



CITY OF NEWPORT BEACH
COMMUNITY DEVELOPMENT DEPARTMENT
BUILDING DIVISION

100 Civic Center Drive, Newport Beach, CA 92660
www.newportbeachca.gov | (949) 644-3200

WATER QUALITY & HYDROLOGY PLAN (WQHP)
PLAN REVIEW CHECKLIST
FOR COASTAL DEVELOPMENT PERMIT

Project Address:

Plan Check No.:

Date of Report:

Report Prepared By:

Plan Check Engineer: Sergio Gutierrez (sgutierrez@newportbeachca.gov)

Phone: 949-644-3213

1st Review:

2nd Review:

3rd Review:

- Make the following corrections to the report.
- Return this correction sheet and check prints with corrected Water Quality Hydrology Plan.
- Submit a response sheet indicating how each correction was resolved.
- A WQHP is required for Coastal Development Permit Projects. For projects that will generate more than 2,500 square feet of impervious, please comply with a "Priority WQMP Report." Conceptual WQMP, provide tentative LID and Hydromodification BMP's at the earliest planning phase for early review and approval:
<http://www.newportbeachca.gov/home/showdocument?id=21687>
- LID BMP's shall follow the following hierarchy of BMP's: infiltration, evapotranspiration, harvest/re-use, and biotreatment.
- Hydrology computations are based on a 2-year storm period.
- On the cover page identify the report as a "WQHP," if less than 2,500 sf of impervious or "Priority WQMP"
- For Model WQMP:
<http://www.newportbeachca.gov/home/showdocument?id=10750>
- For design see Technical Guidance Document:
<http://www.newportbeachca.gov/home/showdocument?id=10749>
- For Total Maximum Daily Loads and 301(d) list:
http://www.waterboards.ca.gov/santaana/water_issues/programs/tmdl/index.shtml

Prior to approval of the WQHP Report, attend to the following:

TITLE PAGE

- Name of project
 - Site address (or addresses) OR planning area number if no address
 - Owner/Developer name
 - Owner/Developer address & telephone number
 - Consulting/Engineering firm that prepared WQHP
 - Consulting/Engineering firm address & phone number
 - Date WQHP was prepared/revised
 - Planning Application, Grading Application, or Building Application
 - Registered Civil Engineer's signature and stamp
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OWNER'S CERTIFICATION

- A signed certification statement, in which the project owner acknowledges and accepts the provisions of the WQHP, follows the title page.
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TABLE OF CONTENTS

- A Table of Contents including a list of all figures and attachments.
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SECTION I, DISCRETIONARY PERMIT(S) AND WATER QUALITY CONDITIONS

- Permit/Application No.
 - Address of Project and APN
 - List Discretionary Permit(s)
 - List, verbatim, the water quality conditions, including condition requiring preparation of WQMP, if applicable
 - If not developed site, provide lot and tract/parcel map number
 - Applicable WIHMPs and TMDL
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SECTION II, PROJECT DESCRIPTION

11.1 – PROJECT DESCRIPTION

- WQHP Development Category
- Project plan area
- SIC code
- No. of dwelling units (residential)
- Accurately describe where facilities will be located, what activities will be conducted and where on the site, kinds of materials and products that will be used, how and where materials will be received and stored, and what kinds of wastes will be generated.
- Pre-project and post-project pervious and impervious areas and their percentages
- Does project include food preparation, cooking, and eating areas? Specify location and type of area
- Describe delivery areas and loading docks (specify location and design and if below grade and types of materials expected to be stored)
- Describe outdoor materials storage areas (describe and depict locations(s), specify type(s) of materials expected to be stored).
- Describe activities that will be routinely conducted outdoors

- Describe any activities associated with equipment or vehicle maintenance and repair, including washing or cleaning. Indicates number of service bays or number of fueling islands/fuel pumps, if applicable
- Describe all community facilities such as, laundry, car wash, swimming pools, Jacuzzi, parks, open spaces, tot lots, etc.
- Drainage pattern and connections

II.2 - POLLUTANTS

- Identify the potential stormwater or urban runoff pollutants reasonably expected to be associated with the project
- List pollutant of concern

II.3 - HYDROLOGY

- Discuss hydrologic conditions of concern
- Provide 2-year Storm period computations based on Orange County Hydrology Manual.

II.4 – POST DRAINAGE CHARACTERISTICS

- Discuss post development drainage

II.5 - OWNERSHIP

- Property ownership/management
- Will any infrastructure transfer to a public agency?

SECTION III, SITE DESCRIPTION

III.1 - PHYSICAL SETTING

- Site address
- Land Use
- Zoning
- Acreage
- Predominant soil type

III.2 - SITE CHARACTERISTICS

- Precipitation Zone
- Topography
- Drainage pattern/connection
- Soil type, geology, and infiltration properties
- Hydrogeologic (groundwater) conditions
- Geotechnical conditions (relevant to infiltration)
- Off-site drainage
- Utility and infrastructure information

III.3 - WATERSHED DESCRIPTION

- Receiving waters
- 303(d) listed impairments
- Applicable TMDL's
- Pollutants of concern
- Hydrologic conditions of concern
- Environmentally sensitive and special biological significant areas

SECTION IV, BEST MANAGEMENT PRACTICES (BMP)

IV. 1 - PROJECT PERFORMANCE CRITERIA

- Hydromodification control performance criteria

- WIHMP
- LID performance criteria in detail
- Treatment control BMP performance criteria
- LID storm capture volume computations

IV.2 - SITE DESIGN AND DRAINAGE PLAN

- Site design BMP's
 - Minimize impervious areas
 - Maximize natural infiltration
 - Disconnect impervious areas
 - Protect existing vegetation and sensitive areas
 - Re-vegetate disturbed areas
 - BMP's incorporated to the MEP
 - List of BMP's for each DMA
- Drainage plan
 - Calculations of DCV for each drainage area

IV.3 - LID BMP SELECTION AND PROJECT CONFORMANCE ANALYSIS

- List hydrologic source controls
- Infiltration BMP's
- Evapotranspiration, and rainwater harvesting BMP's
- Biotreatment BMP's
- Hydromodification control BMP's
- Regional/sub-regional LID BMP's
- Treatment control BMP's
- Non-structural source control BMP's
- Structural source control BMP's

IV.4 - ALTERNATE COMPLIANCE PLAN

- Water quality credits
- Alternate compliance plan information

SECTION V, INSPECTION / MAINTENANCE RESPONSIBILITY FOR BMP

- List for each BMP, inspection/maintenance requirement, minimum frequency, and responsible party

SECTION VI, SITE PLAN AND DRAINAGE PLAN

- Has an 11" by 17" plot plan been included?
- Do all figures, maps, plot plans, etc. have a legend, including a north arrow and scale?
- Are all facilities labeled for the intended function?
- Are all areas of outdoor activity labeled?
- Are all structural BMPs indicated?
- Is drainage flow information, including general surface flow lines, concrete or other surface ditches or channels, as well as storm drain facilities such as catch basins and underground storm drain pipes depicted?
- Depict where and how on-site drainage ties into the off-site drainage
- Provide the following minimum information:
 - Project Location
 - Site boundary
 - Landscape, hardscape, and paved areas
 - Suitability/feasibility constraints
 - Drainage connections and discharge points

SECTION VII, EDUCATIONAL MATERIALS

- Provide educational materials

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- Additional corrections