# CITY OF ALAMEDA Stormwater Treatment Measure Design Criteria Certification Form

This form is to be completed and stamped by a civil engineer licensed in the State of California who has been verified by the City of Alameda to meet the criteria listed in Provision C.3.f of the Alameda Countywide Clean Water Program (ACCWP)'s Municipal Regional Stormwater NDPES Permit for the purposes of providing certification of the design criteria for stormwater treatment measures. Submit this completed form to CWP Specialist, City of Alameda Public Works Department, 950 West Mall Square, Alameda, CA 94501.

Project Location or Address:				. CA
Project Name (if applicable):				· -
Property Owner's Name:				
Project Applicant's Name:	Contractor	□□ Engineer/Archite	ct 🛛 Develop	per
Applicant's Address:				
Applicant's Phone:	Fax:	Email:		
Parcel/Tract No.: Lot No	.:A	APN #		
The stormwater treatment measures criteria (see next page and indicate	meet the follow 1a, 1b, 2a, 2b, 2c	ing section(s) of the Pro e and/or 3):	ovision C.3.d hy	draulic sizing design
Name of Professional Conducting I	Design Criteria C	ertification:		
□ Civil Engineer □ Licensed Arch	itect 🛛 Landsca	pe Architect Registrat	ion No.:	
Name of Firm:				
Street Address:				
Phone No.:	En	nail Address:		
Fax No.: I hereby certify (1) that I am I	icensed and re	gistered in the State	of To Age	be completed by ency staff:
California; (2) that I understand the groundwater protection principles applicable to the site of the above-named project, including the groundwater protection principles described in Provision C.3.d.iv. of the Alameda Countywide Clean Water Program's Municipal Regional Stormwater NPDES Permit; and (3) that the design documents for the above-named project, dated, meet the City of Alameda's stormwater treatment measure design criteria listed on Page 2 of this form, including the requirements of Provisions C.3.d of the ACCWP's Municipal Regional Stormwater NPDES Permit				verification of aalifying training in roject file?
				□ Yes □ No
				Did qualifying aining occur within ne last 3 years?
Stormwater IVI DED Formit.				□ Yes □ No
Signature of Certifying Professional		Date	Staf	f Name
			Date	9

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When conducting alternative certification review, qualified professionals will review project applicant design submittals to determine whether they meet the design criteria set forth below, as well as the groundwater protection requirements discussed in Provision C.3.d.iv., Limitations on the Use of Infiltration Devices in Stormwater Treatment Systems, of the Municipal Regional Stormwater NPDES Permit.

THE FOLLOWING IS TEXT EXCERPTED FROM PROVISION C.3.d OF THE MUNICIPAL REGIONAL STORMWATER NPDES PERMIT.

### TREATMENT MEASURE DESIGN CRITERIA FROM PROVISION C.3.d.i.

#### C.3.d.i. Numeric Sizing Criteria For Stormwater Treatment Systems

The Permittees shall require that stormwater treatment systems constructed for Regulated Projects meet at least one of the following hydraulic sizing design criteria:

#### 1. Volume Hydraulic Design Basis

Treatment systems whose primary mode of action depends on volume capacity shall be designed to treat stormwater runoff equal to:

a) The maximized stormwater capture volume for the area, on the basis of historical rainfall records, determined using the formula and volume capture coefficients set forth in Urban Runoff Quality Management, WEF Manual of Practice No. 23/ ASCE Manual of Practice No. 87, (1998), pages 175-178 (e.g., approximately the 85th percentile 24-hour storm runoff event); or

b) The volume of annual runoff required to achieve 80 percent or more capture, determined in accordance with the methodology set forth in Section 5 of the California Stormwater Quality Association's Stormwater Best Management Practices Handbook, New Development and Redevelopment (2003), using local rainfall data.

#### 2. Flow Hydraulic Design Basis

Treatment systems whose primary mode of action depends on flow capacity shall be sized to treat:

a) 10 percent of the 50-year peak flowrate; or

b) The flow of runoff produced by a rain event equal to at least two times the 85th percentile hourly rainfall intensity for the applicable area, based on historical records of hourly rainfall depths; or

c) The flow of runoff resulting from a rain event equal to at least 0.2 inches per hour intensity.

#### 3. Combination Flow and Volume Design Basis

Treatment systems that use a combination of flow and volume capacity shall be sized to treat at least 80 percent of the total runoff over the life of the project, using local rainfall data.