



SW-HR

COUNTY OF VENTURA

STORMWATER QUALITY MANAGEMENT PROGRAM

ENHANCED BEST MANAGEMENT PRACTICES FOR CONSTRUCTION AT HIGH RISK SITES

Prior to the issuance of any construction/grading/building permit and/or the commencement of any clearing, grading or excavation, contractors of projects with construction activities at High Risk Sites, shall prepare and submit this Enhanced Best Management Practices (BMPs) worksheet on the form provided herein.

High Risk Sites include:

- (i) Construction sites on hillsides (average slope 20% or greater); or
- (ii) Construction sites that **directly discharge**¹ to a waterbody listed on the CWA § 303 (d) list for siltation or sediment; or
- (iii) Construction activities that occur within or **directly adjacent**² to an **Environmentally Sensitive Areas**³ (ESAs). Refer to Figure 1 (Ventura County Environmentally Sensitive Areas) illustrating ESA locations in Ventura County, available at <http://onestoppermit.ventura.org/>.

¹ **Directly Discharge** - means outflow from a drainage conveyance system that is composed entirely or predominantly of flows from the subject, property, development, subdivision, or industrial facility, and not commingled with the flows from adjacent lands.

² **Directly Adjacent** - means situated within 200 feet of the contiguous zone required for the continued maintenance, function, and structural stability of the environmentally sensitive area.

³ **Environmentally Sensitive Area (ESA)** - means an area "in which plant or animal life or their habitats are either rare or especially valuable because of their special nature or role in an ecosystem and which would be easily disturbed or degraded by human activities and developments" (Reference: California Public Resources Code § 30107.5). ESAs will include Clean Water Act 303d Listed Water Bodies in all reaches that are unimproved, all California Coastal Commission's Environmentally Sensitive Habitat Areas as delineated on maps in Local Coastal Plans and Regional Water Quality Control Board's Basin Plan Rare, Threatened or Endangered Species (RARE) and Preservation of Biological Habitats (BIOL) designated waterbodies. The California Department of Fish and Game's Significant Natural Areas map will be considered for inclusion as the department field verifies the designated locations. Watershed restoration projects will be considered for inclusion as the department field verifies the designated locations.

The purpose of the implementing BMPs is to effectively prohibit the entry of pollutants from the construction site into the storm drain system during construction. Erosion and sediment source control BMPs should be considered for both active and inactive (previously disturbed) construction areas. BMPs for wind erosion and dust control are also included. The BMPs may require modification as the project progresses and as conditions warrant.

The BMPs shall be implemented in accordance with the National Pollutant Discharge Elimination System (NPDES) Ventura Countywide Municipal Stormwater Permit No. CAS004002 (Order 10-0108) dated July 8, 2010.

The applicant/owner is responsible for ensuring that all project contractors and subcontractors implement all applicable BMPs.

1. **Project Name**

2. **Project Information (if applicable)**

Assessor Parcel Number: _____ Grading Permit No.: _____

Building Permit No.: _____ Land Use No.: _____

Conditional Use Permit No.: _____ Subdivision No.: _____

Location: _____

General Description: _____

Construction Start Date: _____

Construction Completion Date: _____

FOR STAFF USE ONLY:

Reviewed & Approved By: _____ Title: _____

Signature: _____ Date: _____

3. Enhanced Best Management Practices (BMPs)

Complete the following charts. The BMPs listed shall be used unless determined not applicable or inadequate. Additional BMPs may apply. BMP descriptions and details can be downloaded from the California Stormwater Handbooks at www.casqa.org or CalTrans Handbook www.dot.ca.gov/hq/construc/stormwater/manuals.htm.

Table 1. Enhanced BMPs for Construction at High Risk Sites

BMPs Selected – Noted by Ref. ID from the California Stormwater BMP Handbooks		Use BMP		(If no, state reason)
		Yes	No	
Erosion Control BMPs				
EC-1 or SS-1	Scheduling			
EC-2 or SS-2	Preservation of Existing Vegetation			
EC-3 or SS-3	Hydraulic Mulch			
EC-4 or SS-4	Hydroseeding			
EC-5 or SS-5	Soil Binders			
EC-6 or SS-6	Straw Mulch			
EC-7 or SS-7	Geotextiles and Mats			
EC-8 or SS-8	Wood Mulching			
EC-11 or SS-11	Slope Drains			
Temporary Sediment Control BMPs				
SE-1 or SC-1	Silt Fence			
SE-2 or SC-2	Sediment Basin			
SE-4 or SC-4	Check Dam			
SE-5 or SC-5	Fiber Rolls			
SE-6 or SC-6	Gravel Bag Berm			
SE-7 or SC-7	Street Sweeping and/or Vacuum			
SE-8 or SC-8	Sand Bag Barrier			

BMPs Selected – Noted by Ref. ID from the California Stormwater BMP Handbooks		Use BMP		(If no, state reason)
		Yes	No	
SE-10 or SC-10	Storm Drain Inlet Protection			
SE-11	Active Treatment Systems ¹			
Temporary Tracking Control BMPs				
TC-1	Stabilized Construction Entrance/Exit			
TC-2	Stabilized Construction Roadway			
TC-3	Entrance/Exit Tire Wash			
Non-Stormwater Management BMPs				
NS-1	Water Conservation Practices			
NS-2	Dewatering Operations			
NS-8	Vehicle and Equipment Washing			
NS-9	Vehicle and Equipment Fueling			
NS-10	Vehicle and Equipment Maintenance			
WE-1	Wind Erosion Controls			
Waste Management & Materials Pollution Control BMPs				
WM-1	Material Delivery & Storage			
WM-3	Stockpile Management			
WM-4	Spill Prevention & Control			
WM-5	Solid Waste Management			
WM-8	Concrete Waste Management			
WM-9	Sanitary/Septic Waste Mgmt.			
Additional BMPs Selected				

¹ If appropriate given natural background stormwater runoff and receiving water quality conditions

4. Enhanced BMP Inspection Requirements

Construction activity projects at high risk sites shall be inspected by the project proponent's:

- (a). Qualified Stormwater Pollution Prevention Plan (SWPPP) Developer*,
- (b). Qualified SWPPP Practitioner*, or
- (c). Personnel or contractors who are Certified Professionals in Erosion and Sediment Control (CPESC)**

Notes:

- * Qualified SWPPP Developer/Practitioner – for more information: e-mail stormwater@waterboards.ca.gov, call (916) 341-5537, or visit http://www.swrcb.ca.gov/water_issues/programs/stormwater/constpermits.shtml
- ** Certified Professionals in Erosion and Sediment Control (CPESC) – for more information: email: info@cpesc.org, call (828) 655-1600, or visit <http://www.cpesc.org/>

The inspection frequency for construction activity projects at high risk sites must be:

- (i) at the time of BMP installation,
- (ii) at least weekly during the wet season, and
- (iii) at least once each 24 hour period during a storm event that generates runoff from the site.

The inspection purpose is to identify BMPs that need maintenance to operate effectively, that have failed or could fail to operate as intended. All records of the inspection shall be retained.

During the wet season (October 1 through April 15), the area of disturbance shall be limited to the area that can be controlled with an effective combination of erosion and sediment control BMPs. Enhanced sediment controls should be used in combination with erosion controls and should target portions of the site that cannot be effectively controlled by standard erosion controls described above.

Certification

Project Architect/ Engineer of Record, or Authorized Qualified Designee:

As the architect, or engineer of record, or authorized qualified designee, I have selected appropriate BMPs to effectively minimize the negative impacts of this project's construction activities on storm water quality. The project owner and contractor are aware that the selected BMPs must be installed, monitored, and maintained to ensure their effectiveness. The BMPs not selected for implementation are redundant or deemed not applicable to the proposed construction activity.

Name: _____ Title: _____

Organization Name: _____

Signature: _____ Date: _____

Property Owner/ Owner's Representative or Designee:

I certify that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure 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, to the best of my knowledge and belief, the information submitted is true, accurate, and complete. I am aware that submitting false and/ or inaccurate information, failing to update the Local SWPPP to reflect current conditions, or failing to properly and/ or adequately implement the Local SWPPP may result in revocation of grading and/ or other permits or other sanctions provided by law.

Name: _____ Title: _____

Organization Name: _____

Signature: _____ Date: _____

Attachment 1 to SW-HR

Inspection Checklist for Construction Activities at High Risk Sites

Qualified Stormwater Pollution Prevention Plan (SWPPP) Developer, Qualified SWPPP Practitioner, or personnel or contractors who are Certified Professionals in Erosion and Sediment Control (CPESC) shall conduct site inspection at the time of BMP installation, at least weekly during the wet season (October 1 through April 15), and at least once each 24 hour period during a storm event that generates runoff from the site using this checklist. Keep a copy of the completed inspection checklist with the project form SW-HR for the "Construction Activities at High Risk Sites" on site.

DATE OF INSPECTION: _____

INSPECTION TYPE – check as applicable:

- at the time of BMP installation
- at least weekly during the wet season
- at least once each 24 hour period during a storm event that generates runoff from the site.

Project Name: _____

Inspector's Name: _____

Inspector - check below as applicable:

- Qualified SWPPP Developer Qualified SWPPP Practitioner CPESC

Weather Conditions during inspection: _____

	Item	Compliance Accomplished			Date Completed
		YES	NO	N/A	
1	Are enhanced BMPs installed as identified in the project's SW-HR form?				
2	Are installed enhanced BMPs effective?				
3	Is the site entrance stabilization adequate?				
4	Is equipment/vehicles parked in designated areas and free from significant leaks? Are drip pans present as needed?				
5	Are maintenance areas free from stains on the soil?				
6	Are all materials stored in bins or covered in plastic and protected from storm water?				

	Item	Compliance Accomplished			Date Completed
		YES	NO	N/A	
7	Is construction waste being disposed of in proper trash containers?				
8	Are concrete washout stations present and being utilized and maintained?				
9	Is fugitive dust being controlled and water being used as needed?				
10	Are catch basins, drainage channels, drain inlets/outlets being protected?				

Comments:

I certify under penalty of law that this inspection is true, and I or a qualified assigned person has performed the required inspection as required.

Inspector Name

Inspector Signature

Date _____