

## **NOTICE OF PUBLIC PARTICIPATION AND INPUT ON THE PROPOSED DRINKING WATER TREATMENT REVOLVING LOAN INTENDED USE PLAN FOR THE STATE OF HAWAII FISCAL YEAR**

The State of Hawaii Drinking Water Treatment Revolving Loan Fund, also known as the Drinking Water State Revolving Fund (DWSRF), is required to develop an Intended Use Plan each year as part of the U.S. Environmental Protection Agency's (EPA) DWSRF grant requirements. EPA grants monies to the State of Hawaii annually to construct drinking water infrastructure and support other drinking water programs.

For State Fiscal Year 2006, the Hawaii DWSRF program expects to receive approximately \$8,285,500 in Federal Funds. The Intended Use Plan explains how the new and existing funds will be used toward construction projects on the Priority List of Projects and towards other activities that support drinking water branch activities.



On April 1, 2005, the Drinking Water State Revolving Fund (DWSRF) program, will publish a public notice statewide in the Honolulu Star Bulletin, the Hawaii Tribune-Herald, the West Hawaii Today, The Maui News, and The Garden Isle newspapers. The public notice period will be open from **April 1, 2005 - April 30, 2005** in which the program will accept comments. Upon written request, a public hearing may be scheduled. All comments and/or request for a public hearing must be received by the Safe Drinking Water Branch by April 30, 2005.

Information regarding the Intended Use Plan may be obtained by writing to or calling the Safe Drinking Water Branch, 919 Ala Moana Blvd., Room 308, Honolulu, Hawaii 96814, (808) 586-4258.

## **HELP US PLAN THE 2005 SDWB END-OF-YEAR WORKSHOP**

It's already nearing the end of March and a quarter of the year has already slipped by!! Therefore, it's never too early to begin planning the 2<sup>nd</sup> Annual Safe Drinking Water Branch End-of-Year Workshop. To assist us in the planning, we are taking an informal survey as to when would be a good time to hold the workshop. Your choices are: **(1) Early to Mid December 2005 or (2) Mid to Late January 2006.**

To participate in this informal survey, please make your selection by: (1) contacting Dan Chang or Kumar Bhagavan of the Safe Drinking Water Branch using the following telephone numbers: Oahu (586-4258); Hawaii (toll-free@ 974-4000 ext. 64258); Kauai (toll-free@ 274-3141 ext. 64258); Maui (toll-free@984-2400 ext. 64258); and Molokai/Lanai (toll-free@ 1-800-468-4644, ext. 64258); (2) faxing your selection to the Safe Drinking Water Branch, Attention: 2005 SDWB End-of-Year Workshop Date Selection at (808) 586-4351; or (3) sending an e-mail to [dchang@eha.health.state.hi.us](mailto:dchang@eha.health.state.hi.us) or [kbhagavan@eha.health.state.hi.us](mailto:kbhagavan@eha.health.state.hi.us).

Your participation in this informal survey will help us in planning a workshop that will not only be informative and educational, but also held at a time that will maximize participation by those in the drinking water and water resource protection profession/industry.

### **On the Spot:**

2004 Drinking Water State Revolving Fund - Intended Use Plan .....	1
Help Us Plan the 2005 End-of-Year Workshop.....	1
January Water Treatment Plant Operator Exam Results.....	2
Hawaii Section AWWA Annual Conference.....	3
UH-WRRC Project (Pesticide Leaching Model)....	5
2003 Groundwater Contamination Maps.....	5

## JANUARY WATER TREATMENT PLANT OPERATOR EXAM RESULTS

Exam results. The 1st 2005 Water Treatment Plant Operator (WTPO) certification exams were held in January on Oahu, Maui, and the Big Island. Ten operators sat for the exam, and four passed for a passing rate of 40%. The average passing rate for the last two WTPO exams (since January 2004) was also 40%, so the passing rate did not decline. *Operators should understand that the organization which creates the exam questions, the Association of Boards of Certification (ABC), is continually updating its exams, therefore the exams HAVE become more difficult over time.* The breakdown by grade is as follows:

Grade	Examinees	Passed	Passing Rate
1	4	2	50%
2	3	1	33%
3	0	0	n/a
4	3	1	33%
total	10	4	40%

*Congratulations to those operators who passed the exam!*

2005 exam dates. Please make note of upcoming exam dates and deadlines:

Certification exam	Applications Due	Exam Date
Distribution System Operator (DSO)	1/26/05	<b>4/26/05</b>
WTPO	4/26/05	<b>7/26/05</b>
DSO	7/25/05	<b>10/25/05</b>

CEU approval. If your DSO or WTPO certification expires on 11/30/05, you should be receiving a renewal reminder in March. Also enclosed will be a listing of your CEUs recorded to date. If you need to have other CEUs approved and recorded, please fill out the Course Approval form (purple) and send it in as soon as possible. *Please note that the Board of Certification must review and approve CEUs for credit, and the board only meets quarterly (in February, May, August and November).* The Rural Community Assistance Corporation is no longer the contractor for providing drinking water training. If you need CEUs, you can refer to the pink "Approved CEUs" sheet for ideas. Several options available now are: Statewide Wastewater Operator Training Center courses, AWWA-Hawaii section workshops, correspondence courses through California State University at Sacramento (CSUS), or online courses through AWWA and CSUS.

Certification renewal. If your certification expired on 11/30/04, and you earned sufficient CEUs to renew, please send in your renewal form as soon as possible. After **12/31/04**, the renewal fee doubled (for example, if your renewal is through 11/30/07, the fee increased from \$30 to \$60). CEUs you have earned can count towards both DSO and WTPO renewal, as long as you have taken the course in the proper certification period.

Application for certification. You can download copies of the DSO or WTPO certification application form (and exam registration form) from the DOH SDWB website at:

<http://www.hawaii.gov/health/environmental/water/sdwb/index.html>.

You can also call Ann Zane or Kumar Bhagavan at 586-4258 for copies of these forms.

## HAWAII SECTION AWWA ANNUAL CONFERENCE



The *2005 AWWA Hawaii Section Conference Committee* invites you to register and attend our *31<sup>st</sup> Annual Conference*. “*RESOURCE MANAGEMENT: Key to Success*” is this year’s conference theme.

Here are highlights of the activities planned for this year’s conference. Please refer to your conference registration packet for additional details. One additional note: ***We are applying for CEUs*** for our pre-conference workshop and our main conference technical sessions. (We will update CEU information and post it on our local website).

**Pre-Conference Workshop:** This year we tentatively have a one-day workshop planned that will discuss Emergency Preparedness for Water Systems. The topics to be addressed will be of interest to a broad range of our members.

**Technical Sessions:** Topics for the technical sessions will focus on the conference theme including topics related to resources (water, human, etc.) and new technologies. We will also include updates on current and a few other topics. We are pleased to say that we have made it a point to ensure that there is something of interest for everyone.

**Tradeshow:** We are expecting a full house for our tradeshow this year so save some of your time to stop-by and visit with our exhibitors. Please note exhibitor hours listed in the attached conference schedule.

**Field Trip:** We are tentatively scheduling a field trip to get a behind the scenes tour of the John A. Burns School of Medicine, currently being built in Kakaako. The tour will also help to describe the innovative use of District Cooling.

**Contests:** Come and enjoy the conference favorites: the ever-exciting pipe tapping contest and “Ono Water” tasting contest.

**Guest Speakers and Special Conference Events:** Guest speakers include AWWA Immediate Past-President Marlay Price and Mayor Mufi Hannamann (invited conference keynote speaker). Section awards will be presented during lunch on Thursday.

**Social Activities:** Please join us at our Meet and Greet (sponsored by the tradeshow exhibitors) on Wednesday, afternoon and our Thursday night banquet. Don’t forget to start arranging your foursomes for the scheduled annual golf tournament!

We are looking forward to your attendance at our 31<sup>st</sup> annual conference. Please register early to take advantage of our “Early Bird” registration rates, and check our website, [www.awwa-hi.org](http://www.awwa-hi.org) for conference updates!

*Dawn Barsana*  
*Conference Co-Chair*

*Audrey Yokota*  
*Conference Co-Chair*



**AWWA-Hawaii Section Pre-Conference Workshop**  
**Tuesday, May 10, 2005**  
Renaissance Ilikai Hotel - Honolulu, Hawaii  
**Emergency Preparedness for Water Systems**

**PURPOSE**

Water systems from everywhere will gain an understanding of how to prepare for an emergency, what tools are available to help, who they must coordinate with, regulations affecting them, and lessons learned from other water systems. They will also have an opportunity to bring their emergency response plan with them, and speak with experts and other water systems about how the plan can be improved. Each presentation will conclude with a question, answer and interactive discussion period.

**AGENDA (TENTATIVE)**

- Participant Registration
- Introductions
- Hurricane Madness - Lessons Learned from a Florida Utility
- Preparing for an emergency - what you might not have thought about (Lessons learned from many utilities)
- Coordination and Communication-how to achieve an organized response to an emergency
- Tools to use during an emergency: iCIT (Intelligent Collaborative Integration Tools) allowing communication and real-time mapping

Lunch

- Regulations regarding emergency preparedness
- The Incident Command System-what it is, why you must use it, and how to integrate into it
- How an Emergency Operating Center Works (Someone from Hawaii Civil Defense)
- Open discussion and review of Emergency Preparedness Plans
- Conclusion



**AWWA-Hawaii Section Annual Conference**  
**Wednesday-Friday, May 11-13, 2005**  
Renaissance Ilikai Hotel - Honolulu, Hawaii  
**“RESOURCE MANAGEMENT: Key to Success”**

**Some of the invited speakers include:**

Larry Rice, BIF LLC,	“Quality Control: Is America’s Drinking Water Really Safe”
Joe Benoit, Extech, LLC	“Innovation in Potable Water Tank Inspection & Cleaning”
Kevin Baughman, RCAC	“Circuit Rider Program (Provides free technical assistance to small water systems throughout the State” Contracted by the State DOH-SDWB)
Denis Guibert, ZENON Environmental	“Conception and Design of an Immersed Membrane Plant in the County of Kauai”
Steven Duranceau, Boyle	“Development of Lead Control Strategy for the Maui Upcountry Water System”
Barry Pollock, USEPA, Region 9	“Risk Communication” AND “EPA Regulation Updates”
Ryuchi Tsuchihashi, M&E Pacific	“Implementing Alternative Water Supply Strategies”
Bill Selle, USFilter	“Crash! Dealing with Chain and Scraper Equipment Problems”
Robert Ryder, Kennedy/Jenks Consultants	“Is there Black Magic to Piping Systems Internal Corrosion and Control?”
Hina Williamson, HMSA	“Drugs in the Workplace”

## UH - WRRC PROJECT - PESTICIDE LEACHING MODEL

### Rationale

Ground water is the primary source of drinking water for the population in Hawaii. Nearly 100% of Oahu's residential and visitor population relies on ground water. Good quality ground water is important for health and well being of the people as well as for the tourist economy of the state. In the past, ground water contamination has been detected from the label use of pesticides as well as from accidental spills. The state has taken measures to reduce/prevent contamination of ground water from the label use of pesticides. One such approach is the screening of pesticides that will be used over large areas and to identify pesticides that exhibit high leaching potential. This is particularly important when the use areas are directly located on potable water aquifer with shallow water table. If a chemical shows high leaching potential from preliminary screening evaluation, secondary reviews of the chemical are conducted using in-depth analysis of the soil and pesticide properties and a computer model of leaching using the attenuation factor (AF) approach of Rao et al. (1985). The model employs a geographic information system (GIS) to incorporate soil hydrologic information such as depth to water, recharge rate, field capacity water content, bulk density, porosity, and soil organic carbon. A pesticide property database is concurrently used with the GIS based soil properties database to predict the AF. While the model is a good starting point to show the vulnerability of the ground water island-wide from the use of a chemical, it needs periodic improvements in soil hydrologic and chemical databases for better prediction.

### Objectives

The objectives of the proposed study are to:

- (1) improve soil hydrologic database in the AF model using available data from the Natural Resource Conservation Service (NRCS), the U.S. Geological Survey (USGS) and other agencies,
- (2) improve the pesticide properties database based on selected studies conducted in Hawaii and those available from the U.S. Environmental Protection Agency (EPA),
- (3) compare against EPA methodology for the registration of new chemicals, and
- (4) develop a documentation for AF that is user friendly, easy to understand, and outline in simple language the methodologies involved in the calculations.



## 2003 GROUNDWATER CONTAMINATION MAPS AVAILABLE

### **The Eighth Edition of the Groundwater Contamination Maps for the State of Hawaii (for 2003) is now available. These maps were first published in August 1989.**

The 2003 Groundwater Contamination Maps for the State of Hawaii are produced by the Groundwater Protection Program of the Hawaii Department of Health (DOH). The 2003 maps were made available in December 2004 and are in color.

The Maps are based on State Department of Health (DOH) monitoring data for public drinking water wells and other testing data available to the DOH. The DOH is working to include more sources of data to increase the completeness of the maps. The 2003 Maps represent the most current information available up through December 31, 2003. Where possible, this data is confirmed prior to being entered onto these maps. Where non-DOH data is used, new testing is not always available and therefore older data has been carried forward from the previous edition of the Maps. The previous edition of the Maps was developed and released in 2003. The Groundwater Contamination Maps were not prepared between 1999 and 2001 due to resource limitations.

The 2003 Groundwater Contamination Maps indicate that the contaminant concentrations detected in Hawaii's groundwater are generally below state and federal drinking water standards. As long as contaminant concentrations are below these standards and health advisory levels, the water is considered safe.

**To get copies of the maps or more information about groundwater protection, contact the Department of Health's Groundwater Protection Program. The Groundwater Protection Program may be contacted using the following telephone numbers: Oahu (586-4258); Hawaii (toll-free@ 974-4000 ext. 64258); Kauai (toll-free@ 274-3141 ext. 64258); Maui (toll-free@984-2400 ext. 64258); and Molokai/Lanai (toll-free@ 1-800-468-4644, ext. 64258).**

**2003 GROUNDWATER CONTAMINATION MAPS AVAILABLE (continued)**

You may also visit the Groundwater Protection Program at our current address:

919 Ala Moana Blvd., Room 308, Honolulu, Hawaii 96814

or visit our website at: <http://www.hawaii.gov/health/environmental/water/sdwb>

Information regarding the quality of your drinking water may also be obtained from your water provider. An annual Consumer Confidence Report or Water Quality Report is available from your water system every July.

*Please send your suggestions, ideas, questions or comments to:*

**THE WATER SPOT 2005**  
**Safe Drinking Water Branch**  
**State Department of Health**  
**919 Ala Moana Blvd., Room 308**  
**Honolulu, Hawaii 96814**

**Fax us at (808) 586-4351,**  
**Attn: "THE WATER SPOT 2005"**

**SDWB WEB SITE:**  
**<http://www.hawaii.gov/health/environmental/water/sdwb>**



**LINDA LINGLE**  
**Governor of Hawaii**

**CHIYOME LEINAALA FUKINO, M.D.**  
**Director of Health**

**LAURENCE K. LAU**  
**Deputy Director for**  
**Environmental Health**

*We provide access to our activities without regard to race, color, national origin (including language), age, sex, religion, or disability. Write or call our Affirmative Action Officer at Box 3378, Honolulu, HI 96801-3378 or at (808) 586-4616 (voice) within 180 days of a problem.*

**The Water Spot 2005 (March/April 2005)**  
**Safe Drinking Water Branch**  
**Environmental Management Division**  
**Hawai'i Department of Health**  
**919 Ala Moana Boulevard, Room 308**  
**Honolulu HI 96814**

