

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL COAST REGION
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DESCRIPTION OF PROPOSED CHANGES
TO POST-CONSTRUCTION STORMWATER MANAGEMENT REQUIREMENTS
For Development Projects in the Central Coast Region and
Resolution Approving the Requirements

Central Coast Water Board staff proposes changes to the Post-Construction Stormwater Management Requirements for Development Projects in the Central Coast Region (Post-Construction Requirements) and to the Resolution approving them. The changes are proposed as part of Draft Resolution R3-2013-0032, re-approving the Post-Construction Requirements originally approved on September 6, 2012 by the Central Coast Water Board with its adoption of Resolution R3-2012-0025.

Proposed Changes to the Post-Construction Requirements

The proposed changes address a Regulated Project's path to compliance with the Post-Construction Requirements' Runoff Retention Requirements and revise the approach to sizing structural Stormwater Control Measures (i.e., facilities) to meet those requirements if project applicants opt to use event-based approaches to avoid use of calibrated, continuous simulation modeling. The Permittee can allow project applicants to use a locally/regionally calibrated continuous simulation-based model to improve hydrologic analysis and Stormwater Control Measure sizing. This change in sizing structural Stormwater Control Measures only applies to use of event-based approaches.

Attachment D of the adopted Resolution (R3-2012-0025) provides requirements for sizing structural Stormwater Control Measures. The requirements include a calculation of the Retention Volume that Stormwater Control Measures must be sized to accommodate for event-based approaches. The calculation relies on a multiplier of 1.963 to determine the Retention Volume.

The proposed changes to the Post-Construction Requirements included in Draft Resolution R3-2013-0032 eliminate the 1.963 multiplier and allow for facility sizing by one of two methods when project applicants opt to use event-based approaches: Simple Method, and Routing Method (see pages 30-34 in Draft Resolution R3-2013-0032, Attachment 1: Post-Construction Requirements and pages 24, 25 and 53 in Attachment 2: Technical Support Document).

The Simple Method is a direct calculation of facility size based on the runoff volume generated by a single 85th or 95th percentile 24-hr rainfall event, whichever applies; use of 85th vs. 95th percentile depends on the Watershed Management Zone in which the project is located. The calculated runoff volume is the resulting facility design volume, or, Stormwater Control Measure Capture Volume of the facility.

The Routing Method uses hydrograph analysis to determine the Stormwater Control Measure Capture Volume needed to retain the runoff generated by the 85th or 95th percentile 24-hr rainfall event, whichever applies. In this method, the Stormwater Control Measure Capture Volume is based on both the rate of flow from tributary areas into the Stormwater Control Measure, and the rate of flow out of the Stormwater Control Measure through infiltration into soils during the rainfall event. The Stormwater Control Measure must be designed such that a single 95th or 85th percentile 24-hr rainfall event will not overflow the Stormwater Control Measure. Application of the Routing Method results in stormwater retention facilities that are smaller than those sized using the Simple Method.

For consistency, these proposed changes to Attachment D require related changes to Section B.4.d.v. and B.4.d.vi. of the Post-Construction Requirements, since these sections reference the hydrologic analysis and sizing methods in Attachment D (see pages 10 and 11 in Draft Resolution R3-2013-0032, Attachment 1: Post-Construction Requirements).

Central Coast Water Board staff also proposes changes to Section B.4.e concerning off-site mitigation (see page 11 in Draft Resolution R3-2013-0032, Attachment 1: Post-Construction Requirements). These changes do not alter the intent of Section B.4.e., but rather clarify that ten percent adjustment means that where a project can demonstrate that it is technically infeasible to fully achieve retention requirements on-site, a project must dedicate ten percent of the project's equivalent impervious surface area to retention-based Stormwater Control Measures, or pursue compliance off-site. For consistency, changes are also proposed in the first paragraph of Attachment E, which references the ten percent adjustment (see page 35) in Draft Resolution R3-2013-0032, Attachment 1: Post-Construction Requirements).

Central Coast Water Board staff proposes an additional revision to Attachment E of the Post-Construction Requirements. Attachment E includes an error that is corrected by removing *permeable pavement* from the list of surfaces excluded from the category of pervious tributary surfaces (see page 35 in Draft Resolution R3-2013-0032, Attachment 1: Post-Construction Requirements). Central Coast Water Board staff unintentionally included permeable pavement in this category in the Post-Construction Requirements approved September 6, 2012.

Revisions to the Technical Support Document were also necessary to present supporting information for the changes to the Post-Construction Requirements Attachment D described above. These changes are found on pages 24 and 25, and in Attachment G of Draft Resolution R3-2013-0032, Attachment 2: Technical Support Document.

Proposed Changes to the Resolution

On February 5, 2013, the State Water Resources Control Board adopted the National Pollutant Discharge Elimination System General Permit for the Discharge of Storm Water from Small Municipal Separate Storm Sewer Systems (Phase II Municipal General Permit). The Central Coast Water Board's September 6, 2012 Resolution R3-2012-0025, which approved the Post-Construction Requirements, must be re-adopted by the Central Coast Water Board for consistency with the Phase II Municipal General Permit. The language of the Central Coast Water Board's September 6, 2012 Resolution R3-2012-0025: refers to the former Phase II Municipal General Permit, Order No. 2003-0005-DWQ instead of the current Phase II Municipal General Permit, Order No. 2013-XXXX-DWQ¹; cites the section numbers for post construction requirements as per Order No. 2003-0005-DWQ instead of the current Phase II Municipal General Permit section numbers; and describes implementation via Storm Water Management Plans as in Order No. 2003-0005-DWQ instead of through Guidance Documents as required in the current Phase II Municipal General Permit. To re-approve the Post-Construction Requirements originally approved September 6, 2012, Central Coast Water Board staff is recommending the Central Coast Water Board adopt Draft Resolution R3-2013-0032. Draft Resolution R3-2013-0032 includes revisions that ensure consistency with the Phase II Municipal General Permit.

Draft Resolution R3-2013-0032 also includes a revision allowing the Central Coast Water Board Executive Officer to make non-substantive changes to the Post-Construction Requirements that do not alter their intent. Central Coast Water Board staff proposes this change to provide flexibility in implementing the Post-Construction Requirements.

¹ At the time of preparation of this Description of Proposed Changes the State Water Resources Control Board had not assigned a final Order Number for the Phase II General Municipal Stormwater Permit, adopted February 5, 2013.

Other minor revisions to Resolution R3-2012-0025 to clarify the proposed implementation of the Resolution are reflected in Draft Resolution R3-2013-0032 as well.

All of the above proposed changes are identified in tracked changes in the documents posted for Public Comment (see Public Notice). For ease in reviewing the Draft Resolution, versions with changes accepted are also provided.

For questions about these proposed changes to the Post-Construction Requirements and the Draft Resolution to approve them, please contact Dominic Roques at 805-542-4780 or (droques@waterboards.ca.gov).