

County of Orange/Santa Ana Region Priority Project Water Quality Management Plan (WQMP)

Project Name:

Insert Project Name

INSERT GRADING PERMIT NO., BUILDING PERMIT NO., OR PLANNING APPLICATION NO., PROJECT SITE ADDRESS, TRACT/LOT NUMBER(S), AND APN:

Prepared for:

Insert Owner/Developer Name

Insert Street Address

Insert City, State, ZIP

Insert Telephone

Prepared by:

Insert Preparer Name/Consulting/Engineering Firm Name Insert

Street Address

Insert City, State, ZIP

Insert Telephone and Email address

Please place preparer's stamp here

Insert Date Prepared/Revised (include all previous dates)

Project Owner's Certification				
Planning Application No. (If applicable)		Grading Permit No.		
Tract/Parcel Map and Lot(s) No.		Building Permit No.		
Address of Project Site and A (If no address, specify Tract)				

This Water Quality Management Plan (WQMP) has been prepared for Owner/Developer Name by Consulting/Engineering Firm Name. The WQMP is intended to comply with the requirements of the County of Orange NPDES Stormwater Program requiring the preparation of the plan.

The undersigned, while it owns the subject property, is responsible for the implementation of the provisions of this plan, including the ongoing operation and maintenance of all best management practices (BMPs), and will ensure that this plan is amended as appropriate to reflect up-to-date conditions on the site consistent with the current Orange County Drainage Area Management Plan (DAMP) and the intent of the non-point source NPDES Permit for Waste Discharge Requirements for the County of Orange, Orange County Flood Control District and the incorporated Cities of Orange County within the Santa Ana Region. Once the undersigned transfers its interest in the property, its successors-in-interest shall bear the aforementioned responsibility to implement and amend the WQMP. An appropriate number of approved and signed copies of this document shall be available on the subject site in perpetuity.

Owner:			
Title			
Company			
Address			
Email			
Telephone #			
	I my responsibility to implement the provisions of the ration and maintenance of the best management practice.		
Owner Signature		Date	

Preparer (Engineer):						
Title	P	E Registration #				
Company			'			
Address						
Email						
Telephone #						
requiremen	tify that this Water Quality Management Plan i is set forth in, Order No. R8-2009-0030/NPDES ater Quality Control Board.	-				
Preparer Signature		Date				
Place						
Stamp						
Here						

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Section I Permit(s) and Water Quality Conditions of Approval or Issuance

Provide discretionary or grading/building permit information and water quality conditions of approval, or permit issuance, applied to the project. If conditions are unknown, please request applicable conditions from staff. *Refer to Section 2.1 in the Technical Guidance Document (TGD) available on the OC Planning website (ocplanning.net)*.

	Project Infomation						
Permit/Application No. (If applicable)	Grading or Building Permit No. (If applicable)						
Address of Project Site (or Tract Map and Lot Number if no address) and APN							
Water	Quality Conditions of Approval or Issuance						
Water Quality Conditions of Approval or Issuance applied to this project. (Please list verbatim.)							
	Conceptual WQMP						
Was a Conceptual Water Quality Management Plan previously approved for this project?							

Watershed-Based Plan Conditions				
Provide applicable conditions from watershed - based plans including WIHMPs and TMDLS.				

Section II Project Description

II.1 Project Description

Provide a detailed project description including:

- Project areas;
- Land uses;
- Land cover;
- Design elements;
- A general description not broken down by drainage management areas (DMAs).

Include attributes relevant to determining applicable source controls. *Refer to Section 2.2 in the Technical Guidance Document (TGD) for information that must be included in the project description.*

Description of Proposed Project						
Development Category (From Model WQMP, Table 7.11-2; or -3):						
Project Area (ft²):	Number of Dwelling Units: SIC Code:					
Project Area	Pervious			Impervious		
	Area (acres or sq ft)	Percentage	Area (acres or sq ft)		Percentage	
Pre-Project Conditions						
Post-Project Conditions						
Drainage Patterns/Connections						

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Narrative Project	
Description:	
(Use as much space as necessary.)	
(o o o o o o o o o o o o o o o o o o o	
necessary.)	

II.2 Potential Stormwater Pollutants

Determine and list expected stormwater pollutants based on land uses and site activities. *Refer to Section 2.2.2 and Table 2.1 in the Technical Guidance Document (TGD) for guidance.*

Pollutants of Concern						
Pollutant	Check One for each: E=Expected to be of concern N=Not Expected to be of concern		Additional Information and Comments			
Suspended-Solid/ Sediment	Е 🗆	N□				
Nutrients	Е 🗆	N□				
Heavy Metals	Е	N□				
Pathogens (Bacteria/Virus)	Е	N□				
Pesticides	Е 🗆	N□				
Oil and Grease	Е 🗆	N□				
Toxic Organic Compounds	Е 🗆	N□				
Trash and Debris	Е	N□				

11.3 Hydrologic Conditions of Concern

Determine if streams located downstream from the project area are potentially susceptible to hydromodification impacts. *Refer to Section 2.2.3.1 in the Technical Guidance Document (TGD) for North Orange County or Section 2.2.3.2 for South Orange County.*

INSERT Project Name
☐ No – Show map
Yes – Describe applicable hydrologic conditions of concern below. <i>Refer to Section 2.2.3 in the Technical Guidance Document (TGD).</i>

II.4 Post Development Drainage Characteristics Describe post development drainage characteristics. Refer to Section 2.2.4 in the Technical Guidance Document (TGD).					

II.5 Property Ownership/Management

Describe property ownership/management. *Refer to Section 2.2.5 in the Technical Guidance Document (TGD).*

Priority Project V INSERT Project Na	Vater Quality Manage me	ment Plan (WQM	P)	

Section III Site Description

III.1 Physical Setting

Fill out table with relevant information. *Refer to Section 2.3.1 in the Technical Guidance Document (TGD)*.

Name of Planned Community/Planning Area (if applicable)	
Location/Address	
General Plan Land Use	
Designation	
Zoning	
Acreage of Project Site	
Predominant Soil Type	

III.2 Site Characteristics

Fill out table with relevant information and include information regarding BMP sizing, suitability, and feasibility, as applicable. *Refer to Section 2.3.2 in the Technical Guidance Document (TGD)*.

Site Characteristics	
Precipitation Zone	
Topography	

Drainage Patterns/Connections	
Soil Type, Geology, and Infiltration Properties	
Hydrogeologic (Groundwater) Conditions	
Geotechnical Conditions (relevant to infiltration)	
Off-Site Drainage	
Utility and Infrastructure Information	
	scription information and include information regarding BMP sizing, suitability, e. Refer to Section 2.3.3 in the Technical Guidance Document (TGD).
Receiving Waters	
303(d) Listed Impairments	
Applicable TMDLs	
Pollutants of Concern for the Project	
Environmentally Sensitive and Special Biological Significant Areas	

Section IV Best Management Practices (BMPs)

IV. 1 Project Performance Criteria

Describe project performance criteria. Several steps must be followed in order to determine what performance criteria will apply to a project. These steps include:

- If the project has an approved WIHMP or equivalent, then any watershed specific criteria must be used and the project can evaluate participation in the approved regional or subregional opportunities. (Please ask your assigned planner or plan checker regarding whether your project is part of an approved WIHMP or equivalent.)
- Determine applicable hydromodification control performance criteria. *Refer to Section 7.II-2.4.2.2 of the Model WQMP.*
- Determine applicable LID performance criteria. *Refer to Section 7.II-2.4.3 of the Model WQMP*.
- Determine applicable treatment control BMP performance criteria. *Refer to Section 7.II-3.2.2 of the Model WQMP*.
- Calculate the LID design storm capture volume for the project. *Refer to Section 7.II-2.4.3 of the Model WQMP.*

(NOC Permit Area only) Is for the project area that including criteria or if there are oppor	YES 🗌	NO 🗌	
on regional or sub-regional	Dasis?		
If yes, describe WIHMP feasibility criteria or regional/sub-regional LID opportunities.			

Project Performance Criteria		
If HCOC exists, list applicable hydromodification control performance criteria (Section 7.II-2.4.2.2 in MWQMP)		
List applicable LID performance criteria (Section 7.II-2.4.3 from MWQMP)		
List applicable treatment control BMP performance criteria (Section 7.II-3.2.2 from MWQMP)		
Calculate LID design storm capture volume for Project.		

IV.2. Site Design and Drainage

Describe site design and drainage including

- A narrative of site design practices utilized or rationale for not using practices;
- A narrative of how site is designed to allow BMPs to be incorporated to the MEP
- A table of DMA characteristics and list of LID BMPs proposed in each DMA.
- Reference to the WQMP "BMP Exhibit."
- Calculation of Design Capture Volume (DCV) for each drainage area.
- A listing of GIS coordinates for LID and Treatment Control BMPs.

Refer to Section 2.4.2 in the Technical Guidance Document (TGD).

IV.3 LID BMP Selection and Project Conformance Analysis

Each sub-section below documents that the proposed design features conform to the applicable project performance criteria via check boxes, tables, calculations, narratives, and/or references to worksheets. *Refer to Section 2.4.2.3 in the Technical Guidance Document (TGD) for selecting LID BMPs and Section 2.4.3 in the Technical Guidance Document (TGD) for conducting conformance analysis with project performance criteria.*

IV.3.1 Hydrologic Source Controls (HSCs)

If required HSCs are included, fill out applicable check box forms. If the retention criteria are otherwise met with other LID BMPs, include a statement indicating HSCs not required.

Name	Included?
Localized on-lot infiltration	
Impervious area dispersion (e.g. roof top disconnection)	
Street trees (canopy interception)	
Residential rain barrels (not actively managed)	
Green roofs/Brown roofs	
Blue roofs	
Impervious area reduction (e.g. permeable pavers, site design)	
Other:	

IV.3.2 Infiltration BMPs

Identify infiltration BMPs to be used in project. If design volume cannot be met, state why.

Name	Included?
Bioretention without underdrains	
Rain gardens	
Porous landscaping	
Infiltration planters	
Retention swales	
Infiltration trenches	
Infiltration basins	
Drywells	
Subsurface infiltration galleries	
French drains	
Permeable asphalt	
Permeable concrete	
Permeable concrete pavers	
Other:	
Other:	

Show calculations below to demonstrate if the LID Design Strom Capture Volume can be met with infiltration BMPs. If not, document how much can be met with infiltration and document why it is not feasible to meet the full volume with infiltration BMPs.

Priority Project Water Quality Management Plan (WQMP) INSERT Project Name				

IV.3.3 Evapotranspiration, Rainwater Harvesting BMPs

If the full Design Storm Capture Volume cannot be met with infiltration BMPs, describe any evapotranspiration and/or rainwater harvesting BMPs included.

Name	Included?
All HSCs; See Section IV.3.1	
Surface-based infiltration BMPs	
Biotreatment BMPs	
Above-ground cisterns and basins	
Underground detention	
Other:	
Other:	
Other:	

Show calculations below to demonstrate if the LID Design Storm Capture Volume can be met with evapotranspiration and/or rainwater harvesting BMPs in combination with infiltration BMPs. If not, document below how much can be met with either infiltration BMPs, evapotranspiration, rainwater harvesting BMPs, or a combination, and document why it is not feasible to meet the full volume with these BMP categories.

IV.3.4 Biotreatment BMPs

If the full Design Storm Capture Volume cannot be met with infiltration BMPs, and/or evapotranspiration and rainwater harvesting BMPs, describe biotreatment BMPs included. Include sections for selection, suitability, sizing, and infeasibility, as applicable.

Name	Included?
Bioretention with underdrains	
Stormwater planter boxes with underdrains	
Rain gardens with underdrains	
Constructed wetlands	
Vegetated swales	
Vegetated filter strips	
Proprietary vegetated biotreatment systems	
Wet extended detention basin	
Dry extended detention basins	
Other:	
Other:	

Show calculations below to demonstrate if the LID Design Storm Capture Volume can be met with infiltration, evapotranspiration, rainwater harvesting and/or biotreatment BMPs. If not, document how much can be met with either infiltration BMPs, evapotranspiration, rainwater harvesting BMPs, or a combination, and document why it is not feasible to meet the full volume with these BMP categories.

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IV.3.5 Hydromodification Control BMPs

Describe hydromodification control BMPs. *See Section 5 of the Technical Guidance Document (TGD)*. Include sections for selection, suitability, sizing, and infeasibility, as applicable. Detail compliance with Prior Conditions of Approval (if applicable).

Hydromodification Control BMPs				
BMP Name	BMP Description			

IV.3.6 Regional/Sub-Regional LID BMPs

Describe regional/sub-regional LID BMPs in which the project will participate. *Refer to Section 7.II-2.4.3.2 of the Model WQMP*.

Regional/Sub-Regional LID BMPs			

IV.3.7 Treatment Control BMPs

Treatment control BMPs can only be considered if the project conformance analysis indicates that it is not feasible to retain the full design capture volume with LID BMPs. Describe treatment control BMPs including sections for selection, sizing, and infeasibility, as applicable.

Treatment Control BMPs				
BMP Name BMP Description				

IV.3.8 Non-structural Source Control BMPs

Fill out non-structural source control check box forms or provide a brief narrative explaining if non-structural source controls were not used.

Non-Structural Source Control BMPs					
	entifier Name		ck One	If not applicable, state brief	
Identifier			Not Applicable	reason	
N1	Education for Property Owners, Tenants and Occupants				
N2	Activity Restrictions				
N3	Common Area Landscape Management				
N4	BMP Maintenance				
N5	Title 22 CCR Compliance (How development will comply)				
N6	Local Industrial Permit Compliance				
N7	Spill Contingency Plan				
N8	Underground Storage Tank Compliance				
N9	Hazardous Materials Disclosure Compliance				
N10	Uniform Fire Code Implementation				
N11	Common Area Litter Control				
N12	Employee Training				
N13	Housekeeping of Loading Docks				
N14	Common Area Catch Basin Inspection				
N15	Street Sweeping Private Streets and Parking Lots				
N16	Retail Gasoline Outlets				

IV.3.9 Structural Source Control BMPs

Fill out structural source control check box forms or provide a brief narrative explaining if structural source controls were not used.

Structural Source Control BMPs					
	Name	Chec	k One	If not applicable, state brief	
Identifier		Included	Not Applicable	reason	
S1	Provide storm drain system stenciling and signage				
S2	Design and construct outdoor material storage areas to reduce pollution introduction				
S3	Design and construct trash and waste storage areas to reduce pollution introduction				
S4	Use efficient irrigation systems & landscape design, water conservation, smart controllers, and source control				
S5	Protect slopes and channels and provide energy dissipation				
	Incorporate requirements applicable to individual priority project categories (from SDRWQCB NPDES Permit)				
S6	Dock areas				
S7	Maintenance bays				
S8	Vehicle wash areas				
S9	Outdoor processing areas				
S10	Equipment wash areas				
S11	Fueling areas				
S12	Hillside landscaping				
S13	Wash water control for food preparation areas				
S14	Community car wash racks				

IV.4 Alternative Compliance Plan (If Applicable)

Describe an alternative compliance plan (if applicable). Include alternative compliance obligations (i.e., gallons, pounds) and describe proposed alternative compliance measures. *Refer to Section 7.II* 3.0 in the WQMP.

IV.4.1 Water Quality Credits

Determine if water quality credits are applicable for the project. *Refer to Section 3.1 of the Model WQMP for description of credits and Appendix VI of the Technical Guidance Document (TGD) for calculation methods for applying water quality credits.*

Description of Proposed Project					
Project Types that Qualify for Water Quality Credits (Select all that apply):					
Redevelopment projects that reduce the overall impervious footprint of the project site.	redevelopment, exp property which ma presence or potenti substances, polluta	pansion, or reuse of real include two distinct by be complicated by the all presence of hazardous ints or contaminants, and cential to contribute to surface WQ if not include two distinct be taken for one can than seven units per credit allowance); where the contribute to the contr		development projects which at categories (credits can only ategory): those with more ar acre of development (lower vertical density example, those with a Floor of 2 or those having more acre (greater credit allowance).	
Mixed use development, such as a combination of residential, commercial, industrial, office, institutional, or other land uses which incorporate design principles that can demonstrate environmental benefits that would not be realized through single use projects (e.g. reduced vehicle trip traffic with the potential to reduce sources of water or air Transit-oric mixed use residential, or other land designed to move transportation where the devenue half mile of a relight rail or composite to projects would be realized to reduce sources of water or air			ntial or con imize access milar to abo opment cent ss transit ce nuter train s ot be able to	lopments, such as a commercial area in an established historic district, historic preservation area, or simil significant city area including core City Center areas (to be defined throu to take credit for have greater credit Redevelopment project in an established historic district, historic preservation area, or simil significant city area including core City Center areas (to be defined throu mapping).	
Developments with dedication of undeveloped portions to parks, preservation areas and other pervious uses.	Developments in a city center area.	Developments in historic districts or historic preservation areas.	developm support re vocationa similar to use develo	nents, a variety of nents designed to esidential and I needs together – criteria to mixed opment; would not take credit for	☐In-fill projects, the conversion of empty lots and other underused spaces into more beneficially used spaces, such as residential or commercial areas.

Priority Project Wat INSERT Project Name	er Quality Management Plan (WQMP)
Calculation of Water Quality Credits (if applicable)	
Describe an altern	ative Compliance Plan Information ative compliance plan (if applicable). Include alternative compliance obligations ds) and describe proposed alternative compliance measures. <i>Refer to Section 7.II QMP</i> .

Section V Inspection/Maintenance Responsibility for BMPs

Fill out information in table below. Prepare and attach an Operation and Maintenance Plan. Identify the funding mechanism through which BMPs will be maintained. Inspection and maintenance records must be kept for a minimum of five years for inspection by the regulatory agencies. *Refer to Section 7.II 4.0 in the Model WQMP*.

BMP Inspection/Maintenance					
ВМР	Reponsible Party(s)	Inspection/ Maintenance Activities Required	Minimum Frequency of Activities		

Section VI BMP Exhibit (Site Plan)

VI.1 BMP Exhibit (Site Plan)

Include a BMP Exhibit (Site Plan), at a size no less than 24" by 36," which includes the following minimum information:

- Insert in the title block (lower right hand corner) of BMP Exhibit: the WQMP Number (assigned by staff) and the grading/building or Planning Application permit numbers
- Project location (address, tract/lot number(s), etc.)
- Site boundary
- Land uses and land covers, as applicable
- Suitability/feasibility constraints
- Structural BMP locations
- Drainage delineations and flow information
- Delineate the area being treated by each structural BMP
- GIS coordinates for LID and Treatment Control BMPs
- Drainage connections
- BMP details
- Preparer name and stamp

Please do not include any areas outside of the project area or any information not related to drainage or water quality. The approved BMP Exhibit (Site Plan) shall be submitted as a plan sheet on all grading and building plan sets submitted for plan check review and approval. The BMP Exhibit shall be at the same size as the rest of the plan sheets in the submittal and shall have an approval stamp and signature prior to plan check submittal.

VI.2 Submittal and Recordation of Water Quality Management Plan

Following approval of the Final Project-Specific WQMP, three copies of the approved WQMP (including BMP Exhibit, Operations and Maintenance (O&M) Plan, and Appendices) shall be submitted. In addition, these documents shall be submitted in a PDF format.

Each approved WQMP (including BMP Exhibit, Operations and Maintenance (O&M) Plan, and Appendices) shall be recorded in the Orange County Clerk-Recorder's Office, prior to close-out of grading and/or building permit. Educational Materials are not required to be included.

Section VII Educational Materials

Refer to the Orange County Stormwater Program (ocwatersheds.com) for a library of materials available. Please only attach the educational materials specifically applicable to this project. Other materials specific to the project may be included as well and must be attached.

Education Materials						
Residential Material (http://www.ocwatersheds.com)	Check If Applicable	Business Material (http://www.ocwatersheds.com)	Check If Applicable			
The Ocean Begins at Your Front Door		Tips for the Automotive Industry				
Tips for Car Wash Fund-raisers		Tips for Using Concrete and Mortar				
Tips for the Home Mechanic		Tips for the Food Service Industry				
Homeowners Guide for Sustainable Water Use		Proper Maintenance Practices for Your Business				
Household Tips			Check If			
Proper Disposal of Household Hazardous Waste		Other Material	Attached			
Recycle at Your Local Used Oil Collection Center (North County)						
Recycle at Your Local Used Oil Collection Center (Central County)						
Recycle at Your Local Used Oil Collection Center (South County)						
Tips for Maintaining a Septic Tank System						
Responsible Pest Control						
Sewer Spill						
Tips for the Home Improvement Projects						
Tips for Horse Care						
Tips for Landscaping and Gardening						
Tips for Pet Care						
Tips for Pool Maintenance						
Tips for Residential Pool, Landscape and Hardscape Drains						
Tips for Projects Using Paint						