

County of Ventura

Stormwater Quality Urban Impact Mitigation Plan (SQUIMP) Worksheet

This SQUIMP Worksheet must be submitted with all SQUIMP-conditioned new development and/or redevelopment projects. In addition to this worksheet, all treatment devices shall also be clearly identified on the project specific site plan, grading plan, and/or storm drain plan. Also, any applicable stormwater quality design flow or volume calculations for treatment device(s) shall be provided using applicable "Design Procedure Form" for the project's treatment device from Appendix G of the Technical Guidance Manual. Completed copy of the applicable Design Procedure Form shall be included in the Drainage Study or Hydrology Report.

Prior to construction, the following documents must be completed.

- Ventura County Covenant for Maintenance of Stormwater Treatment Device Form (available at RMA Planning Division website)
- Maintenance Plan (See Appendix D of Tech. Manual for guidance)

For assistance in completing this document refer to the Ventura Countywide Technical Guidance Manual for Stormwater Quality Measures (Tech. Manual) available at www.vcstormwater.org or call (805) 650-4064 or (805) 645-1382.

Project Name & #: _____	Owner Name: _____ Developer Name: _____
Project Location: _____	
Project Description: _____	
SQUIMP prepared by: Name: _____	Date Prepared: _____
Phone #: _____ Email: _____	
SQUIMP Category (Check all that apply)	
<input type="checkbox"/> Commercial Development (≥100,000 SF)	<input type="checkbox"/> Parking Lot (≥5,000 SF or 25 spaces)
<input type="checkbox"/> Automotive Repair Shop	<input type="checkbox"/> Hillside Single Family Residence
<input type="checkbox"/> Retail Gasoline Outlet	<input type="checkbox"/> Restaurant
<input type="checkbox"/> Home Subdivision(≥10 units)	
<input type="checkbox"/> Project located within or directly adjacent to an ESA (See Appendix I of Tech. Manual)	
<input type="checkbox"/> Redevelopment project that results in the creation or addition of 5,000 square feet of more of impervious surfaces. If the creation or addition 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.	

General Site Design Control Measures (Refer to Table 2-3 of Tech. Manual)

Check below the general site design control measures to be applied to this project:

- Conserve Natural Areas (G-1)
- Control Peak Runoff Rates (G-3)
- Minimize Effective Imperviousness (Turf Buffer of Grass-lined channel, G-5)
- Protect Slopes & Channels (G-2)
- Minimize Impervious Areas (G-4)

Site-Specific Source Control Measures (Refer to Table 2-3 of Tech. Manual)

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

- Storm Drain Message & Signage (S-1)
- Trash Storage Area Design(S-3)
- Repair/Maint. Bay Design (S-5)
- Fueling Area Design (S-7)
- Outdoor Storage Area Design (S-2)
- Unloading Dock Area Design (S-4)
- Vehicle/Equip./Accessory Wash Area Design (S-6)

Maintenance Agreement & Plan and Treatment Device Installation Certification

1. Complete and submit Maintenance Agreement on County-approved form (call (805) 662-6737 or (805) 645-1382 for agreement template or download at www.)
2. Provide a separate Maintenance Plan (minimum plan requirements include: operation plan & schedule, maint. and cleaning activities & schedule; Equipment & resource requirements necessary to operate & maintain device; responsible party for operation & maintenance. See Appendix D of Technical Manual for plan guidance.)
3. Before final acceptance of project improvements, the Developer/Engineer will also be required to certify that the device as shown on the approved plan has been constructed and installed in accordance with the approved SQUIMP.

Stormwater Quality Design Flow or Volume Calculation for Treatment Device

- Completed copy of the applicable "Design Procedure Form" for the project's treatment device from Appendix G of the Technical Guidance Manual is included in the project specific Drainage Study Report or Hydrology Report.

SQDF= 10% of the peak rate of runoff flow from the 50 yr. storm.

SQDV= Treatment of 80% of average annual runoff volume from the site.

Expected Pollutants of Concern (POCs) (Refer to Table 2-1 in Tech. Manual)

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

- Sediment
- Nutrients (e.g. Nitrogen, Phosphorous, Ammonia)
- Metals (e.g. Copper, Lead)
- Bacteria
- Trash & Debris
- Oxygen Demand (e.g. Nutrients, Suspended Solids)
- Toxic Organics (e.g. PCBs, PAHs)
- 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 Treatment Device Selected from Ventura County Technical Guidance Manual for Stormwater Quality Mitigation (See Section 5 of the Tech. Manual).

Indicate below the device selected from the recommended devices listed in the Tech. Manual (T-1 through T-11) to treat the post-construction stormwater runoff from this project.

Type of Device (T-1 through T-11): _____

Proprietary Device – Alternative or proprietary treatment control devices may be considered for approval after the standard treatment control measures in the Tech. Manual have been rejected 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 Tech. Manual (T-1 through T-11), complete the info. below:

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

2. Provide **reasoning for rejection** of the nonproprietary treatment devices (T-1 through T-11):
(For assistance refer to p. 5-120 of the Tech. Manual)

3. Provide treatment efficiency levels of proprietary device in removing the pollutants of concern (Provide info. similar to Table 2-1 of Tech. Manual, which shows removal efficiency levels of T-1 through T-11 devices; attach separately if necessary).

SQUIMP 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. CAS0000002) and the Ventura Countywide Stormwater Quality Urban Impact Mitigation Plan (SQUIMP) 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 SQUIMP 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 SQUIMP to reflect current conditions, or failing to properly and/or adequately implement the SQUIMP may result in revocation of permits or other sanctions provided by law.

Name: _____ Title: _____

Signature: _____ Date: _____

Acceptance or approval of this Stormwater Quality Urban Impact Mitigation Plan 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.

RECORDED AT THE REQUEST OF
AND WHEN RECORDED MAIL TO:

County Recorder
County of Ventura
800 S. Victoria Avenue
Ventura, California 93009-1610

*Recorded for the benefit of County of Ventura.
No fee required (Government Code §27383)*

**COVENANT FOR MAINTENANCE OF STORMWATER TREATMENT
DEVICE**

FOR PROJECT NO. _____

OWNER: _____

PROPERTY ADDRESS: _____

**THIS COVENANT FOR MAINTENANCE OF STORMWATER TREATMENT
DEVICE (“Covenant”)** is made and entered into this ____ day of _____,
____, by _____
 (“Owner”) for the benefit of the County of Ventura and Ventura County Watershed
Protection District, (“County”).

1. RECITALS. This Covenant is entered into with reference to the following:

A. Owner owns real property (“Property”) in County’s jurisdiction, more specifically described in attached Exhibit “A” and shown on the vicinity map in Exhibit “B”, each of which is incorporated by this reference.

B. At the time of initial approval of development project known as _____
on the Property, County required the project to employ on-site control measures to minimize pollutants in urban runoff that would otherwise be discharged into storm drain systems operated and maintained by County.

C. Owner intends to install the following device(s) _____

 (“Device”) as the on-site control measure(s) to minimize pollutants in urban runoff (as shown in the attached Exhibit “C”, which is incorporated

by this reference, and on the Stormwater Pollution Control or Prevention Plan (SWPCP or SWPPP) No. _____).

- D. The Device must be installed in accordance with approved plans and specifications shown on County Drawings Nos. _____ on file with County Engineer, and incorporated by this reference.
 - E. The Device, installed on private property and draining only private property, is a private facility and all maintenance or replacement of the Device is the sole responsibility of Owner in accordance with the terms of this Agreement.
 - F. Owner is aware that periodic and continuous maintenance, including, without limitation, filter material replacement and sediment removal, is required to assure peak performance of the Device, and that such maintenance activity will require compliance with all local, state, or federal laws and regulations, including those pertaining to confined space and waste disposal methods in effect at the time such maintenance occurs.
2. **ACCESS.** Owner grants County complete access, of any duration, to the Device and its immediate vicinity at any time, upon reasonable notice, or in the event of emergency, as determined by County's Director of Public Works ("Director"), no advance notice, for the purpose of inspection, sampling, testing of the Device, and, in case of emergency, to undertake all necessary repairs or other preventative measures at Owner's expense as provided below. County will make every effort at all times to minimize and avoid interference with Owner's use of the Property.
3. **MAINTENANCE.** Owner will use its best efforts to diligently maintain the Device in a manner assuring peak performance at all times. Refer to the Stormwater Pollution Control/Prevention Plan for further maintenance instructions and the attached Exhibit "C". All reasonable precautions will be exercised by Owner and Owner's representative or contractor in the removal and extraction of material(s) from the Device and the ultimate disposal of the material(s) in a manner consistent with all relevant laws and regulations in effect at the time. In October of each year, Owner will provide County with documentation identifying the date of inspection, type and quantity of material(s) removed and disposal destination, and other maintenance performed.
4. **DEFAULT.** Should Owner, or its successors or assigns, fail to accomplish the necessary maintenance contemplated by this Agreement within ten (10) days after being given written notice by County, County is authorized to take any maintenance action needed and charge the entire cost and expense to Owner or Owner's successors or assigns, including administrative costs, attorneys' fees and interest at the maximum rate authorized by law from the date of notice of any expenses incurred by County until paid in full.

5. **SECURITY.** County may require Owner to post security in form and for a time period satisfactory to County to guarantee the performance of this Agreement. Should Owner fail to perform the obligations under this Agreement, County may, in the case of a cash bond, act for Owner using the proceeds from it, or in the case of a surety bond, require the surety to perform the obligations of the Agreement. As an additional remedy, Director may cause the withdrawal of any previous stormwater related approval with respect to the property on which a Device has been installed until such time as Owner repays to County its reasonable costs.
6. **RECORDATION.** This Agreement will be recorded in the Ventura County Recorder's Office at Owner's expense and will constitute notice to all successors and assigns of title to the Property of Owner's obligations, and also a lien in such amount as will fully reimburse County, including interest, subject to foreclosure in event of default in payment.
7. **ENFORCEMENT.** In the event County initiates legal action occasioned by any default or action of Owner, or its successors or assigns, then Owner and its successors or assigns agree to pay all costs incurred by County in enforcing the terms of this Agreement, including reasonable attorney's fees and costs, and that the same may become a lien against the Property.
8. **RUNS WITH PROPERTY.** The burdens and benefits in this Agreement constitute covenants that run with the Property and constitute a lien upon the Property.
9. **SUCCESSORS.** This Agreement is binding upon the heirs, successors, executors, administrators and assigns of the parties. The term "Owner" includes not only the present Owner, but also its heirs, successors, executors, administrators, and assigns. Owner will notify any successor to title of all or part of the Property about the existence of this Agreement. Owner will provide this notice before such successor obtains an interest in all or part of the Property. Owner will provide a copy of such notice to County at the same time such notice is provided to the successor.
10. **TIME IS OF ESSENCE.** Time is of essence in the performance of this Agreement.
11. **NOTICES.** Any notice to a party required or called for in this Agreement will be served in person, or by deposit in the U.S. Mail, first-class postage prepaid, to the address set forth below. Notice will be deemed effective upon receipt, or 72 hours after deposit in the U.S. Mail, whichever is earlier. A party may change a notice address only by providing written notice to the other party.

IF TO COUNTY:

Public Works Agency
Watershed Protection District
County Unincorporated Stormwater Program
800 S. Victoria Avenue
Ventura, California 93009-1610

IF TO OWNER:

Phone: _____

IN WITNESS THEREOF, the parties hereto have affixed their signatures as of the date first written above.

OWNER:

(If a legal entity such as a corporation, partnership, limited liability company, or trust, please print the entity's name and name and title of signer above signature line and then sign. If individual, please print name of signer above signature line.)

NOTARIES ON FOLLOWING PAGE

- c: Public Works Department (2)
- Public Works WPD Stormwater County Unincorporated
- County GIS Dept.
- Owner

EXHIBIT A
(Legal Description)

EXHIBIT B
(Vicinity Map)

EXHIBIT C
Minimum Maintenance Requirements
For Post-Construction Treatment Devices

Maintenance logs will be required by the County of Ventura by October 30th of each year for all post-construction devices listed below. At a minimum, the maintenance log should include documentation identifying the device, its location, date of inspection, inspector's name and signature, type and quantity of material(s) removed, disposal destination, and other maintenance performed. The California Stormwater BMP Handbooks referred to below can be obtained at www.cabmphandbooks.com and the Ventura County Technical Guidance Manual for Stormwater Quality Control Measures can be obtained at www.vcstormwater.org.

Treatment Device	Minimum Maintenance Requirements/Schedule
Onsite trash enclosures constructed with solid roof that protects against stormwater entering refuse bins.	Inspect yearly prior to October 1 for leaks. Remove solids, stains and/or residue from floor and walls of trash enclosure with dry methods when possible. If water must be used after sweeping/using absorbents, collect water and discharge through grease interceptor to the sewer (check with local Sanitation Department before discharging to sewer). Do not hose down area to a storm drain. Refer also to Calif. Stormwater Municipal BMP Handbook – SC-34.
Onsite storm drains & catch basins	All onsite catch basins to be inspected and cleaned at least twice a year. Once immediately prior to October 1 and once in January. Additional cleanings may be required if more than 40% full.
Parking lots & sidewalks	Sidewalks and parking lots to be swept regularly to prevent accumulation of litter and debris. Litter, debris and any cleaning agents will be trapped and collected and disposed of properly to prevent entry into storm drain system. Refer also to Calif. Stormwater Municipal BMP Handbook – SC-43 & SC-71.
Detention Basin	Inspect basin semiannually, after each significant storm, or more frequently, if needed. Check/correct as required: differential settlement, cracking; erosion, leakage or tree growth on embankment; the condition of the riprap in the inlet, outlet and pilot channels; sediment accumulation in the basin; and the vigor and density of the grass turf on the basin side slopes and floor. Remove litter and debris from banks and basin bottom as required. Repair erosion to banks and bottom as required. Remove sediment when accumulation reaches 25% of original design depth, or if resuspension is observed. Clean in early Spring so vegetation damaged during cleaning has time to reestablish. Inspect outlet for clogging a minimum of twice a year, before and after the rainy season, after large storms, and more frequently if needed. Correct observed problems as necessary. Clean fore bay frequently to reduce frequency of main basin cleaning. Control mosquitoes, as necessary. Refer also to Ventura County Technical Guidance Manual for Stormwater Quality Control Measures #T-3 & California Stormwater Municipal BMP Handbook – TC-22.
Biofilters (Swales)	Check annually for signs of erosion, vegetation loss, and channelization of the flow. The grass should be mowed when it reaches a height of 6 inches. Allowing the grass to grow taller may cause it to thin and become less effective. The clippings should be removed. Refer also to V.C. Technical Guidance Manual for Stormwater Quality Control Measures #T-2 & Calif. Stormwater Municipal BMP Handbook – TC-30.

Treatment Device	Minimum Maintenance Requirements/Schedule
Grease Interceptors/Traps	Interceptor/trap should be inspected a minimum of every six months and cleaned a minimum of once per year or as required whenever sufficient grease/oils accumulate on the surface of the downstream compartment or it is determined by the County Industrial Waste Inspector that any grease/oil is being discharged. Check for corrosion.
Media Filter, Clarifier, Wet Vault, Vortex Separator, Hydrodynamic Systems Device Name: _____ Model#: _____ Mfr.(Name & Address): _____ _____ _____	Follow manufacturer's recommended maintenance specifications. Inspect unit twice during first wet season of operation, setting the cleaning frequency accordingly. Annually inspect for floating debris, sediment buildup, and accumulated petroleum products. Remove accumulated sediment in vault after construction in the drainage area is complete. Recommended frequency of cleaning ranges from one to two years – confirm with manufacturer. Maintenance consists of removal of accumulated material with an educator truck. It may be necessary to remove and dispose of the floatables separately due to the presence of petroleum product. Control mosquitoes, as necessary. Annual maintenance is typical. Refer also to Calif. Stormwater Municipal BMP Handbook – MP-50 & MP-51.
Drain Insert Mfr.(Name & Address): _____ _____ _____ Model: _____	Follow manufacturer's recommended maintenance specifications. At the beginning of the wet season and after significant storms, inspect for proper functioning and remove sediment buildup. After construction, verify that stormwater enters the unit and does not leak around the perimeter. Refer also to Calif. Stormwater Municipal BMP Handbook – MP-52.
Other BMP	<i>Identify minimum maintenance</i>