

County of Ventura

Post-Construction Stormwater Management Plan

This Post-Construction Stormwater Management Plan (PCSMP) must be submitted for all applicable New Development and/or Redevelopment projects **deemed complete after October 11, 2011**. In addition to this PCSMP, complete and provide applicable Design Criteria Checklists from Appendix G of the 2011 Ventura County Technical Guidance Manual (TGM) for Stormwater Quality Control Measures and 2011 TGM Tool (available at <http://onestoppermit.ventura.org/> on the Surface Water Quality Section's "Forms" page). All PCSMP controls shall be clearly identified on the project site plan, grading plan, and/or storm drain plan.

The project owner or owner's agent shall submit a Covenant for Maintenance of PCSMP including Maintenance Plan* to Watershed Protection District- Surface Water Quality Section (WPD-SWQS) for review and approval prior to recordation. The County of Ventura form for the Covenant for Maintenance of PCSMP controls is available at <http://onestoppermit.ventura.org/> on the Surface Water Quality Section's "Forms" page. The approved and recorded Covenant for Maintenance of PCSMP Controls including the Maintenance Plan* shall be submitted to WPD-SWQS prior to the issuance of a Zoning Clearance, or grading, building or encroachment permit.

- * Maintenance Plan shall be prepared in accordance with the Appendix I of the 2011 TGM "Stormwater Control Measure Maintenance Plan Guidelines and Checklists" available at <http://onestoppermit.ventura.org/> on the Surface Water Quality Section's "Guidance/Standards" page.

For assistance in completing this document, please refer to the 2011 TGM available at <http://onestoppermit.ventura.org/> under Surface Water Quality Section or call Water Quality Engineer at (805) 662-6737.

Project Information (if applicable)

Owner/Developer Name: _____	
Project Location: _____	
Project Description: _____	
Assessor Parcel Number: _____	
Tract/ Lot No.: _____	Grading Permit No.: _____
Building Permit No.: _____	Land Use No.: _____
Conditional Use Permit No.: _____	Encroachment Permit No.: _____

PCSMP prepared by: _____

Date Prepared: _____

Name: _____

Phone #: _____ Email: _____

PCSMP New Development Category (Check all that apply)

- New Development Project \geq 1 acre of disturbed area adding \geq 10,000 SF of impervious surface
- Industrial Park \geq 10,000 SF of surface area
- Commercial strip mall \geq 10,000 SF of impervious surface
- Retail gasoline outlet (\geq 5,000 SF of surface area)
- Restaurant (\geq 5,000 SF of surface area)
- Parking Lot (\geq 5,000 SF of impervious surface area or \geq 25 parking spaces)
- Automotive service facilities (\geq 5,000 SF of surface area)
- Project located in or directly adjacent to an Environmentally Sensitive Area (ESA) (See Appendix A of Tech. Manual) and create \geq 2,500 SF of impervious surface

- Single Family Hillside Homes – New Development at sites with average slope \geq 20%. Check below the measures applied to this project:
 - Conserve natural areas;
 - Protect slopes and channels;
 - Provide storm drain system stenciling and signage; and
 - Divert roof runoff and surface flow to vegetated areas before discharge unless the diversion would result in slope instability.
- Streets, roads, or highways construction \geq 10,000 SF of impervious surface. Refer to USEPA guidance regarding Managing Wet Weather with Green Infrastructure: Green Streets to the maximum extent practicable.

PCSMP Redevelopment Category (Check all that apply)

- Redevelopment* projects that result in land disturbing activity creating, adding or replacing 5,000 SF or more of impervious surfaces.
- Existing single-family dwelling and accessory structure redevelopment* project that creates, adds, or replaces 10,000 SF of impervious surface area.

* If the creation, addition, or replacement of impervious surfaces is 50% or more of the existing impervious surface area, then stormwater runoff from the entire area (existing and additions) must be considered for purpose of stormwater mitigation. If the creation or addition is less than 50% of the existing impervious area, then stormwater runoff from only the addition area needs mitigation.

Site Assessment and BMP Selection (Refer to Section 3 of 2011 TGM)

Check below the site assessment and BMP selection to be applied to this project:

- Topography
- Groundwater Considerations
- Managing Offsite Drainage
- Existing Utilities
- Environmentally Sensitive Areas
- Soil Type and Geology
- Geotechnical Considerations,
 - Collapsible soil,
 - Expansive soil,
 - Slopes,
 - Liquefaction

Site Design Principles and Techniques (Refer to Section 4 of 2011 TGM)

Check below the site-specific site design principles and techniques to be applied to this project:

- Site Planning
- Minimize Land Disturbance
- Apply LID at Various Scales
- Protect and Restore Natural Areas
- Minimize Impervious cover
- Implement Integrated Water Resource Management Practices

Source Control Measures (Refer to Section 5 of TGM)

Check below the site-specific source control measures to be applied to this project:

- Storm Drain Message and Signage
- Outdoor Trash Storage Area Design
- Outdoor Repair/Maintenance Bay Design
- Outdoor Vehicle/Equipment/Accessory Washing Area Design
- Outdoor Material Storage Area Design
- Outdoor Loading/Unloading Dock Area Design
- Fueling Area Design
- Proof of Control Measure Maintenance

Stormwater BMP Selection (Refer to Section 6 of TGM)

Check below the stormwater BMP selection to be applied to this project:

- Pretreatment
- Infiltration list type from TGM
- Drywell
- Proprietary Infiltration list manufacturer and model no.
- Green Roof
- Vegetated Swale
- Dry extended Detention Basin
- Sand Filters
- Hydrodynamic Separation Device
- Oil/water separation
- Biofiltration with/without underdrain list type from TGM
- Permeable Pavement
- Rainwater Harvesting
- Hydrologic Source Control
- Wet Detention Basin
- Constructed Wetland
- Catch Basin Insert
- Other Please list

Maintenance Plan (Refer to Section 7 and Appendix I of the 2011 TGM)

1. Complete and submit Covenant For Post-Construction Stormwater Management Control System on County-approved form (for the Covenant form go to <http://onestoppermit.ventura.org/> or call Water Quality Engineer at (805) 662-6737).
2. Provide a Maintenance Plan per Appendix I of the 2011 TGM.
3. Before final acceptance of project improvements, the Developer/Engineer shall certify that the stormwater system as shown on the approved plan has been constructed and installed in accordance with the approved PCSMP

Drainage Study Report or Hydrology Report

- Completed Drainage Study Report or Hydrology Report is provided with this PCSMP.

Stormwater Quality Design Flow (SQDF) or Volume (SQDV) Calculation

- Completed copy of the applicable BMP Sizing Worksheets for the project's PCSMP controls from Appendix E of the TGM is included in the project specific Drainage Study Report or Hydrology Report.

Expected Pollutants of Concern (POCs) (Refer to Tables, 3-2, 3-3 & 3-4 in TGM)

Check all pollutants likely to be present in post-construction stormwater runoff from this project:

- | | |
|--|--|
| <input type="checkbox"/> Sediment | <input type="checkbox"/> Metals/Metalloids |
| <input type="checkbox"/> Nutrients (e.g. Nitrogen, Phosphorous, Ammonia) | <input type="checkbox"/> Pesticides |
| <input type="checkbox"/> Pathogens | <input type="checkbox"/> Trash and debris |
| <input type="checkbox"/> Bacteria | <input type="checkbox"/> Other: _____ |

Does the above treatment device chosen for this project remove the pollutants of concern checked above?

If not, indicate which pollutants will not be removed by this device and how removal will be obtained (secondary treatment device):

Non - Proprietary PCSMP Control Selected from TGM for Stormwater Quality Mitigation

(See Section 6 of the TGM)

Indicate below the device selected from the recommended devices listed in the TGM (INF, BIO, TCM, or ET) to treat the post-construction stormwater runoff from this project.

Type of PCSMP Control:

Proprietary Device – Alternative or proprietary treatment control devices may be considered for approval after the standard treatment control measures in the TGM are not workable/functional and if the device is suitable for the specific land use and pollutant to be removed. If device is not one of the devices listed in the TGM complete the info. below:

1. **Device:** _____ **Model #:** _____

Manufacturer: _____

2. Provide **reasoning for not using** nonproprietary treatment devices):

3. Provide treatment efficiency levels of proprietary device in removing the pollutants of concern:

PCSMP Certifications

Regulatory Requirements:

The National Pollutant Discharge Elimination System (NPDES) is a section of the Clean Water Act that applies to protection of receiving waters. This project is subject to the requirements of the California General Permit for Stormwater Discharges Associated with Construction Activity (Permit No. CAS000002) and the Ventura County Post-Construction Stormwater Management Plan (PCSMP) as required under the Ventura County Stormwater Municipal NPDES Permit No. CAS004002. Part of the NPDES program is the implementation and maintenance of post-construction best management practices (BMPs). This report describes the post-construction BMPs to be implemented as part of this project:

Civil Engineer

As the Civil Engineer of record, I have selected appropriate BMPs to effectively minimize the negative impacts of this project's ongoing activities on stormwater quality. The property owner is aware that the selected BMPs must be installed, monitored, and maintained to ensure their effectiveness. I hereby certify that the PCSMP was prepared by me, or under my supervision.

Name: _____ Title: _____

Signature: _____ Date: _____

Owner/Developer

I certify that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is true, accurate and complete. I am aware that submitting false and/or inaccurate information, failing to update the PCSMP to reflect current conditions, or failing to properly and/or adequately implement the PCSMP may result in revocation of permits or other sanctions provided by law.

Name: _____ Title: _____

Signature: _____ Date: _____

Acceptance or approval of this PCSMP in no way precludes the authority of the County to require modification to the plan as conditions warrant, nor does the County take responsibility for performance of the BMPs provided for in the plan.