

## Performance Requirement Worksheet and SCM Sizing

Provide accompanying documentation, figures, exhibits, as appropriate, for all calculations.

Step 1 – Complete Threshold Determination Worksheet, which can be found at:

<https://www.cityofsalinas.org/our-city-services/public-works/development-engineering>

Step 2 – Determine the applicable Performance Requirement(s)

**Table 1. Post-Construction Performance Requirements by Project Category**

Post-Construction Performance Requirements <sup>1</sup>				
Project Impervious Area	PR-1 <i>Site Design and Runoff Reduction</i>	PR-2 <i>Water Quality Treatment</i>	PR-3 <i>Runoff Retention</i>	PR-4 <i>Peak Management</i>
<b>Project Type: Detached Single-Family Homes</b>				
≥2,500 ft <sup>2</sup> Total New and Replaced Impervious Area	Required			
≥15,000 ft <sup>2</sup> and <22,500 ft <sup>2</sup> Net Impervious Area	Required	Required	Required	
≥22,500 ft <sup>2</sup> Total New and Replaced Impervious Area	Required	Required	Required	Required
<b>Project Type: All Other Regulated Projects</b>				
≥2,500 ft <sup>2</sup> Total New and Replaced Impervious Area	Required			
≥5,000 ft <sup>2</sup> and <15,000 ft <sup>2</sup> Net Impervious Area	Required	Required		
≥15,000 ft <sup>2</sup> and <22,500 ft <sup>2</sup> Total New and Replaced Impervious Area	Required	Required	Required	
≥22,500 ft <sup>2</sup> Total New and Replaced Impervious Area	Required	Required	Required	Required

ft<sup>2</sup> = square feet; PR = performance requirement

1. These requirements exclude PR-5, Special Circumstances, which is discussed in Section 2.5. of the SWDS

Step 3 – Calculate the SCM Sizing Criteria for each PR

Calculate the SCM Sizing Criteria that corresponds to the project’s applicable PR(s). For more details, see Section 3 of the Stormwater Development Standards (SWDS).

Step 3.1 – PR-1 Site Design and Runoff Reduction

PR-1 has no SCM Sizing Criteria. Check applicable boxes and provide short description of measure being taken and location:

- Conserve Natural Areas, Riparian Areas, and Wetlands; Minimize Clearing and Grading of Native Vegetation; Set Back Development from Creeks, Wetlands, and Riparian Habitats

Description: \_\_\_\_\_  
\_\_\_\_\_

- Minimize Compaction of Highly Permeable Soils; Reserve Areas with High Permeability Soils for Either Open Space or Infiltration BMPs

Description: \_\_\_\_\_  
\_\_\_\_\_

- Direct Roof Runoff into Vegetated Areas or Cisterns or Rain Barrels for Re-Use

Description: \_\_\_\_\_  
\_\_\_\_\_

- Minimize Impervious Surfaces and Direct Runoff from Impervious Areas to Adjacent Landscaping and Vegetated Stormwater Treatment Systems

Description: \_\_\_\_\_  
\_\_\_\_\_

- Use Pervious Pavement (Pervious Concrete or Asphalt, Turf Block, Crushed Aggregates, etc) for New Construction and Renovation

Description: \_\_\_\_\_  
\_\_\_\_\_

- Construct Bike Lanes, Driveways, Uncovered Parking Lots, Sidewalks, Walkways, and Patios with Permeable Surfaces

Description: \_\_\_\_\_  
\_\_\_\_\_

Step 3.2 – PR-2 Water Quality Treatment and PR-3 Runoff Reduction

For PR-2 and PR-3, the SCM Sizing Calculator may be used. The calculator and instructions for its use can be found at the following link:

<https://countyofsb.org/pwd/sbpcw/development/new-and-redevelopment.sbc>

When sizing an SCM, always use “Site-Specific” in the SCM SOIL TYPE drop-down box and use the average infiltration rate indicated in the Monterey County Soil Report indicated at the link below. When sizing a bioretention SCM, the infiltration rate to be used must be half of the average infiltration rate indicated in the Monterey County Soil Report:

[https://www.nrcs.usda.gov/Internet/FSE\\_MANUSCRIPTS/california/CA053/0/monterey.pdf](https://www.nrcs.usda.gov/Internet/FSE_MANUSCRIPTS/california/CA053/0/monterey.pdf)

Step 3.3 – PR-4 Peak Management

Calculate the Change in Impervious Area from Pre- to Post-Project.

PR-4 = (Post-Project Impervious Area) – (Pre-Project Impervious Area)

**Change in Impervious Area:**  ft<sup>2</sup>

Include all design calculations for each SCM in an attachment.

DMA Name	2-yr Pre-Project Peak Flow (cfs)	2-yr Post-Project Peak Flow (cfs)	10-yr Pre-Project Peak Flow (cfs)	10-yr Post-Project Peak Flow (cfs)	100-yr Pre-Project Peak Flow * (cfs)	100-yr Post-Project Peak Flow * (cfs)
DMA 1						
DMA 2						
DMA 3						
DMA 4						
DMA 5						

\* These are only required for projects 5 acres or more in size

Step 4 – Determine whether each PR is met

Step 4.1 – Compliance with PR-1

<p>1. LID principles and strategies are incorporated into the project design, as described in Section 3.1 of the SWDS.</p>	<p>Performance Requirement 1 is met.</p>
<p>2. LID principles and strategies are NOT incorporated into the project design, as described in Section 3.1 of the SWDS.</p>	<p>Performance Requirement 1 is NOT met. Project must meet PR-1 to receive approval by the City of Salinas.</p>

Step 4.2 – Compliance with PR-2

<p>1. Total Area Treated by SCMs <math>\geq</math> PR-2 DMA Sizing Criteria</p>	<p>Performance Requirement 2 is met.</p>
<p>2. Total Area Treated by SCMs <math>&lt;</math> PR-2 DMA Sizing Criteria</p>	<p>Meeting the Performance Requirements is an iterative process. If the PR has not been met, return to prior design steps to explore alternative combinations of LID practices.</p> <p>If PR-2 cannot be met because of technical infeasibility, see Alternative Compliance (Section 2.6 of the SWDS).</p>

Step 4.3 – Compliance with PR-3

<p>1. Sum of SCM Design Treatment Volume for each DMA <math>\geq</math> Retention Volume</p>	<p>Performance Requirement 3 is met.</p>
<p>2. Sum of SCM Design Treatment Volume for each DMA <math>&lt;</math> Retention Volume</p>	<p>Meeting the Performance Requirements is an iterative process. If the PR has not been met, return to prior design steps to explore alternative combinations of LID practices.</p> <p>If PR-3 cannot be met because of technical infeasibility, see Alternative Compliance (Section 2.6 of the SWDS).</p>

Step 4.4 – Compliance with PR-4

<p>1. Pre-Development 2-10 yr Peak Flows <math>\geq</math> Post-Development 2-10 yr Peak Flows</p>	<p>Performance Requirement 4 is met, no further action necessary.</p>
<p>2. Pre-Development 2-10 yr Peak Flows <math>&lt;</math> Post-Development 2-10 yr Peak Flows</p>	<p>If PR-4 cannot be met because of technical infeasibility, see Alternative Compliance (Section 2.6 of the SWDS).</p>

3. Project is  $\geq$  5 acres in size

A hydrology report must be prepared that (1) demonstrates calculations used to comply with applicable PR-1, PR-2, and PR-3, and (2) meets the flood control standards. Post-development peak flows must not exceed pre-development peak flows for the 2-year through 100-year storm events.

If any PR-4 requirements cannot be met because of technical infeasibility, see Alternative Compliance (Section 2.6 of the SWDS).

Step 5 – Provide a Stormwater Control Plan for PR-2, PR-3, and PR-4 Requirements  
(See Appendix B)