

## SDWB 2004 END-OF-YEAR WORKSHOP HELD



On December 13, 2004, the Safe Drinking Water Branch held its first End-of-Year Workshop at the Ala Moana Hotel - Hibiscus Room. The workshop was attended by 71 personnel and staff from the Safe Drinking Water Branch, water systems, government agency, and consultants.

The End-of-Year Workshop was intended to provide water industry personnel, government agencies, and other water related organizations with an overview of some of the past year's activities for the Safe Drinking Water Branch. In addition, several other water related agencies were invited to give presentations on their activities and how it relates to or concerns our water systems and water-related activities.

In addition to SDWB staff, presentations included: Myron Honda (State Laboratory), "Rapid Coliform Detection Using Chromogenic/Fluorogenic Substrate Test"; Stephen Anthony (USGS), "USGS Activities Related to the Drinking Water Industry in Hawaii"; Kathleen Dobler (NRCS), "NRCS Programs, Planning and Conservation Practices Affecting Water Quality in Hawaii"; Roy Hardy (CWRM), "Update of Well Construction and Pump Installation Standards, 2004"; Roger Fujioka (UH-WRRC), "Assessing the Microbial (Hygienic) Quality of Kauai's Potable Sources of Water"; Steven Matsuda (DOA-Pesticides), "DOA Groundwater Review"; Chittaranjan Ray (UH-WRRC), "Groundwater Issues in Volcanic Island Settings"; and Barry Pollock (EPA Region 9), "USEPA Drinking Water Program - Regulatory Update".

This workshop allowed participants to keep abreast of the activities of the water related government agencies, meet the SDWB staff and other water system personnel, ask questions and provide us with feedback, and learn what is in store for the drinking water industry in the coming year(s).

We have received positive feedback regarding our End-of-Year Workshop. Comments included:

*Great overview of DOH program areas and current activities. (Nice to see all the SDWB staff and to get to know who they are.)*

*Good overview of proposed and upcoming regulations.*

*Broad cross-section of topics - what various agencies doing with links to groundwater issues.*

*Helpful overview of SDWB people and programs.*

*Meeting a broad cross-section of people involved in water. Learning what all different sections are working on.*

*One-Stop shopping to learn about drinking water and groundwater issues.*

*Good presentation on each program area - not too long, not too short, just right!*

Again, thank you to all the speakers who made presentations and those who attended for making our first End-of-Year Workshop - a Success!!

And for those who weren't able to attend - you missed a fantastic workshop - but we looking forward to your attendance at our next End-of-Year Workshop.

### On the Spot:

2004 SDWB End-of-Year Workshop .....	1
Radionuclides Sampling.....	2
Status of New Drinking Water Regulations .....	3
SDWB to Host Sanitary Survey Training .....	4
Trace Chemical Found in Wahiawa Well .....	5
SDWB Staff .....	5
DOH Notes: The Bottle Bill.....	6

## RADIONUCLIDES SAMPLING

### Hawaii PWSs Compliance with the Revised Radionuclides Rule

The Revised Radionuclides Rule took effect on December 8, 2003. The following are simplified highlights of the revised rule.

#### Highlights of the Revised Radionuclide Rule

1. Sets MCLs for gross alpha, gross beta, radium 226, radium 228, and uranium
2. Increases monitoring points from one within the distribution system to all entry points.
3. Increases monitoring from 1 every four years to quarterly for one year.
4. Allows for substitution of gross alpha result for radium 226 and uranium result under specific conditions.
5. Bases repeat monitoring frequency on initial monitoring result.
6. Requires extensive follow-up monitoring for gross beta, if screening level exceeded.
7. Allows for use of "grandfathering" of data taken after June 2000 and before December 7, 2003.

#### Compliance by Hawaii Public Water Systems

The Revised Radionuclides Rule affects 113 public water systems and approximately 358 sampling points. Of these, 80 water systems took advantage of the "grandfather" allowance by taking samples prior to December 7, 2003. Rather than having to take four consecutive quarterly samples, these systems were able to take a single sample at each entry point to distribution and comply with the initial sampling requirement. These 80 systems also met the old radionuclide monitoring requirements for the period 1999-2003. Another 16 systems are known to be in the process of taking their initial samples. This leaves only 17 systems which will need to start their initial sampling before December 31, 2006.

In addition, we are pleased to report that the analytical results received so far are well in compliance with the MCLs. The following table is a summary of the statewide results received so far:

Contaminant	MCL	ND	Positives	Range (pCi/L)	Average <sup>1</sup> (pCi/L)
Gross Alpha	15 pCi/L	281	8	1.5-10.6	4.02
Gross Beta	50 pCi/L <sup>2</sup>	136	135	0.74-8.46	2.04
Radium 228	5 pCi/L	68	217	(-0.08)-6.23	0.547
Uranium	30 ? g/L <sup>3</sup>	6	267	(-0.0028)-1.09	0.0487

- 1 This average is of positive values and does not include ND values.
- 2 The actual MCL for gross beta is 4 mrem/yr. 50 pCi/L is a screening level.
- 3 The conversion from pCi/L to ? g/L is 0.67 pCi/L per ? g/L. (Multiply your pCi/L value by 1.5 to get ? g/L.)

If any systems had reported values over the MCL (or screening level), quarterly monitoring would have been required immediately. Because no reported value exceeded either an MCL or the gross beta screening level, all systems which have already submitted their data have met their monitoring responsibilities for the period December 2003 to December 2007. The SDWB will be informing each public water system of their compliance status and advising each system of their future monitoring requirements under the Revised Radionuclides Rule.

The Safe Drinking Water Branch congratulates the public water systems which have successfully met the requirements of the Revised Radionuclides Rule and were "akamai" enough to reduce their analytical costs by taking advantage of the grandfather allowance in the rule.

**STATUS OF NEW DRINKING WATER REGULATIONS**

<b>Chemical Contaminant Regulations</b>	<b>Proposed</b>	<b>Final</b>	<b>Compliance</b>
Revision of Unreg. Cont. Mon. (CWS + NTNCWs > 10,000 and a sample of Cws + NTNCWs < 10,000) (CYCLE 1 2001-2005)	4/30/99	9/99	1/01
Unregulated Contaminant Monitoring (CYCLE 2 2006-2010)	12/2004	12/2005	1/2007
Radon (CWS on groundwater only)	11/99	2006 or later	?
Lead and Copper Revisions		1/12/00	4/11/00
Radionuclides (uranium+radium+ gross alpha +beta & photon emitters) (CWS +by state option NTNCWS)	proposed 7/18/91 NODA 4/21/00	12/7/00	12/07/03
Arsenic (MCL applies to CWS + NTNCWs) (and compl. determs. for orgs.+inorgs.)	<del>6/22/00</del> rounding clarification 12/23/02	<del>1/22/01</del> roundin g clar. 3/25/03	7/1/02 (CCRs) 1/23/04 (compl. determs.) 1/23/06 (MCL)
<b>Reporting Regulations</b>	<b>Proposed</b>	<b>Final</b>	<b>Compliance</b>
Public Notification	5/13/99	5/4/00	10/31/00 (DI) 5/6/02 (others)
Consumer Confidence Reports	2/13/98	8/19/98	10/19/99
<b>Microbiological Contaminant Regulations</b>	<b>Proposed</b>	<b>Final</b>	<b>Compliance</b>
Interim Enhanced SWTR (IESWTR) micro/crypto control SW + GWUDI systems serving population > 10,000	7/94 ----- 7/13/00 (minor mod)	12/98 ----- 1/16/01 (minor mod)	12/01 ----- 1/1/02
Stage 1 Disinfectants/DBP (D/DBP) control SW (C + NTNC + some TNC) systems serving pop. > 10,000 SW (C+ NTNC + some TNC) systems serving pop. < 10,000 & all GW	7/94 ----- 7/13/00 (minor mod)	12/98 ----- 1/16/01 (minor mod)	----- 1/1/02 1/1/04
Filter Backwash Recycling SW systems that recycle	4/10/00	6/8/01	12/8/03
Long Term 1 Enhanced SWTR (LT1ESWTR) SW + GWUDI systems serving population < 10,000	4/10/00	1/14/02	beginning 3/15/02
Stage 2 Disinfectants/DBP (CWS & NTNCWS adding disinfectants)	8/18/2003	8/2005 ?	7/2008 ? >100,000
Long Term 2 Enhanced SWTR (LT2ESWTR) (all systems on SW and GWUDI)	8/11/03	mid2005	?
Ground Water (all systems on GW)	5/10/00	12/2005	?

Updated: 01/04/2005

Provided By: Jon Merkle, USEPA, Region 9

## ***SDWB TO HOST SANITARY SURVEY TRAINING***

The Safe Drinking Water Branch will host two training sessions related to sanitary surveys. The training will be presented by the USEPA, Drinking Water Academy. The first session titled "Sanitary Surveys, Security, and O&M of Small Water Systems" will be held from January 24-27, 2005 on the island of Maui. The second session titled "Sanitary Surveys, Security, and O&M of Small Groundwater Systems" will be held from February 1-4, 2005 on the island of Hawaii (Hilo). The tentative agendas are as follows:

### **"Sanitary Surveys, Security, and Q&M of Small Water Systems" January 24-27, 2005, Maui County, Hawaii Course Agenda**

#### Day 1

Welcome and Introductions  
Organizing a Sanitary Survey  
Regulatory Issues  
Water Sources  
Pumps & Pumping Facilities  
Storage Facilities  
Distribution Systems

#### Day 2

Water Treatment - Chemical Addition & Disinfection  
Water Treatment - Groundwater  
Cross Connections  
Field Exercise - Groundwater System

#### Day 3

Groundwater Field Exercise #1, ID of Sanitary Risks,  
Security and O&M Issues  
Water Treatment - Surface Water  
Field Exercise - Surface Water

#### Day 4

Monitoring and Management  
Surface Water Field Exercise, ID of Sanitary Risks,  
Security and O&M Issues

### **"Sanitary Surveys, Security, and Q&M of Small Groundwater Systems" February 1-4, 2005, Hawaii County, Hawaii Course Agenda**

#### Day 1

Welcome and Introductions  
Organizing a Sanitary Survey  
Regulatory Issues  
Water Sources  
Pumps & Pumping Facilities  
Storage Facilities  
Distribution Systems

#### Day 2

Water Treatment - Chemical Addition & Disinfection  
Water Treatment - Groundwater, Part 1  
Cross Connections  
Field Exercise - Groundwater System #1

#### Day 3

Groundwater Field Exercise #1, ID of Sanitary Risks,  
Security and O&M Issues  
Water Treatment - Groundwater Part 2  
Field Exercise - Groundwater Part 2

#### Day 4

Monitoring and Management  
Groundwater Field Exercise #1, ID of Sanitary Risks,  
Security and O&M Issues

**Approval has been granted to award 3.44 continuing education units (CEUs) for this training class.**

Those interested in attending these training sessions or wishing to find out more about the training sessions should contact Bill Wong, Chief of the Safe Drinking Water Branch at (808) 586-4258. Confirmation of attendance in the training session including the training location will be sent to participants in mid-January 2005.

## TRACE AMOUNTS OF CHEMICAL FOUND IN WAHIAWA WELL

The Department of Health received laboratory reports confirming trace amounts of the contaminant Methyl Tertiary Butyl Ether (MTBE) in a recently activated well in Wahiawa. The Honolulu Board of Water Supply found MTBE at 1.2 micrograms per liter or parts per billion in the Wahiawa Wells II, Pump 2. The Department of Health issued a press release (No. 04-86) on this newly detected contaminant on November 23, 2004. This is the first confirmed finding of MTBE in a drinking water source in the State of Hawaii.

MTBE is a gasoline additive that was utilized to reduce vehicle emissions. The U.S. Environmental Protection Agency does not currently regulate MTBE, so there is no federal Maximum Contaminant Level (MCL) for this contaminant. The Wahiawa finding is lower than the California Department of Health Services primary MCL of 13 micrograms per liter as well as their secondary MCL (for taste and odor) of 5 micrograms per liter.

While this finding does not pose a health threat, the Department of Health will work together with the Honolulu Board of Water Supply to monitor this source to ensure that public health is not compromised. The Honolulu Board of Water Supply is to be commended for their commitment to public health by volunteering to perform monthly, follow-up, MTBE monitoring on this source as well as having performed thorough water quality tests, including the confirmation analysis, prior to operating a well that had not been tested for more than 5 years.

### SDWB STAFF

Bill Wong

Branch Chief

#### ENGINEERING SECTION

Stuart Yamada

Supervisor

Michael Miyahira

Surface Water and Disinfection By-Products Regulations

Donald Yasutake

Lead & Copper Rule, Capacity Development

Denise Dang

Drinking Water State Revolving Fund

Sharon Nekoba

New Source Approval, Backflow, Groundwater Rule

#### COMPLIANCE SECTION

Ann Zane

Supervisor, Public Notification, Operator Certification

Mel Hamano

Grants, Budget, Program Management

Kumar Bhagavan

Consumer Confidence Reports, Phase II/V Monitoring

#### MONITORING SECTION

Wendell Sano

Monitoring Program Coordination

Bruce Koike

Sampling, BACTI Scheduling (Oahu)

David Kawahara

Sampling, Scheduling Database

John Topliss

Sampling

Dan Chang

Newsletter, Website, SWAP/SWP, Quality Assurance

#### GROUNDWATER POLLUTION CONTROL SECTION

Chauncey Hew

Supervisor

Norris Uehara

UIC

Jaime Rimando

UIC

Robert Chong

Groundwater Protection

#### NEIGHBOR ISLAND STAFF

Jude Schwarze

Kauai

Gordon Muraoka

Maui

Paul Okuna

West Hawaii

Theresa Takiue

East Hawaii

**DOH NOTES: THE BOTTLE BILL**

**NEW BEVERAGE CHARGES:**

**1¢ Container Fee** -----> Non-refundable process and recycle fee.  
**5¢ Deposit per Container** -----> Container deposit - refundable when container(s) taken to Redemption Centers for recycling.  
**1¢ Non-refundable Container Fee**  
**5¢ Deposit per container** (only on labeled container - LOOK for the HI 5¢)  
All beverage containers required by law to have a deposit need to be labeled in order to be sold. Unlabeled containers cannot be sold after December 31, 2004.

**TIMELINE:**      **October 1, 2004**----->  
                         **November 1, 2004** ----->  
                         **January 1, 2005** ----->

**The Bottle Bill applies to:** Containers for all non-alcoholic drinks, except for milk and dairy products and limited alcoholic drinks, made of aluminum/metal, glass, plastic (#1 and #2) that are 64 fluid ounces or less (2-liter containers are not covered).

**Getting Your Deposit Back:** Container must be empty and clean. Containers must not be crushed. Starting on January 1, 2005, certified redemption centers will refund deposits to people who recycle their empty deposit beverage containers. To find the nearest certified redemption center: (1) look for a sign located at the store entrance, (2) check your newspaper, (3) go to [www.HI5deposit.com](http://www.HI5deposit.com), (4) contact the Department of Health’s Solid and Hazardous Waste Branch at (808) 586-4226, or (5) call 2-1-1.

*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 (January 2005)**  
**Safe Drinking Water Branch**  
**Environmental Management Division**  
**Hawai`i Department of Health**  
**919 Ala Moana Boulevard, Room 308**  
**Honolulu HI 96814**

**004 H 376**