



STORMWATER BEST MANAGEMENT PRACTICES (BMPs) New Development/Significant Redevelopment Projects

WORKSHOP May 4, 2011

Background

The FourthTerm NPDES Municipal Permit (Order No. R9-2009-0002) requires South Orange County Permittees to adopt their own local Jurisdictional Runoff Management Program (JRMP) and Local Standard Stormwater Mitigation Plan (SSMP) incorporating all requirements of the Model SSMP, and amending ordinances as necessary. The Local SSMP will be used as a guide for review and approval of Water Quality Management Plans (WQMPs) for New Development and Significant Redevelopment projects. Much of the South Orange County Watershed Management Area (WMA) is highly urbanized and can pose a challenge when requiring incorporation of Low Impact Development (LID) Best Management Practices (BMPs) to achieve compliance with the new requirement. LID BMPs include site design, infiltration, evapotranspiration and biofiltration and promotes management of stormwater onsite and improves water quality before stormwater leaves a site.

Purpose

This workshop is educational in nature and seeks to provide information on the efficacy of onsite storm water capture and treatment, regulations triggering stormwater BMP incorporation, systems in place in the watershed, and lessons learned/appropriate selection of BMPs.

Audience

We wish to target municipal engineers and planners, and owners and managers of properties with large hardscape areas, including corporate headquarters, corporate distribution centers, shopping malls, apartment complexes, and institutions. We will ask municipalities to identify and invite those property owners whom they feel would benefit from this workshop.

Format

The workshop will consist of a series of morning panels presenting information followed by lunch and then a carpool tour of three to four sites in south county that have employed different stormwater BMPs. Identified thus far as possible sites for the tour are:

Ladera Ranch Riparian and Water Quality Control Stream

Mission Viejo Community Center in Mission Viejo: integrated water quality feature in parking lot

San Juan Capistrano City Hall: bioswale detention system

Capistrano Bay Estates in Dana Point: BMP – porous asphalt

Timeframe

8:00am to 3:30pm

Venue

Saddleback Conference Room, Mission Viejo City Hall 200 Civic Center Mission Viejo, CA **AGENDA**

8:00am – 8:30am Registration.

8:30am -8:45am *Welcome by workshop hosts*: OC Public Works and LASGRWC

Mary Anne Skorpanich, OC Watersheds Nancy Steele, LASGRWC

8:45am – 9:00am *Workshop Overview* – Mary Loquvam

9:00am – 9:45am LASGRWC Water Augmentation Study and Results – Do capture and ground

infiltration of stormwater work at cleaning constituents from stormwater? How and where has this been studied locally? What are the results? Nancy Steele and Edward Belden will discuss the Watershed Council's eight-year study of the efficacy of infiltrating water into the ground as a method for naturally treating contaminated

stormwater.

Nancy Steele, Executive Director of the Los Angeles & San Gabriel River Watershed

Council & Edward Belden, Water Programs Director

9:45am - 10:30am What's in the Ground Locally?

What and where are local examples of BMPs in the ground? Are they working? How large an area do they treat? What do they treat? How much did they cost? How long will they last? Are they in compliance? A panel of four guests will describe BMPs they have placed in south county in the past several years and answer the questions

posed above.

Arroyo Trabuco Golf Course – Sam Ali County of Orange Public Works

Mission Viejo Community Center-Larry Ryan, RJM Design Group

San Juan Capistrano City Hall - Francine Kennedy, City of San Juan Capistrano

10:30am – 10:45am *Break*

10:45am - 11:30am What's in the Ground Session 2 and Lessons Learned

How have projects held up? Have they met expectations? Were BMPs difficult to convince engineers to employ? This session will explore some of the Lessons

Learned in incorporating LID solutions to projects.

Ladera Ranch Riparian and Water Quality Control Stream - Hassan Nouri

Capistrano Bay Estates - Staff City of Dana Point TBA

Mission Viejo - Joe Ames, City of Mission Viejo

11:30am – 12:15PM *Regulations and Triggers* – This panel will discuss the regulations related to

Municipal Permit No.R9-2009-0002 issued by the San Diego Regional Board specifically related to the requirements for New Development and Significant Redevelopment. These requirements include runoff management and must include Low Impact Design principles and Hydromodification. Examples of facilities that must now meet these requirements include redevelopment projects adding or replacing at least 5,000 sq. ft. of impervious surface, hillside developments greater that 5,000 sq. ft., restaurants where the land area for development is greater than 5,000 sq. ft., parking lots, streets, roads, highways, automobile repair shops and retail gasoline outlets.

	Richard Boon and Jennifer Shook, County of Orange Stormwater Program
12:15am – 1:00pm	Lunch and Networking:
1:00 pm – 3:30pm	Tour of four sites, Mission Viejo Community Center – Mission Viejo Ladera Ranch Riparian and Water Quality Control Stream San Juan Capistrano City Hall Capistrano Bay Estates
3:30pm	Return to Mission Viejo City Hall & Conclude
Please RSVP by Monday, April 25, 2011 to confirm your space in this workshop. RSVP to : Andrea.Toscano@ocpw.ocgov.com or 714.955.0600	
Please indicate the following with your RSVP :	
Afternoon BMP Site	Tour YES NO

\$8.00

\$8.00

YES _____

YES ____

Please bring cash to pay for your lunch.

Vegetarian Sandwich (includes chips, cookie, and drink)

Meat sandwich (includes chips, cookie, and drink)

Lunch Option