



# ARKANSAS DRINKING WATER UPDATE

## ARWARN Seeking Member Utilities

The Arkansas Water / Wastewater Agency Response Network (ARWARN), a coalition of utilities helping other utilities to respond to and recover from emergencies, is up and running with its own website - [www.arwarn.org](http://www.arwarn.org). Memberships in the network, begun in 2008, are actively being solicited and are open to any Arkansas water or wastewater utility, public or private. There is no membership cost.

ARWARN is a mutual aid network. Its purpose is to provide a mechanism whereby water and wastewater utilities that have sustained or anticipate damages from natural or human caused incidents can provide and receive assistance from other utilities in the form of personnel, equipment, materials, and other services. Such aid is intended to precede and supplement federal and state emergency response efforts which can take anywhere from days to weeks to actually be in-place and operational. Mutual aid network assistance can come from both in-state and out of state utilities.



The need for and benefits of mutual aid networks were originally demonstrated following hurricanes in states along the Gulf Coast and in earthquakes in states on the West Coast. While Arkansas does not usually sustain direct damages from hurricanes, it is nevertheless subject to other weather related disasters such as the recent January 2009 ice storm in which most of the northern third of the state lost electrical power. Following the storm, a number of Arkansas water utilities received temporary electrical generators which were secured through the ARWARN network. Arkansas is also routinely subject to localized damages from floods and tornados, and would sustain massive damages if a strong earthquake were triggered in the New Madrid Fault in the northeastern and eastern parts of the state.

The process for becoming an ARWARN member is straightforward. The utility's governing board must approve the Mutual Aid and Assistance Agreement (MAA) which is available on the website. The MAA outlines the purpose of the program, the responsibilities of participation, procedures for activating the program, and the reimbursement of expenses. Signing the MAA does not obligate a utility to lend or to receive services in any particular

disaster or situation. The utility decides in each emergency response incident whether it wants to participate after being solicited for aid.

After submittal of the MAA, the utility completes an information survey about the potential resources and personnel that could be made available. That information is combined with other member utilities and recorded in an online database that is searchable by county, region, or the entire state. The database can also be periodically downloaded in hard copy format in the event internet access was unavailable.

As of 2009, over forty states have executed agreements to form a WARN network and most of them have websites that are operational. Additional information on ARWARN can be obtained from a member of its steering committee: Thad Luther - Central Arkansas Water; Jeff Ford – Arkansas Rural Water Association; or Dorinda Suitor – Arkadelphia Utilities. ♦

## Proposed wording clarifies regulation on PWS emergency plans

Proposed wording changes to the Department of Health's *Rules & Regulations Pertaining to Public Water Systems* will make it clear that a backup electrical generator, or another mechanism as approved by the Department, must be part of each applicable water system's emergency plan to ensure a supply of water in the event of a power outage.

Section VII.G of the current regulation deals with emergency planning for public water systems and requires each community and nontransient noncommunity public water system to have a written emergency plan to deal with a loss of source, treatment, storage, or distribution.

Following a major ice storm in January, 2009 in which about 150 community public water systems lost power, it became apparent that the majority of water systems did not have the plans or the equipment to properly respond to such a widespread disaster. Of the 150 systems, about 70 either had an electrical generator onsite or had immediate access to one. The remaining systems regained electrical service or were supplied with generators from FEMA, ARWARN and other sources; however, it took anywhere from a day to a week or more to do so.

The change to the regulation would add "electricity" to the list of losses that a water system's emergency plan must deal with. It

See Regulations page 2

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**Regulation** *continued from page 1*  
also adds the wording “as approved by the Arkansas Department of Health” to the same section of the regulation to allow flexibility in how the loss of power is addressed by each system.

Some water systems may be able to make a temporary connection to a neighboring system which already has onsite generators. Some systems may have several wells, one of which could be operated mechanically via a diesel engine. In any case, a written plan approved by the Department is still required.

If the proposed regulation change is approved through the administrative procedures process, the Department intends to implement this requirement over a number of years as part of its sanitary survey inspections. A similar implementation method is currently being used for other regulatory requirements such as a cross connection control program. It is not the intent of the regulation change to require every water system without backup power to have to immediately purchase an electrical generator.

Other proposed changes to the regulations are to insert EPA mandatory language, make minor wording modifications, and to update its effective date. The proposed changes are found on page 3 of this issue of the Update. Separate notices of the changes will be sent to each public water system and will be published in the statewide newspaper. A public hearing is planned for 1:00 PM, November 4 in Little Rock at the Department of Health in Room L137.

#### **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 Robert Hart, P.E., at the return address listed on the last page.

## Ground Water Rule Effective in December

Greg Alexander, Environmental Specialist

The Ground Water Rule (GWR) becomes effective on December 1 and will affect over 600 public water systems in the state which use wells as their source of supply. Since the Rule was finalized in 2006, the Engineering Section has worked with a number of systems to conduct assessment monitoring, provided training on the GWR's details, prepared handouts and fact sheets, published articles in this newsletter, corresponded with water systems on regulatory decisions, and provided many hours of technical assistance, all in an effort to help systems comply with the rule.

In a mailout last January, the Engineering Section asked each system affected by the GWR to declare its compliance approach to the rule – triggered monitoring or 4 log treatment. Prior to this letter, a rule summary had been sent to each affected system and training sessions conducted at the annual AWW&WEA meeting and at each of the organization's nine district meetings. By September, 27 systems had stated that they would provide the required 4 log treatment. All other groundwater systems are presumed to be conducting triggered monitoring. A letter outlining the monitoring requirements for triggered monitoring will be mailed in October to these systems.

The highlights of the GWR include:

- Routine distribution system samples collected under the Total Coliform Rule which are total coliform positive will trigger source water monitoring if a 4 log treatment scheme is not provided. The source system must monitor its raw source water within 24 hours of being notified that a total coliform positive sample has occurred in the distribution system. Unless a consecutive system has a waiver for this aspect of the GWR, the triggered source monitoring in the supply system also applies to coliform positive samples in the consecutive systems. Since the Department of Health's Public Health Laboratory conducts almost all of the bacteriological sampling, the ADH will notify the source system of any positive sample in the consecutive systems.
- Systems that provide 4-log inactivation or removal of viruses must conduct compliance monitoring and reporting. Compliance monitoring consists of daily chlorine residual monitoring prior to the first customer during peak flow (continuously, if the system serves a population >3300). In such cases the State will establish a chlorine residual that must be maintained to assure 4-log inactivation/removal. Failure to maintain 4-log inactivation before the first customer is a treatment technique violation. If treatment is discontinued at any time after being placed in service, the system must conduct triggered source monitoring. Failure to do so would be a monitoring violation.
- Any system that has a significant deficiency identified during a sanitary survey or has confirmed E. coli positive sample results in their source water as a result of either triggered or assessment monitoring must take corrective actions. A Tier 1 Public Notice is required for all E.coli positive source samples. The system must consult with the State regarding an appropriate corrective action within 30 days and within 120 days complete the corrective action or be under a State approved Corrective Action Plan. Failure to do so will be a Treatment Technique violation. The Rule lists the following options as corrective actions in order of priority: 1) correct significant deficiencies identified during a sanitary survey; 2) eliminate the source of contamination; 3) provide an alternate source of water; or 4) provide treatment that reliably achieves 99.99 percent (4-log) inactivation or removal of viruses.

For more information, contact Lyle Godfrey, Jan Bingaman or Greg Alexander, in the Engineering Section at (501) 661-2623 or visit EPA's website <http://www.epa.gov/safewater/disinfection/gwr/index.html>. ♦

## 2009 Proposed Changes to the Arkansas Department of Health's Rules & Regulations Pertaining to Public Water System

Proposed revision & purpose: **bold**  
Regulation language: *italics*  
Proposed deletions: ~~strike through~~.  
Proposed additions: underlined.

### 1.) Pages 7-9. To add US Environmental Protection Agency mandatory language and to make a minor wording correction.

#### 1A. Page 7.

##### Section I. Authority

##### A. State Authority

##### B. Incorporation by Reference

The Rules and Regulations Pertaining to Public Water Systems incorporate by reference the federal National Primary Drinking Water Regulations found in 40 CFR Parts 141, 142 and 143.

#### 1B. Page 7.

##### Section II. Purpose

These Rules and Regulations are adopted for the purpose of ensuring that all persons in the State of Arkansas receiving water from a public water system are provided with ample quantities of safe, palatable water which is in full compliance with the National Primary Drinking Water Standards Regulations.

#### 1C. Page 8.

##### Section III. Definitions

##### K. Public Water System:

Public water system or PWS means a system for the provision to the public of water for human consumption through pipes or other constructed conveyances, if such system has at least fifteen service connections or serves an average of at least twenty-five individuals daily at least 60 days per year.

#### 1D. Page 9.

##### Section III. Definitions

##### K.2 Noncommunity public water system:

A public water system that serves at least 15 service connections or at least 25 persons per day that is not a community water system, or a water source that is not a community water system that is utilized as a source for bottled water.

Comments: EPA Region 6 Office of Regional Counsel advised that wording additions 1A, 1C, and 1D were required to clarify state primacy authority and to conform with the wording of EPA regulations. Item 1B is a minor change to conform with the wording in 1A.

### 2.) Page 13. To remove outdated regulation language regarding an ADH policy on approved chemicals, equipment and processes.

#### Section VII.F Approved Chemicals, Materials, Equipment, and Processes

~~All chemicals added to the water and all materials in contact with in-process or treated water shall be certified as being in compliance with ANSI/NSF Standards 60 and 61, as applicable, and as specified in the "Arkansas Department of Health Policy on Certification of Drinking Water Additives". Certification shall be made by an independent agency meeting the criteria specified in the "Arkansas Department of Health Policy on Certification of Drinking Water Additives". Self-certification by the manufacturer will not be accepted.~~

Comments: The current language was added in 1991 when ANSI/NSF Standards 60 & 61 were initially introduced and a transition period was needed to allow time for independent laboratories to obtain the capacity to complete the necessary certifications under ANSI/NSF 60 & 61. The referenced ADH policy was intended to cover this transition period. Adequate laboratory capacity has existed for some time and references to the outdated ADH policy need to be removed.

### 3.) Page 14. To clarify existing language on emergency planning requirements to include the loss of electricity.

#### Section VII. G Emergency Planning

*Each Community Public Water System and each Non-Transient Non-Community Public Water System shall have a written emergency plan. The*

*emergency plan shall include, at a minimum, names and telephone numbers of responsible utility personnel, procedures to be followed in the event of loss of electricity, source, treatment, storage, or distribution facilities, and procedures to be followed in the event of a loss of distribution system pressure or a known or suspected introduction of contaminants into the distribution system, as approved by the Arkansas Department of Health.*

Comments: Recent local and regional natural disasters (hurricanes, tornado, ice storm) as well as emergency planning exercises have highlighted the need for public water systems, in particular community systems, to have standby power or a readily accessible alternative in the event of a lengthy power outage. Existing language in the regulation arguably includes such a requirement; however, the proposed language would make it clear that standby power, or a means of redundancy suitable for the particular system, is necessary. The preparation and implementation of comprehensive emergency plans by water systems which includes standby power, or an alternative approved by the ADH, would be a long term process requiring a period of years to accomplish.

### 4.) Page 35. To obtain a new approval date on the regulations to adopt by reference the Environmental Protection Agency's Short-Term Regulatory Revisions and Clarifications to the Lead and Copper Rule which were promulgated on October 10, 2007 (40 CFR Parts 141 and 142).

The current regulation can be downloaded at [www.healthyearkansas.com/eng/](http://www.healthyearkansas.com/eng/).

Comments on the proposed changes should be in writing and sent by November 4 to:

Robert Hart, P.E.  
Engineering Section, Slot 37  
Arkansas Department of Health  
4815 West Markham  
Little Rock, AR 72205  
501-661-2623  
[Robert.Hart@Arkansas.gov](mailto:Robert.Hart@Arkansas.gov) ♦

# 2008 compliance report shows mixed results

The 2008 Annual Compliance Report for Arkansas public water systems was released in July. The report shows that compliance rates by Arkansas public water systems with the health based standards of the Safe Drinking Water Act (SDWA) were a mixed bag of results. Compliance rates improved in some areas and deteriorated in others.

The percentage of community public water systems complying with disinfection by product regulations, and the population they served, improved in 2008 from the previous year. However, the number of persons served by a water system with a Total Coliform Rule maximum contaminant level (MCL) violation in 2008 was over double that of 2007.

SDWA health based standards include any numerical MCL or treatment technique requirement, an example of which is the 0.3 NTU limit on treated water turbidity from surface sources. Health based drinking standards utilize a risk model which assumes an individual drinks two liters of water each day for 70 years. The maximum probability of illness from a regulated contaminant cannot exceed 1 in 10,000, and oftentimes is much less.

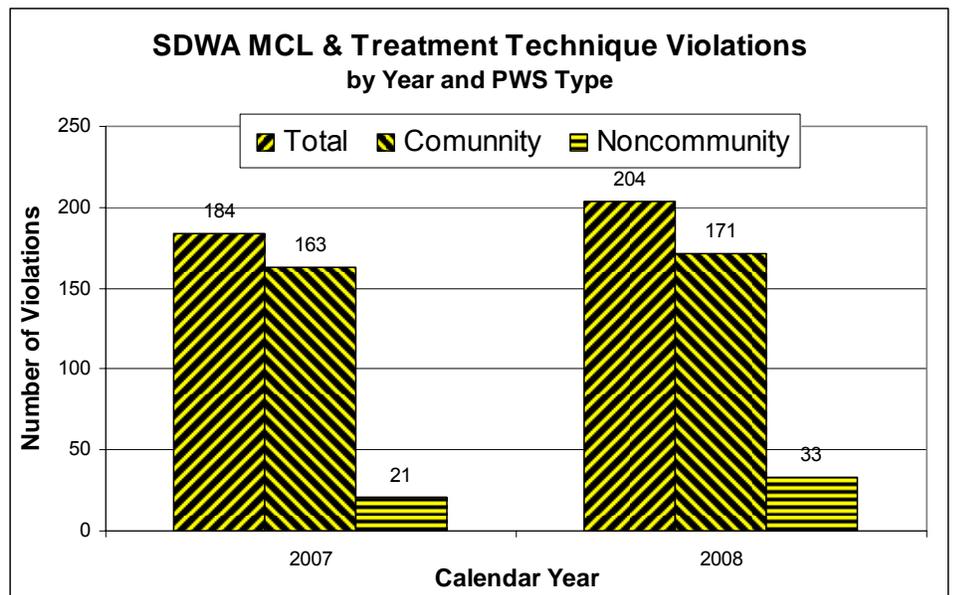
Drinking water quality violations in Arkansas are most commonly the result of exceedences of the allowable levels for turbidity, total coliform, and disinfection by products.

SDWA regulations are so intertwined that compliance measures for one regulation can complicate compliance with a different regulation. For example, systems trying to meet the disinfection by product MCLs have typically reduced their chlorine both in the treatment process and in the residual they carry in the distribution system. However, too low a residual can lead to a distribution system regrowth of coliforms or reduced protection against biofilms and secondary contamination.

This was known to be the case in 2008 for one Arkansas water system serving a population of 21,000 and there may have been others. The year was exceptional for the number of

SDWA Reg	2007		2008	
	% of Systems	Population affected*	% of Systems	Population affected*
Stage 1 Disinfection by Products Rule	9.9%	260,457	9.3%	208,649
Total Coliform Rule	9.1%	195,847	10%	455,265
Surface Water Treatment Rules	1.7%	12,570	2.1%	39,135
IOC/SOC/RAD	< 1%	3,868	< 1%	19,347

\*Populations are not additive. See article for explanation on length of exposure. Arkansas has an estimated population of 2.6 million persons served by public water systems.



water systems serving larger populations (for Arkansas) which had a total coliform MCL. In 2007, 10 systems serving a population of 5000 or more had a total coliform MCL. In 2008, there were over 20 such systems including two which serve a population of over 50,000. Fortunately, there were no acute coliform (E.coli) MCLs in 2008 for any public water system.

The affected populations listed in the table above can be misleading because a reader might conclude that a consumer was exposed to noncompliant water throughout the entire year. However, the great majority of health based violations are temporary, typically only lasting from one to three months.

A more accurate measure of accessing exposure to noncompliant water is to consider both time and population, or 'person-months' exposure. With this measurement, a

water system, for example, that served 100 persons and had one violation lasting one month produced a risk of 100 person-months. The total risk possible for this system is 1200 person-months (100 persons multiplied by 12 months). For this example, the compliance rate would be 91.6% [(1200-100/1200)].

Using the person-months exposure measurement, Arkansas had compliance rates of 93.6% in 2008 and 94.8% for 2007 for water quality or health based standards. Compliance rates for monitoring and reporting using the same measurement were 99.7% for 2008 and 99.3% for 2007.

The Annual Compliance Report covers the calendar year and is compiled as a mandatory reporting requirement of EPA grant funds. A copy of the report can be found at: [www.HealthyArkansas.com/eng/](http://www.HealthyArkansas.com/eng/). ♦

## DBP workshops for consecutive systems held

A one day workshop by the Engineering Section on the control of disinfection by-products in water systems which purchase wholesale water was held in six Arkansas cities in August and September. The workshops were the result of a request for assistance by regional water suppliers who, along with systems they supply, are grappling with the current Stage 1 and the upcoming Stage 2 Disinfectants and Disinfection By Product Rules. The effective date of the Stage 2 Rule is staged based on population served and varies from 2012 to 2014.

Information presented in the workshops included the formation of disinfection by products, existing and future federal regulations, and control strategies for both treatment and distribution. While the focus was on consecutive systems, personnel from any water system could attend. A total of 177 persons attended the sessions which were held in Springdale, Booneville. Nashville. Camden. Batesville. and Conway.♦

### DBP Information Sheet

One recommendation from water utilities attending the DBP workshops was for the Department to develop an information sheet for consumers on disinfection by products. With assistance from the Epidemiology Section of the ADH, a one page sheet was developed and is available to any water system. The sheet will be included in DBP violations notices and can be copied and distributed to consumers. For a copy, visit [www.healtharkansas.com/eng/](http://www.healtharkansas.com/eng/) or contact Jan Bingaman – 501-661-2623.

### Mandatory Training Course Schedule

Most Current Listing is at: <http://www.healtharkansas.com/eng/autoupdates/oper/mandtrngall.htm>

Class	Start Date	End Date	OpCert Grant Eligible?	City	Location All classes begin at 8 am	Sponsor
Cancelled PWS Compliance	10/12/09	Cancelled	No	Hot Springs	Cancelled	ADH
Intermediate Water Distribution	10/12/09	10/14/09	Yes	Camden	Arkansas Environmental Academy, 100 Carr Road	AEA
Cancelled Applied Water Math	10/12/09	Cancelled	No	Hot Springs	Cancelled	ARWA
Cancelled Basic Water Math	10/12/09	Cancelled	No	Hot Springs	Cancelled	ARWA
Intermediate Water Distribution	10/15/09	10/30/09	Yes	Internet	Contact AEA for Registration	AEA
Advanced Water Treatment	10/20/09	10/22/09	Yes	Arkadelphia	Recreation Center, 2575 Twin Rivers Dr	ARWA
Basic Water Math	10/26/09	10/26/09	Yes	Fayetteville	Operations Center, 2435 S Industrial Dr	AEA
Applied Water Math	10/27/09	10/27/09	Yes	Fayetteville	Operations Center, 2435 S Industrial Dr	AEA
Intermediate Water Distribution	10/27/09	10/29/09	Yes	Midway/Mt Home	Baxter co OEM Training Facility, 170 Dillard Dr	ARWA
PWS Compliance	10/28/09	10/28/09	Yes	Fayetteville	Operations Center, 2435 S Industrial Dr	AEA
Advanced Water Treatment	11/02/09	11/16/09	Yes	Internet	Contact AEA for Registration	AEA
Basic Water Distribution	11/03/09	11/05/09	Yes	Arkadelphia	Recreation Center, 2575 Twin Rivers Dr	AEA
Basic Water Treatment	11/03/09	11/05/09	Yes	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	ARWA
PWS Compliance	11/12/09	11/12/09	No	Little Rock	????	ADH
Advanced Water Distribution	11/16/09	11/30/09	Yes	Internet	Contact AEA for Registration	AEA
Intermediate Water Treatment	11/17/09	11/19/09	Yes	Arkadelphia	Recreation Center, 2575 Twin Rivers Dr	ARWA
Applied Water Math	12/01/09	12/15/09	Yes	Internet	Contact AEA for Registration	AEA
Basic Water Math	12/01/09	12/15/09	Yes	Internet	Contact AEA for Registration	AEA
Basic Water Treatment	12/01/09	12/03/09	Yes	Camden	Arkansas Environmental Academy, 100 Carr Rd	AEA
Advanced Water Treatment	12/01/09	12/03/09	Yes	Midway/Mt Home	Baxter co OEM Training Facility, 170 Dillard Dr	ARWA
Intermediate Water Treatment	12/01/09	12/03/09	Yes	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	ARWA
Advanced Water Distribution	12/15/09	12/17/09	Yes	Jonesboro	CWL Service Center, Johnson & Main	ARWA
Basic Water Math	12/15/09	12/15/09	Yes	Nashville	Carter Day Facility, 200 Nichols Dr	ARWA
Applied Water Math	12/16/09	12/16/09	Yes	Nashville	Carter Day Facility, 200 Nichols Dr	ARWA
PWS Compliance	12/17/09	12/17/09	Yes	Nashville	Carter Day Facility, 200 Nichols Dr	ADH

\*OpCert Grant Eligible Course – Meal and lodging expenses may be reimbursed for operators from Community or Non-Transient Non Community Public Water System serving a population of 3300 or less. The course may be space limited.

All courses require pre-registration. The course sponsor must be contacted to register for each course and to confirm course information that is subject to change or cancellation. Contact information for the sponsors is shown below.

ADH – Arkansas Department of Health – Contact Martin Nutt – (501) 661-2623 – [Martin.Nutt@arkansas.gov](mailto:Martin.Nutt@arkansas.gov)

AEA – Arkansas Environmental Academy – Contact Letitia Rusch – (870) 574-4550 – [lrusch@sautech.edu](mailto:lrusch@sautech.edu)

ARWA – Arkansas Rural Water Association – Contact Carol Shaw – (501) 676-2255 – [info@arkansasruralwater.org](mailto:info@arkansasruralwater.org)

Additional courses are shown on the internet at: <http://www.healtharkansas.com/eng/autoupdates/oper/opcertlinks.htm>

# Draft protection plan for Beaver Lake watershed under review

A draft plan for a watershed protection strategy for Beaver Lake in northwest Arkansas was completed in September and is currently under review. The plan was contracted by the Northwest Arkansas Council, a private, nonprofit organization comprised of business and civic leaders, and prepared by Tetra Tech of Pasadena, CA. The plan, if adopted, will be a significant accomplishment for the future protection of the lake which supplies drinking water to over 350,000 residents. The lake is also noted as being critical for the area's manufacturing companies, industrial development, tourism and overall quality of life.

Sediment and seasonal algal growths resulting from nutrients were identified in the draft plan as the primary cause of the lake's water problems, particularly on the upper end of the lake. Stormwater runoff, agricultural nutrients, and the effluent from wastewater treatment plants were listed as the major potential sources of the contaminants. In order to control them, the plan proposes a strategy utilizing voluntary best management practices, developing conservation guidelines, conducting outreach and education efforts, and implementing monitoring and assessment programs.

Each aspect of the draft plan includes recommended stakeholders responsible for its oversight. The stakeholders include state and federal agencies, cities, utilities, academia, businesses and private organizations. The report proposes the formation of a Beaver Lake Watershed Council, consisting of local stakeholder representatives. The Council would be a catalyst and clearinghouse for the various aspects of the watershed plan.

The plan specifically calls for better enforcement of existing regulations and federal Clean Water Act regulations on erosion and sediment control. It also recommends the implementation of phosphorous limits on future wastewater plant effluents, similar to those currently in place at

Fayetteville's Noland Wastewater Treatment Plant. The plan states that compliance by agricultural operators with their nutrient management plans, while currently very good, will need to continue to be so for the foreseeable future. If nothing is done to control sediment and nutrient loadings, the report predicts the lake's water quality

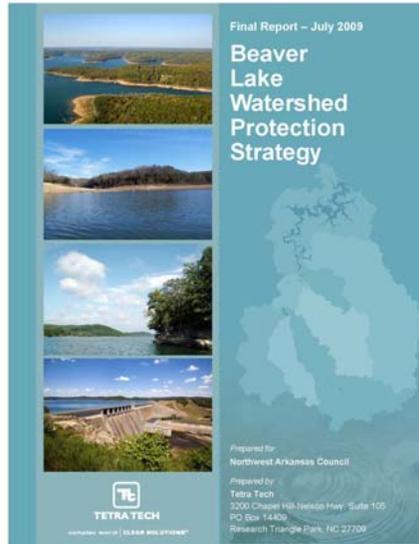
problems will increase.

The Beaver Lake watershed covers approximately 1200 square miles. The population in the watershed is projected to grow by as much as 80 percent in the next 50 years.

As part of the plan, Tetra Tech conducted watershed modeling to estimate the loading rates of nutrients and sediment based on the type of land use. Lake models then calculated the impact of the loading rates on the levels of key indicators of water quality - chlorophyll a, total organic carbon, turbidity, and sediment.

Watershed protection strategies outlined in the plan were selected by a Policy Advisory Group – representatives from a diverse group of stakeholders from the public and private sector. A principal goal of the plan is to minimize oversight costs and regulations for the watershed's residents.

At the time of this article, the plan was under review by the Council.♦



## Beaver Lake Watershed Protection Plan

### Goals

- Maintain a long-term, high-quality drinking water supply to meet present needs and continuing growth of the region.
- Restore water quality of impaired streams and lake areas.
- Minimize additional costs and regulations for people living and working in the watershed.

### Strategy

- Beaver Lake Watershed Council
- Core Voluntary Best Management Practices
  - Land easements for stream buffers and upland areas
  - Improved construction site management
  - Stream buffer and bank restoration
  - Farm best management practices
  - Unpaved road improvements
  - Storm water best management practices retrofits
- Lake Protection Certification Program
  - Design and inspection standards
  - Participation incentives
  - Outreach to communities, developers and contractors
- Education and Stewardship Program
  - Build on and expand existing education efforts
- Monitoring and Adaptive Management
  - Establish water quality indicators to be tracked
  - Identify and implement monitoring programs
  - Develop assessment methods and procedures
  - Report assessment results
  - Enhance long-term lake and watershed monitoring

# Water Operator Licenses Issued

April 1, 2009 through July 1, 2009

Licensee Name	Grade/Type	System Name	Licensee Name	Grade/Type	System Name
ADAMS DOYLE	D - VSS	RUSSELLVILLE- RWPSID2INC	JONES DAVID	D - IV	WEST FORK WATERWORKS
ADCOCK ANTHONY	T - IV	CROSSETT WATER COMMISSION & WEST ASHLEY COUNTY WATER ASSN	LACKEY BRANDON	D - III	CENTRAL ARKANSAS WATER
ANDERSON WILLIAM	T - IV	DOVER WATERWORKS	LEE BENJAMIN	D - III	PERRYVILLE WATERWORKS
BEAM III JOHN	D - IV	FORT SMITH WATER UTILITIES	LISCHERON ANTON	D - III	NORTH EAST PUBLIC WATER AUTH
BIFFLE RICKY	D - IV	CITY CORPORATION	LITTLE CLYDE	T - IV	ENGINEERING SECTION, ADH
BIGGS KENNETH	D - II & T - II	WATSON CHAPEL WATER ASSOC	LONGINO WILLIAM	T - IV	SYSTEM INFORMATION NOT PROVIDED
BLOWERS FRANK	D - IV	BEAVER WATER DISTRICT	MAHURIN MICHAEL	D - III	BENTONVILLE WATER UTILITIES
BOND JAMES	D - IV	NAT CTR FOR TOXOLOGICAL RES	MCKIBBEN DANIA	T - IV	FORT SMITH WATER UTILITIES
BREIDT CATHERINE	D - VSS	LITTLE PORTION HERMITAGE	MERIDITH JAMES	D - IV & T - IV	CROWLEYS RIDGE WATER ASSOC
BREMER TERRY	D - I	SYSTEM INFORMATION NOT PROVIDED	MHOON MARVIN	T - IV	CENTRAL ARKANSAS WATER
BREWER JASON	T - IV	MULBERRY WATERWORKS	MICHAELS ROBIN	D - II	ENGINEERING SECTION, ADH
BRUNECK II FLOYD	T - II	ALMA WATERWORKS	MORRIS TOBBY	D - II	ENTERGY - INDEPENDENCE
CARRUTH DARREN	T - IV	BARTON LEXA WATER ASSOCIATION & LAKEVIEW MUNICIPAL WATER	NEEL PHILLIP	D - II & T - I	MARION COUNTY REG WATER DIST
CATES STEVEN	T - IV	CLINTON WATERWORKS	OLIVAREZ GERARDO	D - III	OLA WATER & HOUSTON WATERWORKS
CLARK LAVERNE	D - IV	LAKEVIEW-MIDWAY WATER ASSOC	POSADA CHE	D - III	MOUNTAIN VIEW WATERWORKS
COLLINS RUSSELL	D - IV	WASHINGTON WATER AUTHORITY WWA	RICH GRAHAM	T - IV	CENTRAL ARKANSAS WATER
COOK JERRY	D - IV	SPRINGDALE WATER UTILITIES	RICHARDS MICHAEL	D - IV	SEARCY WATERWORKS
CREEGER GERALD	D - I	MARION COUNTY REG WATER DIST	RING ROBERT	T - IV	PARAGOULD CITY LIGHT WATER
CURTIS BRUCE	D - IV	CONWAY CO REGIONAL WATER DIST	RITCHIE KENNETH	D - IV	BELLA VISTA POA
DAVIS CARY	D - IV	BEAVER WATER DISTRICT	ROBINS VERONICA	D - II	DYER WATERWORKS
DECKARD DOUG	D - I	QUITMAN WATERWORKS	ROMINE DAVID	D - IV	PARAGOULD CITY LIGHT WATER
EAKIN KEVIN	T - II	DOVER WATERWORKS	RUTH DANNY	D - I & T - II	LOCKESBURG WATERWORKS
ESTES MICHAEL	D - IV	RIVIERA UTILITIES	RUTH JUSTIN	D - I	LOCKESBURG WATERWORKS
FIORIELLO TREY	D - III	MOUNT IDA WATERWORKS	SCHLUTERMAN HERMAN	D - III	PARIS WATERWORKS
FOLEY FARRON	D - I	MOUNT IDA WATERWORKS	SEATON DANIEL	D - II	ENGINEERING SECTION, ADH
FRADY BRIAN	T - II	WARD WATERWORKS	ST CLAIR DAVID	T - II	MAUMELLE WATER MANAGEMENT
GRAHAM PHIL	D - IV	CLINTON WATERWORKS	STAFFORD LOUIS	T - IV	BLTYHEVILLE WATERWORKS
GRIGGS RAYMOND	D - IV	MADISON CO REGIONAL WATER	STILWELL DANNY	D - II	DYER WATERWORKS
GUESS GREGORY	T - II	ALMA WATERWORKS	STORY JAMES	D - I	WALKER WATER ASSOCIATION
HAFNER CHARLES	D - I	BIG FLAT WATERWORKS	TATE RUSSELL	D - IV & T - IV	BEAVER WATER DISTRICT
HAVENS ERIC	D - IV	GREENBRIER WATERWORKS	VANN JOSHUA	D - IV	CABOT WATERWORKS
HOLDEN PERRY	D - IV	LINCOLN WATERWORKS	WASSON ANDREW	D - III	FAYETTEVILLE WATERWORKS
HOLZKAMPER FRANK	D - IV	HIGHFILL WATER DEPARTMENT	WATKINS JAMES	D - III	FAYETTEVILLE WATERWORKS
HORTON DANIEL	D - VSS	RUSSELLVILLE- RWPSID2INC	WESTON TEDDY	D - III	MOUNT IDA WATERWORKS
HUGHES SHAWN	T - II	PANGBURN WATERWORKS	WILLIAMSON GARY	D - I	MONTROSE WATERWORKS
INGRAM JASON	T - IV	VILONIA WATERWORKS	WOFFORD MICHAEL	D - IV	FORT SMITH WATER UTILITIES
IRISH FRENCH	T - IV	VILONIA WATERWORKS	WRONE TRUMAN	D - IV	HARRISON WATERWORKS
JACKSON RANDY	D - I	ASHDOWN WATERWORKS	YOUNGBLOOD DUSTIN	D - III	BENTONVILLE WATER UTILITIES
JACKSON TOMMY	D - IV & T - IV	MAUMELLE WATER MGMNT. , MARVELL & MARVELL RURAL WATER	ZAVORKA JAMES	D - III	BULL SHOALS WATER SYSTEM
JONES CHRIS	D - I	IMBODEN WATERWORKS			

## Water License Renewal Update

If you did not renew your now expired water license, you should have received a penalty invoice in early August. Expired licenses may be re-instated until June 30, 2010. To reinstate, you must have 24 hours of approved training and at least 12 of the hours must be approved as direct training. The other 12 hours can be additional direct training or indirect training. If you have two licenses the same hours will renew both licenses. If you are short hours, the hours can be made up by attending training course and the hours then used to reinstate a license, if prior to June 30, 2010.

If a license is not reinstated by June 30, 2010 it is forfeited. To become relicensed requires an individual to meet the mandatory training requirements and to pass a water license exam.

Renewal training may be documented at the following internet sites:

- Arkansas Department of Health: <http://www.healthysarkansas.com/eng/opcert/oper.htm>. If all your training is not listed, document the unlisted training on a downloaded form and it will be verified when the renewal is submitted.
- Arkansas Rural Water training only: <http://www.arkansasruralwater.org/resources/training.asp>

Please be sure to include the renewal invoice(s), fee payment, water system information, and training documentation in the same envelope to ensure proper credit to your account and your renewal.

## News of Note

### ENGINEERING SECTION

\* Bob Irving has joined the Section as an Environmental Specialist working



primarily in the area of Consumer Confidence Reports. Bob has considerable experience in the water and waste water industry not only in Arkansas but also in Colorado. He

holds a Biology Degree from the University of Colorado and a J.D. Degree from the University of Arkansas at Little Rock. Among his pastimes, he is an avid canoeist.

\* Two former employees, Carl Peters and Usman Patel, have rejoined the Engineering Section as District Engineers. Peters will cover District 2 (north central area of the state) and Patel will work in District 5 (southeast). Peters worked in the Section from 1988 to 1997 after completing a career with the former federal Soil Conservation Service. Patel has worked for the Department of Health for over 30 years, 20 with Engineering and most recently in the Environmental Health area. As District Engineers, their primary duties will consist of plan review, sanitary surveys, and technical assistance.

\* Lance Jones, P.E., has been promoted to the position of Chief of Technical Support. Jones has been employed with the Engineering Section for 17 years. In his new capacity, he will manage a number of areas including rule implementation, capacity development, CCR, and chemical compliance monitoring. He replaces Bob Makin, P.E., who voluntarily elected to take a staff position in the Section.

\* The following Engineer Section employees have recently completed internal transfers: Raymond Thompson, P.E. to Engineer Supervisor for Districts 2 and 9; Wayne Hare to Cross Connection Control Engineer; Jay Northern to Compliance & Enforcement Officer; Jack Wilson to Environmental Specialist for the DBP Rules; Jim Barlow to Environmental Specialist for District 4; and Bob Makin, P.E. to SWTR & GWR Engineer. ♦

## Document the approved means of sewage disposal before making a water meter connection

Jeff Stone, P.E., Chief Engineer

Section XIV.F of the *Rules and Regulations Pertaining to Public Water Systems* requires that a customer document the Department of Health approval of a sewage disposal system prior to the setting a new water meter. The same section also requires documentation of a plumbing inspection to verify substantial compliance with the state Plumbing Code before a meter is set. Although these requirements are longstanding, new water operators and managers may not be aware of them.

Approvals for individual sewage disposal systems, such as septic tanks, are issued by the County Environmental Health Specialists of the Arkansas Department of Health. In the case of a subdivision or a residence that is served by a community or publicly owned sewer collection line, the original Department approval letter for that sewer collection line suffices or certification of approval can be obtained from the city or sewer authority which owns the sewer system. Approval letters for community owned sewer collection lines and treatment systems are typically issued by the Engineering Section of the Arkansas Department of Health.

Documentation on plumbing code compliance is by the Plumbing Inspector employed by the water system, or the area Plumbing Inspector employed by the Arkansas Department of Health.

The adherence to these requirements is important not only from a public health standpoint, but also ensures that the property owner has not gotten the “cart before the horse”; that is, the owner hasn’t started construction only to find out the property is not suitable for an individual sewage disposal system or that public sewer is not available. Surprisingly, it is not uncommon for individuals to buy property or begin construction of a house without first verifying that a water supply or an approved means of sewage disposal is available.

The time to inform a customer about the need for these approvals is when the water system is first contacted for a meter connection. That enables the owner to make important decisions before substantial funds are spent.

Any questions regarding documentation of sewage system approval can be answered by the County Environmental Health Specialist at the local ADH Health Unit. Also, Jeff Stone and the district engineers at the Engineering Section are available at 501-661-2623. ♦

### WATER SYSTEM IMPROVEMENTS

LITTLE ROCK AIR FORCE BASE: 1.35 million gallon ground storage tank and variable frequency drive pumps to replace existing infrastructure.

WARD: 22,000 feet of 10-inch and 8-inch water line and a 1 million gallon elevated storage tank.

SOUTH LOGAN COUNTY WATER: 76,000 feet of 2 through 8-inch mains, 180 gpm pump station and 56,000 gallon ground storage tank for the Blue Mountain area.

MILLTOWN WASHBURN WATER: 112,000 of 3 through 6-inch water mains and 300,000 gallon standpipe in Sebastian County.

MALVERN WATER: 1600 feet of 14-inch water transmission line and 2,000 gpm triplex pump station.

CEDARVILLE WATER: 27,000 feet of 6-inch main upgrades in the Uniontown and Shiloh Road areas of Crawford County.

KELSO-ROHWER WATER: addition of a 400 gpm well and approximately 18,000 feet of 6-inch water main.

DARDANELLE WATER: 5 mgd collector well and pumps located in Veteran’s Park and 4200 feet of 16-inch raw water line.

FORT SMITH WATER: expansion and rehabilitation of the Lake Fort Smith water treatment plant to a capacity of 40 MGD including PAC contact basins, clarifiers, and filter improvements.

# Major Monitoring, MCL, Treatment Technique, & Licensing Violations

Community & Nontransient Noncommunity Public Water Systems

April - June, 2009

AIRPORT ROAD WATER	OperLic 6	MORNING STAR WATER	FMCL 4,5,6
ALICIA WATER	BMCL 5	MT SHERMAN WATER	RMCL 4,5,6
ALICIA WATER	Bmon 6	NO GARLAND CO REG WATER DIST	DMCL 4,5,6
ALTHEIMER WATER	OperLic 4,5,6	NEW LONDON WATER	BMCL 5
ARK ST PARKS – MT MAGAZINE	DMCL4,5,6	NEW LONDON WATER	Bmon 6
AURELL WATER	OperLic 4,5	NSC INTERNATIONAL WATER	Bmon
BATTS-LAPILE WATER	BMCL 5	NW ARK REGIONAL AIRPORT	DMCL 4,5,6
BAUXITE WATER	Bmon 5	OAK GROVE WATER	Dmon 4
BENTONVILLE WATER	BMCL 5	ODEN-PENCIL BLUFF WATER	DMCL 4,5,6
BEULAH GROVE WATER	Bmon 5	OLA WATER	BMCL 6
BIRDSON WHITTON WATER	Bmon 4	PARON-OWENSVILLE WATER	DMCL 4,5,6
BIRDSON WHITTON WATER	BMCL 5	PERRYVILLE WATER	DMCL 4,5,6
BOONEVILLE WATER	BMCL 5	PIKE CITY WATER	DMCL 4,5,6
BRUNO PYATT SCHOOL	BMCL 6	PRAIRIE GROVE WATER	BMCL 4
BURDETTE WATER	BMCL 5	PYATT WATER	BMCL 6
CAMDEN WATER	DMCL 4,5,6	READLAND-GRANDLAKE WATER	OperLic 6
CAMPBELL STATION WATER	Bmon 5,6	RED BUD MHP WATER	Tmon 5,6
CASA WATER	DMCL 4,5,6	RICHWOOD WATER	BMCL 6
CHIDESTER WATER	BMCL 1	SO PIKE CO WATER	Bmon 5
COTTONWOOD WATER	BMCL 1	SDM WATER	FMCL 4,5,6
DELIGHT WATER	Bmon 6	SDM WATER	RMCL 4,5,6
DIERKS WATER	SWTR 5	SOUTH MOUNTAIN WATER	RMCL 4,5,6
DIERKS WATER	Tmon 5	SOUTHSIDE PUB WATER AUTH	BMCL 6
DIERKS WATER	Bmon 5	ST FRANCI RIVER REG WATER DD	Bmon 4
EAST END WATER	BMCL 4	STAR CITY WATER	Bmon 4
EAST NEWTON CO WATER	Bmon 5	STRONG WATER	OperLic 4,5
EAST PRAIRIE CO WATER	Bmon 5	SUBIACO ACADEMY WATER	DMCL 4,5,6
EUDORA WATER	OperLic 6	SYLAMORE VALEY WATER	OperLic 6
EVERGREEN PACKAGING WATE	BMCL 5	TANKSLEY APT WATER	Bmon 5
FELSENTHAL WATER	BMCL 5	TAYLOR WATER	Bmon 5
FOUNTAIN HILL WATER	DMCL 4,5,6	TOAD SUCK PFB	DMCL 4,5,6
GILLHAM REGIONAL WATER DIST	DMCL 4,5,6	TOLLETTE WATER	Bmon 5
GILMORE WATR	BMCL 5	TOLLETTE WATER	Dmon 5
GREENWAY WATER	Bmon 4	TRUMANN RURAL WATER	BMCL 6
HARTFORD WATER	OperLic 6	VAN BUREN CO WATER	DMCL 4,5,6
HARTFORD WATER	BMCL 6	VANDERVOORT WATER	Bmon 5
HICKORY RIDGE WATER	BMCL 5	WALDRON WATER	DMCL 4,5,6
HIGHFILL WATER	DMCL 4,5,6	WALKER WATER	Bmon
HOSANNA HEIGHTS WATER	OperLic 6	WALKER WATER	OperLic 5
HUTTIG WATER	BMCL 4	WIDENER WATER	Bmon
KIBLER WATER	Bmon 4		
LAKEVIEW-WABASH WATER	Bmon 5		
LEISURE HILL MHP WATER	Dmon 5		
MAGNET BUTTERFIELD WATER	DMCL 4,5,6		
MARION WATER	Bmon 4		
MAUMELL WATER MGMNT	BMCL 5		
MENA WATER	BMCL 5		
MIDWAY WATER	Bmon 5		
MONTGOMER CO REGIONAL PWA	DMCL 4,5,6		

**KEY:** Bmon = Bacti Monitoring; BMCL = Bacti MCL; Dmon = Disinfection By Product Rule Monitoring; DMCL=Disinfection By Product Rule MCL or Treatment Technique; Tmon = SWTR Major Monitoring; TMCL = SWTR Treatment Technique; SWTR= Failure to Filter; RMCL = Radiochemical MCL; FMCL = Fluoride MCL; SMCL = Synthetic Chemical MCL; OperLic = Operator Licensing; 4=April, 5=May, 6=June.

REPORT OF THE  
Arkansas Drinking Water Advisory and Operator Licensing Committee

A. Martin Nutt, Training and Certification Officer

The quarterly meeting of the Arkansas Drinking Water Advisory and Operator Licensing Committee was held on July 21, 2009 at the headquarters of Arkansas Rural Water Association in Lonoke.

Committee members present were: Rodney Williams, PhD, P.E., Terry House, Susan Merideth, P.E., Matthew Dunn, P.E., and Robert Hart, P.E. Members not present were: Steve Di Cicco and Scott Borman.

Department of Health staff present were: Martin Nutt, Caroline Johnson, Ida L. Hampton, and Reginald Rogers, Attorney.

Guests included Jake Arnold, Mayor, City of Omaha; Arlis R. Gross, City of Omaha; and Randy Harper, AR Environmental Training Academy.

Williams called the meeting to order and welcomed Dunn, the newest Committee member, whose term will continue through 2015. Dunn is with Crist Engineers of Little Rock.

The Committee reviewed and approved the minutes from the April 8, 2009 meeting.

#### **Standing Business**

The Committee reviewed and approved the high school waiver request of Gross.

Nutt reported that the Arkansas Water Works and Water Environment Association board had sought direction from the Department of Health on the model of scanner to recommend to its districts to purchase for continuing education. Hart suggested that Nutt coordinate with ADEQ and AWW&WEA representatives in order to provide a recommendation.

House and Nutt led a discussion on alternative funding for the USEPA expense reimbursement grant for operator certification. The grant is due to expire in 2010; however, an extension through 2012 appears likely. Committee members agreed that the issue, while no longer a high priority, should continue to be monitored since it will resurface in two years. Nutt said that it was difficult to predict future grant spending due to the erratic participation by operators for the meal and lodging reimbursement portion of

the grant. Harper provided an overview of how the Arkansas Environmental Training Academy reimbursed expenses, and he provided insights on why operators do and do not participate.

Nutt updated the Committee on recent action taken by the Association of Boards of Certification concerning licensing examinations and the multiple entry concept for exams. Nutt said a previous 'wait and see' decision by the Committee had proven to be beneficial. Nutt is a member of the ABC's Board of Directors.

House reported that Hart had made a presentation at the annual conference of the Water and Wastewater Managers Association on the materials available as a result of Pro-Active Service Fee Education Subcommittee. He suggested the same presentation be made to the Municipal League members. Hart reminded Committee members of the availability of the materials which includes a brochure and presentation CD. A motion to sunset the Sub-Committee was passed.

#### **Old Business**

Nutt reviewed how conference attendance was tracked on a trial basis at the 2009 Arkansas Water Works & Water Environment Association and the lessons learned from it. He noted that the Arkansas Rural Water Association planned to perform scanning during its conference in October. He asked the Committee to begin the process of developing a guideline on scanning at conferences and to include AWW&WEA, ARWA, and AW&WMA in the process. The Committee discussed the tracking of training and committed to start developing the guideline during their next meeting.

Williams reviewed the Committee's appointment of Bill Brice, Manager of Conway County Regional Water Distribution District, to the legislative Task Force on Water Source Protection created by Act 1171 of 2009. Hart requested that the Committee confirm the appointment of Brice which had been completed

through phone calls and emails due to time limitations, which the Committee did through a motion and a vote.

#### **New Business**

As 2010 goals for the Committee, Williams identified the continued development of electronic tracking of attendance at operator training courses and the development of guidelines for the tracking. He also wants to keep a check on the ABC multi entry concept exam process until the ABC Board has finalized its direction.

Hart brought to the Committee's attention Act 1184, the creation of a legislative Task Force on Water Quality and the need to appoint a member. Several names were discussed and it was agreed that the individuals would be contacted to see if they would be willing to serve. A vote on the appointee would be completed by email similar to what was done for Act 1171.

Hart reviewed the Section's 2008 Annual Compliance Report (page 4) and noted the largest concerns for compliance were the Disinfection By-Products and Total Coliform Rules. He provided the Committee an overview of DPB compliance issues and the Section's technical assistance efforts to impacted water systems.

Hart discussed proposed changes to the "Rules & Regulations Pertaining to Public Water Systems" (page 3) and provided a hand out to Committee members summarizing the changes.

Nutt reported that the 2009 renewal process was going well with no significant backlog. He attributed that to a capable staff and the ability to retrieve documentation of training hours from online sources. Nutt said that he had tried to integrate a listing of the training hours attended on an operator's renewal invoice but that space limitations had prevented it. He said the need for such a listing had been largely eliminated since operators could download their training hours and submit the list with the renewal payment. Renewal wallet cards have each operator's training ID number in barcode printed on the back

side of the card. Nutt stated there will be a \$5.00 penalty added to outstanding renewal invoices at the end of July 2009 with approximately two thirds of renewal fees having been paid to date.

**Committee Reports**

Hart provided an Executive Secretary/Section Director's report. He stated that the new state fiscal year had begun with little budget change from last year. He provided an update on staffing changes and he reported on an appearance at a May Legislative Audit Committee meeting where a report was released on a travel fraud scheme by two former Engineering Section employees.

Hart said that based on requests from water systems, the Section was preparing to present a number of one day training sessions around the state focusing on disinfection by products compliance for consecutive systems. Hart concluded with a reminder to Committee members that the Arkansas Natural Resources Commission was still seeking projects for its stimulus funding and, in particular, for projects that would meet the "green" criteria.

Nutt provided a Training & Certification Officer's report. He reviewed a spreadsheet summarizing the results of licensing examinations

**Need help with training travel costs?  
USEPA OpCert Training Grant available**

Assistance with meals and lodging expenses is available for all mandatory water license exam training courses, for Community and Non-Community Non-Transient Public Water Systems serving fewer than 3300 persons. Please contact the below shown training providers to determine your grant eligibility and to register for the grant eligible courses. Backflow repair and backflow tester courses, including registration fees have been included in the grant. Registration should be done well in advance of attending a course. The latest listing of courses can be found at: [www.healthyarkansas.com/eng/autoupdates/oper/opcertlinks.htm](http://www.healthyarkansas.com/eng/autoupdates/oper/opcertlinks.htm)

Contact information for the two grant eligible trainers is:  
 AR Environmental Academy – Contact Letitia Rusch – (870) 574-4551 – [lrusch@sautech.edu](mailto:lrusch@sautech.edu)  
 AR Rural Water Association – Contact Carol Shaw – (501) 676-2255 – [info@arkansasruralwater.org](mailto:info@arkansasruralwater.org)

and noted that he was seeing no significant shifts in exam performance. He brought to the Committee's attention the low number of exams being given at some exam sessions. He then reviewed the Operator Licensing Enforcement Summary for those water systems without a licensed operator, and noted that the Engineering Section's enforcement policy was doing an effective job.

Harper provided a report from the Arkansas Environmental Academy. He gave a brief overview of the Academy's present budget and noted that it will be separate from SAU

Tech's general revenue budget in the future. Harper stated that the name of the Academy had been officially changed to the Arkansas Environmental Training Academy and that a new logo will be developed. Harper said the 2009 Legislature had provided partial funding for additional classroom space at the Academy.

Nutt provided the Committee a written report from Arkansas Rural Water Association on the training provided since the last Committee meeting.

The next meeting date was set for October 14, 2009.♦

**WATER OPERATOR LICENSE EXAMINATIONS**

Up to date listing: <http://www.healthyarkansas.com/eng/autoupdates/oper/operexam.htm>

Listed below are the dates and locations of examination sessions. 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 and other electronic communication devices are not allowed in exam sessions. Non-programmable calculators are allowed.

DATE	CITY	LOCATION	TIME
10/14/09	Hot Springs	ARWA Conference, Convention Center	9:00 AM
10/15/09	Camden	Arkansas Environmental Academy, 100 Carr Road	9:00 AM
10/23/09	Arkadelphia	Recreation Center, 2575 Twin Rivers Dr	9:00 AM
10/30/09	Midway/Mt Home	Baxter Co OEM Training Facility, 170 Dillard Dr.	9:00 AM
11/06/09	Arkadelphia	Recreation Center, 2575 Twin Rivers Dr	9:00 AM
11/06/09	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	9:00 AM
11/20/09	Arkadelphia	Recreation Center, 2575 Twin Rivers Dr	9:00 AM
12/04/09	Camden	Arkansas Environmental Academy, 100 Carr Road	9:00 AM
12/04/09	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	9:00 AM
12/04/09	Midway/Mt Home	Baxter Co OEM Training Facility, 170 Dillard Dr.	9:00 AM
12/18/09	Jonesboro	CWL Service Center, Johnson & Main	9:00 AM

The above exam session information is subject to change. You should confirm this information just prior to the scheduled examination period. You may confirm the exam session and its location by contacting your District Specialist or Engineer at (501) 661-2623.

Please verify that your license application has been filed with the Engineering Section 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 prior to an exam.

ENGINEERING SECTION  
 ARKANSAS DEPARTMENT OF HEALTH  
 4815 WEST MARKHAM, SLOT 37  
 LITTLE ROCK, AR 72205-3867  
 (501) 661-2623  
[www.HealthyArkansas.com/eng/](http://www.HealthyArkansas.com/eng/)

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Return Service Requested

AWW&WEA District Meetings

See also the Division's web site [www.healthyarkansas.com/eng/](http://www.healthyarkansas.com/eng/) for updates.

DATE	TIME	CITY	LOCATION	SPONSOR
<b>October 2009</b>				
1	5:45PM	Benton	Browns Country Buffet	Central District, AWW&WEA
1	6:30PM	Fort Smith	Golden Corral	Western District, AWW&WEA
8	5:00PM	Russellville	Western Sizzlin	AR Valley District, AWW&WEA
8	5:00PM	Batesville	Western Sizzlin	North Central District, AWW&WEA
8	5:00PM	West Memphis	Water Office – 604 Cooper	Eastern District, AWW&WEA
14	8:30AM	Eureka Springs	Best Western Inn of the Ozarks	Northwest District, AWW&WEA
15	12:30PM	Paragould	Service Center Bldg.	Northeast District, AWW&WEA
20	6:30PM	Monticello	Western Sizzlin	Southeast District, AWW&WEA
22	6:00PM	Waldo	Western Sizzlin	Southwest District, AWW&WEA
<b>November 2009</b>				
5	5:45PM	Conway	First Church of the Nazarene	Central District, AWW&WEA
5	6:30PM	Fort Smith	Golden Corral	Western District, AWW&WEA
12	5:00PM	Marianna	Cleo's Restaurant	Eastern District, AWW&WEA
12	5:00PM	Russellville	Western Sizzlin	AR Valley District, AWW&WEA
12	5:00PM	Batesville	Western Sizzlin	North Central District, AWW&WEA
17	6:30PM	Crossett	Western Sizzlin	Southeast District, AWW&WEA
18	8:30AM	Berryville	Community Center	Northwest District, AWW&WEA
19	12:30PM	Jonesboro	Western Sizzlin	Northeast District, AWW&WEA
19	6:00PM	Hope	Western Sizzlin	Southwest District, AWW&WEA
<b>December 2009</b>				
3	5:45PM	Benton	Brown's Country Buffett	Central District, AWW&WEA
3	6:30PM	Fort Smith	Golden Corral	Western District, AWW&WEA
10	5:00PM	Russellville	Western Sizzlin	AR Valley District, AWW&WEA
10	5:00PM	Batesville	Western Sizzlin	North Central District, AWW&WEA
11	5:00PM	Forrest City	Brinkley Civic Center (Xmas Party)	Eastern District, AWW&WEA
15	6:30PM	Star City	FUMC Family Life Center	Southeast District, AWW&WEA
16	8:30AM	Fayetteville	Town Center	Northwest District, AWW&WEA
17	12:30PM	Jonesboro	Ron's Catfish	Northeast District, AWW&WEA

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