



# ARKANSAS DRINKING WATER UPDATE

## EPA proposes lowers fluoride reference dose; DHHS proposes lower optimal level

The U.S. Environmental Protection Agency and the U.S. Department of Health and Human Services made announcements in January regarding fluoride in drinking water. The announcements were labeled as measures to ensure the maximum health benefits of water fluoridation while also reducing the possibility of children receiving too much fluoride.

EPA advised that it will begin reviewing the current maximum contaminant level for fluoride in drinking water, the highest level allowed under the Safe Drinking Water Act and which is currently set at 4 parts per million, to determine if a new MCL is needed. Its decision is based on a new risk assessment for fluoride which examined whether current standards are protective of tooth enamel staining and pitting (dental fluorosis), skeletal fluorosis, and bone fractures. The risk assessment proposed a new reference dose of 0.08 mg/kg/day, while the old reference dose was set at 0.12 mg/kg/day. A reference dose is the total daily exposure to a chemical at a level which will not be harmful during a lifetime. The reference dose is used in the determination of the drinking water maximum contaminant level. With a lower reference dose having been proposed, the likelihood is good that EPA will also eventually lower the MCL.

Concurrent with EPA's announcement was a notice from DHHS proposing a revised optimal level for fluoride in drinking water of 0.7 parts per million. The previous recommended level depended on the latitude where one lived and varied from 0.7 to 1.2 parts per million. In Arkansas, the level was 0.8 parts per million except for a few counties along the northern border where the recommended level was 0.9 ppm.

DHHS and EPA data indicate that fluoride exposure among the population had increased in the last 50 years due to its presence in dental products such as toothpaste, mouthwash, and tooth varnishes. Additionally, the public was ingesting more fluoride due to its presence in a number of foods and beverages. Also, the agency had found that there was little difference in the

*See **Fluoride** on page 6*

## Dental group to fund capital costs for new fluoridation directive

Delta Dental Foundation of Arkansas has pledged one-half million dollars, or more, to fund equipment and installation costs as part of a recently passed fluoridation law in Arkansas.

The 88<sup>th</sup> Arkansas General Assembly passed legislation in March which will require fluoridation for all public water systems which furnish drinking water, whether through retail or wholesale sales, to a population equal to or greater than 5,000. The legislation, SB 359, was sponsored by Senator David Johnson of Little Rock and cosponsored by 42 additional legislators. It became Act 197 after being signed by Governor Mike Beebe on March 4.

Delta Dental Foundation President Ed Choate told members of the House Public Health Committee that the Foundation would add to the initial \$0.5 million pledge if additional funds were needed. He also invited smaller water systems not affected by the bill to apply for grant funds in order to begin fluoridation.

Act 197 states that affected water systems are not required to comply with the statute until sufficient funds other than those from tax or service revenue are available to pay reasonable capital start-up costs. The Act requires the Department of Health to adopt rules for the fluoride concentration that water

*See **Act 197** on page 2*

## 2011 Arkansas General Assembly Bills

The 88<sup>th</sup> General Assembly was due to adjourn in early April after a session whose accomplishments included limiting state spending increases combined with \$35 million in tax cuts.

While not a comprehensive list, legislation which could impact public water systems and which have become law are listed below. The language of any bill or new statute can be found at [www.arkleg.state.ar.us/assembly/2011/2011R/Pages/Home.aspx](http://www.arkleg.state.ar.us/assembly/2011/2011R/Pages/Home.aspx).

HB1351, Act 284: allows a public water system not under a city administration to terminate water service for nonpayment of water or sewer service provided that the bill is at least 25 days overdue and postal notice is provided at least 15 days before service is terminated.

HB1185, Act 210: requires all improvement districts that use the county collector for assessments to file an annual report.

HB1441, Act 605: increases from 500 to 750 the minimum number of

*See **General Assembly Bills** on page 10*

Inside the <i>Update</i>	Page
Optimally fluoridated systems.....	2
Systems impacted by Act 197.....	3
Act 197 language.....	4
Plans for Ozark Mtn approved.....	5
Regs for Perchlorate & VOCs ....	6
Compliance extension requests....	7
Arkansas Drinking Water Week...8	
Chromium-6 recommendations....9	
Training & tech. assist.11,14,15,16	

**Act 197**, continued from page 1 systems will need to maintain as well as requirements for testing, record keeping, and reporting.

Critics of the bill focused on continued operational cost for water systems after start-up and on what they viewed as governmental intrusion in a decision best made at the local level.

Proponents of the bill cited the monetary and public health benefits which would result from fluoridation, particularly for children, and referred to a January survey of Arkansans which showed support for fluoridation.

A poll commissioned by the Washington, D.C. based Pew Center on the States of 500 Arkansas registered voters in January found 67 percent supported a bill to expand fluoridation to more communities and 28 percent were opposed.

Supporters of the bill pointed out that the average annual operating cost for fluoridation of \$0.50 per person per year would have a much higher payback. Among the paybacks listed were a reduction in Medicaid costs for the state because of fewer cavities in children; reduced lost time at work and in school due to fewer dental problems; and reduced health care costs for families since the average expense to fill one cavity is more twice the individual lifetime cost to supply properly fluoridated water.

Proponents also argued that like the health benefits resulting from the addition of vitamin D to milk and iodine to salt, the benefits of fluoridation transcended the local choice argument.

**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.

## Optimally fluoridated water systems in 2010

Fluoridation's benefits are best realized if the fluoride level is maintained at therapeutic concentrations in the water. For most of Arkansas, that optimum level has been 0.8 parts per million, or 0.9 ppm for the counties along the northern border of the state. Those levels may be revised later this year based on the updated recommendations from the Centers for Disease Control (see article page 1).

To help ensure that fluoride levels are maintained at those levels, the Department of Health has established criteria for water systems to be designated as optimally fluoridated. Those criteria consist of:

- The monthly average fluoride concentration in the treated water is maintained at the optimal level (between 0.7 and 1.3 ppm or between 0.8 and 1.4 ppm, depending on the county).
- Fluoride levels are analyzed daily for at least 75% of the days in the month that the system's treatment plant operated.
- At least 75% of the daily samples are within optimal levels.
- A quality control sample is sent to the ADH in each month of the year. The sample is to be a split sample and the result from the water system's own analytical equipment must be within 0.2 ppm of the result of the ADH Laboratory.

Arkansas water systems that were optimally fluoridated in calendar year 2010 are listed in the table below. All of these systems are to be commended for contributing to improved oral health for the customers who live and work in their community, and in any consecutive water systems which they supply.

There are other water systems in the state that fluoridate but which did not make the list because they failed to meet one or more of the above criteria. If you have questions about whether your community is fluoridated, why your community was not optimally fluoridated, or general fluoridation information, contact Glenn Greenway or visit <http://apps.nccd.cdc.gov/MWF/Index.asp>.

Water System	County	Water System	County
ARKADELPHIA WATER	Clark	JACKSONVILLE WATER	Pulaski
ATKINS WATER SYSTEM	Pope	JAMES FORK REGIONAL WATER DISTRICT	Sebastian
BATESVILLE WATER	Independence	JONESBORO WATER	Craighead
BEAVER WATER DISTRICT	Benton	KIMZEY REGIONAL WATER DISTRICT	Hot Spring
BEEBE WATER	White	LAKE CITY WATER	Craighead
BENTON WATER	Saline	MANILA WATER	Mississippi
BIGELOW WATER	Perry	MARIANNA WATER	Lee
BLYTHEVILLE WATER	Mississippi	MARION WATER	Crittenden
CABOT WATER	Lonoke	MAUMELLE WATER MANAGEMENT	Pulaski
CARLISLE WATER	Lonoke	MOUNTAIN HOME WATER	Baxter
CENTRAL ARKANSAS WATER	Pulaski	OSCEOLA WATER	Mississippi
RUSSELLVILLE CITY CORP	Pope	PARAGOULD WATER	Greene
CLARENDON WATER	Monroe	PARIS WATER	Logan
CLARKSVILLE WATER	Johnson	PERRYVILLE WATER	Perry
CLINTON WATER	Van Buren	PIGGOTT WATER	Clay
CONWAY WATER	Faulkner	POCAHONTAS WATER	Randolph
DEWITT WATER	Arkansas	PRESCOTT WATER	Nevada
EAST END WATER IMP DIST 1	Saline	SHERIDAN WATER	Grant
EUDORA WATER	Chicot	SILOAM SPRINGS WATER	Benton
FORREST CITY WATER	St. Francis	SOUTH SHERIDAN WATER	Grant
HARRISBURG WATER	Poinsett	STUTTGART WATER	Arkansas
HEBER SPRINGS WATER	Cleburne	WEST HELENA WATER	Phillips
HELENA WATER	Phillips	WEST MEMPHIS WATER	Crittenden
HOPE WATER	Hempstead		

## Water systems impacted by new fluoride law

Source water systems, those which produce and treat water, which serve a total population of greater than 5000 and do not fluoridate are listed in the left column of the tables below. Consecutive systems which are supplied by each source system are listed in the right column. More information on the implementation of Act 197 will be provided to water systems as the ADH drafts its regulations and obtains information from Delta Dental Foundation on the grant application process. The language of Act 197 is found on the next page or a copy can be obtained at the website for the Arkansas 88<sup>th</sup> General Assembly: [www.arkleg.state.ar.us/assembly/2011/2011R/Pages/Home.aspx](http://www.arkleg.state.ar.us/assembly/2011/2011R/Pages/Home.aspx) .

Source System	Consecutive System
ALMA WATERWORKS	DYER WATERWORKS
	KIBLER WATER SYSTEM
	REDHILL WATER ASSOCIATION
	MAGAZINE WATERWORKS
BOONEVILLE WATERWORKS	MILLTOWN-WASHBURN WATER USERS
	RATCLIFF WATERWORKS
	SOUTH LOGAN COUNTY WATER
CARROLL-BOONE WATER DISTRICT	GREEN FOREST WATERWORKS
	SW BOONE COUNTY WATER ASSOC
	GREEN FOREST WATERWORKS
	GRASSY KNOB SUBORDINATE SD
	EUREKA SPRINGS WATERWORKS
	BERRYVILLE WATERWORKS
CHEROKEE VILLAGE WATER ASSOC	None
CLAY CO REG WATER DISTRICT	PEACH ORCHARD WATERWORKS
	PIGGOTT WATERWORKS
	SUCCESS WATERWORKS
	O KEAN WATERWORKS
	DELAPLAINE WATERWORKS
	KNOBEL WATERWORKS
COMMUNITY WATER SYSTEM	WEST STONE COUNTY WATER ASSN
	VILONIA WATERWORKS
	SHIRLEY WATERWORKS
	MAYFLOWER WATERWORKS
	WOOSTER WATERWORKS
	GUY WATERWORKS
	GREENBRIER WATERWORKS
	DAMASCUS WATER WORKS
	BEAVERFORK VOLUNTEER FD WSD
	QUITMAN WATERWORKS
CROSS COUNTY RURAL WATER	None

Source System	Consecutive System
DANVILLE WATERWORKS	BELLEVILLE WATER
	TRI COUNTY RWDD -MOORES CHAPEL
	NE YELL COUNTY WATER ASSOC
	HAVANA WATERWORKS
	BELLEVILLE WATER
	NE YELL COUNTY WATER ASSOC
DEQUEEN WATERWORKS	None
DUMAS WATERWORKS	GARRETT BRIDGE WATER ASSOC
	PENDLETON-PEA RIDGE WATER ASSN
FORT SMITH WATER UTILITIES	LAVACA WATERWORKS
	BARLING WATERWORKS
	CEDARVILLE WATERWORKS
	CENTRAL WATER USERS ASSOC
	CHESTER WATER WORKS
	CONCORD WATER
	EAST LAKE WATER USERS ASSN
	HWY 71 WATER DISTRICT #1 PWA
	MOUNTAINBURG WATER
	OAK GROVE WATER ASSOCIATION
	VAN BUREN WATERWORKS
	WINSLOW WATERWORKS
	FCMTC WATERWORKS
GRAND PRAIRIE BAYOU TWO	WARD WATERWORKS
GREENWOOD WATERWORKS	None
HOT SPRINGS VILLAGE	None
HOT SPRINGS	MOUNTAIN PINE WATERWORKS
	RIVIERA UTILITIES
HWY 63	None
LAWRENCE CO REGIONAL WATER	SEDGWICK WATERWORKS
	ALICIA WATER SYSTEM

*Continued on page 4*

Water systems impacted by Act 197 continued

Source System	Consecutive System
LITTLE RIVER CO RDA	WINTHROP WATER ASSOCIATION
	FOREMAN WATERWORKS
MADISON CO REGIONAL WATER	HUNTSVILLE
	MADISON CO WFB
	MOUNT OLIVE
	BENTON CO WATER #5
MAGNOLIA WATERWORKS	LYDESDALE WATER ASSOCIATION
	WALKER WATER ASSOCIATION
	LAKESIDE WATER ASSOCIATION
	FREE HOPE WATER ASSOCIATION
MARION COUNTY REG WATER DIST	BULL SHOALS WATER SYSTEM
	FLIPPIN WATERWORKS
	SUMMIT WATERWORKS
	YELLVILLE WATERWORKS
MC GEHEE WATERWORKS	WKMM RURAL WATER ASSOCIATION
MENA WATER DEPT	FREEDOM WATER ASSOCIATION
	ACORN RURAL WATER ASSN
MOUNTAIN VIEW WATERWORKS	RICHWOOD WATER ASSOCIATION
	SYLAMORE VALLEY WATER ASSN
	PLEASANT GROVE
	WEST STONE COUNTY WATER ASSN
N GARLAND CO REG WATER DIST	PARON OWENSVILLE
OZARK WATERWORKS	RIVERSOUTH RURAL WATER DIST
	PLEASANT VIEW WATER FAC BOARD
	ALTUS WATERWORKS
	WATALULA WATER ASSOCIATION
SARDIS WATER ASSOCIATION	None
SOUTHSIDE WATERWORKS	None
WARD WATERWORKS	None
WARREN	CORINTH VALLEY WATER SYSTEM
	SW WARREN WATER ASSOC
	BRADLEY CO RURAL WATER ASSOC

Source System	Consecutive System
WATSON CHAPEL WATER ASSOC	None
WESTERN GREENE COUNTY R W D	None
YORKTOWN WATER ASSOCIATION	COLT WATER ASSOCIATION

### Act 197 Language

SECTION 1. Arkansas Code Title 20, Chapter 7, Subchapter 1 is amended to add an additional section to read as follows:

20-7-136. Statewide fluoridation program.

(a) As used in this section, "water system" means a facility including without limitation a parent system, consecutive system, or other system that holds, treats, and supplies water directly or through a consecutive system or consecutive systems to five thousand (5,000) persons or more.

(b) The company, corporation, municipality, county, government agency, or other entity that owns or controls a water system shall control the quantity of fluoride in the water so as to maintain a fluoride content established by the Department of Health.

(c) The State Board of Health shall adopt rules relating to the fluoridation of water systems that shall include without limitation:

(1) Permissible concentrations of fluoride to be maintained by a water system; and

(2) Requirements and procedures for maintaining permissible concentrations of fluoride including without limitation:

(A) Necessary equipment; (B) Recordkeeping; (C) Reporting; and (D) Testing.

(d)(1) A water system required to fluoridate under this section is not required to comply with the requirements of this section until funds sufficient to pay capital start-up costs for fluoridation equipment for the system have become available from any source other than tax revenue or service revenue regularly collected by the company, corporation, municipality, county, or other government agency that owns or controls the water system.

(2) A licensed civil engineer recognized or employed by the department who is familiar with the design, construction, operation, and maintenance of fluoridation systems shall determine for the department whether the capital start-up costs claimed under subdivision (d)(1) of this section are reasonable.

(e) A water system for a city in this state that receives its water supply from a community in another state is not required to comply with this section until a substantially similar fluoridation program is enacted for the water system of the community in the other state.

# Construction plans approved for regional water authority

Jeff Stone, P.E., Chief Engineer

The Arkansas Department of Health approved in January the final design plans for the Ozark Mountain Regional Public Water Authority. The large water system is designed to bring high quality drinking water to 20 towns and water systems primarily located in Boone, Newton and Searcy Counties.

Construction of the \$72 million project is being provided primarily by the U.S. Department of Agriculture - Rural Development and the Arkansas Natural Resources Commission.

The Authority will obtain source water from Lake Bull Shoals at an intake location in Boone County near Lead Hill. After treatment, water will be distributed through more than 100 miles of pipelines to the participating communities. The project is the result of many years of diligent

effort by the communities involved in order to be able to enjoy plentiful and safe drinking water.

Components of the system include the lake intake; a 4.5 MGD conventional surface water treatment plant consisting of an upflow clarifier,

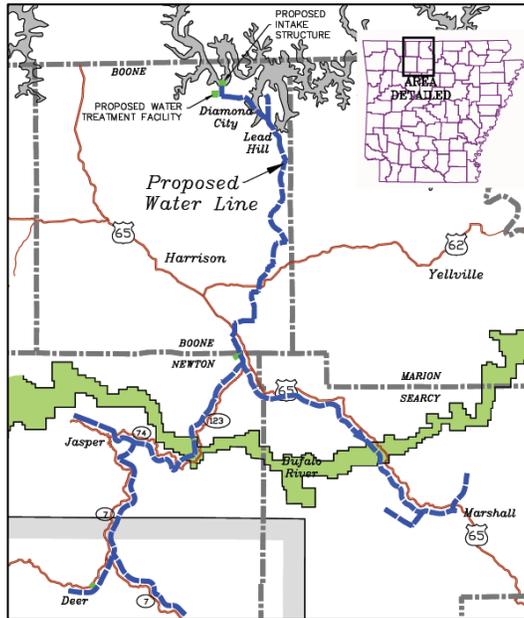
three adsorption clarifiers, three filters and a clearwell; 593,000 feet of 8 to 24-inch transmission mains, six storage tanks whose volumes vary from 0.1 MG to 0.5 MG; and nine pump stations whose capacities range from 60 gpm to 3000 gpm. Construction is projected to be completed in the summer of

2012.

Several of the participating communities have suffered through years of utilizing drinking water that was in short supply, of low quality, or was not in compliance with the Safe Drinking Water Act. Six water systems in Searcy and Newton Counties have had to use wells that contain elevated levels of radium, fluoride or both. The Mt. Sherman, SDM, and South Mountain water systems all utilized sources containing levels of radium in excess of the Safe Drinking Water Act. The Morning Star and SDM water systems each utilized sources containing levels of fluoride in excess of allowable limits of 4 ppm. The East Newton County and the Mockingbird Hill water system utilized sources that contained fluoride in excess of the secondary limit of 2 ppm. It is a public health success that these systems' customers will soon be provided water that meets all the requirements of the Safe Drinking Water Act.

Four of the participating water systems - Jasper, Deer, Parthenon and Leslie, have relied on well sources that have been found to be directly influenced by surface water. This makes those sources more vulnerable to possible contamination. The City of Marshall has relied upon a rainfall dependent spring source and has operated an ageing filtration plant.

Other participating water systems, while not experiencing water quality compliance problems, have endured years of insufficient quantity, especially during the summertime. Once construction is completed, these systems will begin to enjoy ample supplies of high quality drinking water.♦



Courtesy of Engineering Services, Inc.

## Fed budget uncertain but cuts not

As this document goes to print, the federal government continues to avoid a shutdown due to the lack of a permanent budget, and operates on a series of continuing resolutions passed by Congress. Exactly when the federal budget will be finalized is unclear, but what is certain is that there will be federal cuts for the remainder of this year and continuing into 2012.

Under the latest continuing resolution, Congress agreed to \$10 billion in reductions from last year's spending level. Those cuts are directed primarily at earmarks and programs the federal government deemed redundant. In Arkansas, a variety of funding reductions in everything from student loans to fish hatcheries have been predicted.

The drinking water State Revolving Loan Fund which had an appropriation of \$1.38 billion nationally in fiscal year 2010 has been proposed in President Obama 2012 budget to be reduced to \$990 million. EPA's overall budget has been proposed to be reduced by \$1.3 billion. These are only the starting point for spending negotiations with Congress. House Republicans have proposed larger cuts in both categories.

### Ozark Mountain Regional Public Water Authority

- City of Jasper
- Mt. Sherman Water Assoc.
- Nail-Swain Water Assoc.
- East Newton County Water Assoc.
- Mockingbird Hill Water Assoc.
- Deer Community Water Assoc.
- Town of Western Grove
- Parthenon Water Assoc.
- SP&G Water Assoc.
- City of Marshall
- South Mountain Water Assoc.
- SDM Water Assoc.
- Town of Leslie
- Morning Star Water Assoc.
- Town of Valley Springs
- Town of Diamond City
- Town of Lead Hill
- Lake Bull Shoals Estates
- Buffalo River - National Park Service

# Perchlorate and VOCs to be regulated by EPA

EPA Administrator Lisa Jackson announced in February that the agency intended to move forward with the development of drinking water regulations for perchlorate and for a group of volatile organic chemicals.

The first ever national standard for perchlorate is needed, according to Jackson, because research indicates it may impact the normal function of the thyroid and the production of important hormones, particularly in children.

Perchlorate is both a naturally occurring and a man-made chemical. It is found in rocket fuel, fireworks, and explosives, and may be present in bleach and some fertilizers. In the announcement, EPA stated that monitoring data showed that four percent of public water systems have detected perchlorate, and that its regulation is based on information which has been peer reviewed by independent scientists and public health experts.

The decision reverses an October 2008 preliminary determination by EPA under the Bush Administration that the regulation of perchlorate was not warranted. At that time, EPA concluded that perchlorate's regulation would not present a meaningful

opportunity to reduce health risks for persons served by public water, a regulation criteria required by the Safe Drinking Water Act. Data showed that only one percent of water systems contained perchlorate at a level above 15 parts per billion, the recommended health based standard at the time.

EPA expects to promulgate a perchlorate standard within 24 months and a final standard within 18 months of the close of the public comment period.

The decision to regulate the volatile organic compounds is part of EPA's 2010 Drinking Water Strategy to address contaminants as a group rather than one at a time. The purpose of the Strategy is to include contaminants that have a similar health endpoint; are likely to occur together; can be measured using the same analytical methods; and can be removed using the same treatment technology. EPA decided to address the 16 compounds as a group because they met all the criteria.

The list of compounds includes both currently regulated and unregulated contaminants. EPA had determined last year that stricter regulations for trichloroethylene and tetrachloroethylene were needed, and both of these contaminants will be included in the list of 16 VOC compounds.

Currently regulated compounds on the list of 16 consist of:

- benzene
- carbon tetrachloride
- 1,2-dichloroethane
- 1,2-dichloropropane
- Dichloromethane
- Tetrachloroethylene
- Trichloroethylene
- Vinyl chloride

Unregulated compounds consist of:

- aniline
- benzyl chloride
- 1,3-butadiene
- 1,1-dichloroethane
- nitrobenzene
- oxirane methyl
- 1,2,3-trichloropropane
- urethane

All of the VOCs are known or suspected to cause cancer. EPA projected that it will take about 2 years to develop a proposed rule and another 2 years to promulgate a final rule. ♦

## WATER SYSTEM IMPROVEMENTS

BERRYVILLE: 3000 feet of 8-inch pipe, Hwy 62 relocation.  
BLACK OAK: 2200 feet 2 & 3 inch pipe, Hwy 18 relocation.  
CAMDEN: 22,400 feet of 16-inch water line near the Camden Airport.  
CENTRAL ARKANSAS WATER: 6000 ft. of 8 to 16-inch pipe along Hwy 5.  
ENON WATER ASSOCIATION: 2500 feet of 6-inch pipe, Hwy 35 relocation.  
FAYETTEVILLE: 2900 feet of 8-inch pipe near Canterbury Road.  
LUXORA; 37,500 gallon reaction tank at the water treatment plant.  
NORTH PULASKI WATERWORKS: 69,000 feet of 2 to 6-inch water lines, a 0.1 MG elevated tank, and a 150 gpm duplex pump station to serve additional customers in north Pulaski County.  
OZARK MOUNTAIN REGIONAL PUBLIC WATER AUTHORITY: Bull Shoals Lake intake, treatment plant, 593,000 ft. of 8 to 24-inch transmission mains, 6 storage tanks, and 9 pump stations to serve 20 water systems in Boone, Newton, and Searcy counties (see article page 5).  
PRESCOTT: 0.3 MG elevated tank near Ron Harrod Drive.  
TRI-COUNTY REGIONAL WATER DISTRIBUTION DISTRICT: 3900 feet of 8-inch line and a 150 gpm duplex pump station to serve the City of Plainview.  
TRI-COUNTY REGIONAL WATER DISTRIBUTION DISTRICT: 198,000 feet of 2 to 8-inch pipe, 250 gpm booster pump station, and 0.27 MG standpipe to supply additional customers in Yell County.

## Fluoride, *continued from page 1*

amount of tap water being consumed regardless of where the public lived because of the prevalence of air conditioning and the greater consumption by the public of bottled beverages as a substitute for tap water.

DHSS concluded that this exposure to greater levels of fluoride in dental products, foods, and beverages combined with consuming fluoridated drinking water could lead to an overexposure of fluoride and a potential for the discoloration or pitting of teeth, particularly in children.

DHSS emphasized that parents should continue to utilize normal practices in the care of their children's teeth including brushing twice each day with a toothpaste containing fluoride. Information on the announcements can be found at <http://www.hhs.gov/news/press/2011pres/01/20110107a.html>.

Water systems which contain fluoride levels above the MCL must continue to notify their customers in order that consumers can take precautions against overexposure.

# The time is NOW to submit any LT2 or Stage2 compliance extension request

Donald H Fiegel, Environmental Health Specialist

Water systems which are undertaking capital improvement and do not believe they will meet the compliance deadlines for the Long Term 2 Enhanced Surface Water Treatment Rule or the Stage 2 Disinfectants and Disinfection By Product Rule need to have their compliance extension request submitted as soon as possible. This includes consecutive systems which are supplied wholesale water.

Compliance dates vary between 2012 and 2014 depending on the population served by the water system or its supplier, but those dates are approaching quickly. Language in the Rules allow States to grant an extension to the compliance dates. While the Rule language provides no conditions or guidance for granting such extensions, a plain reading of the regulations indicates:

- A) Each extension request is water system specific;
- B) The water system making the request has clear evidence that it will not be in compliance by the deadline;

and,

C) Capital improvements will be necessary in order for the system to comply with the additional treatment requirement or MCL.

As a result of this understanding, the Engineering Section has developed the following list of information that will need to be submitted by a water system in order to evaluate the extension request.

### Extension Request Requirements

1. Submit a statement that the water system is making an extension request and include documentation to support the statement. For a Long Term 2 extension, that would consist of documentation that treatment credits listed in the Microbial Toolbox cannot be met under current plant conditions. For a Stage 2 Rule extension, that would be documentation that at least one Stage 2 sample site will likely not comply with the MCL. Documentation can include investigative disinfection by-product analyses, extrapolation of existing Stage 1 data, or other suitable

information.

2. Submit an explanation on why compliance cannot be met by the date applicable for the system and include any prior efforts the water system has undertaken to comply with the regulation. Include an explanation on why those efforts were not successful.

3. Submit information on what the water system is or will be doing to address the apparent inability to meet compliance by the compliance date such as a preliminary engineering report, unit process study, pilot study, bench testing, or other investigative work. Include the timeframe and applicable milestones for the work.

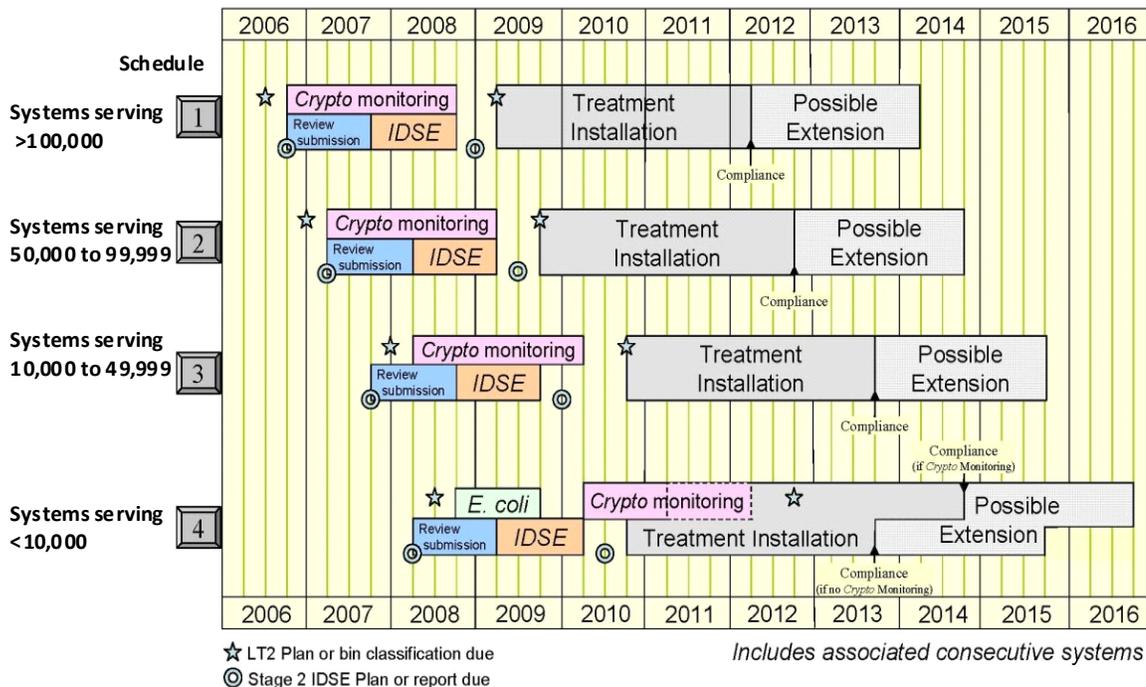
4. Submit information on the capital improvements required, and the timeframe and milestones for the completion of that work. If this information is dependent on Item #3, then an estimated timeframe and milestones should be submitted.

Even though the compliance date for a wholesale customer with the Stage 2 Rule is the same as the parent system which supplies them, compliance with the regulation is system specific. As a result, extension requests must be system specific. A wholesale customer can utilize information about the capital

improvements and timetables applicable to the regional system, but separate extension requests need to be made by each of the wholesale customers.

There are a number of considerations for the Engineering Section to weigh, so please get those requests in as soon as possible. If you have any questions, please contact Don Fiegel or Lyle Godfrey with the Engineering Section. ♦

## Implementation Timeline for the LT2 and/or State 2 DBP



# WATER OPERATOR LICENSE EXAMINATIONS

Most Current Listing is at: [www.healthy.arkansas.gov/eng/autoupdates/oper/operexam.htm](http://www.healthy.arkansas.gov/eng/autoupdates/oper/operexam.htm)

Listed below are the dates and locations of examination sessions as scheduled, as of April 1, 2011. 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	Start Time
05/04/11	Hot Springs	AWW&WEA Annual Conf, HS Convention Center	9:00 AM
05/20/11	Bono	Bono Community Center, 100 Woodland Trail	9:00 AM
05/20/11	Russellville	Tri-County Water, 5306 N Arkansas Ave	9:00 AM
05/27/11	Camden	AR Environmental Training Academy, 100 Carr Road	9:00 AM
05/27/11	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	9:00 AM
06/10/11	Hot Springs	HS Transportation Depot, 100 Broadway Terrace	9:00 AM
06/24/11	Paragould	Holiday Inn Express, 3502 Linwood Dr	9:00 AM
07/01/11	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	9:00 AM
07/01/11	West Fork	Wenzel Community Center, 222 Webber	9:00 AM
07/15/11	Nashville	Carter Day Center, 200 Nichols Drive	9:00 AM
07/15/11	Russellville	Tri-County Water, 5306 N Arkansas Ave	9:00 AM
07/22/11	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	9:00 AM
07/22/11	N Little Rock	CAW Maryland Complex, 1500 West Maryland Ave	9:00 AM
07/29/11	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	9:00 AM
08/12/11	Mtn. Home	Baxter Co OEM Training Facility, 170 Dillard Dr.	9:00 AM
08/26/11	Hot Springs	HS Transportation Depot, 100 Broadway Terrace	9:00 AM
08/26/11	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	9:00 AM
08/26/11	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	9:00 AM
09/09/11	West Fork	Wenzel Community Center, 222 Webber	9:00 AM
09/16/11	Camden	AR Environmental Training Academy, 100 Carr Road	9:00 AM
09/21/11	Hot Springs	ARWA Annual Conf, HS Convention Center	9:00 AM
09/23/11	N Little Rock	CAW Maryland Complex, 1500 West Maryland Ave	9:00 AM
09/30/11	El Dorado	Water Utility Operations Center, 300 S Madison Ave	9:00 AM
10/07/11	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	9:00 AM
10/21/11	Fayetteville	Fayetteville Operations Center, 2435 S Industrial Dr	9:00 AM
10/21/11	Jonesboro	Jonesboro CWL Operations Bldg, 105 W. Johnson	9:00 AM
11/04/11	Camden	AR Environmental Training Academy, 100 Carr Road	9:00 AM
11/04/11	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	9:00 AM
11/04/11	Mtn. Home	Baxter Co OEM Training Facility, 170 Dillard Dr.	9:00 AM
11/18/11	Bono	Bono Community Center, 100 Woodland Trail	9:00 AM
11/18/11	Nashville	Carter Day Center, 200 Nichols Drive	9:00 AM
12/02/11	Camden	AR Environmental Training Academy, 100 Carr Road	9:00 AM
12/02/11	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	9:00 AM
12/09/11	N Little Rock	CAW Maryland Complex, 1500 West Maryland Ave	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. Also, the latest exam schedule information, including future exam sessions, can be viewed on the Internet at: < [www.healthy.arkansas.gov/eng/autoupdates/oper/operexam.htm](http://www.healthy.arkansas.gov/eng/autoupdates/oper/operexam.htm) .

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 prior to sitting for an exam. ♦

## NATIONAL

\* EPA proposed on March 3 the third Unregulated Contaminant Monitoring Regulation (UCMR3) for public water systems. The regulation is a list of unregulated chemicals for which some systems will have to monitor. The regulation will apply to all systems serving more than 10,000 population and a select number of systems serving less than 10,000. The proposed list includes seven hormones or pharmaceuticals; eight VOCs; four metals; chlorate; 1,4-dioxane; and PFOS, PFOA, and 5 other perfluorinated chemicals. Hexavalent chromium was not on the list; however, EPA is requesting comments on whether the metal should be included. The proposed rule should be finalized in about a year and monitoring will occur from 2013 to 2015.

\* Water for People has received a four-star rating, the highest available, from Charity Navigator for the eighth consecutive year. Water for People was founded by the American Water Works Association and provides resources to supply safe water and sanitation for households in developing countries. Charity Navigator is an independent charity evaluator and annually rates over 5,500 of the nation's charitable organizations for a number of factors including overhead costs and how much of donated dollar is delivered in services or programs. Only 1% of the organizations evaluated by Charity Navigator have received eight consecutive four-star ratings.

## ENGINEERING SECTION

\* Aaron Hilborn joined the Engineering Section in December as the District Engineer for southeast Arkansas. He will be conducting plan review, sanitary surveys, and technical assistance for water and wastewater systems in a twelve county area. Aaron holds a Bachelor of Science degree in Biological Engineering from the University of



Arkansas at Fayetteville and is an Engineer Intern. Prior to joining ADH, Aaron worked for two years as a project engineer with a consulting engineer conducting water and wastewater designs.

\* Jason Sells is the new Environmental Health Specialist for District 1 which covers the northwest area of the State. Jason has a B.S. in Biology from Arkansas Tech University. His past experience includes being a Health and Safety



Coordinator for a contractor working in Iraq. Jason also previously worked as a Public Health Investigator for the ADH in the Southwest Region.

\* Andrew Gibbons has joined the Engineering Section as the new Capacity Development Coordinator. Andrew has a B.A. in Biology from Hendrix College in Conway. Before employment with the ADH, Andrew was a Water Volunteer for the Peace Corps in the



Dominican Republic from 2008-2010.

\* Brad Bodman has been hired as an Environmental Health Specialist working with transient non-community water systems. Brad has a BA degree in Earth Science & Geology along with substantial Civil and Environmental Engineering coursework.



His experience includes technical/design work in water resources and land development engineering. Brad is a registered Professional Engineer in Washington, California and Virginia.

\* Mark Jones joined the Engineering Section in February as an Environmental Health Specialist for District 3 which covers the north-east part of the state. Mark has a B.S. in Biology from the University of Central Arkansas. His past experience in-



cludes 14 years of water works sales and service to northeast Arkansas. He also has one year of experience working with a consulting engineering firm in the sampling and analysis of wastewater treatment plant samples.

\* Thomas Johnson is the new Cross Connection Control Program Engineer with the state drinking water program. He will be working with water systems and cities statewide on their cross connection programs. Thomas has a Bachelors



degree in Mechanical Engineering and over 20 years work experience with industrial processes and piping systems.

\* Bobby Makin, P.E., a veteran employee with the Engineering Section, died on March 20. Bob joined the ADH drinking water program in 1977. He served as District Engineer, Engineer Supervisor, Assistant Director, and most recently as



an Engineer PE working on the SWTR and DBP Rules of the Safe Drinking Water Act. While serving as Assistant Director, Bob was instrumental in development and implementation of the Arkansas State Revolving Loan Fund program and management of the various grants to the program. He is survived by his mother, two brothers, and a sister.

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

Community & Nontransient Noncommunity Public Water Systems / October - December, 2009

ALICIA WATER	Bmon 12	NAIL-SWAIN WATER	Bmon 12
ALMA WATER	BMCL 11	NEW LONDON WATER	Bmon 10
ARK ST PARKS, MT MAGAZINE	DMCL 10,11,12	OARK WATER	Bmon 11
BATTS-LAPILE WATER	Bmon 10	PERRY WATER	BMCL 11
BEE BRANCH WATER	Bmon 12	PRAIRIE GROVE WATER	BMCL 11
BENTON COUNTY WATER AUTHORITY #4	Bmon 11, 12	RAVENDEN SPRINGS WATER	BMCL 11
BENTON COUNTY WATER AUTHORITY #4	BMCL 10	SDM WATER	RMCL 10,11,12
BIGGERS BLUFF DEVELOPMENT	Bmon 10	SDM WATER	FMCL 10,11,12
BIGGERS BLUFF DEVELOPMENT	OperLic 10	SOUTH LOGAN COUNTY WATER	BMCL 10
BRECKENRIDGE UNION WATER	Bmon 12	SOUTH MOUNTAIN WATER	RMCL 10,11,12
CABOT WATER	BMCL 12	JAMES FORK REGIONAL WATER DIST	Bmon 12
CARBON CITY WATER	BMCL 10	ST FRANCIS RIVER REGIONAL WATER	Bmon 10
CHARLESTON WATER	Tmon 11,12	ST FRANCIS WATER	BMCL 10
CRABAPPLE POINT WATE	OperLic 10,11,12	ST FRANCIS WATER	Bmon 11
DELL WATER	Bmon 11	SUBIACO ACADEMY WATER	DMCL 10,11,12
DENNING WATER	Bmon 12	SYLAMORE VALLEY WATER	Bmon 12
EAST NEWTON COUNTY WATER	FMCL 10,11,12	SYLVAN SHORES SD WATER	Bmon 12
EAST PRAIRIE COUNTY PWA	BMCL 10	TALL OAKS MHP	IMCL 10,11,12
ELKINS WATER	Bmon 11	TOLLETTE WATER	OperLic 10
ELKINS WATER	Tmon 12	VANDERVOORT WATER	Bmon 12
GARLAND WATER	BMCL 10	WALDRON WATER	DMCL 10,11,12
GRASSY KNOB SUBORD SD	Bmon 11	WALKER WATER	Bmon 10
GREENWICH CENTER	BMCL 11,12	WIEDERKEHR VILLAGE WATER	Bmon 12
HOSANNA HEIGHTS WATER	GWRMCL 10,12	WILSON WATER	BMCL 10
HOSANNA HEIGHTS WATER	Dmon 10,11	WINCHESTER WATER	BMCL 11
HOXIE WATER	Dmon 12	WYNNE WATER	GWRMCL 10
HUNTSVILLE WATER	Bmon 11		
JOHNSON TOWNSHIP WATER	BMCL 11,12		
LEISURE HILLS MHP	Bmon 11		
LITTLE RIVER COUNTY RDA	DMCL 10,11,12		
LYNN WATER	GWRmon 11		
MARIE WATER	BMCL 10,11		
MARMAKDUE WATER	Bmon 12		
MOCKINGBIRD HILL WATER	FMCL 10,11,12		
MORNING STAR WATER	FMCL 10,11,12		
MOUNTAIN PINE WATER	Bmon 12		
MOUNTAIN VIEW WATER	BMCL 10		
MOUNT SHERMAN WATER	RMCL 10,11,12		

**KEY:** Bmon = Bacti Monitoring; BMCL = Bacti MCL; Dmon = Disinfection By Product Rule Monitoring; DMCL=Disinfection By Product Rule MCL or Treatment Technique; GWRMCL=GWR Treatment Technique; GWRmon= GWR Monitoring or Reporting; Tmon = SWTR Major Monitoring; TMCL = SWTR Treatment Technique; SWTR= Failure to Filter; RMCL = Radiochemical MCL; FMCL = Fluoride MCL; IMCL=Inorganic Chemical MCL; SMCL = Synthetic Chemical MCL; OperLic = Operator Licensing; 10=October, 11=November, 12=December

## General Assembly Bills, *continued from page 1*

customers that a water system must serve before an annual audit is required. Systems serving 100 to 750 customers can conduct either an annual audit or prepare an annual financial report.

HB1474, Act 740: increases from three to eight years the amount of time before an individual can detach annexed land on the boundary of the city if the city has not provided utility services to the property.

HB1588, Act 620: amends the Arkansas municipal water and sewer accounting law concerning receipts, electronic fund transfers, record keeping and check signatures.

HB1582, Act 615: requires that a financial report of agreed-upon procedures be conducted in accordance with the standards of the American Institute of Certified Public Accountants.

HB1664, Act 249: Appropriates \$4 million to the Arkansas Natural Resources Commission for updating the State Water Plan.

HB1903, Act 749: modifies the introductory language to the State Water Plan to declare that surface and ground water must be managed together and that facilities should be constructed to protect critical groundwater supplies.

HB1943, Act 703: provides the Arkansas Natural Resources Commission the authority to appoint or serve as a receiver for a public water or sewer system which fails to provide adequate technical, managerial, or financial operation.

## Mandatory Training Course Schedule

Most Current Listing is at: [www.healtharkansas.com/eng/autoupdates/oper/mandtrngall.htm](http://www.healtharkansas.com/eng/autoupdates/oper/mandtrngall.htm) (Courses begin at 8:00 a.m.)

MANDATORY COURSE NAME	START DATE	END DATE	OPCERT GRANT ELIGIBLE COURSE	CITY	LOCATION All courses begin at 8 a.m.	SPONSOR
Basic Water Treatment	05/02/11	05/16/11	Yes	Internet	<a href="http://www.sautech.edu/admin/escience.aspx">http://www.sautech.edu/admin/escience.aspx</a>	AETA
Basic Water Math	05/02/11	05/02/11	Yes	Hot Springs	AWW&WEA Conf, HS Convention Center	AETA
ADH Compliance	05/03/11	05/03/11	Yes	Hot Springs	AWW&WEA Conf, HS Convention Center	ADH
Applied Water Math	05/03/11	05/03/11	Yes	Hot Springs	AWW&WEA Conf, HS Convention Center	AETA
Basic Water Distribution	05/16/11	05/31/11	Yes	Internet	<a href="http://www.sautech.edu/admin/escience.aspx">http://www.sautech.edu/admin/escience.aspx</a>	AETA
Advanced Water Treatment	05/17/11	05/19/11	Yes	Russellville	Tri-County Water, 5306 N Arkansas Ave	AETA
Basic Water Distribution	05/17/11	05/19/11	Yes	Bono	Bono Community Center, 100 Woodland Trail	ARWA
Basic Water Math	05/24/11	05/24/11	Yes	El Dorado	Water Utility Operations Center, 300 S Madison Ave	ARWA
Basic Water Treatment	05/24/11	05/26/11	Yes	Camden	AR Environmental Training Academy, 100 Carr Road	AETA
Intermediate Water Treatment	05/24/11	05/26/11	Yes	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	ARWA
ADH Compliance	05/25/11	05/25/11	Yes	El Dorado	Water Utility Operations Center, 300 S Madison Ave	ADH
Applied Water Math	05/26/11	05/26/11	Yes	El Dorado	Water Utility Operations Center, 300 S Madison Ave	ARWA
Intermediate Water Treatment	06/01/11	06/15/11	Yes	Internet	<a href="http://www.sautech.edu/admin/escience.aspx">http://www.sautech.edu/admin/escience.aspx</a>	AETA
Advanced Water Distribution	06/07/11	06/09/11	Yes	Hot Springs	HS Transportation Depot, 100 Broadway Terrace	AETA
Basic Water Math	06/14/11	06/14/11	Yes	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	ARWA
Applied Water Math	06/15/11	06/15/11	Yes	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	ARWA
Intermediate Water Distribution	06/15/11	06/30/11	Yes	Internet	<a href="http://www.sautech.edu/admin/escience.aspx">http://www.sautech.edu/admin/escience.aspx</a>	AETA
ADH Compliance	06/16/11	06/16/11	Yes	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	ADH
Intermediate Water Distribution	06/21/11	06/23/11	Yes	Paragould	Holiday Inn Express, 3502 Linwood Dr	AETA
Basic Water Math	06/28/11	06/28/11	Yes	Van Buren	Best Western Van Buren, 1903 N 6th St	AETA
Advanced Water Treatment	06/28/11	06/30/11	Yes	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	ARWA
Basic Water Distribution	06/28/11	06/30/11	Yes	West Fork	Wenzel Community Center, 222 Webber	ARWA
Applied Water Math	06/29/11	06/29/11	Yes	Van Buren	Best Western Van Buren, 1903 N 6th St	AETA
ADH Compliance	06/30/11	06/30/11	Yes	Van Buren	Best Western Van Buren, 1903 N 6th St	ADH
Advanced Water Treatment	07/01/11	07/15/11	Yes	Internet	<a href="http://www.sautech.edu/admin/escience.aspx">http://www.sautech.edu/admin/escience.aspx</a>	AETA
Basic Water Distribution	07/12/11	07/14/11	Yes	Russellville	Tri-County Water, 5306 N Arkansas Ave	AETA
Basic Water Treatment	07/12/11	07/14/11	Yes	Nashville	Carter Day Center, 200 Nichols Drive	ARWA
Advanced Water Distribution	07/15/11	07/30/11	Yes	Internet	<a href="http://www.sautech.edu/admin/escience.aspx">http://www.sautech.edu/admin/escience.aspx</a>	AETA
Intermediate Water Treatment	07/19/11	07/21/11	Yes	N Little Rock	CAW Maryland Complex, 1500 West Maryland Ave	AETA
Basic Water Distribution	07/19/11	07/21/11	Yes	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	ARWA
Advanced Water Distribution	07/26/11	07/28/11	Yes	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	ARWA
Basic Water Math	07/26/11	07/26/11	Yes	Paragould	Holiday Inn Express, 3502 Linwood Dr	AETA
Applied Water Math	07/27/11	07/27/11	Yes	Paragould	Holiday Inn Express, 3502 Linwood Dr	AETA
ADH Compliance	07/28/11	07/28/11	Yes	Paragould	Holiday Inn Express, 3502 Linwood Dr	ADH
Basic Water Math	08/01/11	08/01/11	Yes	Internet	<a href="http://www.sautech.edu/admin/escience.aspx">http://www.sautech.edu/admin/escience.aspx</a>	AETA
Basic Water Math	08/09/11	08/09/11	Yes	Fayetteville	Fayetteville Operations Center, 2435 S Industrial Dr	AETA
Intermediate Water Treatment	08/09/11	08/11/11	Yes	Mt. Home	Baxter Co OEM Training Facility, 170 Dillard Dr.	ARWA
Applied Water Math	08/10/11	08/10/11	Yes	Fayetteville	Fayetteville Operations Center, 2435 S Industrial Dr	AETA
ADH Compliance	08/11/11	08/11/11	Yes	Fayetteville	Fayetteville Operations Center, 2435 S Industrial Dr	ADH
Applied Water Math	08/15/11	08/31/11	Yes	Internet	<a href="http://www.sautech.edu/admin/escience.aspx">http://www.sautech.edu/admin/escience.aspx</a>	AETA

\*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, with eligible system operators given preference.

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@arkansasaruralwater.org](mailto:info@arkansasaruralwater.org)

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

## Water Operator Licenses Issued

August 1, 2010 through October 31, 2010

Licensee Name	Grade/Type	System Name
BENTLEY JAKE	D - I	MOUNTAINBURG WATER AND SEWER, & EAST LAKE WATER USERS ASSN
BREEDLOVE MICHAEL	D - I	MARION COUNTY REG WATER DIST
BROWN FREDDIE	D - VSS	TOLLETTE WATER
BROWN TERRY	D - II & T - II	BASSETT WATERWORKS, KEISER WATERWORKS, & SANDRIDGE-BARDSTOWN WTR ASSOC
BRYANT JAMES	D - III & T - IV	CENTRAL ARKANSAS WATER
BYRD LARRY	T - I	TYRONZA WATERWORKS
CAUDLE LARRY	D - III	FAYETTEVILLE WATERWORKS
CHORBA JIM	D - I	BULL SHOALS WATER SYSTEM
COOPER BILLY	D - II	BALD KNOB WATERWORKS
CORDELL ZACHARY	D - I	WEST MEMPHIS WATERWORKS
CREEGER GERALD	T - I	MARION COUNTY REG WATER DIST
DEWITT TIMOTHY	D - I	GRAVETTE WATERWORKS
DUCKWORTH GREG	T - II	PORTIA WATERWORKS
DUNCAN RANDY	D - I	CALHOUN COUNTY WATER ASSN
DUNN JAMES	T - IV	CENTRAL ARKANSAS WATER
FELPS JOHNNY	D - I	ALTHEIMER WATERWORKS
FRASER JAMES	D - II & T - II	ENTERGY - INDEPENDENCE
FULLER CHRISTOPHER	D - IV	GLENWOOD WATER DEPARTMENT
GANN DERRICK	D - II	GRANGE-CALAMINE WATER ASSOC
GILBERT STEVEN	D - II	SOUTHSIDE PUB WATER AUTHORITY
GOFF PHILLIP	T - I	NO WATER SYSTEM PROVIDED
GRAVES TRAVIS	T - IV	BEAVER WATER DISTRICT
HARROD GREG	T - IV	MAUMELLE WATER CORPORATION
HIRSCHY ERIC	D - IV	CABOT WATERWORKS
HOTTINGER BRAD	D - II	TRI-COUNTY WATER DISTBR DIST
HOUSE TATE	T - IV	GRAND PRAIRIE BAYOU 2 P.F.B.
JACKSON JOHN	T - IV	ROCK MOORE WATER AUTHORITY
JOINER ITALINO	D - IV	UNITED WATER ARKANSAS
JONES JULIAN	D - III	HWY 63 WATER ASSOCIATION
KILGORE STEVEN	D - II	JASPER WATERWORKS
LUNEAU JOAN	D - I	CAMP ROBINSON
MAHONEY ROGER	D - I	BAUXITE WATER
MATTINGLY JAMES	T - IV	HOT SPRINGS UTILITIES
MCFALL JONATHON	D - III	GRAND PRAIRIE REGIONAL WATER
MILAM ROY	D - II	MARION COUNTY REG WATER DIST
OWENS CHARLES	D - IV	UNITED WATER ARKANSAS
PADGETT DAVID	D - II	NO WATER SYSTEM PROVIDED
PASSMORE PATRICK	D - III	SHANNON HILLS WATER DEPT
PAYNE BRADLEY	T - IV	CENTRAL ARKANSAS WATER
RHYNE SHANE	D - I	WEST MEMPHIS WATERWORKS
RICH GRAHAM	D - IV	CENTRAL ARKANSAS WATER
ROBERTS JASON	D - II	SALEM WATER ASSOCIATION, & SOUTHWEST WATER ASSOCIATION
RUNNELS CHRISTOPHER	T - IV	CABOT WATERWORKS
SHEPARD JOSHUA	D - II	BRYANT WATERWORKS
STAHLMAN WILLIAM	D - I	BULL SHOALS WATER SYSTEM
STAUFFER JOHN	D - II	NO WATER SYSTEM PROVIDED

*Continued next page*

**Water.** *Celebrate  
the Essential.*



Drinking Water  
Week 2011



## Drinking Water Week May 1 – 7

### Proclamation

TO ALL TO WHOM THESE PRESENTS COME – GREETINGS

WHEREAS, The people of the state of Arkansas recognize that we must depend upon an abundant supply of safe, high quality waters for our health and comfort, for our high quality of life, and for our economic well-being; and

WHEREAS, Arkansas's water resources are of inestimable value, and we greatly depend upon professionals affiliated with our water utilities and with our state agencies to ensure dependable, safe, clean water service to our homes, farms, businesses, and industries; and

WHEREAS, We are pleased to honor the request of the following agencies and organizations to set aside time for our citizens to focus attention on the progress made by our water utilities and to further public awareness of the challenges posed by urbanization, the growing population, and the threat of pollution:

The Arkansas Department of Health  
 The Arkansas Natural Resources Commission  
 The Arkansas Rural Water Association  
 The Arkansas Environmental Training Academy  
 The Arkansas Water and Wastewater Managers Association  
 The Arkansas Waterworks and Water Environment Association

NOW, THEREFORE, I, MIKE BEEBE, Governor of the State of Arkansas, by virtue of the authority vested in me by the laws of the State of Arkansas, do hereby proclaim the week of May 1-7, 2011, as

#### ARKANSAS DRINKING WATER WEEK

across the State, and I urge my fellow citizens to join me in recognizing this most precious natural resource and to commend the men and women of our drinking water utilities, their contractors, and state agencies, on whom we depend, twenty-four hours a day, every day of the year.

Mike Beebe, Governor

Mark Martin, Secretary of State

Licensee Name	Grade/Type	System Name
STELL MICHAEL	T - III	CONWAY CO REGIONAL WATER DIST
STONE JEFFERY	T - IV	ADH, ENGINEERING SECTION
TAYLOR REAGAN	D - I	BRYANT WATERWORKS
TIPTON COLON	D - I	ENGLAND WATERWORKS
VANN JOSHUA	T - IV	CABOT WATERWORKS
WADDLE JASON	D - I	HARDIN WATER ASSOCIATION
WALKER JEREMY	D - I	MOUNTAINBURG WATER AND SEWER, & EAST LAKE WATER USERS ASSN
WALLACE STEVEN	D - IV	CABOT WATERWORKS
WILLIAMS DWIGHT	D - IV & T - IV	GLENWOOD WATER DEPARTMENT

## Review your training hours - license renewal is coming up

2011 is the year for renewing all water operator licenses. It is time to review your training records to ensure you have sufficient training hours to renew your licenses. You will need 24 contact hours of approved training, with 12 of the hours approved as direct water operator training. The remaining 12 hours can be additional direct training or indirect training. Some of your renewal training may be documented on the internet at: <http://www.healthyarkansas.com/eng/opcert/oper.htm>.

If after reviewing your renewal hours more hours are needed, you have several options for obtaining the needed hours before the deadline of June 30, 2011. Information on training meetings, conferences, and mandatory courses can be found in this publication. Also, the internet site <http://www.healthy.arkansas.gov/eng/autoupdates/oper/opcertlinks.htm> can assist you in finding renewal training.

Water license renewal notices will be mailed to the operator's address of record in early June 2011. Please utilize the renewal invoice to submit your renewal fee. It is critical to include the invoice with your training documentation and fee payment to ensure the fee is correctly applied to your account and your training documentation is available to review.

If you have questions, contact Martin Nutt or Ida Hampton with the Engineering Section. Please remember, wastewater license renewals are submitted to the Arkansas Department of Environmental Quality, not the Department of Health. ♦

### No Licensing Committee report

The quarterly meeting of the Arkansas Drinking Water Advisory and Operator Licensing Committee scheduled for January 12, 2011 was cancelled due to inclement weather.

## State & Regional Water Conferences

Arkansas Water Works & Water Environment Association  
Annual Conference and Short School / May 1 – 4, 2010  
Hot Springs Convention Center / Hot Springs, Arkansas

[www.awwwwea.org](http://www.awwwwea.org)

Full attendance at the conference will earn 16 contact hours of direct training. Training sessions will be Monday May 2 and Tuesday May 3 and will consist of 12 concurrent tracts with 6 sessions each day for each tract. An exhibit hall will be open Sunday afternoon through Tuesday morning with a large number of water industry related companies displaying their latest and best products.

The Association will be tracking attendance credit hours utilizing scanning stations Monday and Tuesday with stations located in the registration lobby, in the hallway outside the second floor training rooms, and in the exhibit hall. A scan is necessary for each half day of morning and afternoon sessions. Conference name badges will have the needed barcode for scanning.

Water licensing exams will be offered on the morning of May 4. Some of the mandatory training courses required for an exam will be offered at the conference. On Monday, the Basic Water Math course will be offered. On Tuesday, both the Applied Water Math course and ADH Public Water System Compliance course will be offered; however, an attendee can only attend one of the Tuesday courses. You must register for the conference to attend any of the mandatory training courses. The courses will not follow the normal conference schedule but will begin at 8:00 each morning and end at 5:00 each afternoon, with a shortened lunch break. The entire course must be attended to receive a course completion certificate.

Arkansas Rural Water Association  
Annual Technical Conference & Exhibition, Sept. 18 – 21, 2011  
Hot Springs Convention Center / Hot Springs, Arkansas

[www.arkansasruralwater.org](http://www.arkansasruralwater.org)

The conference will consist of 2 full days of training. ARWA plans to have 6 concurrent technical sessions with 4 topics offered in each session each day. 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 a total of 16 hours of directly applicable water training credit for full participation. Mandatory water training courses for exam purposes are not be offered during this conference. Attendance will be documented during each half-day session of training. Licensing exams will be offered on the morning of September 21.

Southwest Section American Water Works Association  
Annual Conference & Exhibition / September 25 - 27, 2011  
Cox Convention Center / Oklahoma City, OK

<http://www.swawwa.org/ACE/home.htm>

The conference consists of 2 full days of training. There will be three concurrent technical tracts with six sessions offered each day for each tract. There will be an exhibit hall with a wide selection of water industry related companies displaying their products. The conference is approved for a total of 16 contact hours of directly applicable water license training credit for full participation. Mandatory training courses for exam purposes are not offered during this conference.

## Report on Chromium 6 generates EPA guidance

The Environmental Working Group, an activist environmental organization, distributed a report last December which alleged the widespread presence of a toxic form of chromium in a number of public water systems. The study tested drinking water in 35 U.S. cities and detected the presence of hexavalent chromium, also known as chromium-6 because of its valence state, in 31 of those cities.

Chromium is a naturally occurring element found in rocks and plants, and is an essential trace element in human nutrition. The most common forms of chromium are trivalent (chromium-3), a nontoxic form which occurs naturally in many foods; hexavalent (chromium-6), which is found in industrial discharges and in the erosion deposits of trivalent chromium; and the metal form (chromium-0). Environmental conditions can convert chromium-3 to chromium-6, and vice versa. Among the environmental conditions known to promote this conversion are oxidants, such as chlorine. The current drinking water standard for total chromium is 0.1 parts per million and no U.S. public water system is in violation.

For a number of years, EPA has listed chromium-6 as a known human carcinogen based on inhalation. In September, 2010, EPA released a draft assessment examining the human health risk from the ingestion of chromium-6. The draft report found that chromium-6 was likely to be carcinogenic to humans.

Based on public and congressional inquiries resulting from the EWG report, EPA issued a press release acknowledging EWG's work but noted that a more comprehensive, long term approach toward the contaminant was needed. The agency said it hoped to finalize its chromium-6 risk assessment in 2012 and will then determine the appropriate next step in terms of regulatory action. It also said that based on the draft assessment, EPA will likely move to tighten standards.

In the meantime, the agency has issued guidance to public water systems on the monitoring and analysis of chromium-6. The agency

### SmallWaterSupply.org

Martin Nutt, Training & Certification Officer

SmallWaterSupply.org is an internet web site with free resources for small community water and wastewater operators. Because there are so many organizations that have worthwhile information and events for water and wastewater operators on the web, their effort is in cataloging those resources in an easy to filter and search database. All information is linked back to the original author/host, which assists the host organizations in getting their resources out to operators. Only information that can be found for free on the internet is linked to, and only events that are relevant to water and wastewater operators are displayed.

The goal of the website is to assist operators in finding information, and to support their efforts in using the web as a source of reliable information. Operators can contact them directly at their toll free telephone number 866-522-2681 or by email at [info@smallwatersupply.org](mailto:info@smallwatersupply.org) for additional help including finding resources not found on their website, printing and mailing of information from the website, and answers to questions from outside technical assistance providers. All services are free.

Information at [www.SmallWaterSupply.org](http://www.SmallWaterSupply.org) includes the following:

- A database of information from almost 800 organizations that support water and wastewater operators, launched in October of 2009
- Over 8900 document summaries and 12,500 training event details, making information easy to find by topic, type, state, and/or sponsoring organization.
- A listing of nearly 800 state operator associations, technical assistance providers, and state and federal agencies by providing direct links to their valuable resources.
- Search engines based on keywords, categories, and other criteria that can assist the operator in finding the best, most relevant information quickly and easily.
- A national events calendar that includes thousands of workshops, classes, expos, training, and conferences.

Staff are available to assist operators directly by phone or email to get them to the right expert, resource, or organization. Additional features and functions are being developed to support networking, training and workforce development, including an operator forum for sharing ideas, questions, and expertise.

SmallWaterSupply.org is housed and maintained at the Illinois State Water Survey ([www.isws.illinois.edu/](http://www.isws.illinois.edu/)) at the University of Illinois. The ISWS is part of the Institute of Natural Resource Sustainability and is also the home of MTAC, the Midwest Technology Assistance Center (<http://mtac.isws.illinois.edu/>), which provided the funding, primarily from a USEPA grant, to develop the website.

recommends that water systems monitor quarterly and include samples from the untreated source water, at the distribution system point of entry following treatment, and from representative points in the distribution system itself. The guidance can be found on EPA's website at <http://water.epa.gov/drink/info/chromium/guidance.cfm> . ♦

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>April 2011</b>				
7	5:45PM	Benton	Brown's Restaurant	Central District, AWW&WEA
7	6:30 PM	Fort Smith	Golden Corral	Western District, AWW&WEA
14	6:00PM	Russellville	Western Sizzlin	AR Valley District, AWW&WEA
14	5:00PM	Batesville	Western Sizzlin	North Central District, AWW&WEA
14	5:30PM	Forrest City	Wastewater Treatment Plant	Eastern District, AWW&WEA
13	9:00AM	Lincoln	Community Center	Northwest District, AWW&WEA
21	10:30AM	Jonesboro	CWL Service Bldg	Northeast District, AWW&WEA
28	6:00PM	Magnolia	The Ole Feed House	Southwest District, AWW&WEA
<b>May 2011</b>				
5	5:45PM	to be announced	to be announced	Central District, AWW&WEA
12	6:00PM	Russellville	Western Sizzlin	AR Valley District, AWW&WEA
12	5:00PM	Batesville	Western Sizzlin	North Central District, AWW&WEA
12	5:30PM	Stuttgart	to be announced	Eastern District, AWW&WEA
17	6:30PM	Watson Chapel	Camp Taloha Girl Scout Camp	Southeast District, AWW&WEA
19	12:30PM	Pocahontas	Beverly's Restaurant	Northeast District, AWW&WEA
26	6:00PM	Arkadelphia	Recreation Center	Southwest District, AWW&WEA
<b>June 2011</b>				
2	5:45PM	to be announced	to be announced	Central District, AWW&WEA
2	6:30PM	Fort Smith	Columbus Acres	Western District, AWW&WEA
9	5:30PM	to be announced	to be announced	Eastern District, AWW&WEA
9	6:00PM	Russellville	Western Sizzlin	AR Valley District, AWW&WEA
9	5:00PM	Batesville	Western Sizzlin	North Central District, AWW&WEA
21	6:30PM	Monticello	Q & Y House	Southeast District, AWW&WEA
8	9:00AM	Green Forest	Middle School	Northwest District, AWW&WEA
16	12:30PM	Jonesboro	Ron's Catfish	Northeast District, AWW&WEA
23	6:00PM	Foreman	Hamilton Elementary Cafeteria	Southwest District, AWW&WEA
<b>July 2011</b>				
7	5:45PM	to be announced	to be announced	Central District, AWW&WEA
7	6:30PM	to be announced	to be announced	Western District, AWW&WEA
14	5:30PM	Marvell	Fire Training Bldg	Eastern District, AWW&WEA
14	6:00PM	Russellville	Western Sizzlin	AR Valley District, AWW&WEA
14	5:00PM	Batesville	Western Sizzlin	North Central District, AWW&WEA
21	12:30PM	Paragould	Couch's Bar-b-Q	Northeast District, AWW&WEA
19	6:30PM	Star City	FUMC Family Life Center	Southeast District, AWW&WEA
13	9:00AM	Pea Ridge	Emergency Services Bldg	Northwest District, AWW&WEA
28	6:00PM	El Dorado	Water Utility Meeting Room	Southwest District, AWW&WEA

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