City of Rancho Cucamonga ENGINEERING SERVICES DEPARTMENT

10500 Civic Center Dr., Rancho Cucamonga, CA 91730 Tel: (909) 477-2740 https://www.cityofrc.us/cityhall/engineering/landev/default.asp

INFORMATION FOR WATER QUALITY MANAGEMENT PLAN NON-PRIORITY SINGLEFAMILY RESIDENTIAL PROJECTS

The current adopted edition of the Technical Guidance Document for Water Quality Management Plans (TGD-WQMP), WQMP Template as required under State Water Resources Control Board Requirements Section XI.D.2 of Order No R8-2010-0036 was approved on June 21, 2013 and implemented on September 19, 2013.

The regulation also requires that the WQMP document is prepared by a professional Civil Engineer. This handout is to help guide the Civil Engineer for approval of the document through the City of Rancho Cucamonga



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WATER QUALITY MANAGEMENT PLAN (WQMP) for

Non-Priority Single Family Residential Projects

Background:

All City of Rancho Cucamonga new development and re-development projects such as a new custom single family house or a residential addition to a single-family house, are required to comply with the Santa Ana Regional Water Quality Control Board (RWQCB) Water Quality Management Plan (WQMP), and incorporate post-construction Best Management Practices (BMPs).

This form has been created for the express purpose of use for a Non-Priority Single Family Residential Project. For further and more complete information and reference to section numbers, please refer to the Santa Ana, Appendix B - WQMP Template (editable) Final document online at:

http://cms.sbcounty.gov/dpw/Land/WQMPTemplatesandForms.aspx

Project Requirements Checklist:

- 1. The project is for only one single-family detached house (as approved through the Planning Department).
- 2. Project Owner Certification (Complete and sign form).
- 3. Confirm that project is a Non-Priority Single Family Residential Project (see Form 2.1-1).
- 4. Complete attached Sections 1 and 2.
- 5. Attach a sheet of paper with Site Design and Source Control Best Management Practices (BMPs) incorporated in this project and address Operation and Maintenance Plans (See SAMPLE attached).

Disclaimer:

The City of Rancho Cucamonga is providing this handout for your use and convenience in preparing a WQMP for a residential Single-Family Non-Priority Project. The standards laid out in the approved Model WQMP Technical Guidance document will, at all times, supersede the text in this document. For a copy of the Model WQMP Guidance document visit:

http://cms.sbcounty.gov/dpw/Land/WQMPTemplatesandForms.aspx



PROJECT OWNER'S CERTIFICATION

This Water Quality Management Plan (WQMP) has been prepared for Inc. The WQMP is intended to comply with the requirements of the City of Rancho Cucamonga and the NPDES Areawide Stormwater Program requiring the preparation of a WQMP. The undersigned, while it owns the subject property, is responsible for the implementation of the provisions of this plan and will ensure that this plan is amended as appropriate to reflect up-to-date conditions on the site consistent with San Bernardino County's Municipal Storm Water Management Program and the intent of the NPDES Permit for San Bernardino County and the incorporated cities of San Bernardino County within the Santa Ana Region. Once the undersigned transfers its interest in the property, its successors in interest and the city/county shall be notified of the transfer. The new owner will be informed of its responsibility under this WQMP. A copy of the approved WQMP shall be available on the subject site in perpetuity.

"I certify under a penalty of law that the provisions (implementation, operation, maintenance, and funding) of the WQMP have been accepted and that the plan will be transferred to future successors."

Project Data									
Permit/Application Number(s): WQMP 2022-00021			Grading Permit Number(s):	PTR 2022-00021					
Tract/Parcel Ma Number(s):	ap		Building Permit Number(s):						
CUP, SUP, and/o	or APN (Sp	pecify Lot Numbers if Porti	ons of Tract):						
		1	Owner's Signature						
Owner Nam	ne:								
Title	Owner								
Company									
Address	3. 6								
Email	Email Email								
Telephone #	Telephone #								
Signature			Date						



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ALTERNATION OF		Project Data	
Permit/Applica Number(s):	wQMP 2022-00021	Grading Permit Number(s):	PTR 2022-00021
Tract/Parcel M Number(s):	ар	Building Permit Number(s):	
CUP, SUP, and/	or APN (Specify Lot Numbers if Port	tions of Tract):	
		Owner's Signature	1
Owner Nan	ne:		
Title	Owner		
Company			
Address			
Email			
T-1			
Telephone #			



SECTION 1 Discretionary Permit(s)

Form 1-1 Project Information								
Project Name	Single Family ho	ome						
Project Owner Contact Name:								
Mailing Address:		E-mail Address:		Telephone:				
Permit/Application Number(s):	WQMP 2022-00021		Tract/Parcel Map Number(s):					
Additional Information/ Comments:		24						
This project is for the construction of a single family home and detached ADU within a vacant lot near Red Hill Country Club Drive and Rancheria Rd. The site will also improve Red Hill Country Club Drive which is currently missing improved and only has basic road features such as asphalt and utilities. The impervious areas for the site are 721 SF (existing) and 4,854 SF (proposed).								



SECTION 2 PROJECT DESCRIPTION

2.1 Project Information

This section of the WQMP should provide the information listed below. The information provided for Conceptual/ Preliminary WQMP should give sufficient detail to identify the major proposed site design and LID BMPs and other anticipated water quality features that impact site planning. Final Project WQMP must specifically identify all BMP incorporated into the final site design and provide other detailed information as described herein.

The purpose of this information is to help determine the applicable development category, pollutants of concern, watershed description, and long term maintenance responsibilities for the project, and any applicable water quality credits. This information will be used in conjunction with the information in Section 3, Site Description, to establish the performance criteria and to select the LID BMP or other BMP for the project or other alternative programs that the project will participate in, which are described in Section 4.

Form 2.1-1 Description of Proposed Project									
1 Development Category (Select all that apply):									
Significant redevelopment involving addition or replacement 5,000 ft ² or more of impervious surface on already developed site	nt of an	involvin ft ² or m	v development g the creation of 10,000 ore of impervious collectively over entire	Automotive repair shops with standard industrial classification (SIC) codes 5013, 5014, 5541, 7532- 7534, 7536-7539		Restaurants (with SIC code 5812) where the land area of development is 5,000 ft ² or more			
Hillside developments of 5,000 ft² or more which are located on areas with known erosive soil conditions or where the natural slope is 25 percent or more Or wat CWA S		of impe adjacen discharg environ or wate CWA Se	Developments of 2,500 ft ² of impervious surface or more adjacent to (within 200 ft) or discharging directly into environmentally sensitive areas or waterbodies listed on the CWA Section 303(d) list of impaired waters.		Parking lots of 5,000 ft ² or more exposed to storm water		that a more, avera	Retail gasoline outlets re either 5,000 ft ² or or have a projected ge daily traffic of 100 re vehicles per day	
Non-Priority / No jurisdiction on specific req			May require source control	LID BM	Ps and other LIP I	requiremei	nts. Pleas	se consult with local	
Project Area (ft2):	11,272	SF	3 Number of Dwelling U	Inits:	2	4 SIC C	ode:	1521	
Is Project going to be phased? Yes No X If yes, ensure that the WQMP evaluates each phase as a distinct DA, requiring LID BMPs to address runoff at time of completion.									
Does Project include Appendix A of TGD for WG		es No	X If yes, ensure that appli	c <mark>able re</mark> c	quirements for tr	ansportati	on projec	cts are addressed (see	



SECTION 2 PROJECT DESCRIPTION

2.2 Property Ownership / Management

Describe the ownership/management of all portions of the project and site. State whether any infrastructure will transfer to public agencies (City, County, Caltrans, etc.) after project completion. State if a homeowners or property owners association will be formed and be responsible for the long-term maintenance of project stormwater facilities. Describe any lot-level stormwater features that will be the responsibility of individual property owners.

Form 2.2-1 Property Ownership/Management
Describe property ownership/management responsible for long-term maintenance of WQMP stormwater facilities:
Property Owner:
Property Address:
Owner Mailing: Address:
Owner Telephone Number: Owner Email Address:



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SECTION 2 PROJECT DESCRIPTION

2.3 Potential Stormwater Pollutants

Determine and describe expected stormwater pollutants of concern based on land uses and site activities (refer to Table 3-3 in the TGD for WQMP).

Form 2.3-1 Pollutants of Concern								
Pollutant	Please check: E=Expected, N=Not Expected		Additional Information and Comments					
Pathogens (Bacterial / Virus)	E 🖂	N	Santa Ana River Reach 3					
Nutrients - Phosphorous	E 🖂	N 🗌	Santa Ana River Reach 3					
Nutrients - Nitrogen	E 🛚	N 🗌	Santa Ana River Reach 3					
Noxious Aquatic Plants	E⊠	N 🗌	Santa Ana River Reach 3					
Sediment	E⊠	N 🗌	Santa Ana River Reach 3					
Metals	E 🗌	N⊠	Santa Ana River Reach 3					
Oil and Grease	E 🛛	N 🗌	Santa Ana River Reach 3					
Trash/Debris	E 🖾	И	Santa Ana River Reach 3					
Pesticides / Herbicides	E⊠	N 🗌	Santa Ana River Reach 3					
Organic Compounds	E 🖾	N 🗌	Santa Ana River Reach 3					
Other: Oxygen Demanding Compounds	E 🛚	N 🗌	Santa Ana River Reach 3					
Other:	E 🗌	N 🗌						
Other:	Е	N 🗌						



SECTION 3 SITE AND WATERSHED DESCRIPTION

Describe the project site conditions that will facilitate the selection of BMP through an analysis of the physical conditions and limitations of the site and its receiving waters. Identify distinct drainage areas (DA) that collect flow from a portion of the site and describe how runoff from each DA (and sub-watershed DMAs) is conveyed to the site outlet(s). Refer to Section 3.2 in the TGD for WQMP. The form below is provided as an example. Then complete Forms 3.2 and 3.3 for each DA on the project site. If the project has more than one drainage area for stormwater management, then complete additional versions of these forms for each DA / outlet.

Form 3-1 Site Location and Hydrologic Features									
Site coordinates take GPS measurement at approximate of site	e center	Latitude 34.10389 Longitude 117.62639		Thomas Bros Map page					
1 San Bernardino County	climatic re	egion: X Valley Mountai	in						
conceptual schematic describ	ing DMAs	e drainage area (DA): Yes Nand hydrologic feature connecting Diving clearly showing DMA and flow r	OMAs to the site outlet(s). An examp	the test to the te					
Outlet 1 DA1 DMA A									
Conveyance	Briefly o	describe on-site drainage feature	es to convey runoff that is not r	etained within a DMA					
DA1 DMA A FLOWS TO OUTLET 1	The site is generally flat and has a proposed area aram system which concess storm water from								
water and be stored for future use.									



SECTION 3 SITE AND WATERSHED DESCRIPTION

Form 3-2 Existing Hydrologic Characteristics for Drainage Area 1							
For Drainage Area 1's sub-watershed DMA, provide the following characteristics	DMA A						
DMA drainage area (ft²) (Lot Area)	11,272						
2 Existing site impervious area (ft²) (if Impervious Area > 2,000 SF)	721						
Antecedent moisture condition For desert areas, use http://www.sbcounty.gov/dpw/floodcontrol/pdf/2 0100412 map.pdf	1						
4 Hydrologic soil group Refer to Watershed Mapping Tool – http://permitrack.sbcounty.gov/wap/	A						
5 Longest flowpath length (ft)	251						
6 Longest flowpath slope (ft/ft)	.024						
7 Current land cover type(s) Select from Fig C-3 of Hydrology Manual	Residential						
8 Pre-developed pervious area condition: Based on the extent of wet season vegetated cover good >75%; Fair 50-75%; Poor <50% Attach photos of site to support rating	Poor						

NOTE: If the property owner requires assistance filling out this form, please contact the Engineering Services Department at (909) 477-2740.



SECTION 3 SITE AND WATERSHED DESCRIPTION

Form 3-3 Watershed Description for Drainage Area							
Receiving waters Refer to Watershed Mapping Tool - http://permitrack.sbcounty.gov/wap/ See 'Drainage Facilities'' link at this website	Santa Ana River Reach 3						
Applicable TMDLs Refer to Local Implementation Plan	Pathogens						
303(d) listed impairments Refer to Local Implementation Plan and Watershed Mapping Tool – http://permitrack.sbcounty.gov/wap/ and State Water Resources Control Board website – http://www.waterboards.ca.gov/santaana/water_iss ues/programs/tmdl/index.shtml	Pathogens						
Environmentally Sensitive Areas (ESA) Refer to Watershed Mapping Tool – http://permitrack.sbcounty.gov/wap/	None						
Unlined Downstream Water Bodies Refer to Watershed Mapping Tool – http://permitrack.sbcounty.gov/wap/	Yes						
Hydrologic Conditions of Concern	Yes Complete Hydrologic Conditions of Concern (HCOC) Assessment. Include Forms 4.2-2 through Form 4.2-5 and Hydromodification BMP Form 4.3-10 in submittal No						
Watershed–based BMP included in a RWQCB approved WAP	Yes Attach verification of regional BMP evaluation criteria in WAP • More Effective than On-site LID • Remaining Capacity for Project DCV • Upstream of any Water of the US • Operational at Project Completion • Long-Term Maintenance Plan						



SECTION 4 BEST MANAGEMENT PRACTICES (BMP)

4.1 Source Control BMP

4.1.1 Pollution Prevention

Non-structural and structural source control BMP are required to be incorporated into all new development and significant redevelopment projects. Form 4.1-1 and 4.1-2 are used to describe specific source control BMPs used in the WQMP or to explain why a certain BMP is not applicable. Table 7-3 of the TGD for WQMP provides a list of applicable source control BMP for projects with specific types of potential pollutant sources or activities. The source control BMP in this table must be implemented for projects with these specific types of potential pollutant sources or activities.

The preparers of this WQMP have reviewed the source control BMP requirements for new development and significant redevelopment projects. The preparers have also reviewed the specific BMP required for project as specified in Forms 4.1-1 1 and 4.1-2. All applicable non-structural and structural source control BMP shall be implemented in the project.



Form 4.1-1 Non-Structural Source Control BMPs								
	Name	Check One		Describe BMP Implementation OR,				
Identifier	Name	Included	Not Applicable	if not applicable, state reason				
N1	Education of Property Owners, Tenants and Occupants on Stormwater BMPs	\boxtimes		See Attachment				
N2	Activity Restrictions		\boxtimes	This is a residential use				
N3	Landscape Management BMPs		\boxtimes	This is a residential use				
N4	BMP Maintenance		\boxtimes	Structural BMPs are not proposed for this residential use				
N5	Title 22 CCR Compliance (How development will comply)		\boxtimes	Compliance is part of the building review				
N6	Local Water Quality Ordinances	\boxtimes		This is a residential use				
N7	Spill Contingency Plan		\boxtimes	This is a residential use				
N8	Underground Storage Tank Compliance		\boxtimes	This is a residential use				
N9	Hazardous Materials Disclosure Compliance		\boxtimes	This is a residential use				



	Form 4.1-1 Non-Structural Source Control BMPs								
	• • •	Check One		Describe BMP Implementation OR,					
Identifier	Name	Included	Not Applicable	if not applicable, state reason					
N10	Uniform Fire Code Implementation	\boxtimes		This is included in the building plan review and permit					
N11	Litter/Debris Control Program	\boxtimes		This is a residential use					
N12	Employee Training		\boxtimes	This is a residential use					
N13	Housekeeping of Loading Docks		\boxtimes	This is a residential use					
N14	Catch Basin Inspection Program		\boxtimes	This is a residential use					
N15	Vacuum Sweeping of Private Streets and Parking Lots		\boxtimes	This is a residential use					
N16	Other Non-structural Measures for Public Agency Projects		\boxtimes	This is a residential use					
N17	Comply with all other applicable NPDES permits		\boxtimes	This is a residential use					



Form 4.1-2 Structural Source Control BMPs								
			ck One	Describe BMP				
Identifier	Name	Included	Not Applicable	Implementation OR, If not applicable, state reason				
S1	Provide storm drain system stencilling and signage (CASQA New Development BMP Handbook SD-13)		\boxtimes	This is a residential use				
S2	Design and construct outdoor material storage areas to reduce pollution introduction (CASQA New Development BMP Handbook SD-34)		\boxtimes	This is a residential use				
\$3	Design and construct trash and waste storage areas to reduce pollution introduction (CASQA New Development BMP Handbook SD-32)		\boxtimes	This is a residential use				
S4	Use efficient irrigation systems & landscape design, water conservation, smart controllers, and source control (Statewide Model Landscape Ordinance; CASQA New Development BMP Handbook SD-12)	\boxtimes		This is a residential use				
\$5	Finish grade of landscaped areas at a minimum of 1-2 inches below top of curb, sidewalk, or pavement	\boxtimes		This is a residential use				
\$6	Protect slopes and channels and provide energy dissipation (CASQA New Development BMP Handbook SD-10)		\boxtimes	This is a residential use				
\$7	Covered dock areas (CASQA New Development BMP Handbook SD-31)		\boxtimes	This is a residential use				
\$8	Covered maintenance bays with spill containment plans (CASQA New Development BMP Handbook SD-31)		\boxtimes	This is a residential use				
\$9	Vehicle wash areas with spill containment plans (CASQA New Development BMP Handbook SD-33)		\boxtimes	This is a residential use				
S10	Covered outdoor processing areas (CASQA New Development BMP Handbook SD-36)		\boxtimes	This is a residential use				



Form 4.1-2 Structural Source Control BMPs					
Identifier	Name	Check One		Describe BMP Implementation OR,	
		Included	Not Applicable	If not applicable, state reason	
S11	Equipment wash areas with spill containment plans (CASQA New Development BMP Handbook SD-33)		\boxtimes	This is a residential use	
S12	Fueling areas (CASQA New Development BMP Handbook SD-30)		\boxtimes	This is a residential use	
S13	Hillside landscaping (CASQA New Development BMP Handbook SD- 10)		\boxtimes	This is a residential use	
S14	Wash water control for food preparation areas		\boxtimes	This is a residential use	
S15	Community car wash racks (CASQA New Development BMP Handbook SD-33)			This is a residential use	



SECTION 4 BEST MANAGEMENT PRACTICES (BMP)

4.1.2 Preventative LID Site Design Practices

Site design practices associated with new LID requirements in the MS4 Permit should be considered in the earliest phases of a project. Preventative site design practices can result in smaller DCV for LID BMP and hydromodification control BMP by reducing runoff generation. Describe site design and drainage plan including:

- A narrative of site design practices utilized or rationale for not using practices
- A narrative of how site plan incorporates preventive site design practices
- Include an attached Site Plan layout which shows how preventative site design practices are included in WQMP

Refer to Section 5.2 of the TGD for WQMP for more details.

Form 4.1-3 Preventative LID Site Design Practices Checklist
Site Design Practices If yes, explain how preventative site design practice is addressed in project site plan. If no, other LID BMPs must be selected to meet targets
Minimize impervious areas: Yes \(\subseteq \) No \(\subseteq \) Explanation: This is a residential use
Maximize natural infiltration capacity: Yes No Explanation: This is a residential use
Preserve existing drainage patterns and time of concentration: Yes 🔀 No 🗌 Explanation: This is a residential use
Disconnect impervious areas: Yes No Explanation: This is a residential use
Protect existing vegetation and sensitive areas: Yes No Explanation: This is a residential use
Re-vegetate disturbed areas: Yes No Explanation: This is a residential use
Minimize unnecessary compaction in stormwater retention/infiltration basin/trench areas: Yes \(\subseteq\) No \(\subseteq\) Explanation: This is a residential use. Structural BMPs are not used.
Utilize vegetated drainage swales in place of underground piping or imperviously lined swales: Yes \square No \boxtimes Explanation: This is a residential use. Structural BMPs are not used.
Stake off areas that will be used for landscaping to minimize compaction during construction: Yes \(\subseteq \text{No } \subseteq \) Explanation: This is a residential use. Structural BMPs are not used.