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WATER FOR PEOPLE L.A.



Spring Hike-A-Thon in Malibu

WHEN: Saturday, May 22, 2009, 9:30 AM
Free refreshments and hiker check-in begin at 8:30 AM

WHERE: Charmlee Wilderness Park
2577 S. Encinal Canyon Road, Malibu, CA 90265

WHAT: Hike-A-Thon to promote safe drinking water and sanitation projects in developing countries. Features a scenic, moderately strenuous 2.5-mile hike and a fun family activity area. Registered Hikers will receive:

- Water and giveaways including a 2-for-1 coupon for wine tasting at Malibu Wines
- A morning of exercise benefiting a good cause!

REGISTRATION FEE: \$25 per person
\$80 per 4-person team

**No registration fee for children under 10.
Registrations are welcome onsite. To register or for more information, email to waterforpeoplela@gmail.com*



Los Angeles Basin Section (LABS) Young Professionals Committee

Bixby Marshlands Tuesday, May 25, 2010 @ 5:00 PM

Where: The entrance to the marshland is located on Figueroa Street, just south of Sepulveda Blvd, in Carson. An iron gate leads into the parking lot.

Cost: Free for CWEA members and those interested in membership.

RSVP: by **Friday May 21st** by emailing Nicole You – (323)-342-6265 nicole.you@lacity.org



After the tour, join the YPs at El Paso Cantina banquet room for appetizers. Located at 2404 W. Sepulveda Blvd., Torrance, CA, 3 miles from Bixby Marshland following Sepulveda Blvd westward.

LABS March Dinner and Training Event with AAEA

By Wendy Wert

On March 25, 2010 the Los Angeles Basin Section (LABS) of the California Water Environmental Association (CWEA) partnered with the Arab American Association of Engineers and Architects (AAEA) to present *In Sight and Mind... Engaging the Community At All Levels the AAEA Mission and Activities in Los Angeles*. The dinner and training event was held at Wahibs Middle East Restaurant in Alhambra. The featured speaker for the event was Adel Hagekhalil (shown on right). Mr. Hagekhalil is a registered civil engineer with the State of California and a national Board Certified Environmental Engineer. Adel is currently an Assistant Director with the City of Los Angeles Bureau of Sanitation where he is responsible for the Bureau's wastewater collection system management, stormwater and watershed protection program, water quality and TMDL compliance, and facilities advance planning.



Adel presented an overview of the challenges faced by the City in light of unique productive partnerships that can successfully engage communities at all levels. The City of Los Angeles serves a population of 4 million in a 600 square mile service area. The Bureau of Sanitation is made up of 3,000 employees divided into three programs: the Clean Water Program (Wastewater), the Watershed Protection Program (Stormwater), and the Solid Resources Program. The Wastewater Program consists of four treatment plants with a total capacity of 550 million gallons per day (MGD), 6,700 miles of sewer pipe, and 47 wastewater pumping plants. The Stormwater Program consists of 1,200 miles of collection pipes, 100 miles of open channels, and 38,000 catch basins. The Solid Resources Program handles 1,650,000 tons of solid resources material collected, over 500,000 tons of green materials recycled for mulch and compost, and over 260,000 tons of glass, paper, cans, and other materials. The program has an overall 68% waste diversion rate.

Adel reviewed the constraints that an effective resource management program must operate within including: public expectations, regulatory compliance, constant growth, aging infrastructure, limited funding, limited resources, and economic recession. An effective program will recognize that one of the constraints (public expectations) may become a resource through stakeholder engagement. The *Effective Utility Management* (available at www.watereum.org) lists "Actively involves stakeholders in the decisions that will affect them." as a key attribute of effectively managed utilities.

Adel presented case studies that demonstrate effective utility-community partnerships. One example the Low Impact Development (LID) Ordinance and Water Quality Compliance Master Plan conducted five community workshops to solicit stakeholder input, held 86 stakeholder workshops, e-blasted information to 3,000 stakeholders and 8,000 neighborhood council members and posted an ongoing educational series. Another example is the Total Maximum Daily Load (TMDL) Implementation Plans, which used a stakeholder-driven process to establish implementation strategies. Through the Integrated Resources Plan (IRP) the community developed a 20 year integrated facilities plan. As a follow-up to the IRP the Recycled Water Master Plan developed strategies to effectively recycle an additional 50,000 acre-feet of water by 2019. A stakeholder driven process under the solid resources program developed the Zero Waste Plan, a 20-year master plan for the City to achieve zero waste by 2030.

Adel challenged agencies to be visible to the communities they serve through positive outreach programs such as Sewer Science, which has reached over 15,000 students, Kids Ocean Day, an annual event attended by 4,000 students from 25 schools. Other effective programs include: the Japanese Garden 25th Anniversary Celebration at the Tillman Water Reclamation Plant, holding open houses at City service yards, hosting facility tours, and annual holiday blanket and jacket drives.

Adel ended the presentation with a challenge to all those present to make a commitment to reach out to a member of their community whom they have historically avoided "the more difficult it is to speak to the group, society, or organization; the more likely it is that your genuine sustained efforts over time will yield constructive working relationships."

CWEA Recycled Water One-Day Specialty Conference *By Jodie Nygaard, LACSD*

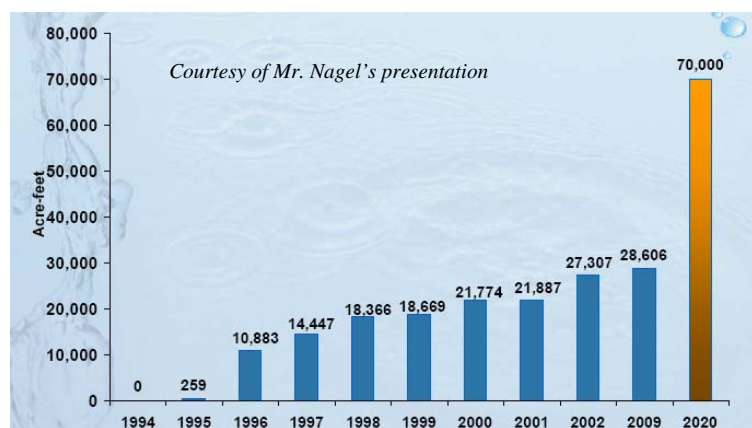
On February 11, 2010, the California Water Environment Association's (CWEA) Engineering and Research Committee, along with the Los Angeles Basin and Santa Clara Valley Sections, held a one-day specialty conference on recycled water. The conference, entitled "Recycled Water: What Goes Around...Comes Around", featured six speakers and covered topics ranging from regulatory aspects of recycled water to implementation of recycled water projects to the latest research efforts in the field.

Ms. Frances Spivy-Weber, the vice-chair of the State Water Resources Control Board, presented on the legislative and regulatory issues. Three main legislative bills were discussed that may impact recycled water: SB X7-7, AB 1481, and SB918. SB X7-7, signed November 2009, will standardize water use reporting for conservation, recycled water, and storm water capture and use. It also proposes and updates statewide targets for regional water management, including recycled water. AB 1481 provides a mechanism for more efficient permitting of recycled water usage for landscape irrigation. An online application form for such permits was implemented in 2009, however the program is not expected to be fully operational until fall of 2010. SB 918, if passed, would set deadlines for the California Department of Public Health (CDPH) to develop criteria for groundwater recharge by the end of 2013 and for surface water augmentation by the end of 2014. The main regulation effecting recycled water is the State Water Resources Control Board's Recycled Water Policy, adopted May 2009. This policy sets targets for an increase in recycled water usage in California of 200,000 acre-feet/year (AFY) by 2020 and an additional 300,000 AFY by 2030.

Ms. Heather Collins, the South Coast Section Chief of the CDPH, also discussed regulations in her presentation, however, from a CDPH perspective. While it is not the responsibility of CDPH to issue and enforce permits, they do review recycled water proposals for compliance with Title 22 Criteria and provide requirements and recommendations to the Regional Water Quality Control Boards for recycled water permits. The regulations CDPH consider when reviewing recycled water proposals address factors such as levels and types of treatment, reliability, and use area controls to provide public protection and avoid cross connections. CDPH considers the submission of an engineering report with the permit application as a request for their review. Therefore, this report must describe all elements of a project necessary for them to determine compliance such as O&M procedures, use site inspections, employee training, performance criteria, any monitoring and reporting, and use areas. In addition to reviewing proposals, CDPH has also developed draft Groundwater Recharge Regulations. These draft regulations address wastewater source control programs, treatment processes, water quality, dilution requirements, recharge methods, operational controls, distance to extraction, along with several other issues. CDPH is currently working on finalizing these regulations.

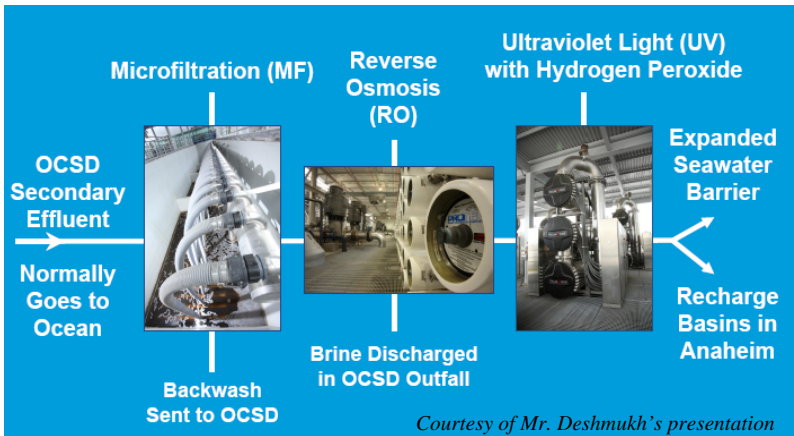
All of these regulations and polices ensure public health is protected as the use of recycled water continues

to expand. Two large users of recycled water are the West Basin Municipal Water District (West Basin) and the Orange County Water District. Rich Nagel, the General Manager for West Basin, stated in his presentation that, West Basin has increased their recycled water usage from zero as of 1990 to approximately 29,000 AFY in 2009. Their goal is to increase this further to 70,000 AFY by 2020. They have even been able to produce "designer recycled water" in which various water qualities are produced for various uses at their recycling plant.



According to Mr. Shivaji Deshmukh, the Groundwater Replenishment System Program Manager at the Orange County Water District, the Orange County Water District has built an advanced water purification process that produces approximately 72,000 AFY via microfiltration, reverse osmosis, and ultraviolet (UV) light with hydrogen peroxide at a cost of approximately \$481 million. This project has been operational since

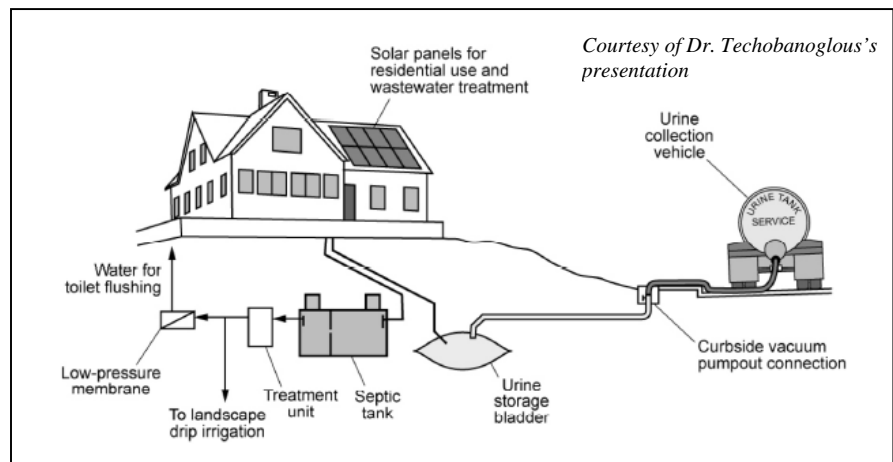
January 2008 and provides water to refill basins and protect from seawater intrusion. Mr. Deshmukh added that, one of the biggest keys to success of this project was public outreach. Proactive face-to-face outreach was found to be the most successful. As a result, numerous community presentations and tours have been given and continue to occur.



As the use of recycled water continues to grow, so does research within the field. The Water Research Foundation (WRF) has conducted numerous studies related to recycled water, however, the two focused on by Mr. Andrew Salveson, an Associate at Carollo Engineers, were WRF 02-009 and WRF 06-019. WRF 02-009 was designed to find cost effective technologies to destroy trace

organics and pathogens. Detailed pilot and bench-scale testing was performed and full-scale sand filter and microfilter performance were measured. The results of the study showed trace organic destruction correlates with reduced hormonal potential. It also demonstrated that some pathogen and trace organic removal could be obtained through filtration, while UV with peroxide can reduce trace organics at reclaimed water doses. However, the most cost effective technology for removal of trace organics was found to be ozone. WRF 06-019 also examined trace organic removal, however, it focused on membrane technology and the aquatic impact of organic removal. Toxicity tests, tissue bioassays, and live fish bioassays were all used to evaluate toxicity and hormonal impacts. Testing of vitellogenin, an egg yolk precursor protein, exposed to MBR and RO effluent showed no signs of exposure to estrogenic endocrine disruptive chemicals, while vitellogenin exposed to UF and RO effluent provoked no substantial signs of exposure to estrogenic endocrine disruptive chemicals. UF and RO effluent were also tested and were found not to be a significant source of estrogenic endocrine disruptive chemicals.

In addition to the WRF studies, research is also being conducted by others. Dr. George Tchobanoglous, a Professor Emeritus of Civil and Environmental Engineering at the University of California, Davis, presented on research in the area of decentralized water recycling. Unlike centralized treatment, these systems collect, treat, and reuse reclaimed wastewater at or near the point of generation. Several types of decentralized water systems are already in place, including within both commercial and residential developments. However, new technologies and strategies are being developed, especially in the areas of pretreatment, effluent reuse, urine separation, soil mantle utilization, and methane emission control. One of these strategies includes household nutrient separation, storage, and recovery with curbside collection. Urine would be separated and stored in a bladder and removed at a later time via urine collection vehicles. Other household wastes would be collected in a septic tank, treated, and used as grey water. Implementation of this idea would be a large paradigm shift in wastewater treatment and reuse.



Throughout the day and in all presentations, the common theme was that recycled water is now viewed as a valuable resource. There has been significant increase in reuse over the past 30 years as well as significant advancement of treatment schemes and analytical techniques. Advancement is expected to continue into the future and provide additional opportunities for recycled water use.

INLAND EMPIRE REGIONAL COMPOSTING AUTHORITY UPDATE



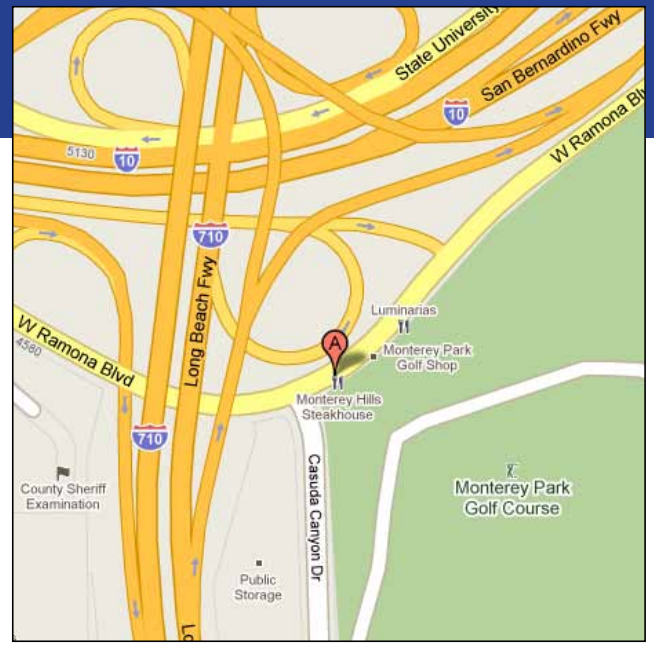
THURSDAY, MAY 20, 2010
6 mixer • 6:30 dinner • 7 presentation

Speaker: **Jeff Ziegenbein**, Deputy Manager of Operations for Inland Empire Regional Composting Facility (IERCF)

The IERCA was created in 2002 by a Joint Powers Agreement between the Inland Empire Utilities Agency (IEUA) and County Sanitation Districts of LA County (CSDLAC). The agencies have jointly evaluated composting as an economically and environmentally sound method of beneficially reusing biosolids from wwtps.



Pay at the door. CWEA members \$30 / non-members \$35 / students or retirees \$15.



Dinner

- Choose One Entree:**
1. Roasted Prime Rib
 2. Baked Atlantic Salmon with Light Teriyaki Glaze
 3. Pasta Primavera
- Dessert:** Carrot Cake

RSVP

Respond by May 14th
 RSVP with entree choice:
wwert@lacs.org
 email preferred
 or phone Wendy Wert
 562.908.4288 ext. 2128

Location

Monterey Hill Steakhouse
 3700 W Ramona Blvd
 Monterey Park, CA 91754
 (323) 264-8426





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Southern CA Rep:	Debra Bogdanoff	(562) 908-4288 x-2734

SPECIAL EVENTS CALENDAR

May 11 th	CWEA Pump Station Optimization Electrical & Instrumentation Half-Day Workshop; Riverside; www.cwea.org/conferences
May 18 th	CWEA SSMP Requirement 1: Developing Your Plan; Anaheim; www.cwea.org/conferences
May 20 th	LABS May Dinner Meeting; Monterey Park; wwert@lacsds.org
May 21 st	CWEA YP Event: Bixby Marshland Tour; Carson; nicole.you@lacity.org
May 22 nd	Water for People LA Hike-A-Thon; Malibu; waterforpeoplela@gmail.com
June 6 th ~ 9 th	CWEA/WEF Membrane Applications Specialty Conference; Anaheim; http://www.wef.org/Membrane/

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