IMPLEMENTATION OF INTERIM HYDROMODIFICATION CONTROL REQUIREMENTS IN THE SAN DIEGO REGION (SOUTH ORANGE COUNTY)

County of Orange

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EFFECTIVE DECEMBER 16, 2010

ALL "PRIORITY" PROJECTS IN THE SAN DIEGO REGIONAL WATER QUALITY CONTROL BOARD REGION (SOUTH ORANGE COUNTY) WILL BE REQUIRED TO MEET "INTERIM HYDROMODIFICATION CONTROL REQUIREMENTS"

Pursuant to the Municipal Separate Storm Sewer System Permit (Order No. R9-2009-0002), issued to the County of Orange and cities of south Orange County by the San Diego Regional Water Quality Control Board ("Regional Board"), all non-exempt "Priority" development projects must meet interim hydromodification control requirements effective December 16, 2010. Projects without an approved Water Quality Management Plan (WQMP) by this effective date will be required to match the post-construction hydrologic conditions of the project to the pre-development (naturally occurring) conditions through on-site engineered hydromodification controls.

To determine if a project must meet the Interim Hydromodification Control (IHC) Requirements, please follow these steps:

1. Use the attached checklist to determine if the proposed project in the San Diego Region of Orange County is a "Priority" or "Non-Priority" project. All "Non-Priority" projects are exempt from meeting IHC Requirements.

2. If the project meets the definition of "Priority," use the following additional criteria to determine if the proposed project is exempt from meeting the IHC Requirements. "Priority" projects are exempt where the project discharges:

   (a) stormwater runoff into underground storm drains discharging directly to bays or the ocean, or

   (b) stormwater runoff into conveyance channels whose bed and bank are concrete lined all the way from the point of discharge to ocean waters, enclosed bays, estuaries, or water storage reservoirs and lakes.

All "Priority" projects that do not meet one of the exemption criteria must meet IHC Requirements. To meet these requirements, the WQMP for the project must include data regarding pre- and post-construction flow rates and the on-site engineered hydromodification controls must be sized to ensure that post-construction runoff does not exceed the baseline condition for flows up to the 10 year storm event.

The IHC Requirements can be met by utilizing one of the following methods:

1. South Orange County Hydromodification BMP Sizing Tool and Technical Guidance Document

2. South Orange County Project-Specific Analysis Methods (June 12, 2011)

3. Any other method that satisfies the IHC requirements set forth in Order No. R9-2009-0002 (see attached excerpt)

The BMP Sizing Tool and Technical Guidance Manual, along with the Alternative Analysis Methods, are available for download at: www.ocplanning.net/WaterQuality.aspx.

Additional information can be found at the following links:

- San Diego Regional Water Quality Control Board, Order No. R9-2009-0002
  http://www.ocwatersheds.com/Documents/San_Diego_Final_R9_2002_0001_with_Attachments.pdf
- CASQA New Development and Redevelopment Handbook
  http://www.cabmphandbooks.com/development.asp
- Los Angeles County Dept. of Public Works LID Manual
  http://dpw.lacounty.gov/wmd/dsp_LowImpactDevelopment.cfm
- Ventura County Technical Guidance Manual for Stormwater Quality Control Measures
  http://www.vcstormwater.org/technicalguidancemanual.html

California Regional Water Quality Control Board
San Diego Region

Order No. R9-2009-0002/NPDES No. CAS0108740
December 16, 2009

EXCERPT

Section F. 1. Jurisdictional Runoff Management Program (JRMP)/Development Planning Component

h. Hydromodification – Limitations on Increases of Runoff Discharge Rates and Durations

(5) Interim Hydromodification Criteria

Within one year of adoption of this Order, each Copermittee must ensure that all Priority Development Projects are implementing the following criteria by comparing the pre-development (naturally occurring) and post-project flow rates and durations using a continuous simulation hydrologic model such as US EPA's Hydrograph Simulation Program-Fortran (HSPF):

(a) For flow rates from 10 percent of the 2-year storm event to the 5 year storm event, the post-project peak flows shall not exceed predevelopment (naturally occurring) peak flows.

(b) For flow rates from the 5 year storm event to the 10 year storm event the post-project peak flows may exceed pre-development (naturally occurring) flows by up to 10 percent for a 1-year frequency interval.

The interim hydromodification criteria do not apply to Priority Development Projects where the project discharges (1) storm water runoff into underground storm drains discharging directly to bays or the ocean, or (2) storm water runoff into conveyance channels whose bed and bank are concrete lined all the way from the point of discharge to ocean waters, enclosed bays, estuaries, or water storage reservoirs and lakes.

Within one year of adoption of this Order, each Copermittee must submit a signed, certification statement to the Regional Board verifying implementation of the interim hydromodification criteria.

(6) No part of section F.1.h shall alleviate the Copermittees responsibilities for implementing Low Impact Development BMPs as required under section F.1.d.(4).