



## **CITY OF CARMEL STORMWATER POLLUTION PREVENTION PLAN (SWPPP) REQUIREMENTS**

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### **SWPPP for Construction Sites:**

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- 1. 14 Digit Watershed Hydrologic Unit Code**
- 2. Name of all receiving waters**  
If the discharge is to a municipal separate storm sewer, identify the ultimate receiving water
- 3. Estimate of peak discharge for post construction conditions (10-year)**
- 4. Locations of specific points where stormwater discharge will leave the site.**
- 5. Locations where stormwater may be directly discharged into groundwater, such as abandoned wells or sinkholes**
- 6. Soils map of the predominant soil types including:**
  - a. Soil legend with descriptions of each soil type
  - b. Brief description of how the site has accommodated the existing soil limitations
- 7. Description of potential pollutant sources associated with the construction activities**
- 8. Temporary and permanent stormwater quality measures:**
  - a. Location
  - b. Dimensions
  - c. Detailed specifications
  - d. Construction details
  - e. Monitoring and maintenance guidelines
- 9. General construction sequence**  
Each plan should contain multiple stormwater pollution prevention measures. All measures will not be installed at the same time. Various measures will be installed at different times throughout the construction process. Some will be installed prior to land disturbance, and others may not be installed until work at the site progresses to an area where they are necessary. Each proposed measure should be identified in the sequence as to when it is to be installed in relation to the land disturbing activities.
- 10. Location of proposed soil stockpiles, borrow, and/or disposal areas**  
These areas shall be included as part of the plans whether they occur on or off site.
- 11. Temporary and Permanent surface stabilization methods appropriate for each season**  
Provide application rates for soil amendments and seed mixtures, as well as, the type and application rate for mulch.
- 12. Erosion and sediment control specifications for individual building lots**
- 13. Material handling, storage, and spill prevention plan**
  - a. List of expected materials that may be present on the site during construction operations
  - b. Written description of how these materials will be handled to minimize the potential of entering the storm sewer system
  - c. Procedures for the contractor to take if any spills occur during construction.
- 14. Contact information for the trained individual responsible for stormwater pollution prevention for the project site**
  - a. Name
  - b. Address
  - c. Telephone number
  - d. E-mail address
  - e. List of qualifications
- 15. Current revision date on all sheets**



## **CITY OF CARMEL STORMWATER POLLUTION PREVENTION PLAN (SWPPP) REQUIREMENTS**

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### **SWPPP for Post-Construction:**

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- 1. Description of potential pollutant sources associated with the proposed land use.**
- 2. Post-construction stormwater quality measures:**
  - a. Location
  - b. Dimensions
  - c. Sizing calculations
  - d. Detailed specifications
  - e. Construction details
- 3. Sequence describing stormwater quality measure implementation**

Description of when the proposed post construction stormwater quality measures will be installed in relation to the general construction sequence.
- 4. Stormwater quality measures to be implemented to prevent or minimize adverse impacts to stream and riparian habitats**
- 5. An operation and maintenance manual for all post-construction stormwater quality measures:**
  - a. A brief description of what a water quality BMP is and does.
  - b. Contact information for the BMP owner
    - i. Name
    - ii. Address
    - iii. Telephone number
    - iv. E-mail address
  - c. A statement that the BMP owner is responsible for all maintenance and costs associated with the BMPs
  - d. A right-of-entry statement allowing the City of Carmel to inspect and maintain the BMP as necessary
  - e. A description of each BMP
  - f. Specific actions to be taken regarding routine maintenance, remedial maintenance, and sediment/pollutant removal:
    - i. Sediment/pollutant removal procedures should be explained in both narrative and graphical forms.
    - ii. Guidance on routine maintenance, such as mowing, litter removal, woody growth removal, etc.
    - iii. Guidance on remedial maintenance, such as inlet replacement, outlet work, etc.
    - iv. A tabular schedule should be provided listing all maintenance activities and dates for performing the these required activities
    - v. Who will actually be charged with maintaining the BMPs (maintenance staff, waste disposal company, etc.)
  - g. Site drawings showing:
    - i. Locations of the BMPs
    - ii. Locations of the access easements to maintain the BMPs
    - iii. Locations of the points of discharge for stormwater treated by the BMPs
    - iv. Cross sections of BMP features
  - h. Requirements regarding the submittal of annual inspection reports to the City of Carmel Engineering Department. The first report is due one year after construction is completed, with subsequent reports due each year within the same month of the initial report. If there are any deficiencies found during the inspection, these should be addressed. If the inspection report is not received within the month it is due, if there are deficiencies which were not included in the report, or if any deficiencies included in the report are not addressed in a timely manner, the BMP owner faces enforcement action from the City.