



CUPERTINO

City of Cupertino

STAFF ONLY
Building Permit
Date: _____
Permit #: _____

PERMIT PROVISION C.3. IMPERVIOUS SURFACE DATA FORM

All Project Applicants with 5,000 sq. ft. or more of impervious surface on the project site must fill out this worksheet and submit it with the development project application to the Engineering Division of the Public Works Department. Contact Public Works at (408) 777-3354 for guidance

C.3 Regulated Projects are projects that create and/or replace **10,000 sq. ft.** or more of impervious surface on the project site **AND All restaurants, auto service facilities, retail gasoline outlets, and uncovered parking lot projects** that create and/or replace **5,000 sq. ft.** or more of impervious surface on the project site.

All applicants with C.3 Regulated projects must reserve a minimum of 4% of developable surface area for the placement of storm water treatment facilities unless an alternative storm water treatment plan is approved by the Public Works Engineer.

What is an Impervious Surface?

An impervious surface is a covering or pavement that prevents the land's natural ability to absorb and infiltrate rainfall/stormwater. Impervious surfaces include, but are not limited to rooftops, walkways, paved patios, driveways, parking lots, storage areas, concrete and asphalt, and any other continuous watertight pavement or covering. Pervious pavement, underlain with pervious soil or pervious storage material (e.g., drain rock), that infiltrates rainfall at a rate equal to or greater than surrounding unpaved areas OR that stores and infiltrates the water quality design volume specified in Provision C.3.d of the Municipal Regional Stormwater Permit (MRP), is not considered an impervious surface.

Date: _____

APN # _____ - _____ - _____

Project Location: _____
(address)

Project Name: _____ Cross Streets _____

Applicant Name: _____ Applicant's Ph #: _____

Engineer: _____ Engineer's Ph #: _____

Project Phase(s): ____ of ____

Project Description: _____

- Project Type (check all that apply):** New Development Redevelopment
 Public Commercial Industrial Auto Service (SIC code) Uncovered Parking
(5013-5014, 5541, 7532-7534, 7536-7539)
 Residential Restaurant Mixed Use Retail Gas Outlet Other _____

If Residential, does the project consist of a single-family home that is not part of a larger common plan of development? Yes No

If yes, stop here and return sheet 1 only to the Engineering Division of the Public Works Department.

Project Watershed/Receiving Water (creek): _____

2. Project Size:

a. Total Site Area: _____ acre		b. Total Site Area Disturbed: _____ acre (including clearing, grading, or excavating)		
	Existing Area (ft ²)	Proposed Area (ft ²)		Total Post-Project Area (ft ²)
		Replaced	New	
Impervious Area				
	Roof			
	Parking			
	Sidewalks and Streets			
c. Total Impervious Area				
d. Total new and replaced impervious area				
Pervious Area				
	Landscaping			
	Pervious Paving			
	Other (e.g. Green Roof)			
e. Total Pervious Area				
f. Percent Replacement of Impervious Area in Redevelopment Projects (Replaced Total Impervious Area ÷ Existing Total Impervious Area) x 100% = _____%				

3. State Construction General Permit Applicability:

a. Is #2.b. equal to 1 acre or more?

- Yes, applicant must obtain coverage under the State Construction General Permit (i.e., file a Notice of Intent and prepare a Stormwater Pollution Prevention Plan) (see www.swrcb.ca.gov/water_issues/programs/stormwater/construction.shtml for details).
- No, applicant does not need coverage under the State Construction General Permit.

4. MRP Provision C.3 Applicability:

a. Is #2.d. equal to **10,000** sq. ft. or more, or **5,000** sq. ft. or more for restaurants, auto service facilities, retail gas outlets, and uncovered parking?

(*Note that for public projects, the 5,000 sq. ft. threshold does not take effect until 12/1/12.)

- Yes, C.3. source control, site design and treatment requirements apply
- No, C.3. source control and site design requirements may apply – check with local agency

b. Is #2.f. equal to 50% or more?

- Yes, C.3. requirements (site design and source control, as appropriate, and stormwater treatment) apply to entire site
- No, C.3. requirements only apply to impervious area created and/or replaced

5. Hydromodification Management (HM) Applicability:

a. Does project create and/or replace one acre or more of impervious surface AND create an increase in total impervious surface from the pre-project condition?

- Yes (continue) No – exempt from HM, go to page 3

b. Is the project located in an area of HM applicability (green) on the HM Applicability Map? (www.scvurppp-w2k.com/hmp_maps.htm) – **Pink area only if project = or > 50 acres**

- Yes, project must implement HM requirements No – exempt from HM, go to page 3

6. Selection of Specific Stormwater Control Measures:

Site Design Measures

- Minimize land disturbed
- Minimize impervious surfaces
- Minimum-impact street or parking lot design
- Cluster structures/pavement
- Disconnected downspouts
- Pervious pavement
- Green roof
- Microdetention in landscape
- Other self-treating area
- Self-retaining area
- Rainwater harvesting and use (e.g., rain barrel, cistern connected to roof drains)¹
- Preserved open space: _____ ac. or sq. ft
(circle one)
- Protected riparian and wetland areas/buffers (Setback from top of bank: _____ft.)
- Other _____

Source Control Measures

- Alternative building materials
- Wash area/racks, drain to sanitary sewer²
- Covered dumpster area, drain to sanitary sewer²
- Sanitary sewer connection or accessible cleanout for swimming pool/spa/fountain²
- Beneficial landscaping (minimize irrigation, runoff, pesticides and fertilizers; promotes treatment)
- Outdoor material storage protection
- Covers, drains for loading docks, maintenance bays, fueling areas
- Maintenance (pavement sweeping, catch basin cleaning, good housekeeping)
- Storm drain labeling
- Other _____

Treatment Systems

- None (all impervious surface drains to self-retaining areas)
- #### **LID Treatment**
- Rainwater harvest and use (e.g., cistern or rain barrel sized for C.3.d treatment)
 - Infiltration basin
 - Infiltration trench
 - Exfiltration trench
 - Underground detention and infiltration system (e.g. pervious pavement drain rock, large diameter conduit)
- #### **Biotreatment**³
- Bioretention area
 - Flow-through planter
 - Tree box with bioretention soils
 - Other _____

Other Treatment Methods

- Proprietary tree box filter⁴
- Media filter (sand, compost, or proprietary media)
- Vegetated filter strip⁵
- Dry detention basin⁵
- Other _____

¹ Optional site design measure; does not have to be sized to comply with Provision C.3.d treatment requirements.

² Subject to sanitary sewer authority requirements.

³ Biotreatment measures are allowed only with completed feasibility analysis showing that infiltration and rainwater harvest and use are infeasible.

⁴ These treatment measures are only allowed if the project qualifies as a "Special Project".

⁵ These treatment measures are only allowed as part of a multi-step treatment process.

Flow Duration Controls for Hydromodification Management (HM)

- Detention basin
- Underground tank or vault
- Bioretention with outlet control
- Other _____

7. Treatment System Sizing for Projects with Treatment Requirements

Indicate the hydraulic sizing criteria used and provide the calculated design flow or volume:

Treatment System Component	Hydraulic Sizing Criteria Used ³	Design Flow or Volume (cfs or cu.ft.)

³Key: 1a: Volume – WEF Method
 1b: Volume – CASQA BMP Handbook Method
 2a: Flow – Factored Flood Flow Method
 2b: Flow – CASQA BMP Handbook Method
 2c: Flow – Uniform Intensity Method
 3: Combination Flow and Volume Design Basis

8. Condition of Approval for Landscape Plans (use of native plants, tree preservation).

9. Third Party Certification

A qualified consultant (that is not a member of the project team or City staff) will be required to review the treatment system sizing and design and certify the Stormwater Management Plan and/or Hydromodification Flow Control Facilities. A list of qualified consultants can be found at <http://www.scvurppp-w2k.com/consultants.htm>

Name of Reviewer _____

10. Operation & Maintenance Information

- A. Property Owner's Name _____
- B. Responsible Party for Stormwater Treatment/Hydromodification Control O&M:
 - a. Name: _____
 - b. Address: _____
 - c. Phone/E-mail: _____

This section to be completed by Municipal staff.

<p>O&M Responsibility Mechanism Indicate how responsibility for O&M is assured. Check all that apply:</p> <p><input type="checkbox"/> O&M Agreement</p> <p><input type="checkbox"/> Other mechanism that assigns responsibility (describe below): _____</p>
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STAFF ONLY - Reviewed by:

Community Development Department Public Works Department
 Planning Division: _____ Engineering Division: _____

Return form to: Public Works Department Date _____