



# City of Malibu

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## **STORM WATER MANAGEMENT PLAN (SWMP) REQUIREMENTS** **(POST-CONSTRUCTION BMPs)**

All projects which require a Coastal Development Permit must include a SWMP to mitigate the effect of development on storm water after construction. The project must be designed to achieve the following goals:

- ⇒ Maximize, to the extent practicable, the percentage of permeable surfaces, and
- ⇒ Maximize, to the extent practicable, retention of dry-weather runoff on the site.

The SWMP shall be certified by a California Registered Civil Engineer or Licensed Architect, and must include the following items:

1. A Local Stormwater Pollution Prevention Plan (SWPPP) which includes construction-phase Best Management Practices (BMPs). See the Stormwater Pollution Prevention Plan Requirements sheet for further information.
2. Hydrology/Hydraulic Report. The hydrology report must show the pre-development and post-development flow rates for a 100-year clear flow storm event. Hydraulic calculations must be provided to verify that all on-site drainage facilities are sized for a 100-year clear flow storm event. If the post-development flow rate exceeds the pre-development flow rate, the SWMP must satisfy one of the following conditions:
  - ⇒ Provide on-site detention to reduce the post-development 100-year flow rate to less than or equal to the pre-development flow rate. The detention basin must be designed to release runoff in stages at the 2-year, 10-year, and 100-year flow rates. The minimum storage volume of the detention facility shall be based on ½” of rainfall over permeable surfaces and 1” rainfall over impermeable surfaces, or
  - ⇒ Provide calculations to show that all downstream drainage facilities (from the project site to the ocean) are sized to adequately convey the runoff from a 25-year storm event, or
  - ⇒ Construct off-site drainage improvements to ensure that all downstream drainage facilities are adequately sized to convey the runoff from a 25-year storm event
3. Site Plan and Grading & Drainage Plan (if grading and drainage improvements are included in the project) which include the following:
  - ⇒ Site design and source control Best Management Practices (BMPs)
  - ⇒ All existing and proposed drainage improvements
  - ⇒ Potential flow paths
  - ⇒ Methods to accommodate on-site percolation, re-vegetation of disturbed areas, and construction of any improvements necessary to address on-site or off-site impacts of the project.

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