



*The City & County of Honolulu's Department of Environmental Services employs nearly 900 men and women in job-related fields covering environmental quality, treatment & disposal, collection system maintenance, refuse and administration.*

### CONFINED SPACE: SILENT KILLER

Danger is usually something we can see with our eyes or hear with our ears. The serious dangers associated with confined spaces, however, are invisible and silent.

Entering a tank, vault, boiler or manhole, for example, can be a hazardous journey for anyone who doesn't respect the unknown, potential invisible killers that may lurk inside. The life threatening condition is simply the quality of air that exists in the space.

#### **ATMOSPHERIC HAZARDS OF CONFINED SPACE**

The major atmospheric hazards associated with confined spaces: oxygen deficiency, toxic vapors or gases, and flammable vapors or gases.

1. Oxygen Deficient Atmospheres. These are atmospheres that contain less than 19.5% oxygen.
2. Toxic vapors and gases that exceed Permissible Exposure Limit (PEL) should be considered Immediately Dangerous to Life or Health (IDLH).
3. Flammable or Combustible Atmospheres are those in which flammable or combustible vapors/gases are equal to or greater than 10% Lower Exposure Limit (LEL).
4. Remember to always check both the LEL and PEL of a suspected substance in the air!

#### **HOW CAN YOU BE SURE A CONFINED SPACE IS "SAFE FOR WORKERS?"**

A trained person must always test the atmosphere of a confined space before anyone enters. If low oxygen, elevated toxicity, or flammability is found when tested, the space is not safe for entry!

Many people have died because they did not do this or were not fully prepared for the serious hazards involved. ALWAYS remind yourself of the possible dangers involved in entering confined spaces and take the necessary precautions.

"It's better to lose one minute in life...than to lose life in a minute."



**ENV'S BIG "EASTER" EGG**

### **ENV MISSION STATEMENT**

*"THE MISSION OF THE DEPARTMENT OF ENVIRONMENTAL SERVICES IS TO PROTECT PUBLIC HEALTH AND THE ENVIRONMENT BY PROVIDING EFFECTIVE AND EFFICIENT MANAGEMENT OF WASTEWATER, STORMWATER AND SOLID WASTE DISPOSAL SYSTEMS FOR THE CITY AND COUNTY OF HONOLULU."*

ENV is serious about its responsibility to lay the best plans for the future, while working within fiscal constraints of the present to educate the public on measures protecting the public health and the environment.



## 2011 ENV Co-EMPLOYEES OF THE YEAR

April 2012

2

ENV News

### ***TSUKADA, SHIZUMURA TABBED Co-EMPLOYEES OF THE YEAR***

On December 28, 2011, ENV announced its 2011 employee honorees.

ENV recognized 12 recipients, with two receiving Co-Employee of the Year and 10 recognized for Sustained Superior Performance.

Erik Tsukada and Lyle Shizumura garnered Co-Employee of the Year status while Jay McColgan (CSM), Dale Takata (EQ), Francis Yamamoto (EQ), Ivy Pescador (OAS), Wynette Nagai (Refuse), Levani Damuni (WTD), Benjamin Goshert (WTD), Lorraine Kalakau (WTD), Alvin Santos (WTD) and Shari Yamaguchi (WTD) secured Sustained Superior Performance Award honors.

Tsukada, a Heavy Truck Driver/Utility Worker I, works at the Pearl City Refuse Yard. He is a very versatile worker who has served as a refuse collector and refuse collection crew leader, while maintaining an impeccable driving record. He has an excellent attendance record the past three years and plays a key role in filling in when crews are



ERIK TSUKADA



LYLE SHIZUMURA

short. He is active in his community serving as a girl's softball coach the past four years.

Shizumura, a Sanitary Chemist IV with the Water Quality Laboratory in Environmental Quality, is the supervising chemist on the lab's Quality Assurance/Quality Control Section. He ensures accuracy and timeliness of all lab reports and oversight of the lab's safety program. He was the lead in developing the LIMS basic configuration and establishing the long-term work flows and protocols. He was instrumental in working with the LIMS vendor fixing "bugs" and software compatibility.

The Co-Employees of the Year were awarded \$100 30-year U.S. Savings Bonds-EE, while the Sustained Superior Performance Award winners received \$200 bonds.

## 2011 ENV SUSTAINED SUPERIOR PERFORMANCE AWARD WINNERS



JAY MCCOLGAN



DALE TAKATA



FRANCIS YAMAMOTO



IVY PESCADOR



WYNETTE NAGAI



LEVANI DAMUNI



BENJAMIN GOSHERT



LORRAINE KALAKAU



ALVIN SANTOS



SHARI YAMAGUCHI

## ENV RECIPE CORNER

### BOURBON HONEY GLAZED HAM *An Easter Tradition*

#### INGREDIENTS

1 (5-pound) ham  
1/8 C. whole cloves  
1/3 C. molasses  
1/2 C. orange marmalade  
2/3 C. bourbon/whiskey  
Nonstick cooking spray



#### Directions

Preheat oven to 350 degrees F.

In a medium saucepan, heat bourbon, honey, molasses and marmalade over low heat for 15 minutes or until reduced by half, stirring occasionally. (When measuring honey and molasses, spray measuring cup with nonstick cooking spray to keep measurements accurate.) Set aside.

With a sharp knife, cut a diamond pattern on the fatty part of the ham. Stud whole cloves in each diamond, at points where lines cross. Spread half of the bourbon glaze over the ham and roast for 30 minutes, uncovered.

Baste occasionally with remaining glaze and continue to roast for another 15 minutes.

Let ham stand for 20 minutes before slicing.



## MAUKA TO MAKAI EXPO: EARTH DAY AT AQUARIUM

In recognition of Earth Month, the City's Department of Environmental Services (ENV) is co-sponsoring with the Hawaii Department of Health the Mauka to Makai Clean Water Expo featuring numerous ocean-oriented activities Saturday, April 14.

Live entertainment featuring Willie K and Kapono with an appearance by Wyland who will be giving out autographed posters (while supplies last) to those who sign up for the Wyland Clean Water Challenge at the Department of Land and Natural Resources/ Division of Forestry booth.

The Expo is free and runs from 9 a.m. to 2 p.m. at the Waikiki Aquarium. Parking is available at the Waikiki Elementary School with free shuttle service to the aquarium. The first 500 families who collect 15 stamps in their passports receive a free native plant and a Green Infrastructure for Homeowners booklet. Attendees will have a chance to win prizes, including family passes to both the Waikiki Aquarium and Bishop Museum.

More than 20 agencies and organizations will showcase earth-friendly activities. One of the featured attractions is the moi (fish) release at the beach beginning at 11 a.m.

## EARTH MONTH

MAUKA TO MAKAI CLEAN WATER EXPO

FREE ADMISSION ON APRIL 14

#### HIGHLIGHTS

- Moi (fish) Release
- Apoha the O'opu and Friends
- The Journey Home Activity Book
- Water Sampling Station
- Keiki Crafts
- Random drawings for prizes
- Free Parking and Shuttle between the Waikiki Elementary School and the Waikiki Aquarium
- First 500 families will receive a free native plant
- Food available for purchase

SATURDAY, APRIL 14, 2012

9 A.M. - 2 P.M.

WAIKIKI AQUARIUM

HONOLULU, HAWAII

**E MALAMA I KA WAI OLA \* PROTECT OUR WATERS... FOR LIFE!**



## Wastewater Tour de Trash A Hit with Local Residents

A group of more than 50 local area residents "Followed the Flow" on ENV's Wastewater Tour de Trash February 16.

The tour, in its 14th year, made stops in the collection system illustrating cc-TV camera inspections, items that clog pipes causing sanitary sewer overflows, and how the crews "flush" the lines of grease and build up.

Honouliuli Wastewater Treatment Plant and Water Reclamation Facility was the next stop where the "flow" eventually found its way to primary and secondary treatment and then on to be further processed into recycled water, which is used at various Leeward golf course and parks instead of potable water.

The final stop - Sand Island WWTP, SCADA and Synagro - gave the group the whole system picture.

Sand Island WWTP, the largest treatment plant in the state, houses the Supervisory Control and Data Acquisition (SCADA) system. This island-wide computer system allows remote monitoring and control of wastewater equipment from a central location.

The solids handling facility, also known as Synagro, turns the biosolids in the wastewater into a reusable pelletized fertilizer product where 93 percent is distributed locally to nurseries, lawn farms, and landscaping.

The wastewater tour is part of the overall award-winning Tour de Trash.

Three more tours highlight the trash side of ENV, including stops to waste processors such as Waimanalo Gulch Sanitary Landfill, H-POWER, Hawaiian Earth Products, RRR Recycling Services and Schnitzer Steel Hawaii. The final tour delves into "Green" Business Recycling from the Kahala Hotel, Whole Foods Market and Gytaku Japanese Restaurant.

Check out [opala.org](http://opala.org) for more details.



CSM's Albert Kim shows group items that clog sewer pipes and provides them Best Management Practices.



Honouliuli WWTP operator Lan Delos Santos answers questions on plant's operational functions.



BWS' Clayton Brown (l) and Arthur Air (r) educate the audience on recycled water and reuse in Leeward Oahu.



Tech-savvy operator, James Barboza, gives an entertaining presentation on the backbone of the wastewater system, SCADA.



Synagro plant manager Kenny Huy takes the group "inside the egg" illustrating the solids handling side and fertilization process.

## ALOHA ENV EMPLOYEES!

### NEW HIRES

Div.	Name	Position
CSM	Sean Fujii	WW Collection Sys. Helper
WTD	Shaul Gabatino	Asst. Storekeeper
CSM	Denice Hanson	Clerk Typist
CSM	Gerald Hieda	Civil Engineer V
REF	Corrine Kanae	Sr. Clerk Typist
WTD	Avery Kane	Asst. WWTP Operator
WTD	Michael Tugadi	Asts. WTD
EQ	Gayatri Vithanage	Sanitary Chemist III

### IN-HOUSE PROMOTIONS

Div.	Name	Position
CSM	Raynor Agpaoa	WW Pump Plant Operator
CSM	Alexander Aiu Jr.	WW Collection Sys. Repairer
CSM	Gavin Ako	WW Collection Sys. Repairer
EQ	Nestor Beltran	Engineering Support Tech III
CSM	Donald Bittick	WW Pump Plant Operator
WTD	Donald Cadina	Lead WWTP Main. Mechanic
CSM	Keith Faufata	WW Collection Sys. Repairer
WTD	Michael Gyotoku	WW Plant Maint. Super. II
CSM	Corey Kaai	WW Collection Sys. Repairer
CSM	William Kabele	WW Collection Sys. Repairer
CSM	Brian Kalopode	WW Collection Sys. Repairer
EQ	Franklin Lung	Civil Engineer IV
WTD	Michael Magee	WWTP Supervisor IV
WTD	Victor Peltier	WWTP Operator IV
WTD	Wayne Salas	WWTP District Supervisor
EQ	Liela Salazar-Flauta	Sanitary Chemist IV
WTD	Jay Swift	Lead WW Plant Main. Mech.

### RETIREMENTS

Div.	Name	Yrs	Position
EQ	Edith Alipio	23	Engineering Support Tech III
OAS	Charles (Mike) Maupin	17	Management Analyst IV
WTD	Nestor Puesta	16	WWTP Operator III
REF	Brian Tom	32	Refuse Coll. Crew Leader
REF	Miles White	33	Refuse Coll. Crew Leader

## QUOTABLES

"Life is like a sewer...what you get out of it depends on what you put into it."

-Tom Lehrer,  
(American Musician)



## MALATHION FOUND IN BULKY PICKUP

An ENV bulky collection crew recently was overwhelmed during their route when an irresponsible citizen placed two one-gallon containers of malathion in their bulky trash.

The two containers were hidden in a five-gallon bucket when they were placed in the bed of the truck. The compactor compressed the containers, causing them to break open. Fumes overwhelmed the ENV employees as both fire and haz-mat crews were called.

Malathion is an insecticide first registered in the United States in 1956 to assist with mosquito and fruit fly eradication programs. The chemical is currently used in thousands of products throughout the U.S.

The refuse truck was isolated and taken to the landfill a couple of days later where state HEER personnel located the source (see photo below). The entire load was classified as special waste and was buried separately from that day's normal loads.



State HEER personnel showing the white containers of malathion that was inside the yellow plastic bucket.



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