

**ATTACHMENT I. DEVELOPER TECHNICAL INFORMATION AND GUIDELINES**

1. The City of Long Beach shall make available to the Development Community reference information and recommended guidelines. Such information may include the following:
  - a. Links to the State Water Board's Water Balance Calculator
  - b. Expected BMP pollutant removal performance including effluent quality (ASCE/ U.S. EPA International BMP Database, CASQA New Development BMP Handbook, technical reports, local data on BMP performance, and the scientific literature appropriate for southern California geography and climate)
  - c. Selection of appropriate BMPs for stormwater pollutants of concern
  - d. Data on observed local effectiveness and performance of implemented BMPs
  - e. BMP maintenance and cost considerations
  - f. Guiding principles to facilitate integrated water resources planning and management in the selection of BMPs, including water conservation, groundwater recharge, public recreation, multipurpose parks, open space preservation, and existing retrofits
  - g. LID principles and specifications, including the objectives and specifications for integration of LID strategies in the areas of:
    - i. Site Assessment
    - ii. Site Planning and Design
    - iii. Vegetative Protection, Revegetation, and Maintenance
    - iv. Techniques to Minimize Land Disturbance
    - v. Techniques to Implement LID Measures at Various Scales
    - vi. Integrated Water Resources Management Practices
    - vii. LID Design and Flow Modeling Guidance
    - viii. Hydrologic Analysis
    - ix. LID Credits for trees or other features that intercept storm water runoff.
  - h. Recommended Guidelines to include:
    - i. Locate structures on less pervious soils where possible so as to preserve areas with permeable soils (Hydrologic Soil Group Classes A and B, as defined by the National Cooperative Soil Survey), for use in stormwater infiltration and groundwater recharge. Minimize the need to grade the site by concentrating development in areas with minimal non-engineered slopes and existing infrastructure, and mitigate any construction disturbance.
    - ii. The total disturbed area shall be no greater than 110 percent of the final project footprint plus the area of the construction stormwater detention basins, if any, and as required to meet applicable Fire Department regulations for brush clearance.
    - iii. Construction vehicles shall be confined at all times to the area specifically permitted to be disturbed by construction as depicted in the approved

construction documents. Physical barriers shall be used to designate and protect the boundary between disturbed and undisturbed areas.

- iv. Materials staging shall be confined to the area permitted to be disturbed by construction or may be temporarily stored off-site at an approved location at the Contractor's option.
  - v. Construction vehicles shall not traverse areas within the drip lines of those trees and other landscaping to be preserved. Approved visible physical barriers, such as continuous fencing, shall be provided to completely surround all trees and other landscaping to be preserved. Barriers shall be placed not less than 5 feet outside the drip lines of trees.
  - vi. Preserve or restore continuous riparian buffers widths along all natural drainages to a minimum width of 100 feet from each bank top, for a total of 200 feet plus the width of the stream, unless the Watershed Plan demonstrates that a smaller riparian buffer width is protective of water quality, hydrology, and aquatic life beneficial uses within a specific drainage.
  - vii. Identify and avoid development of areas containing habitat with threatened or endangered plant and animal species<sup>1</sup>.
- i. The City of Long Beach shall facilitate implementation of LID by providing key industry, regulatory, and other stakeholders with information regarding LID objectives and specifications through a training program. The LID training program will include the following:
- i. LID targeted sessions and materials for builders, design professionals, regulators, resource agencies, and stakeholders
  - ii. A combination of awareness on national efforts and local experience gained through LID pilot projects and demonstration projects
  - iii. Materials and data from LID pilot projects and demonstration projects including case studies
  - iv. Guidance on how to integrate LID requirements at various project scales
  - v. Guidance on the relationship among LID strategies, Source Control BMPs, Treatment Control BMPs, and Hydromodification Control requirements

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<sup>1</sup> Federal Endangered Species Act, 16 U.S.C. §§ 1531–1544 (<http://water.epa.gov/lawsregs/guidance/wetlands/eo11990.cfm>); California Endangered Species Act, California Fish and Game Code, §§ 2050 to 2115.5.