

# REGISTER for the MARCH 30 MCSTOPPP Seminar on:

## Understanding Watershed Hydrology for Effective Stormwater Management of Marin's Creeks

March 30, 2010, at City of San Rafael's Department of Public Works  
111 Morphew St., San Rafael, CA - 8:30 a.m. - 12:00 p.m.

### Seminar Audience

- Municipal stormwater staff, planners, plan reviewers and engineers
- Developers, architects, engineers, landscape architects, and interested residents

### Seminar Speakers

- Dan Cloak, P.E., Dan Cloak Environmental Consulting
- Christie Beeman, P.E., Phillip Williams and Associates

### Seminar Agenda

- 8:30: Continental Breakfast
- 9:00: Introductions
- 9:15: Watershed hydrology overview: runoff event frequencies, flooding, and stream channel formation. – Christie Beeman, P.E.
- 9:30: Watershed scale hydrograph modification management: event-based and continuous simulation modeling for hydrology. - Christie Beeman, P.E.
- 10:00: Site scale hydrograph modification management: current/future stormwater NPDES regulations and criteria for runoff from new developments. Dan Cloak, P.E.
- 10:15: Break
- 10:45: Low Impact Development drainage design: detention, retention, harvesting, and reuse. Dan Cloak, P.E.
- 10:30: Design criteria and methodologies for LID and non-LID runoff storage, treatment and detention facilities. Dan Cloak, P.E.
- 11:00: Using MCSTOPPP's Guidance for Applicants: Stormwater Quality Manual for Development Projects in Marin County. Dan Cloak, P.E.
- 11:45: Summary, evaluation and wrap-up.



Branson School Rain Garden  
- Photo credit Christian

**Registration Form**

**MCSTOPPP Seminar**

Visit [www.mcstoppp.org](http://www.mcstoppp.org)

**\$10 registration fee**. No charge for Marin municipal staff (MCSTOPPP members)

Name \_\_\_\_\_  
Address \_\_\_\_\_  
City \_\_\_\_\_ Zip \_\_\_\_\_  
E-mail \_\_\_\_\_  
Daytime Phone \_\_\_\_\_

**Enrollment is limited to the first 60 paid participants. Register by 3-26-10.**

***A final agenda and directions to the workshop will be provided to registrants who provide their e-mail addresses.***

**Make checks payable to  
County of Marin &  
return to:**

MCSTOPPP

Attn: Terri Fashing

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## Watershed Hydrology - MCSTOPPP SEMINAR

### REGISTER NOW! March 30, 2010 Seminar: Understanding Watershed Hydrology for Effective Stormwater Management of Marin's Creeks

*See reverse for agenda and registration form.*

**Seminar Topics:** watershed and creek hydrology, reducing impacts to creeks from development projects, runoff models and hydrograph modification management, NPDES stormwater runoff criteria and requirements in Marin, and flood control considerations.

**For more information, contact:** Terri Fashing at (415) 499-6583 [tfashing@co.marin.ca.us](mailto:tfashing@co.marin.ca.us)



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**Marin County Stormwater  
Pollution Prevention Program (MCSTOPPP)**  
**City of San Rafael Public Works**



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