CITY OF CHULA VISTA

ENGINEERING

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FORM 5504

Private Development/Redevelopment Projects

CONSTRUCTION STORM WATER MANAGEMENT PLAN GUIDELINES

Private Development/Redevelopment Projects
To Accompany All Private Permit Applications Not Subject to the NPDES Construction Permit

In order to comply with the federal Clean Water Act, the state Water Code and City of Chula Vista Ordinances, the City of Chula Vista requires that property owners complete a Construction Storm Water Management Plan (CSWMP) prior to issuance of any permit which is not subject to the NPDES Construction Permit. Projects that are subject to the NPDES Construction Permit will be required to file a Notice of Intent (NOI) with the State Water Resources Control Board, and submit a Storm Water Pollution Prevention Plan (SWPPP) to the San Diego Regional Water Quality Control Board and the City of Chula Vista.

The purpose of a Construction Storm Water Management Plan (CSWMP) is to document Best Management Practices (BMPs) that will be implemented to prevent pollutants (including sediment) from entering storm water conveyance systems and receiving waters. The CSWMP becomes a part of the Permit and is subject to enforcement by the City of Chula Vista enforcement staff and others.

Storm Water Management Plans include the elements described in the following sections:

Section 1: Required Information - This section is used to provide the City with basic information necessary to evaluate project activities. Each of the items in this section must be completed.

Section 2: Best Management Practices – Best Management Practices (BMPs) must be selected and implemented to prevent erosion and construction-related materials, sediment, wastes and spills from entering storm water conveyance systems and receiving waters.

Note: It is the responsibility of the property owner and the contractor to determine the types of BMPs that will be used, as well as the levels of application necessary to comply with the City's Storm Water and Grading Ordinances. Failure to prevent soil erosion and discharges of sediment and other pollutants from construction sites is subject to enforcement by the City or others. At a minimum, the City requires that the BMPs listed in Table A (attached) be installed and maintained for all projects. Additional BMPs listed in Table B (attached) may also be required in correlation to a project's scope, potential for discharges and proximity to a watercourse or other receiving waters.

Section 3: Certification – The property owner and contractor must sign this section certifying that they understand the City's minimum requirements for storm water management of construction activities and will implement, monitor and maintain the selected BMPs to ensure their effectiveness.

A copy of the following guidance manuals can be found (upon request) at the Engineering/Storm Water Management Unit Library of the City of Chula Vista. The entire manuals may also be ordered directly from the following sources:

1. Caltrans Manuals: Caltrans Publications Unit, Phone (916) 445-3520
2. California Storm Water BMP Handbook for Construction
3. City of Chula Vista Storm Water Standards Manual

SECTION 1. Required Information			
Permit Application Number:		Project Name:	
Name of Project Contact Person:		Project address or location:	
Title:	Phone #:		APN #:
Grading start date:	Grading finish date:	Project start date:	Project finish date:
Estimated amount of disturbed acreage:_____			

SECTION 2:

Best Management Practices The goal of storm water management planning is to reduce pollution to the maximum extent practicable by implementing Best Management Practices (BMPs). There are five categories of BMPs: 1) Erosion control practices, and; 2) Velocity reduction, and; 3) Sediment control practices, and; 4) Offsite sediment tracking control, and, 5) General site and materials management. BMPs from each of the five categories must be used together as a system in order to prevent erosion, sediment, wastes, spills, and residues from leaving the site. When properly implemented, monitored and maintained, BMPs will function to prevent pollutants (including sediment) from leaving the site. It is the responsibility of the property owner and the contractor to determine the types of BMPs that will be used, as well as the levels of application necessary to comply with the City's Storm Water and Grading Ordinances.

Best Management Practices Tables Tables A and B (attached) must be used to indicate those BMPs that will be used to prevent storm water pollution. At a minimum, the City requires that the BMPs listed in Table A be installed on all grading and building projects. However, some BMPs may not be applicable to every project. For example, if storm drain inlets are not present, then Storm Drain Inlet Protection (BMP SC10) would not be applicable.

Grading Plan/Improvement Plan Best Management Practice Checklist The following information shall be shown on the plans:

1. The project boundaries.
2. The footprint of any existing structures and facilities.
3. The footprint of all structures and facilities to be constructed.
4. The limits of grading
5. The existing and proposed grades of the site, along with any intermediate grades that will significantly affect the site drainage patterns.
6. The location(s) where runoff from the site may enter storm drain(s), channel(s), and/or receiving waters.
7. The permanent BMPs.

TABLE A
REQUIRED MINIMUM CONSTRUCTION BMPs

Minimum Required Best Management Practices (BMPs)	CALTRANS Storm Water Handbook Detail	Check BMP Selected	Each selected BMP must be shown on Grading Plan. If BMP is not selected, explain why.
Step 1 - Select Erosion Control Method for Graded Slopes (choose at least one)			
Vegetation Stabilization Planting (see note 1)	SS-2, SS-4		
Hydraulic Stabilization Hydroseeding (see note 1)	SS-3, SS-4		
Bonded Fiber Matrix (see note 2)	SS-4		
Physical Stabilization Erosion Control Blanket (see note 2)	SS-7		
Step 2 - Select Erosion Control method for graded Flat Areas (slope < 5%) (choose at least one)			
Will use above Slope Control measures on flat areas also	SS-2,3,4,7		
Mulch, straw, wood chips, soil application	SS-6, SS-8		
De-silting Basin (must treat all site runoff)	SC-2		
Step 3 – If runoff is concentrated, velocity must be controlled using energy dissipater			
Energy Dissipater Outlet Protection (see note 3)	SS-10		
Step 4 – Select Sediment Control method for all disturbed areas (choose at least one)			
Silt Fence	SC-1		
Straw Wattles	SC-5		
Gravel Bags	SC-6, SC-8		
Storm Drain Inlet Protection	SC-10		
De-silting Basin (sized for 10-year flow)	SC-2		
Step 5 – Select method for preventing offsite tracking of sediment (choose at least one)			
Stabilized Construction Entrance	TC-1		
Construction Road Stabilization	TC-2		
Entrance/Exit Tire Wash	TC-3		
Entrance/Exit Inspection & Cleaning Facility	-		
Step 6 – Select the General Site Management BMPs for each waste that will be on site			
Materials Management, Materials Delivery and Storage	WM-1		
Concrete Waste Management	WM-8		
Solid Waste Management	WM-5		
Sanitary Waste Management	WM-9		
Hazardous Waste Management	WM-6		
Step 7 – General Site Management			
Employee and Subcontractor Training	-		

Notes:

1. When Planting or Hydroseeding are selected for erosion control, the vegetative cover must be planted by August 15th and established by October 1st. If in the opinion of the City Official the vegetative cover is not established by October 1st, additional hydraulic or physical erosion control BMPs will be required.

2. These BMPs are temporary measures only when used without planting or hydroseeding. All slopes must have established vegetative cover prior to final grading approval.

3. Regional Standard Drawing D-40 – Rip Rap energy Dissipater is also acceptable for velocity reduction.

4. Not all projects will have every waste identified. The applicant is responsible for identifying wastes that will be on-site and applying the appropriate BMP. For example, if concrete will be used, BMP WM-8 should be selected.

Alternative storm water protection measures may also be presented for City consideration in any category.

TABLE B
RECOMMENDED BMPs FOR USE IN CONJUCTION WITH MINIMUM BMPs

Recommended Best Management Practices (BMPs)	CALTRANS Storm Water Handbook Detail
Step 1 – Site Development Considerations	
Scheduling	SS-1
Preservation of Existing Vegetation	SS-2
Vegetation Stabilization, Vegetation Buffer Strips	SS-2
Physical Stabilization, Dust Control	WE-1
Soil Stabilizers	SS-5
Other (submit description for approval)	
Step 2 - Diversion of Runoff	
Earthen Dikes	SS-9
Ditches and Berms	SS-9
Slope Drains	SS-11
Temporary Drains & Swales	SS-9
Step 3 – Velocity Reduction	
Check Dams	SS-4
Slope Terracing	-
Step 4 - Sediment Control	
Brush or Rock Filter	-
Sediment Trap	SC-3
Sediment Basin	SC-2
Step 5 – General Site Management	
Employee and Subcontractor Training	-
Materials Management, Spill Prevention and Control	WM-4
Waste Management, Contaminated Soil Management	WM-7
Vehicle and Equipment Management: Vehicle and Equipment Cleaning	NS-8
Vehicle and Equipment Fueling	NS-9
Vehicle and Equipment Maintenance	NS-10
Construction Practices: Water Conservation	NS-1
Structure Construction and Painting	-
Paving Operations	NS-3
Dewatering Operations	NS-2

Alternative storm water protection measures may also be presented for City consideration in any category.

Section 3

The following certification must be signed before a Permit will be issued.

I have read and understand that the City of Chula Vista has adopted minimum requirements for storm water management of construction activities. I certify that the BMPs I have selected in Tables A and B will be implemented to effectively minimize the potentially negative impacts of this project's construction activities on storm water quality. I further agree to install, monitor, maintain or revise the selected BMPs to ensure their effectiveness.

I also understand that non-compliance with the City's Storm Water and Grading Ordinances may result in enforcement by the City including fines, citations, stop-work orders, cease and desist orders and other actions.

Company's Name: _____
Contractor's Name and Signature: _____ Date _____
Property owner's Name & Signature: _____ Date _____