



June 2011 SEWER LEAKS

A Publication of Los Angeles Basin Section of the CWEA

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City of Malibu's Legacy Park and Stormwater Treatment Facility



MALIBU LEGACY PARK PROJECT
FULFILL A DREAM, LEAVE A LEGACY

[Hwww.labsofcwea.com](http://www.labsofcwea.com)

Malibu • July 28th • 5PM Tour • 6PM Dinner • 7PM Presentation

Tour:

Stormwater Treatment Facility
(salmon colored building):
Legacy Park
23500 Civic Center Way
Malibu 90265

RSVP:

By July 22nd with meal choice to:
alecm@jwce.com or call Alec Mackie
at (714) 428-4614.



COLLECTION SYSTEMS LUNCHEON: FLEET MANAGEMENT

CNG Fleet Requirements

THUR.
JUNE 23
11:30AM - 1PM



AQMD Fleet Rules (15 min) Dean Saito, AQMD

An explanation of AQMD's Clean Natural Gas vehicle requirements for new municipal equipment operating within the LA Basin as well as recent examples of the waiver process.

Equipment Options and Capabilities (15 min) Dave Thomas, Haaker

The options available for purchasing CNG vehicles and equipment specifications and capabilities.

Clean Fleet Success Story (30 min panel discussion)

Barry Berggren,
City of Los Angeles, Bureau of Sanitation

The panel includes Mr. Berggren and members of the BOS field crew and fleet staff. They'll describe the challenges CNG equipment poses in the field and for fleet management, along with ways the City of Los Angeles is addressing those challenges.

Questions and Answers

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March 29th 2011 ~ Terminal Island Water Reclamation Plant Tour

By Nicole You

The Terminal Island service area covers 20 square miles and serves the Los Angeles Harbor populations in Wilmington, San Pedro and a portion of Harbor City. Terminal Island Treatment Plant (TIWRP) – operated by Bureau of Sanitation, City of Los Angeles – has a treatment capacity of 30 MGD, provides full primary, secondary and tertiary treatments to approximately 17.5 MGD of wastewater within the heavily industrialized Los Angeles harbor area. It has the ability to deliver up to 5 MGD for beneficial use and currently delivers water to the Dominguez Gap seawater barrier system. Other tertiary treated water generated in the plant is recycled onsite and discharged into the Los Angeles Harbor.



On March 29th, CWEA LABS Student & Young Professional group toured the TIWRP facilities as the first quarterly event of the year. The group was well received by plant manager Mrs. Roshanak Aflaki and the rest of the staff. Aflaki gave a brief and warm welcome to YP guests, introduced

the role of the TIWRP in the City of Los Angeles' Bureau of Sanitation and its recent accomplishments and awards. Plant engineer Kevin Kim and Maintenance Manager Harold Gies then provided short presentations on plant processes, logic control system and asset management. Plant Operation Manager David Gumaer presented the history, upgrades, current operations and future improvements of the plant. The group then visited each segment of the wastewater treatment process: headworks, primary/secondary treatments, tertiary treatment, wastewater injection well and the laboratory. The tour was exciting and fast-paced.

Questions prompted by the Young Professionals ranged from technical, O&M, public outreach to policies. YP members were impressed by the efficient design of the plant, its relative small footprint compared with treatment capacity and the knowledgeable plant staff. It was an informative and enjoyable experience for all.

TIWRP BRIEF HISTORY

- 1930's TIWRP was built as a Primary treatment plant
- 1960's TIWRP was upgraded to include Secondary treatment
- 1996 TIWRP was upgraded to include Tertiary treatment AWTF (Advanced Water Treatment Facility)
- 2008/09 – 2012/13 Design and construction of AWTF Phase II



TIWRP FUTURE IMPROVEMENTS

- One Control System Replacement project will replace the existing Programmable Logic Control system with a Distributed Control System for plant-wide process control.
- The New Service Maintenance Facility project will demolish the existing metal sheds along the north-east corner of the plant and construct a new service maintenance facility.
- The Blower Replacement project will replace the existing three secondary aeration blowers with new models, including accessories and controls.
- Two Advanced Water Treatment Facility projects will replace the microfiltration membranes and the reverse osmosis membranes at the plant.
- One Headworks Improvement project will enhance the preliminary treatment process at the plant.

For future LABs S&YP tours/events, please check out our updates at www.labsofcwea.com

EPA Launches New Strategy to Promote Use of Green Infrastructure for Environmental and Economic Benefits

The U.S. Environmental Protection Agency (EPA) is launching a new strategy to promote the use of green infrastructure by cities and towns to reduce stormwater runoff that pollutes the nation's streams, creeks, rivers, lakes and coastal waters. Green infrastructure decreases pollution to local waterways by treating rain where it falls and keeping polluted stormwater from entering sewer systems. In addition to protecting Americans' health by decreasing water pollution, green infrastructure provides many community benefits including increased economic activity, neighborhood revitalization, job creation, energy savings and increased recreational and green space.

Large volumes of polluted stormwater degrade the nation's rivers, lakes and aquatic habitats and contribute to downstream flooding. Green infrastructure captures and filters pollutants by passing stormwater through soils and retaining it on site. Effective green infrastructure tools and techniques include green roofs, permeable materials, alternative designs for streets and buildings, trees, rain gardens and rain harvesting systems.

As part of the strategy, EPA will work with partners including local governments, watershed groups, tribes and others in ten cities that have utilized green infrastructure and have plans for additional projects. EPA will encourage and support expanded use of green infrastructure in these cities and highlight them as models for other municipalities around the country. The EPA has selected Los Angeles as one of these ten cities!



EPA will continue to work with other federal agencies, state and local governments, tribes, municipalities, and the private sector to identify opportunities for using green infrastructure and provide assistance to communities implementing green approaches to control stormwater. EPA will also provide additional tools to help states and communities leverage green infrastructure opportunities within other innovative environmental projects.



Mark Gold

GETTING YOUR MIND **IN** THE GUTTER

Using Stormwater as a Resource



LA by nathangibbs, Flickr cc / Mark by Heal the Bay

Come out and get to know Heal the Bay at this very special presentation by **Mark Gold**, HTB's President. Mark will discuss California's response to water scarcity and the opportunity to sustainably harvest rainwater for reuse and infiltration.

Rainwater harvesting can augment water supplies while providing flood control and minimizing pollution. Efforts to incentivize and encourage small scale and regional rainwater harvesting must expand. Agencies such as MWD can provide economic incentives like the \$250 per acre foot subsidy they provide for water recycling and ocean desalination projects. In addition, the State can clarify

health requirements for rainwater harvesting. The Los Angeles County Department of Public Health will soon release a rainwater harvesting matrix for new projects.

We need to move beyond the concept of "one water" to the reality of integrating policies, regulations and funding for water supply and water quality. With these changes, we can treat urban rivers as a resource rather than structures that simply transport stormwater pollution into our rivers, beaches and bays.

Please pay at the door: \$35 members / \$40 non-members / \$20 students/retirees.

Thursday, June 16 • 6PM Mixer • 7PM Dinner

Dinner:

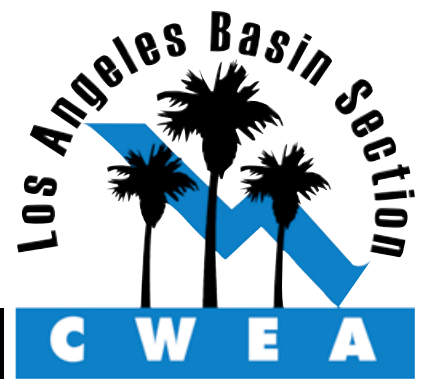
Italian family style:
Grilled chicken, filet mignon, pasta dishes, mixed greens salad, garlic rolls & tiramisu!

RSVP:

By June 10 please:
[Click Here](#)
or write Alec Mackie
at alecm@jwce.com
or call (714) 428-4614

Restaurant:

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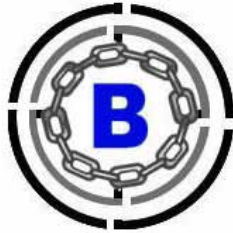
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SPECIAL EVENTS CALENDAR

June 16 th	Getting Your Mind In the Gutter, Marina Del Rey www.labsofcwea.com
June 22 nd	'The Big Thirst', Author Lecture Charles Fishman, Los Angeles, www.labsofcwea.com
June 23 rd	Collections System Luncheon; Los Angeles, www.labsofcwea.com
Mid July	West Basin Desal Demo Facility Tour; Redondo Beach, www.labsofcwea.com
July 28 th	Legacy Park and Stormwater Treatment Facility, Malibu, www.labsofcwea.com

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Send your presentation, seminar or training ideas to alecm@jwce.com for consideration

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