

# CITY OF SOLANA BEACH

## Stormwater Checklist for Standard Projects



Based on Federal, State, and local regulations, all project applicants must submit stormwater documentation for all proposed development or redevelopment projects. The purpose of this checklist is to assist applicants in addressing potential water quality impacts from their proposed projects during planning stages of development. **NOTE: Completion of this form does not automatically exempt your project from additional documentation and/or design requirements related to stormwater management. Additional requirements may be necessary after staff review of the project, and a Water Quality Technical Report (WQTR) or other documentation may still be required.**

### Project Information

Project Name: \_\_\_\_\_

Project Address: \_\_\_\_\_

Project APN: \_\_\_\_\_

Prepared by: \_\_\_\_\_

Prepared for: \_\_\_\_\_

Project Description: (Please provide a brief description of the work to be done.)  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

### Project Size

Total Site Area \_\_\_\_\_  ft<sup>2</sup>  acres

Pre-Project:  
 Total Disturbed Area \_\_\_\_\_  ft<sup>2</sup>  acres  
 Total Impervious Area \_\_\_\_\_  ft<sup>2</sup>  acres

Post-Project:  
 Total Disturbed Area \_\_\_\_\_  ft<sup>2</sup>  acres  
 Total Impervious Area \_\_\_\_\_  ft<sup>2</sup>  acres

### Project Location

**Attachment I: Site Plan** – attached site plan showing, at a minimum, the location of the proposed project and stormwater improvements.

Watershed (available upon request)  
 San Dieguito  
 San Elijo

Supporting Documentation (attached)  
 Soils Report  
 Drainage Study  
 Other \_\_\_\_\_

## Construction Stormwater BMPs

All construction projects are required to reduce pollution to the maximum extent practicable by implementing best management practices (BMPs). The City’s Jurisdictional Urban Runoff Management Program outlines the requirements for Construction Stormwater BMPs. There are five categories:

1. Erosion control practices
2. Velocity reduction
3. Sediment control practices
4. Offsite sediment tracking control
5. General site and materials management

BMPs from each of the five categories must be used together as a system in order to prevent potential discharges.

If you answer “Yes” to any of the questions below, your project is subject to the BMPs identified in Table I below (Minimum Required Standard Construction Stormwater BMPs). As noted in the table, please select at least the minimum number of required BMPs, or as many as are feasible for your project. If no BMP is selected, an explanation must be given in the box provided. The following questions are intended to aid in determining construction BMP requirements for your project		YES	NO
1	Will there be soil disturbing activities that will result in exposed soil areas? (This includes minor grading and trenching) <sup>1</sup> : <i>Table I items A, B, D and E</i>		
2	Will there be asphalt paving, including patching? : <i>Table I items D and F</i>		
3	Will there be mortar mixing, coring, or concrete saw cutting? : <i>Table I items D and F</i>		
4	Will there be concrete demolition and removal, wall construction, or concrete form work? : <i>Table I items D and F</i>		
5	Will there be stockpiling (soil, compost, asphalt, concrete, solid waste) for over 24 hours? : <i>Table I items D and F</i>		
6	Will there be dewatering operations? : <i>Table I items C and D</i>		
7	Will there be temporary on-site storage of construction materials, including but not limited to mortar mix, raw landscaping and soil stabilization materials, treated lumber, rebar, and plated metal fencing materials? : <i>Table I items C and D</i>		
8	Will trash or solid waste product be generated from this project? : <i>Table I items I and F</i>		
9	Will construction equipment be stored on site (e.g.: fuels, oils, trucks, etc.)? : <i>Table I items I and F</i>		
10	Will Portable Sanitary Services (“Port-a-potty”) be used on the site? : <i>Table I items I and F</i>		

<sup>1</sup> Soil disturbances NOT considered significant include, but are not limited to, change in use, mechanical/electrical/plumbing activities, signs, temporary trailers, interior remodeling, and minor tenant improvement

Table I : Minimum Required Standard Construction BMPs

Minimum Required Best Management Practices (BMPs)	CALTRANS Stormwater Handbook Detail	BMP Selected	Each selected BMP must be shown on the Plan. If No BMP is selected, an explanation must be provided.
<b>A. Select Erosion Control method for Disturbed Slopes (Choose at least one for the appropriate season)</b>			
<i>Vegetation Stabilization Planting (Summer)</i>	SS-2, SS-4	<input type="checkbox"/>	
<i>Hydraulic Stabilization Hydroseeding (Summer)</i>	SS-4	<input type="checkbox"/>	
<i>Bonded Fiber Matrix or Stabilized Fiber Matrix (Winter)</i>	SS-3	<input type="checkbox"/>	
<i>Physical Stabilization Erosion Control Blanket (Winter)</i>	SS-7	<input type="checkbox"/>	
<b>B. Select Erosion Control method for Disturbed Flat Areas (slope &lt; 5%) (Choose at least one)</b>			
<i>Standard Lot Perimeter Protection Detail</i>	DPLU 659, SC-2	<input type="checkbox"/>	
<i>Will use erosion control measures from Item A on flat areas also</i>	SS-3, SS-4, SS-7	<input type="checkbox"/>	
<i>Standard Desilting Basin (must treat all site runoff)</i>	DPLU 660, SC-2	<input type="checkbox"/>	
<i>Mulch, straw, wood chips, soil application</i>	SS-6, SS-8	<input type="checkbox"/>	
<b>C. If Runoff or Dewatering Operation is concentrated, velocity must be controlled using an energy dissipater</b>			
<i>Energy Dissipater Outlet Protection</i>	SS-10	<input type="checkbox"/>	
<b>D. Select Sediment Control method for all disturbed areas (Choose at least one)</b>			
<i>Silt Fence</i>	SC-1	<input type="checkbox"/>	
<i>Fiber Rolls (Straw Wattles)</i>	SC-5	<input type="checkbox"/>	
<i>Gravel Bags</i>	SC-6, SC-8	<input type="checkbox"/>	
<i>Dewatering Filtration</i>	NS-2	<input type="checkbox"/>	
<i>Storm Drain Inlet Protection</i>	SC-10	<input type="checkbox"/>	
<i>Engineered Desilting Basin (sized for 10-year flow)</i>	SC-2	<input type="checkbox"/>	
<b>E. Select method for preventing offsite tracking of sediment (Choose at least one)</b>			
<i>Stabilized Construction Entrance</i>	TC-1	<input type="checkbox"/>	
<i>Construction Road Stabilization</i>	TC-2	<input type="checkbox"/>	
<i>Entrance/Exit Tire Wash</i>	TC-3	<input type="checkbox"/>	
<i>Entrance/Exit Inspection &amp; Cleaning Facility</i>	-	<input type="checkbox"/>	
<i>Street Sweeping and Vacuuming</i>	SC-7	<input type="checkbox"/>	
<b>F. Select the General Site Management BMPs for each waste that will be on site</b>			
<b>Materials Management</b>			
<i>Material Delivery &amp; Storage</i>		<input type="checkbox"/>	
<i>Spill Prevention and Control</i>		<input type="checkbox"/>	
<b>Waste Management</b>			
<i>Concrete Waste Management</i>		<input type="checkbox"/>	
<i>Solid Waste Management</i>		<input type="checkbox"/>	
<i>Sanitary Waste Management</i>		<input type="checkbox"/>	
<i>Hazardous Waste Management</i>		<input type="checkbox"/>	

## Low Impact Development (LID) BMPs

The City requires all development projects, regardless of priority, to implement Low Impact Development (LID) BMPs. The goal of the LID BMPs is to protect water quality by preserving and mimicking nature through the use of stormwater planning and management techniques such as small-scale detention and retention on development sites. Table II contains LID planning and management practices which are outlined in detail in the County of San Diego Low Impact Development Handbook. You are required to select a minimum of two LID Planning Practices and at least one LID Management Practice to reduce runoff from your site, and are encouraged to select additional BMPs as applicable. Additional information and details are available at <http://www.sdcountry.ca.gov/dplu/docs/LIDHandbook.pdf>

Table II : Minimum Required Low Impact Development (LID) BMPs

Minimum Required Low Impact Development (BMPs)	County LID Handbook Detail	BMP Selected	Each selected BMP must be shown on the Plan. If No BMP is selected, an explanation must be provided.
<b>A. LID Planning Practices (Reference Section 2.2 of County LID Handbook)</b>			
Conservation of Natural Drainages, Well Drained Soils and Significant Vegetation (e.g., minimize disturbance of natural areas; construct in least environmentally sensitive areas of the site)	2.2.1	<input type="checkbox"/>	
Minimize Disturbances to Natural Drainages (e.g., avoid disturbing natural swales & topographic depressions; construction setback from creek)	2.2.2	<input type="checkbox"/>	
Minimize Impervious Surfaces (e.g., preserve existing vegetation; permeable pavement for walkways, excess parking/driveway areas, exterior exposed slabs, etc.)	2.2.3	<input type="checkbox"/>	
Disconnect Impervious Surfaces (e.g., disconnect continuously paved areas with landscaping; direct roof runoff to permeable areas)	2.2.3	<input type="checkbox"/>	
Minimize Soil Compaction (e.g., protect native soil & vegetation from construction equipment; avoid compaction in planned landscaping areas)	2.2.4	<input type="checkbox"/>	
Drain Runoff from Impervious Surfaces to Pervious Areas (e.g., direct runoff from rooftops, patio slabs, walkways, parking lots, etc. to landscaped areas)	2.2.5	<input type="checkbox"/>	
<b>B. LID Management Practices (Reference Section 3 of the County LID Handbook)</b>			
Hydrologic Design (e.g., infiltration trench or basin; depression area in a lawn for infiltration; bio-filters such as vegetated or rock swales)	3.1	<input type="checkbox"/>	
Permeable Pavement Design (e.g., pervious concrete; permeable asphalt concrete/pavers; granular materials)	3.2	<input type="checkbox"/>	
LID Road Design for Developments (e.g., reduce overall road coverage; direct surface flow to vegetated swales)	3.3	<input type="checkbox"/>	
LID Parking Lot Design for Commercial Projects (e.g., use permeable materials for overflow parking; perimeter landscaping)	3.4	<input type="checkbox"/>	
LID Driveway, Sidewalk and Bike Path Design (e.g., single lane driveway flared at multi-car garage; slope driveways 2% to adjacent vegetated area)	3.5	<input type="checkbox"/>	
LID Building Design (e.g., dry-well; roof downspout to landscaped area or swale; cisterns and rain barrels)	3.6	<input type="checkbox"/>	
LID Landscaping Design (e.g., concave area of lawn; save and reuse native topsoil for landscaped areas; protect areas of native vegetation; street trees adjacent to sidewalks and driveways)	3.7	<input type="checkbox"/>	

**Post-Construction (Permanent) BMPs**

The City requires development projects with the potential to add pollutants to stormwater or to affect the flow rate or velocity of stormwater runoff after construction is completed to employ post-construction (permanent) BMPs, as feasible, to ensure that pollutants and runoff from the development are reduced to the maximum extent practicable. Using Table III below, select the post-construction BMPs that will be implemented on your project.

**Table III : Post-Construction (Permanent) BMPs**

Best Management Practices (BMPs)	CASQA Stormwater Handbook	BMP Selected	Each selected BMP must be shown on the Plan. If No BMP is selected, an explanation must be provided.
<b>A. Source Control BMPs (Select all that apply)</b>			
Implementation of Efficient Irrigation Systems	SD-12	<input type="checkbox"/>	
Storm Drain Stenciling and Posting of Signage	SD-13	<input type="checkbox"/>	
Proper Design of Trash Storage Areas	SD-32	<input type="checkbox"/>	
Proper Design of Outdoor Material Storage Areas	SD-34	<input type="checkbox"/>	
<b>B. Buffer Zones</b>			
Design project to include a buffer zone for natural water bodies. Where buffer zones are not feasible, other equally serving methods may be implemented such as trees or access restrictions.	N/A	<input type="checkbox"/>	
<b>C. Additional Permanent Stormwater BMPs</b>			
Protection of Channel Banks/Manufactured Slopes	SD-10	<input type="checkbox"/>	
Outlet Protection (Velocity Dissipation Devices)	EC-10	<input type="checkbox"/>	
Flat Pad Area Coverage (Permanent Landscaping / Groundcover)	SD-10	<input type="checkbox"/>	
Underground Infiltration Trench	TC-10	<input type="checkbox"/>	

**Certification**

This Water Quality Technical Report (WQTR) has been prepared under the direction of the following Registered Civil Engineer. The Registered Civil Engineer (Engineer) attests to the technical information contained herein and the engineering data upon which the following design, recommendations, conclusions and decisions are based. The selection, sizing, and preliminary design of stormwater treatment and other control measures in this report meet the requirements of Regional Water Quality Control Board Order R9-2007-0001 and subsequent amendments.

\_\_\_\_\_  
 [Engineer's Name]  
 Registered Civil Engineer

\_\_\_\_\_  
 [Date]

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