drinking Water State Revolving Loan (SRF) Set Asides. The general expectation is that the funding levels for the SRF are likely to decrease in the future and thus drinking water program support from federal grants will similarly decrease.

During this same time period, the financial cost of providing sample collection and laboratory analyses has increased. Federal requirements that have increased program costs include the increased monitoring associated with the Stage 2 Disinfection By Product Rule, Unregulated Contaminant Monitoring Rules, and normal increases associated with supplies and salaries. Recently, the Engineering Section performed a review of the annual amount of sampling and analysis work that is performed and the corresponding private market value of this activity. To perform this review, the Engineering Section collected information regarding private laboratory prices for individual analyses and the shipping costs associated with individual samples of each type. A typical year of sampling volume was used to determine overall costs. This review was not only informative with regards to understanding the value of the services provided but also instructive regarding the specific efficiencies provided by the current centralized system. Also, this review clearly identified which components of federally required monitoring constitute the most expensive monitoring requirements and also which components are less costly requirements. Highlights of this review are as follows:

* In Arkansas, approximately 75,600 water samples per year are collected and analyzed in order to satisfy federal drinking water monitoring requirements. The market value of these analyses is estimated to total approximately \$3.5 million per year.

* Approximately 54,000 bacteriological drinking water samples are analyzed per year and, due to this high sample volume, bacteriological samples constitute the single most expensive analysis type at nearly \$1.8 million per year in market value.

* Approximately, 8600 samples are collected each year relating to required monitoring of disinfection by-products and total organic carbon. These analyses include THM, HAA5, and Total Organic Carbon (TOC). The market value of these analyses totals \$930,000 per year (\$0.93 million). As a group, this is the second most expensive analysis type.

* About 311 samples a year are collected to monitor for herbicides and pesticides in the drinking water (Synthetic Organic Chemicals, SOC). The market value of these analyses totals \$365,000 per year (\$0.365 million). SOCs constitute the third most expensive analysis group.

In general, analysis costs are estimated to be approximately ½ of the total market costs with shipping costs constituting the other half. The cost of shipping a drinking water sample to a private lab can frequently equal or exceed the cost of the analysis itself. This is due to the weight of the samples, many of which weigh several pounds, and often the need to have the sample delivered to a laboratory utilizing overnight shipping services. An attempt was made to estimate the costs of shipping for the various analysis types. It would appear that, statewide, the overall cost of shipping samples to laboratories would exceed the overall costs of analysis, totaling \$4 million to \$5 million. Currently, the ADH spends \$500,000 (\$0.5 million) to collect and transport approximately 75,600 water samples to the Public Health Laboratory utilizing the ADH courier system and a team of samplers working with Susan Corder, who supervises the monitoring effort. Susan Corder and the samplers coordinate sample collection according to appropriate sample collection schedules, in order to ensure compliance with federal monitoring requirements, and also coordinate with the availability of Public Health Lab capacity. Based upon the weight of typical water samples and the need to keep some sample types chilled and promptly delivered to the laboratory, it is estimated that this system saves millions of dollars in shipping costs.

ANALYTICAL ACTIVITY AND MARKET VALUE (ANNUAL)		
TYPE	# OF SAMPLES	VALUE OF ANALYSIS
COLIFORM	54,175	\$1,768,272
INORGANIC	261	\$32,625
SYNTHETIC ORGANIC	311	\$365,114
VOLATILE ORGANIC	555	\$55,916
TOTAL ORGANIC		
CARBON	1,028	\$25,895
THM	3,874	\$348,660
HAA5	3,699	\$554,850
CHLORATE/CHLORITE	514	\$41,120
NITRITE	85	\$2,040
NITRATE	1,181	\$17,845
LEAD	3,405	\$81,720
COPPER	3,078	\$49,248
FLUORIDE	1,388	\$26,372
ALPHA/BETA	451	\$18,040
RADIUM 226	300	\$21,000
RADIUM 228	300	\$21,000
URANIUM	305	\$10,675
TOTAL	74,910	\$3,440,392

provided does not include the value of the time other Engineering Section staff spends supporting public water system compliance through activities that include technical assistance, plan review, and training efforts unrelated to sample collection and analysis.

In the short term, the ADH continues to be able to meet its commitment to provide all analytical services necessary to demonstrate compliance with federal requirements. However, increasing costs combined with the effects of inflation and the expected changes to federal support will present challenges in the future. The ADH will continue to keep stakeholders and the regulated community updated regarding these issues.

Preparing for Winter Weather Woes

Robert Hart, PE, Technical Services Officer, Central Arkansas Water

The winter of 2013-2014 saw record cold temperatures across Arkansas, particularly in the months of December 2013 and January 2014. Just as many water utilities struggle during the hottest part of the summer to meet customer demands, winter weather can present its own set of difficult challenges for waterworks employees. Among the problems reported by Arkansas water systems last year as a result of the weather were water outages and water quality problems resulting from frozen pumps, frozen mains, power outages, and unintentional ice pigging.

Fundamentally, preparing for winter (or summer) should be a subset of emergency response preparedness, something that needs to be reviewed and updated on an ongoing basis by a water utility. There are a number of steps that both the utility and its customers can take in anticipation of winter weather.



Winter weather can bring power outages, frozen equipment, and impassable roads.

Customer Actions

While the majority of the work to maintain a continuous flow of water during freezing temperatures and freezing precipitation falls on the water system, the good news is that the customer can play a major role to assist.

Cold weather will frequently impact the service line or the interior plumbing of a home or business before affecting the water utility. The service line and plumbing are not the responsibility of the water system, but it is always beneficial to provide self-help tips to the customer. Specifically, beginning in the fall and throughout the winter, a water system should try to educate its customers on how to protect themselves from cold temperatures. This can be accomplished through bill stuffers and through public service announcements in area print, radio, and TV media. Tips should include covering outside faucets, leaving vulnerable faucet and plumbing lines running with a pencil-lead sized stream of water flowing, opening the lower cabinets for plumbing fixtures which are located on an exterior wall, and winterizing lawn irrigation systems.

Additionally, customers should be advised to know where the shutoff valve for the service line to their home or business is located so that the flow of water can be stopped if a pipe rupture should occur. If a frozen pipe does occur, instruct the consumer to never thaw the pipe with an open flame, but rather use a hairdryer or heat tape to slowly thaw the pipe and avoid damage.

For customers who do have a rupture of their service line or interior plumbing, water systems should consider a policy for a billing adjustment if excess water is used and if the customer can document legitimate repair expenses.

After the customer, there are a number of actions the water system itself should take in advance of winter weather. Regardless of the time of the year when you read this article, it is never too late (or too early) to start addressing them.

Administrative

- Establish or review your utility's policy on who has to report to work in inclement weather.
- Review personnel roles and responsibilities, and update the contact information for on-call and back-up personnel.
- Update contact information for key outside entities such as the electrical utility company; chemical suppliers; equipment suppliers; city, county and state emergency response agencies; and neighboring water utilities.
- Verify the operability of back-up communication devices such as CB radios, walkie talkies, satellite phones, etc.
- Review safety procedures with employees for vehicle driving, construction, and proper clothing protection in extreme cold, and snow and ice conditions.
- Prepare a supply of several days of nonperishable food to be stored at any utility facility that must operate 24 hours a day. Identify shelter provisions, if necessary.
- Review insurance policies for eligibility and reimbursement procedures.

Parts & Warehouse

- Ensure an adequate supply of gloves, deicer, sand, rock salt, and tire chains. Chains used from previous years should be inspected for wear and rust to ensure they don't break when most needed. Some chains have rubber retainers that will dry out and break when put under load.
- If a water system has bulk fuel storage, ensure that the tank is full or near full, and that in the event of a power outage, the fill station has a backup generator connection or a mechanical means to extract fuel.

Maintenance

- Check building heaters at all facilities to ensure their proper operation. This includes not only making sure the heater comes on when needed, but that it has a working thermostat and the proper safety overrides to turn-off the heater under excessive temperatures.
- Perform preventive maintenance and ensure the operability of critical equipment including stationary and portable generators, chain saws, pipe cutters, dewatering pumps, etc.
- Review work orders for the replacement of any missing meter box lids. Lack of a meter lid will increase the likelihood that the meter or service line will freeze.

Emergency Contacts

ADEM

The Arkansas Department of Emergency Management has an individual serving as a coordinator for each county. The contact information for those individuals can be found at ADEM's website: <http://www.adem.arkansas.gov/ADEM/Divisions/DM/LC/index.aspx>.

ARWARN

The Arkansas Water/Wastewater Agency Response Network is a voluntary coalition of utilities providing mutual aid and assistance. More information can be found at: <http://www.arwarn.org/>.

ADH

The Arkansas Department of Health's Communication Center operates 24 hours a day. Their phone number is 501-661-2136.

Vehicles & Engine Equipment

- Check radiator antifreeze as well as all other fluid levels.
- Check that the windshield wiper fluid is suitable for subfreezing temperatures.
- Check tire treads for wear and replace if necessary.
- Check the air pressure in tires.
- Ensure that critical vehicles are equipped with gloves, ice scrapers, jumper cables, and tire chains.
- Top off vehicle fuel tanks and any portable fuel tanks
- Ensure the air tanks for air-brake vehicles or trailers are purged of any moisture.
- If available, park vehicles under cover if significant snow or ice is expected.

Operations

- Have the necessary personnel and facilities including computers, heat, back-up generators, etc. to ensure that call centers and dispatch personnel can continue their operations in case of a power outage. Provide transportation to and from their homes for these key administrative personnel, if necessary
- Don't put off making repairs to significant main breaks in winter weather, particularly if the break or leak is affecting customer service or water quality, or is causing a traffic hazard.
- If there are long stretches of exposed water mains, such as a river crossing where an exposed main is attached to a bridge, and if extreme cold is expected, operate the pumps supplying those mains to ensure some water is kept moving through the main at all times; or if flow is stopped, it is only for a short period of time. This is particularly important at night.

- If a secure location is available and your service area is large, preposition critical equipment such as portable generators and backhoes to minimize the travel time with a heavy tow load.

Long Term & Off-Season Items

- Identify critical equipment and redundancy.
- Purchase equipment that experience has shown to be critical to your operations such as backup generators, chainsaws, specific tools, etc.
- Equip key facilities such as booster stations with properly constructed automatic transfer switches.
- When scheduled for routine replacement, specify four-wheel drive for critical vehicles.

Regardless of whether or not you've made any preparations for winter, customers expect their water service to be continuous. If it is not continuous, they will look to you for an explanation. Do yourself, and them, a favor by doing some preplanning. Emergency response is not a matter of 'if', only a question of 'when'.

Written by Robert Hart with assistance from Darrell Boggs, Terry Bice, David London, Doug Graham, and others with Central Arkansas Water.

REPORT OF THE Arkansas Drinking Water Advisory and Operator Licensing Committee

The Arkansas Drinking Water Advisory and Operator Licensing Committee held its quarterly meeting on October 2, 2014, in Lonoke, Arkansas. Committee members present were: Dr. Findlay Edwards, P.E., University of Arkansas; Tim Shaw, Community Water System; Stacy Cheevers, Beaver Water District; Roger Moren, Sardis Water Association; and Jeff Stone, P.E., Executive Secretary, Arkansas Department of Health (ADH). Committee members Matthew Dunn, P.E., Committee Chair, Crist Engineers, Inc.; and Bradley Scheffler, City of Piggott were unable to attend. ADH staff & guests present were Reginald Rogers, Deputy General Counsel, Martin Nutt, Training and Certification Officer, and Ida Hampton, Administrative Specialist, ADH; Randy Harper, Jonathan Richardson, and Jeremy Rowe, Arkansas Environmental Training Academy (AETA); and Jeff Ford, Arkansas Rural Water Association (ARWA).

Standing Business

Stone called the meeting to order in the absence of the Chair. The Committee reviewed and approved the minutes from the July 10, 2014, meeting. The Committee did not have a High School waiver to consider.

Old Business

Stone reminded the Committee the Chair Elect position was not filled at the July quarterly meeting. Shaw motioned to elect Edwards as Chair Elect, Cheevers provided the second, and the Committee elected Edwards.

Nutt provided the Committee a report concerning license exam and exam session changes. He stated the changes were implemented on July 1, 2014, the first round of exams were held in September 2014, all registered examinees were provided their requested exam, and five water operators without a reservation were not provided an exam. Nutt stated operators' exam holding times were documented, with most completing well within the three-hour time limit with four allowed extra time to complete the exam. Nutt indicated the passing rates for the revised exams were very poor with discussion following on possible reasons.

Nutt reported that the Applied Measurement Professionals (AMP) Assessment Center computer based exam administration was up and running on July 1, 2014. The first two operators took exams in August 2014, AMP has administered five exams with several additional registered for an exam at this time. Operators seem to be accepting of the computer based exam option as an alternative to waiting for paper exam sessions and then wait for results. He noted the pass/fail rates were similar to paper exams.

New Business

The Committee addressed attendance of the Association of Boards of Certification Annual Conference scheduled for January 13-16, 2015 in Long Beach, California. Stone indicated the Section was willing to fund the newest Committee member, Scheffler, to attend as an orientation to license program fundamentals and Nutt would be attending. Nutt noted Scheffler was aware of the conference and was considering attending. The Committee supported his attendance.

Nutt requested the Committee review the EPA OPCERT Guideline Report for SFY 2014. Nutt stated the report provides documentation that the Arkansas Water Operator Licensing Program was meeting the nine EPA established Certification Program Guidelines. He noted the report was submitted to EPA in late August, EPA had acknowledged receipt, and he was awaiting EPA Region 6's concurrence with the report. Nutt then briefly reviewed the report and the Committee accepted it.

Nutt provided the Committee a draft of the combined 2015 Mandatory Training Calendar for ARWA, AETA, and ADH. Nutt indicated he did not have a final training schedule from ARWA. Ford indicated the ARWA Training Calendar was forthcoming. Nutt indicated mandatory training was reduced from the 2014 calendar but still felt adequate training was available considering the internet available courses. Nutt noted the final 2015 Training Calendar would be available on the ADH Engineering/Water Licensing web site.

Nutt provided the Water Operator License Examinations December 2014 – December 2015 schedule. Sites utilized are confirmed for each quarterly exam session. Nutt stated ARWA requested an exam session for their 2015 Conference, that he would add it to the list, and with that addition considered the list complete. He noted it was already available on the Section's website.

Committee Reports

Stone reported the Engineering Section budget is sound for SFY15, he provided budget background, and noted where he sees Engineering's budget going. Engineering gets funding from a half dozen sources; with about 40% of Engineering Section funds from PWS fees, 50% comes from Federal government grants, and 10% comes from State General Revenues. Stone then reviewed the effect inflation has had on our present PWS Fee funds decreasing the fees' purchasing power from 30 cents to around 25 cents per meter. He also noted the economy downturn also affected revenue growth due to far fewer new service connections and Federal grants have flatlined with inflation reducing their purchasing power as well. He expects the need to increase fees or decrease services in SFY 2017, with it being very difficult to predict to what level state and federal revenues will continue to be funded.

Stone in his General Program report reviewed the Section's initial efforts to obtain EPA primary enforcement (primacy) approval for the SDWA Revised Total Coliform Rule (RTCR). The RTCR requirements become effective in 2016. Lance Jones, Engineering Section's Chief Engineer, is coordinating the approval effort. He has worked with Rogers to get needed enforcement capability documentation from the Attorney General's office and Jones plans to initiate the primacy application process with EPA before the end of the year. The Section's implementation of the RTCR requirement will utilize 2015 to prepare Water Systems and Section staff to meet the RTCR sampling procedures and assessment requirements by requiring systems to meet both the present enforceable Total Coliform Rule and the non-enforceable RTCR requirements. This should make the transition to the required enforcement of the RTCR in 2016 result in fewer initial enforcement violations. Stone stated that every quarterly newsletter will have an update on the implementation of the RTCR.

Stone reported Tommy Johnson, Engineering Section's Cross Connection Control Engineer, would be assisting Protective Health Codes in their backflow protection device testing and device repair certification exams. He noted ARWA and AETA provides training in that area and Johnson has been familiarizing himself with the overall process by interacting with the training groups and Protective Health Codes' staff. Johnson will attend the nationally recognized University of Florida, Training, Research and Education for Environmental Occupations (UF TREEO) Cross-Connection Control and Backflow Prevention Training in early 2015. Johnson will then work with the AETA, ARWA and Protective Health Codes in the spring of 2015 to update the backflow certification exam item-banks and exams.

Stone announced he would be serving on the board of the Association of Safe Drinking Water Act Administrators. He will be representing EPA Region 6 states for calendar years 2015 and 2016.

Nutt in his Training & Certification Officer's report provided a handout to the Committee concerning license exam results updated through the first week of September 2014 exams. He noted the new quarterly testing concept was being incorporated into the spreadsheet. Nutt reviewed the results from the first week of quarterly testing. He also provided the individual mastery reports for each examinee due to the very low passing rate on the ABC standardized exams. The Committee then discussed with Nutt his and their concerns and perceptions for the poor performance. Nutt concluded by reporting on an ABC exam development workshop he attended in September. He noted this workshop was the first step of many by ABC to develop new versions of all treatment and distribution exams. Subsequent steps will offer Arkansas operators the opportunity to provide incumbent experience through task surveys to establish new ABC exam need-to-know criteria. The criteria are used to determine exam item topics.

Nutt in his enforcement effort report provided a handout to the Committee detailing enforcement actions taken. Nutt explained his comments on the handout concerning the water systems listed and noted none are in jeopardy of an Administrative order or hearing. The worst system on the list, Bealuh Grove Water Association, has received funding to replace their water distribution system provided another water system accepts ownership of the system.

Rowe provided the AETA quarterly training report. He stated the Water Training Program had 14 training sessions including internet sessions and trained 115 students. Backflow has done 12 sessions and trained 100 students. A discussion followed on the procedures operators follow when taking AETA internet classes.

Ford provided the ARWA quarterly training report. He provided a handout to the Committee from Sternberg concerning ARWA Water classes for January thru September 2014 with a total of 2,330 attending classes, workshops, and their annual conference. He noted the ARWA Annual Technical Conference in September had a great turn out this year in Hot Springs, AR.

Other Business

The Committee confirmed their next meeting date for January 8, 2015 and concluded the meeting.

Water Operator Licenses Issued JUNE 1, 2014 THROUGH AUGUST 31, 2014		
LICENSEE NAME	GRADE/TYPE	WATER SYSTEM NAME
BENJAMIN MARCUS	T - III	CENTRAL ARKANSAS WATER
BOUGHTON JEREMY	T - III	PERRYVILLE WATERWORKS
BROWN TONY	T - IV	SILOAM SPRINGS WATERWORKS
CHRISMAN ADAM	T - II	CLARKSVILLE WATERWORKS
COATS THOMAS	D - I	CRAWFORDSVILLE WATERWORKS
GORSZCZYK STEVEN	D - IV & T - IV	SILOAM SPRINGS WATERWORKS
GRAEFE JEFFERY	D - II	OZARK ACRES WATER ASSOCIATION
HALL MICHAEL	D - IV	CITY CORPORATION
MARTIN MATTHEW	T - II	MARION COUNTY REG WATER DIST
SHOOK DANNY	D - IV	CLARKSVILLE WATERWORKS
VAN ASSCHE PATRICK	D - II	BAXTER-MARION REGIONAL WATER ASSN
WALLACE KASSIM	D - IV	FORT SMITH WATER UTILITIES
YATES JEFFERY	D - IV	HOPE WATER LIGHT COMM

Computer Based Water License Exams

Computer-based Arkansas Water Operator License Examinations are available utilizing Applied Measurement Professionals (AMP) Assessment Centers (www.goamp.com). To utilize AMP, contact the Water Operator Licensing Program to start the process. To schedule an exam utilizing AMP, the License Program must be in receipt of the examinee's Water Operator License application, required License and Exam fees paid, and the mandatory training requirements documented as met.

This is an optional method of examination with an additional administration fee of \$64.00 per exam. This option allows scheduling exams with a large degree of flexibility as to day of the week (open Monday through Saturday) and time of day. The Licensing Program will arrange for AMP to contact the examinee. AMP will provide needed information and directions to schedule the computer-based exam. The AMP computer based exam administration fee of \$64.00 paid directly to AMP when the exam is scheduled. Scheduling takes 1-2 weeks of lead-time.

The exams are administered via computer terminals in an AMP Assessment Centers; they are not paper based. AMP provides a paper copy of the ABC exam formula sheet and scratch paper. A practice exam to become familiar with the computer process is available at the time of examination. The process is user friendly with the examination graded immediately after the exam conclusion. AMP furnishes the Licensing Program your exam results.

AMP has examination centers in Fayetteville, AR; Little Rock, AR; Memphis, TN; Jackson, MS; Shreveport, LA; Tulsa, OK; Springfield, MO; with other Centers throughout the nation. For additional site information, examination concepts, and examination procedures, see AMP's website, www.goamp.com. Under Candidates (exam taker), click/select "Get Started". I suggest you review the Arkansas handbook, view the "What To Expect" video, and review the "General Recommendations" before you Schedule an Exam.

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.

(Please note all mandatory courses begin at 8:00 a.m.)

Mandatory Course Name	Start Date	Ending Date	Time	CITY	LOCATION	SPONSOR
Basic Water Treatment	01/02/15	01/16/15	TBD	Internet	http://www.sautech.edu/aeta/schedule.aspx	AETA
Basic Water Math	01/06/15	01/06/15	8:00 AM	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	ARWA
ADH PWS Compliance	01/07/15	01/07/15	8:00 AM	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	ADH
Applied Water Math	01/08/15	01/08/15	8:00 AM	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	ARWA
Basic Water Distribution	01/16/15	01/30/15	TBD	Internet	http://www.sautech.edu/aeta/schedule.aspx	AETA
Basic Distribution	01/20/15	01/22/15	8:00 AM	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	ARWA
Basic Water Math	01/20/15	01/20/15	8:00 AM	Camden	AR Env Training Academy, 100 Carr Road	AETA
Applied Water Math	01/21/15	01/21/15	8:00 AM	Camden	AR Env Training Academy, 100 Carr Road	AETA
ADH PWS Compliance	01/22/15	01/22/15	8:00 AM	Camden	AR Env Training Academy, 100 Carr Road	ADH
Intermediate Water Distribution	01/27/15	01/29/15	8:00 AM	N Little Rock	CAW Maryland Complex, 1500 W Maryland Ave	AETA
Basic Water Treatment	02/02/15	02/04/15	8:00 AM	Blytheville	Cotton Boll Technical Institute, 155 and HWY 148	AETA
Intermediate Water Treatment	02/02/15	02/15/15	TBD	Internet	http://www.sautech.edu/aeta/schedule.aspx	AETA
Intermediate Distribution	02/03/15	02/05/15	8:00 AM	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	ARWA
Basic Water Math	02/10/15	02/10/15	8:00 AM	Jonesboro	Jonesboro CWL Office Training Rm, 400 E Monroe	AETA
Applied Water Math	02/11/15	02/11/15	8:00 AM	Jonesboro	Jonesboro CWL Office Training Rm, 400 E Monroe	AETA
ADH PWS Compliance	02/12/15	02/12/15	8:00 AM	Jonesboro	Jonesboro CWL Office Training Rm, 400 E Monroe	ADH
Intermediate Water Distribution	02/16/15	02/28/15	TBD	Internet	http://www.sautech.edu/aeta/schedule.aspx	AETA
Basic Water Distribution	02/17/15	02/19/15	8:00 AM	Blytheville	Cotton Boll Technical Institute, 155 and HWY 148	AETA
Basic Water Treatment	02/24/15	02/26/15	8:00 AM	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	ARWA
Intermediate Water Treatment	02/24/15	02/26/15	8:00 AM	Lowell	Beaver Water Dist, 301 N Primrose Rd	AETA
Advanced Water Treatment	03/02/15	03/16/15	TBD	Internet	http://www.sautech.edu/aeta/schedule.aspx	AETA
Basic Water Distribution	03/03/15	03/05/15	8:00 AM	Rogers	Rogers Water Utilities, 521 S 2 nd St	AETA
Basic Water Math (Night Class)	03/09/15	03/12/15	TBA	Fort Smith	Fort Smith Utilities, 3900 Kelly Hwy	AETA
Advanced Water Distribution	03/16/15	03/30/15	TBD	Internet	http://www.sautech.edu/aeta/schedule.aspx	AETA
Basic Water Distribution	03/17/15	03/19/15	8:00 AM	Russellville	Tri-County Water, 5306 N Arkansas Ave	AETA
Basic Water Math	03/17/15	03/17/15	8:00 AM	Mtn. Home	Charles R Newton Emer Serv Trng Center, Midway	ARWA
ADH PWS Compliance	03/18/15	03/18/15	8:00 AM	Mtn. Home	Charles R Newton Emer Serv Trng Center, Midway	ADH
Applied Water Math	03/19/15	03/19/15	8:00 AM	Mtn. Home	Charles R Newton Emer Serv Trng Center, Midway	ARWA
Applied Water Math (Night Class)	03/23/15	03/26/15	TBA	Fort Smith	Fort Smith Utilities, 3900 Kelly Hwy	AETA
Basic Water Math	03/24/15	03/24/15	8:00 AM	N Little Rock	CAW Maryland Complex, 1500 W Maryland Ave	AETA
Intermediate Water Treatment	03/24/15	03/26/15	8:00 AM	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	ARWA
Applied Water Math	03/25/15	03/25/15	8:00 AM	N Little Rock	CAW Maryland Complex, 1500 W Maryland Ave	AETA
ADH PWS Compliance	03/26/15	03/26/15	8:00 AM	N Little Rock	CAW Maryland Complex, 1500 W Maryland Ave	ADH
Advanced Water Distribution	03/30/15	04/01/15	8:00 AM	N Little Rock	CAW Maryland Complex, 1500 W Maryland Ave	AETA
Basic Water Math	04/01/15	04/15/15	TBD	Internet	http://www.sautech.edu/aeta/schedule.aspx	AETA
Intermediate Water Distribution	04/07/15	04/09/15	8:00 AM	Fayetteville	Utilities Operations Center, 2435 S Industrial Dr	AETA
Basic Water Treatment	04/14/15	04/16/15	8:00 AM	Springdale	Springdale Water Training Facility, 525 Oak Ave	AETA
Applied Water Math	04/16/15	04/30/15	TBD	Internet	http://www.sautech.edu/aeta/schedule.aspx	AETA
Basic Water Math	04/27/15	04/27/15	8:00 AM	Hot Springs	AWW&WEA Conf, HS Convention Center	AETA
ADH PWS Compliance	04/28/15	04/28/15	8:00 AM	Hot Springs	AWW&WEA Conf, HS Convention Center	ADH
Advanced Water Treatment	04/28/15	04/30/15	8:00 AM	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	ARWA
Applied Water Math	04/28/15	04/28/15	8:00 AM	Hot Springs	AWW&WEA Conf, HS Convention Center	AETA
Basic Water Treatment	05/01/15	05/15/15	TBD	Internet	http://www.sautech.edu/aeta/schedule.aspx	AETA
Advanced Water Dist (Night Class)	05/05/15	05/20/15	TBD	Fort Smith	Fort Smith Utilities, 3900 Kelly Hwy	AETA
Basic Distribution	05/05/15	05/07/15	8:00 AM	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	ARWA
Basic Water Distribution	05/15/15	05/30/15	TBD	Internet	http://www.sautech.edu/aeta/schedule.aspx	AETA
Advanced Distribution	05/19/15	05/21/15	8:00 AM	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	ARWA
Basic Water Treatment	05/19/15	05/21/15	8:00 AM	Camden	AR Env Training Academy, 100 Carr Road	AETA
Intermediate Water Distribution	05/26/15	05/28/15	8:00 AM	Blytheville	Blytheville Waterworks, 1301 June Gosnell Dr	AETA
Intermediate Water Treatment	06/01/15	06/15/15	TBD	Internet	http://www.sautech.edu/aeta/schedule.aspx	AETA
Basic Water Math	06/02/15	06/02/15	8:00 AM	Fayetteville	Utilities Operations Center, 2435 S Industrial Dr	AETA
Applied Water Math	06/03/15	06/03/15	8:00 AM	Fayetteville	Utilities Operations Center, 2435 S Industrial Dr	AETA
ADH PWS Compliance	06/04/15	06/04/15	8:00 AM	Fayetteville	Utilities Operations Center, 2435 S Industrial Dr	ADH
Basic Water Treatment	06/09/15	06/11/15	8:00 AM	Mtn. Home	Charles R Newton Emer Serv Trng Center, Midway	ARWA

Mandatory Course Name	Start Date	Ending Date	Time	CITY	LOCATION	SPONSOR
Intermediate Water Treatment	06/09/15	06/11/15	8:00 AM	Camden	AR Env Training Academy, 100 Carr Road	AETA
Advanced Water Treatment	06/16/15	06/18/15	8:00 AM	N Little Rock	CAW Maryland Complex, 1500 W Maryland Ave	AETA
Intermediate Water Distribution	06/16/15	06/30/15	TBD	Internet	http://www.sautech.edu/aeta/schedule.aspx	AETA
Basic Water Distribution	06/29/15	07/01/15	8:00 AM	Camden	AR Env Training Academy, 100 Carr Road	AETA
Advanced Water Treatment	07/01/15	07/15/15	TBD	Internet	http://www.sautech.edu/aeta/schedule.aspx	AETA
Basic Water Math	07/07/15	07/07/15	8:00 AM	Clarksville	CLW (Operations Bld) 710 East Main (Hwy 64 East)	ARWA
Intermediate Water Treatment	07/07/15	07/09/15	8:00 AM	Jonesboro	Jonesboro CWL Office Training Rm, 400 E Monroe	AETA
ADH PWS Compliance	07/08/15	07/08/15	8:00 AM	Clarksville	CLW (Operations Bld) 710 East Main (Hwy 64 East)	ADH
Applied Water Math	07/09/15	07/09/15	8:00 AM	Clarksville	CLW (Operations Bld) 710 East Main (Hwy 64 East)	ARWA
Advanced Water Distribution	07/16/15	07/30/15	TBD	Internet	http://www.sautech.edu/aeta/schedule.aspx	AETA
Basic Water Math	07/21/15	07/21/15	8:00 AM	Greers Ferry	Community Water System, 299 Lakeshore Drive	AETA
Applied Water Math	07/22/15	07/22/15	8:00 AM	Greers Ferry	Community Water System, 299 Lakeshore Drive	AETA
ADH PWS Compliance	07/23/15	07/23/15	8:00 AM	Greers Ferry	Community Water System, 299 Lakeshore Drive	ADH
Intermediate Water Distribution	07/28/15	07/30/15	8:00 AM	Camden	AR Env Training Academy, 100 Carr Road	AETA
Basic Water Math	08/03/15	08/16/15	TBD	Internet	http://www.sautech.edu/aeta/schedule.aspx	AETA
Intermediate Water Treatment	08/04/15	08/06/15	8:00 AM	Mtn. Home	Charles R Newton Emer Serv Trng Center, Midway	ARWA
Basic Water Math	08/11/15	08/11/15	8:00 AM	Springdale	Springdale Water Training Facility, 525 Oak Ave	ARWA
ADH PWS Compliance	08/12/15	08/12/15	8:00 AM	Springdale	Springdale Water Training Facility, 525 Oak Ave	ADH
Applied Water Math	08/13/15	08/13/15	8:00 AM	Springdale	Springdale Water Training Facility, 525 Oak Ave	ARWA
Applied Water Math	08/17/15	08/31/15	TBD	Internet	http://www.sautech.edu/aeta/schedule.aspx	AETA
Advanced Water Treatment	08/18/15	08/20/15	8:00 AM	Lowell	Beaver Water Dist, 301 N Primrose Rd	AETA
Basic Water Treatment	08/25/15	08/27/15	8:00 AM	N Little Rock	CAW Maryland Complex, 1500 W Maryland Ave	AETA
Basic Water Treatment	09/01/15	09/15/15	TBD	Internet	http://www.sautech.edu/aeta/schedule.aspx	AETA
Basic Water Math	09/08/15	09/08/15	8:00 AM	Camden	AR Env Training Academy, 100 Carr Road	AETA
Basic Water Math (Night Class)	09/08/15	09/11/15	TBD	Fort Smith	Fort Smith Utilities, 3900 Kelly Hwy	AETA
Applied Water Math	09/09/15	09/09/15	8:00 AM	Camden	AR Env Training Academy, 100 Carr Road	AETA
ADH PWS Compliance	09/10/15	09/10/15	8:00 AM	Camden	AR Env Training Academy, 100 Carr Road	ADH
Advanced Water Treatment	09/15/15	09/17/15	8:00 AM	Greers Ferry	Community Water System, 299 Lakeshore Drive	AETA
Basic Water Distribution	09/16/15	09/30/15	TBD	Internet	http://www.sautech.edu/aeta/schedule.aspx	AETA
Applied Water Math (Night Class)	09/22/15	09/25/15	TBD	Fort Smith	Fort Smith Utilities, 3900 Kelly Hwy	AETA
Intermediate Distribution	09/22/15	09/24/15	8:00 AM	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	ARWA
Intermediate Water Distribution	09/22/15	09/24/15	8:00 AM	Rogers	Rogers Water Utilities, 521 S 2 nd St	AETA
Advanced Water Distribution	09/29/15	10/01/15	8:00 AM	N Little Rock	CAW Maryland Complex, 1500 W Maryland Ave	AETA
Intermediate Water Treatment	10/01/15	10/15/15	TBD	Internet	http://www.sautech.edu/aeta/schedule.aspx	AETA
Advanced Water Treatment	10/06/15	10/08/15	8:00 AM	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	ARWA
Intermediate Water Treatment	10/06/15	10/08/15	8:00 AM	Russellville	Tri-County Water, 5306 N Arkansas Ave	AETA
Advanced Water Distribution	10/13/15	10/15/15	8:00 AM	Springdale	Springdale Water Training Facility, 525 Oak Ave	AETA
Intermediate Water Distribution	10/16/15	10/30/15	TBD	Internet	http://www.sautech.edu/aeta/schedule.aspx	AETA
Basic Water Math	10/20/15	10/20/15	8:00 AM	Hot Springs	HS Transportation Depot, 100 Broadway Terrace	AETA
Applied Water Math	10/21/15	10/21/15	8:00 AM	Hot Springs	HS Transportation Depot, 100 Broadway Terrace	AETA
ADH PWS Compliance	10/22/15	10/22/15	8:00 AM	Hot Springs	HS Transportation Depot, 100 Broadway Terrace	ADH
Advanced Water Treatment	11/02/15	11/15/15	TBD	Internet	http://www.sautech.edu/aeta/schedule.aspx	AETA
Basic Water Distribution	11/03/15	11/05/15	8:00 AM	Camden	AR Env Training Academy, 100 Carr Road	AETA
Intermediate Water Treatment	11/10/15	11/12/15	8:00 AM	Maumelle	Wastewater Plant Training Rm, 425 B Hyman Drive	AETA
Advanced Water Distribution	11/16/15	11/30/15	TBD	Internet	http://www.sautech.edu/aeta/schedule.aspx	AETA
Advanced Distribution	11/17/15	11/19/15	8:00 AM	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	ARWA
Advanced Water Treatment	11/17/15	11/19/15	8:00 AM	N Little Rock	CAW Maryland Complex, 1500 W Maryland Ave	AETA
Applied Water Math	12/01/15	12/15/15	TBD	Internet	http://www.sautech.edu/aeta/schedule.aspx	AETA
Basic Water Math	12/01/15	12/15/15	TBD	Internet	http://www.sautech.edu/aeta/schedule.aspx	AETA
Basic Water Math	12/01/15	12/01/15	8:00 AM	Fayetteville	Utilities Operations Center, 2435 S Industrial Dr	AETA
Applied Water Math	12/02/15	12/02/15	8:00 AM	Fayetteville	Utilities Operations Center, 2435 S Industrial Dr	AETA
ADH PWS Compliance	12/03/15	12/03/15	8:00 AM	Fayetteville	Utilities Operations Center, 2435 S Industrial Dr	ADH
Intermediate Water Distribution	12/08/15	12/10/15	8:00 AM	Russellville	Tri-County Water, 5306 N Arkansas Ave	AETA
Advanced Water Treatment	12/15/15	12/17/15	8:00 AM	Camden	AR Env Training Academy, 100 Carr Road	AETA
Basic Water Math	12/15/15	12/15/15	8:00 AM	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	ARWA
ADH PWS Compliance	12/16/15	12/16/15	8:00 AM	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	ADH
Applied Water Math	12/17/15	12/17/15	8:00 AM	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	ARWA

The most current Mandatory Training Schedule with location information is available at
<http://www.healthy.arkansas.gov/eng/autoupdates/oper/mandtrngall.htm>

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 presently scheduled. 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
3/6/2015	1/20/15	Fayetteville	Fayetteville Operations Center, 2435 S Industrial Dr	9:00 AM
3/6/2015	1/20/15	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	9:00 AM
3/6/2015	1/20/15	Mtn. Home	Baxter Co OEM Training Facility, 170 Dillard Dr, Midway	9:00 AM
3/13/2015	1/27/15	Camden	AR Environmental Training Academy, 100 Carr Road	9:00 AM
3/13/2015	1/27/15	Clarksville	CLW (Operations Bld) 710 East Main (Hwy 64 East)	9:00 AM
3/13/2015	1/27/15	Jonesboro	Jonesboro CWL Office Training Rm, 400 E Monroe	9:00 AM
4/29/2015	3/15/15	Hot Springs	AWW&WEA Annual Conf, HS Convention Center	9:00 AM
6/5/2015	4/21/15	Fayetteville	Fayetteville Operations Center, 2435 S Industrial Dr	9:00 AM
6/5/2015	4/21/15	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	9:00 AM
6/5/2015	4/21/15	Nashville	Carter Day Center, 200 Nichols Drive	9:00 AM
6/12/2015	4/28/15	Camden	AR Environmental Training Academy, 100 Carr Road	9:00 AM
6/12/2015	4/28/15	Clarksville	CLW (Operations Bld) 710 East Main (Hwy 64 East)	9:00 AM
6/12/2015	4/28/15	Jonesboro	Jonesboro CWL Office Training Rm, 400 E Monroe	9:00 AM
9/4/2015	7/21/15	Fayetteville	Fayetteville Operations Center, 2435 S Industrial Dr	9:00 AM
9/4/2015	7/21/15	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	9:00 AM
9/4/2015	7/21/15	Mtn. Home	Baxter Co OEM Training Facility, 170 Dillard Dr, Midway	9:00 AM
9/11/2015	7/28/15	Camden	AR Environmental Training Academy, 100 Carr Road	9:00 AM
9/11/2015	7/28/15	Clarksville	CLW (Operations Bld) 710 East Main (Hwy 64 East)	9:00 AM
9/11/2015	7/28/15	Jonesboro	Jonesboro CWL Office Training Rm, 400 E Monroe	9:00 AM
9/16/2015	8/2/2015	Hot Springs	ARWA Conference, HS Convention Center	9:00 AM
12/4/2015	10/20/15	Fayetteville	Fayetteville Operations Center, 2435 S Industrial Dr	9:00 AM
12/4/2015	10/20/15	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	9:00 AM
12/4/2015	10/20/15	Nashville	Carter Day Center, 200 Nichols Drive	9:00 AM
12/11/2015	10/27/15	Camden	AR Environmental Training Academy, 100 Carr Road	9:00 AM
12/11/2015	10/27/15	Clarksville	CLW (Operations Bld) 710 East Main (Hwy 64 East)	9:00 AM
12/11/2015	10/27/15	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 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.

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 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, July = Oct. 2014

ADC CUMMINS	CCR 7, DBPR8, BMCL 9	FOUKE WATERWORKS	Bmon 7, 8, 9
ALMA WATERWORKS	SWTR 9	FOUKE WATERWORKS	CCR 7, PN 7
ADC IZARD COUNTY	CCR 7.Bmon3	FRENCHPORT WATER ASSOC	CCR 7, PN7
ASP QUEEN WILHELMINA	BMCL7, SWTR8	GILLHAM WATERWORKS	BMCL 7
ASP MT MAGAZINE	PN 9	GILMORE WATERWORKS	Bmon 8, CCR 7
AUTUMN ACRES MHP	CCR 7	GLENHAVEN YOUTH RANCH	Bmon 7
BARKADA WATER ASSOC	Bmon 9	GRAND PRAIRIE REGIONAL WATER	BMCL 7, 9
BASSETT WATERWORKS	CCR 7	HACKETT WATERWORKS	DBPR 7, 8, 9
BATTS-LAPILE WATER ASSOC	CCR 7	HARTFORD WATERWORKS	CCR 7, Bmon 8
BAUXITE WATER	Oper Lic 7	HERMITAGE WATERWORKS	Bmon 7 DBPR 7
BAY WATERWORKS	CCR 7	HOSANNA HEIGHTS WATER	BMCL 9
BELLEFONTE WATER	BMCL 8	HOUSTON WATERWORKS	CCR 7
BEULAH GROVE	Bmon 7, 8, 9	HUMNOKE WATERWORKS	CCR 7
BEULAH GROVE	DBPR 7, 8, 9	HWY 4 24 WATER ASSOC	DBPR 7, 8, 9
BIGGERS BLUFF DEVELOPMENT	Bmon 7,8, CCR 7	HWY 82 WATER ASSOC	CCR 7
BIGGERS BLUFF DEVELOPMENT	CCR 7	HWY 9 WATER ASSOC	Bmon 9
BIGGERS WATERWORKS	Bmon 9, CCR 7	JOHNSON TWP WATER ASSOC	Bmon 8, 9
BLACK OAK WATERWORKS	CCR 7,	JOHNSON TWP WATER ASSOC	BMCL 8
BLACK ROCK WATER	Bmon 9	JOINER WATERWORKS	CCR 7
BLUE MOUNTAIN WATERWORKS	DBPR 7, 8, 9	KENSETT WATERWORKS	Bmon 8
BODCAW RURAL WATER SYSTEM	DBPR 7, 8, 9	LAKE BULL SHOALS ESTATES	CCR 7
BONANZA WATERWORKS	Bmon 9	LAKE CHICOT WATER ASSOC	Bmon 9
BOYDELL WATER ASSOCIATION	BMCL 7	LAKE FOREST SUBORDINATE DIST	Bmon 7
BRANCH WATERWORKS	BMCL 8	LAURELWOOD HOA	BMCL 7
BRECKENRIDGE-UNION WA	CCR 7	LAWRENCE CO RWD	BMCL 7
BRUNO PYATT SCHOOL	Bmon 9	LEISURE HILLS MHP	BMCL 7 DBPR 8
BRYANT WATERWORKS	BMCL 7	LINCOLN WATERWORKS	BMCL 9
BUENA VISTA-OGEMAW WA	DBPR 7	LITTLE RIVER CO RDA	DBPR 7, 8, 9
CALHOUN COUNTY WA	CCR 7	LITTLE RIVER COUNTRY CLUB	CCR 7
CALION WATERWORKS	BMCL 8	LYDESDALE WATER ASSOC	Bmon 9
CHAMBERLYNE COUNTRY CLUB	CCR 7	MCCRAE WATERWORKS	CCR 7
CHESTER WATERWORKS	Bmon 8	MONTGOMERY CO PWA	DPBR 7, 8, 9
CLARKSVILLE WATERWORKS	Bmon 9	MOUNT IDA WATERWORKS	DBPR 7, 8, 9
COLLINS WATER ASSOC	CCR 7	MOUNTAIN HOME WATERWORKS	BMCL 7
COMPTON WATERWORKS	CCR 7	N GARLAND CO RWD	BMCL 9
CONCORD WATER&SEWER PFB	CCR 7	NAIL-SWAIN WATER ASSOC	CCR 7
COTTON PLANT WATERWORKS	BMCL 8, 9	NEW LONDON WATER ASSOC	BMCL 8 Bmon 9
COTTON PLANT WATERWORKS	GWR 9, CCR 7	N HOWARD RURAL WATER ASSOC	CCR 7
CUSHMAN WATER SYSTEM	Bmon 8, 9	NORTH LAGRUE WATER ASSOC	CCR 7
DERMOTT WATERWORKS	CCR 7	NORTHEAST DEWITT WA	CCR 7
DOVER WATERWORKS	BMCL 8	NSC INTERNATIONAL	Bmon 8, 9
DOVER WATERWORKS	Bmon 8	OLD UNION WATER ASSOC	DBPR 7, 8, 9
DYER WATERWORKS	CCR 7	PANGBURN WATERWORKS	Bmon 7
EAST MONROE CO WATER USERS	CCR 7	PARIS WATERWORKS	CCR 7
EMERSON WATERWORKS	BMCL 8	PARKIN WATERWORKS	BMCL 9
EVERGREEN PACKAGING INC	Bmon 8	PENDLETON-PEA RIDGE WA	CCR 7
FORDYCE RURAL WATER ASSOC	CCR 7	PERRYVILLE WATERWORKS	BMCL 7
FORDYCE WATER COMPANY	CCR 7	PORTLAND WATERWORKS	Bmon 8
FORDYCE WATER COMPANY	CCR 7	PRAIRIE GROVE WATERWORKS	BMCL 9
		PYATT WATERWORKS	Bmon 9
		SANDRIDGE-BARDSTOWN WA	CCR 7
		SHANNON HILLS WATER DEPT	Bmon 7

SOUTH LOGAN COUNTY WATER	DBPR 7, 8, 9
SOUTHWEST ARKANSAS WATER	DBPR 7, 8, 9
SOUTHWEST WATER ASSOC	BMCL 9
ST FRANCIS WATER SYSTEM	BMCL 7
STAR CITY WATERWORKS	BMCL 8, 9
STEPHENS WATERWORKS	Bmon 8
TAYLOR WATERWORKS	BMCL 8, Bmon 9
THE GREAT PASSION PLAY	BMCL 8
THORNTON WATERWORKS	BMCL 7
TRI-COUNTY WATER DISTBR DIST	DBPR 7, 8, 9
UNITED WATER ASSOC	CCR 7
WABBESEKA WATERWORKS	CCR 7
WALDRON WATERWORKS	BMCL 7
WALKER WATER ASSOC	BMCL 9 GWR 9
WARD MHP	CCR 7, PN 7
WATSON WATERWORKS	Bmon 7
WIEDERKEHR VILLAGE WD	Bmon 7 DBPR 7
WIEDERKEHR VILLAGE WD	PN 7, 9
WILLIFORD WATERWORKS	CCR 7.BMCL 9
WILMOT WATERWORKS	Bmon 7
WILSON GUN SHOP INC	BMCL 7
WILTON WATERWORKS	Bmon 8, GWR 9
WILTON WATERWORKS	BMCL 9
WINTHROP WATER ASSOC	SWTR 8
WOOSTER WATERWORKS	Bmon 8, 9

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; 7 = July 2014, 8 = August. 2014, 9 =September 2014

Arkansas Water & Wastewater Managers Association Annual Meeting

**July 15 - 18, 2015 – Chateau on the Lake – Branson,
MO**

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.

Arkansas Water Works & Water Environment Association Annual Conference and Short School April 26 – 29, 2015 — Hot Springs, Arkansas www.awwwea.org

The conference consists of two (2) full days of training. Each day has six (6) training sessions with multiple concurrent training topics offered each session. An exhibit hall with a wide selection of water industry related companies displaying their latest and best products. The conference is approved for up to 16 contact hours of directly applicable water license training credit. The Conference will track attendance credit hours by scanning your conference badge barcode at stations Monday and Tuesday with a morning and afternoon scan. You must scan each morning and afternoon to receive full credit.

If you are working on Mandatory Training courses for exam purposes, the conference through Arkansas Environmental Training Academy will offer the AETA Basic Water Math course on Monday and the AETA Applied Water Math course on Tuesday. The ADH Public Water System Compliance course is offered on Tuesday. You must register for the conference through AWWWEA and the training provider to attend the courses. All mandatory courses start at 8:00 a.m. and end at 5:00 p.m., with a shortened lunch break. Attendance of the entire course is required to receive a course completion certificate.

ARWA Annual Technical Conference & Exhibition

September 13 - 16, 2015– Hot Springs, Arkansas

www.arkansasruralwater.org

The conference consists of two (2) full days of training. Each day has four (4) training sessions with multiple concurrent training topics offered each session. There will be an exhibit hall with a wide selection of water industry related companies displaying their latest and best products. The conference is approved for up to 16 contact hours of directly applicable water license training credit. The Conference will track attendance credit hours by scanning your conference badge barcode at stations Monday and Tuesday with a morning and afternoon scan. You must scan each morning and afternoon to receive full credit.

No mandatory water training courses for exam purposes are offered during this conference. License Exams held Wednesday at 9:00 am in the convention center.

Return Service Requested

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AWW&WEA District Meetings

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

DATE	TIME	CITY	LOCATION	SPONSOR
January 2015				
8	5:30 PM	Fort Smith	Golden Corral	Western District, AWW&WEA
8	5:00 PM	TBA	TBA	Central District, AWW&WEA
8	5:00 PM	Russellville	Western Sizzlin	AR Valley District, AWW&WEA
8	5:00 PM	Pleasant Plains	Tadpole's Catfish Barn	North Central District, AWW&WEA
8	5:30 PM	Wynne	Kelley's Restaurant	Eastern District, AWW&WEA
14	8:30 AM	Bella Vista	Riordan Hall	Northwest District, AWW&WEA
TBA				Northeast District, AWW&WEA
20	5:00 PM	White Hall	Wright's BBQ	Southeast District, AWW&WEA
22	6:00 PM	Texarkana	Fish Creek	Southwest District, AWW&WEA
February 2015				
5	5:00 PM	TBA	TBA	Central District, AWW&WEA
5	6:00 PM	Fort Smith	Golden Corral	Western District, AWW&WEA
11	8:30 AM	Decatur	City Municipal Building	Northwest District, AWW&WEA
12	5:30 PM	Forrest City	Catfish Island	Eastern Central District, AWW&WEA
12	5:30 PM	Russellville	Western Sizzlin	AR Valley District, AWW&WEA
12	5:00 PM	Pleasant Plains	Tadpole's Catfish Barn	North Central District, AWW&WEA
17	5:00 PM	Cowboys	Monticello	Southeast District, AWW&WEA
TBA				Northeast District, AWW&WEA
26	6:00 PM	Nashville	Carter Day Training Center	Southwest District, AWW&WEA
March 2015				
5	5:00 PM	TBA	TBA	Central District, AWW&WEA
5	5:30 PM	Fort Smith	Golden Corral	Western District, AWW&WEA
11	8:30 AM	Rogers	Southside Church of Christ	Northwest District, AWW&WEA
12	8:30 AM	Russellville	Western Sizzlin	AR Valley District, AWW&WEA
12	5:00 PM	Pleasant Plains	Tadpole's Catfish Barn	North Central District, AWW&WEA
12	5:30 PM	West Memphis	Southland Dog Track	Eastern District, AWW&WEA
17	5:00 PM	Fiesta Linda	Crossett	Southeast District, AWW&WEA
TBA				Northeast District, AWW&WEA
26	6:00 PM	Camden	River Woods	Southwest District, AWW&WEA