

Section A.1.b.4. (a) and (b)						
PERMIT ELEMENT (Feb 5, 2013 Final)	Permit Compliance Year (June 30th Unless Otherwise Noted)	Permit Year	Responsible Implementing Party		COMMENTS	
			Local MS4 Department	SIE or Regional Organization		
F.5.a.1	Legal Authority					
	Review, revise or adopt new relevant policies, contractual provisions, base orders, resolutions or other regulatory mechanisms to ensure legal authority	2015	2	Office of Campus Counsel		
	Reporting - Submit a statement signed by legal counsel and an authorized signatory certifying that Permittee has adequate legal authority to comply with all Order requirements	2015	2	Office of Campus Counsel; Legally Responsible Party (Associate Vice Chancellor, Facilities)		
F.5.b.	EDUCATION AND OUTREACH PROGRAM					
F.5.b.1	Compliance Participation Options					
	Select outreach option: (a) Contributing to countywide program; (b) Contributing to regional education and outreach collaborative effort; or (c) Fulfilling education and outreach requirements within jurisdictional boundaries. Some level of coordination of efforts with an adjacent Phase I MS4 permittee is recommended/ anticipated for watershed/ region-wide consistency; or (d) a combination of (a) - (c).	2014	1	Legally Responsible Party (Associate Vice Chancellor, Facilities); Environmental Health & Safety		
	Reporting - Submit information indicating which compliance participation option will be used. If contributing to countywide or regional programs, include written agreements, letters or similar documents confirming collaboration with other MS4s.	2014	1	Environmental Health & Safety		
F.5.b.2	Public Education and Outreach					
	Develop and implement comprehensive education and outreach program	2015	2	Environmental Health & Safety; Housing, Dining & Residential Services		
	Disseminate education materials to target audiences and translate as appropriate	2015	2	Environmental Health & Safety; Housing, Dining & Residential Services; Highlander Union Building; UCR Extension		
	Provide water efficient/ stormwater friendly landscaping information	2015	2	Environmental Health & Safety; Physical Plant Operations-Grounds; UCR Extension		
	Promote reporting of illicit discharges	2015	2	Environmental Health & Safety; Physical Plant Operations-Grounds; Physical Plant Operations-Plumbing; Housing, Dining & Residential Services; Highlander Union Building; UCR Extension		
	Provide pesticide/fertilizer application information			Environmental Health & Safety; Physical Plant Operations-Grounds; UCR Extension		
	Provide materials to school children	2015	2	Housing, Dining & Residential Services Environmental Health & Safety		
F.5.b.3	Staff and Site Operator Training and Education: Illicit Discharge Detection and Elimination Training					
	Develop and implement a training program for staff who, as part of their normal job responsibilities, may be notified of, come into contact with, or otherwise observe an illicit discharge or illegal connection to the storm drain system. The training program shall include at minimum: a) Identification of an illicit discharge or illegal connection b) Proper procedures for reporting/responding c) Follow-up training d) Annual assessment of trained staff's knowledge of illicit discharge response and provide refresher training as needed e) Training of new staff f) Contact info, including the procedure for reporting illicit discharge, shall be included in all fleet vehicles used by field staff	2016	3	Environmental Health & Safety; Physical Plant Operations-Grounds; UCR Extension; Physical Plant Operations-Plumbing; Housing, Dining & Residential Services; Highlander Union Building; UCR Extension		
F.5.b.4	Staff Pollution Prevention and Good Housekeeping Training					

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			Local MS4 Department	SIE or Regional Organization		
Provide a biennial training program for employees involved in implementing Pollution Prevention/Good Housekeeping for Permittee Operations sections of this Permit. Biennial training shall include the following: a) General storm water education component, new technologies, operations, responsibilities, or permit requirements; clear guidance on appropriate BMPs to use during typical O&M activities b) Assessment of trained staff's knowledge of pollution prevention and good housekeeping and shall revise the training as needed c) Requirement that any contractors hired to perform O&M activities shall be contractually required to comply with all storm water BMPs, good housekeeping practices, and SOPs described above d) Shall provide oversight of contractor activities to ensure that contractors are using appropriate BMPs, good housekeeping practices and following SOPs	2015	2	Environmental Health & Safety; Physical Plant Operations-Grounds; UCR Extension; Physical Plant Operations-Plumbing; Housing, Dining & Residential Services; Highlander Union Building; UCR Extension			
F.5.c PUBLIC INVOLVEMENT AND PARTICIPATION PROGRAM						
Involve the public in the development and implementation of activities related to the program. At a minimum:	2016	3	Environmental Health & Safety			
Ensure high priority storm drain inlets include a labeled, stenciled or other effective method of communicating a storm water awareness message	2016	3	Environmental Health & Safety; Physical Plant Operations; Housing, Dining & Residential Services; Highlander Union Building; UCR Extension			
Integrate storm water awareness messages and info on a publicly accessible website	2016	3	Environmental Health & Safety			
F.5.d ILLICIT DISCHARGE DETECTION AND ELIMINATION						
F.5.d.1 Outfall Mapping						
Create and maintain accurate outfall map including a site visit to each outfall. Recommended the Permittee coordinate with an adjacent Phase I MS4 Permittee to collect outfall data for which they may discharge to.	2015 (Summer 2014)	2	Environmental Health & Safety; Capital Resource Management			
F.5.d.2 Field Sampling to Detect Illicit Discharges						
Sample any flowing outfalls while conducting F.5.d.1	2015 (Summer 2014)	2	Environmental Health & Safety			
Conduct followup investigation within 72 hours if action levels exceeded	2015 (Summer 2014)	2	Environmental Health & Safety; Physical Plant Operations-Plumbing; Physical Plant Operations-Grounds; UCR Extension; Housing, Dining & Residential Services			
F.5.d.3 Illicit Discharge Detection and Elimination Source Investigations and Corrective Actions						
Develop written procedures for investigations to identify and locate within 72 hours, for and corrective actions	2015 (Summer 2014)	2	Environmental Health & Safety; Physical Plant Operations-Plumbing; Physical Plant Operations-Grounds; UCR Extension; Housing, Dining & Residential Services; Highlander Union Building; UCR Extension			
Once source of discharge is identified, immediately notify responsible party	2015 (Summer 2014)	2	Environmental Health & Safety; Physical Plant Operations-Plumbing; Physical Plant Operations-Grounds; UCR Extension; Housing, Dining & Residential Services; Highlander Union Building; UCR Extension			
Report immediately to downstream MS4 a non-storm water discharge suspected of being sanitary sewage and/or significantly contaminated	2015 (Summer 2014)	2	Environmental Health & Safety			
F.5.e CONSTRUCTION SITE STORM WATER RUNOFF CONTROL PROGRAM						
Develop and implement and enforce program to prevent construction site discharges of pollutants. Include development of contract language requiring compliance with Construction General Permit	2014	1	Design & Construction; Environmental Health & Safety			
F.5.f POLLUTION PREVENTION/GOOD HOUSEKEEPING FOR PERMITTEE OPERATIONS PROGRAM						
F.5.f.1 Inventory of Permittee-Owned and Operated Facilities						
Develop and maintain inventory of permittee owned or operated facilities that are a potential threat to water quality	2015	2	Environmental Health & Safety; Physical Plant Operations; Housing, Dining & Residential Services; Highlander Union Building; UCR Extension			
F.5.f.2 Map of Permittee-Owned or Operated Facilities						
Develop a map of inventoried facilities that identifies the drainage system corresponding to each of the facilities, and shows the manager of each facility incl contact info	2015	2	Environmental Health & Safety; Capital Resource Management; Physical Plant Operations; Housing, Dining & Residential Services; Highlander Union Building; UCR Extension			

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			Local MS4 Department	SIE or Regional Organization		
F.5.f.3	Facility Assessment					
	Conduct annual review and assessment and identify pollutant hotspots with high potential to generate storm water pollutants and non-storm water pollutants	2016	3	Physical Plant Operations; Housing, Dining & Residential Services; Highlander Union Building; UCR Extension; Environmental Health & Safety		
	Document assessment procedures and results, along with copies of site evaluation checklists used to conduct the assessment	2016	3	Physical Plant Operations; Housing, Dining & Residential Services; Highlander Union Building; UCR Extension; Environmental Health & Safety		
F.5.f.4	Stormwater Pollution Prevention Plans					
	Develop and implement SWPPPs for pollutant hotspots at high priority sites; the SWPPPs shall be kept on-site at each of the facilities for which it was completed, shall be updated as necessary, and at a minimum will address the following: 1) Site location 2) Purpose of the document 3) Key staff/contacts at the location 4) Site map with drainage identified 5) Identification of significant materials that are handled and stored at the site that may be exposed to storm water 6) Description of any potential pollutant sources 7) BMPs employed at the site 8) Spill control and cleanup - response to spills	2017	4	Physical Plant Operations; Housing, Dining & Residential Services; Highlander Union Building; UCR Extension; Environmental Health & Safety		
F.5.f.5	Inspections, Visual Monitoring and Remedial Action					
	Conduct quarterly hotspot visual inspections in accordance with SOPs to ensure materials and equipment are clean and orderly, to minimize potential for pollutant discharge, and to ensure implementation of BMPs - Inspections may be incorporated into existing, routine facility inspections; inspections shall be tracked in a log for every facility and records kept with the SWPPP. The inspection report shall also include any identified deficiencies and corrective actions taken	2018	5	Physical Plant Operations; Housing, Dining & Residential Services; Highlander Union Building; UCR Extension		
	Quarterly hotspot comprehensive inspections including all storm water BMPs, with specific attention paid to specified pollutant generating areas. Inspection results shall be documented and records kept with the SWPPPs. Inspections shall be conducted in accordance with SOPs; may be incorporated into existing, routine facility inspections. Inspection reports shall include any identified deficiencies and corrective actions taken	2018	5	Physical Plant Operations; Housing, Dining & Residential Services; Highlander Union Building; UCR Extension		
	Quarterly hotspot visual observation of storm water and non-stormwater discharges - Observe discharge location from hotspot facilities, identify any observed problems (e.g., color, foam, sheen, turbidity) and remedy within 7 days or before next storm event whichever is sooner. Visual observations shall be documented and records kept with the SWPPPs. Inspections shall be done in accordance with SOPs; may be incorporated into existing, routine facility inspections. Inspection reports shall include any identified deficiencies and corrective actions taken	2018	5	Physical Plant Operations; Housing, Dining & Residential Services; Highlander Union Building; UCR Extension		
	Non-hotspot inspections - At a minimum, inspect each inventoried location that is not a hotspot once during the permit term. The non-hotspot inspections shall investigate and assess each of the items described in the quarterly hotspot observations and inspections	2018	5	Physical Plant Operations; Housing, Dining & Residential Services; Highlander Union Building; UCR Extension		
F.5.f.6	Storm Drain System Assessment and Prioritization					
	Develop and implement procedures to assess and prioritize storm drain system facilities for cleanup; assign a priority to all facilities based on accumulation of sediment, trash and/or debris	2015	2	Physical Plant Operations-Plumbing; Physical Plant Operations-Grounds		
	Assign high priority to to all catch basins meeting specified criteria	2015	2	Physical Plant Operations-Plumbing; Physical Plant Operations-Grounds		
F.5.f.7	Maintenance of Storm Drain System					
	Develop a strategy to inspect storm drain systems based on assigned priorities. Inspect all high priority catch basins annually prior to rainy season	2016	3	Physical Plant Operations-Plumbing; Physical Plant Operations-Grounds		

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			Local MS4 Department	SIE or Regional Organization	
Develop/implement schedule to clean high priority catch basins and other systems based on priority areas, with higher priority areas receiving more frequent maintenance	2016	3	Physical Plant Operations-Plumbing; Physical Plant Operations-Grounds		
Visually monitor open channels, detention basins and other drainage structures for debris at least once per year and identify/prioritize problem areas. At minimum, removal of trash and debris shall occur annually	2016	3	Physical Plant Operations-Plumbing; Physical Plant Operations-Grounds		
Develop procedure to dewater and dispose of waste materials extracted from catch basins to ensure that water removed during cleaning process and waste material will not reenter the MS4	2016	3	Physical Plant Operations-Plumbing; Physical Plant Operations-Grounds		
F.5.f.8	Permittee Operations and Maintenance Activities (O&M)				
Develop program to assess O&M activities for potential to discharge pollutants in storm water, and inspect all O&M BMPs quarterly	2016	3	Physical Plant Operations; Housing, Dining & Residential Services; Highlander Union Building; UCR Extension; Environmental Health & Safety		
The O&M activities assessment shall include, but not be limited to, the potential to discharge pollutants in storm water	2016	3	Physical Plant Operations; Housing, Dining & Residential Services; Highlander Union Building; UCR Extension; Environmental Health & Safety		
Identify all materials that could be discharged from each of these O&M activities	2016	3	Physical Plant Operations; Housing, Dining & Residential Services; Highlander Union Building; UCR Extension; Environmental Health & Safety		
Use the CASQA Municipal Handbook or equivalent to develop and implement a set of BMPs that, when applied during O&M activities, will reduce the discharge of pollutants in storm water	2016	3	Physical Plant Operations; Housing, Dining & Residential Services; Highlander Union Building; UCR Extension; Environmental Health & Safety		
Evaluate annually all BMPs implemented during O&M activities	2016	3	Physical Plant Operations; Housing, Dining & Residential Services; Highlander Union Building; UCR Extension; Environmental Health & Safety		
F.5.f.9	Pesticide, Herbicide, and Fertilizer Application and New Landscape Design and Maintenance Management				
Implement a landscape design and maintenance program to reduce the amount of pesticides, herbicides and fertilizers used on new or decorative landscapes	2015	2	Physical Plant Operations-Grounds; UCR Extension; Housing, Dining & Residential Services; Environmental Health & Safety		
Educate applicators and distributors of storm water issues	2015	2	Physical Plant Operations-Grounds; UCR Extension; Housing, Dining & Residential Services; Environmental Health & Safety		
Implement integrated pest management measures that rely on non-chemical solutions including those specified	2015	2	Physical Plant Operations-Grounds; UCR Extension; Housing, Dining & Residential Services; Environmental Health & Safety		
Collect and properly dispose of unused chemicals	2015	2	Physical Plant Operations-Grounds; UCR Extension; Housing, Dining & Residential Services; Environmental Health & Safety		
Minimize irrigation run-off	2015	2	Physical Plant Operations-Grounds; UCR Extension; Housing, Dining & Residential Services; Environmental Health & Safety		
F.5.g	POST CONSTRUCTION STORMWATER MANAGEMENT PROGRAM				
F.5.g.1	Site Design Measures				
Require implementation of site design measures on projects that create and/or replace 2,500-5,000 SF impervious surface	2015	2	Capital Resource Management; Design & Construction		
F.5.g.2	Low Impact Development (LID) Design Standards				
Implement LID design standards on projects that create and/or replace >5,000 SF impervious surface (Regulated Projects). Require measures for site design, source control, runoff reduction, treatment and baseline hydromodification management to meet numeric sizing criteria under F.5.g.2.b	2015	2	Capital Resource Management; Design & Construction		
Roads, sidewalks, bicycle lanes creating 5,000 sf or more shall comply with LID except 85th% can follow EPA Guidance on green infrastructure	2015	2	Capital Resource Management; Design & Construction		
F.5.g.2.a.	Source Control Measures				
Require Regulated Projects to implement standard permanent and/or operational source control BMPs as applicable for specified pollutant-generating activities and sources	2015	2	Capital Resource Management; Design & Construction		
F.5.g.2.b.	Numeric Sizing Criteria for Storm Water Retention and Treatment				

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Require facilities designed to evapotranspire, infiltrate, harvest/use, and biotreat storm water to meet at least one of the following hydraulic sizing design criteria: (1) Volumetric, or (2) Flow-based	2015	2	Capital Resource Management; Design & Construction			
(1) Volumetric Criteria: a) The maximized capture storm water volume for the tributary area, on the basis of historical rainfall records, determined using the formula and volume capture coefficients in Urban Runoff Quality Management, WEF Manual of Practice No. 23/ASCE Manual of Practice No. 87 (1998) pages 175-178 (that is, 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 in Section 5 of CASQA's Stormwater Best Management Practice Handbook, New Development and Redevelopment (2003), using local rainfall data.	2015	2	Capital Resource Management; Design & Construction			
(2) Flow-based Criteria: a) The flow of runoff produced from a rain event equal to at least 0.2 inches per hour intensity; or b) The flow of runoff produced from a rain event equal to at least 2 times the 85th percentile hourly rainfall intensity as determined from local rainfall records.	2015	2	Capital Resource Management; Design & Construction			
F.5.g.2.c. Site Design Measures Numeric Sizing Criteria						
Site Design Measures shall be based on the objective of achieving infiltration, evapotranspiration and/or harvesting/reuse of the 85th percentile rainfall event, to the extent feasible, to meet Section F.5.g.2.b. Numeric Sizing Criteria for Storm Water Retention and Treatment	2015	2	Capital Resource Management; Design & Construction			
F.5.g.2.d. Storm Water Treatment Measures and Baseline Hydromodification Management Measures						
After implementation of Site Design Measures in F.5.g.2.c., runoff from remaining impervious DMAs must be directed to one or more facilities designed to infiltrate, evapotranspire, and/or biotreat the amount of runoff specified in F.5.g.2.b. Numeric Sizing Criteria for Storm Water Retention and Treatment. The facilities must be demonstrated to be at least as effective as a bioretention system with specified design parameters.	2015	2	Capital Resource Management; Design & Construction			
F.5.g.3 Alternative Post-Construction Storm Water Management Program						
May propose alternative post-construction measures in lieu of some or all Section F.5.g. for multiple benefit projects (address in addition to water quality: water supply, flood control, habitat enhancement, open space preserv, recreation, climate change). Regional Board or EO may approve, after opportunity for public comment, if found to be consistent with MEP standard.	No date provided - permittee may propose and submit for approval		Capital Resource Management; Design & Construction			
F.5.g.4 Operation and Maintenance of Post-Construction Stormwater Management Measures						
Implement an O&M Verification Program for Regulated Projects; at a minimum the O&M Verification Program shall include the following elements: c) Database or equivalent tabular format of all projects that have installed treatment systems that shall include the following info for each project: 1) Name and location of the project; 2) Specific description of the location (or map showing location) of installed treatment system(s) and hydromodification control(s) (if any) 3) Date treatment system(s) and hydromodification control(s) (if any) is/are installed 4) Description of the type/size 5) Responsible operators 6) Dates and findings of inspections 7) Any problems and corrective actions taken d) Maintenance Approvals: Permittee shall ensure that all systems and hydromodification controls installed at projects are properly operated and maintained for the life of the projects	2016	3	Capital Resource Management; Design & Construction; Physical Plant Operations; Housing, Dining & Residential Services; Highlander Union Building; UCR Extension; Environmental Health & Safety			
PROGRAM EFFECTIVENESS ASSESSMENT AND IMPROVEMENT						
F.5.h.1 Program Effectiveness Assessment and Improvement Plan						

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Submit PEAIIP plan modeled upon the most recent version (if applicable) Municipal Storm Water Program Effectiveness Assessment Guidance (CASQA, May 2007) or equivalent. The PEAIIP shall identify the strategy used to gauge the effectiveness of prioritized BMPs and program implementation as a whole. The effectiveness assessments will build upon each other from one year to the next and shall identify modifications to the program the Permittee must undertake to improve effectiveness.	2015	2	Environmental Health & Safety		
Include implementation of storm water program elements	2015	2	Environmental Health & Safety		
Include identification and targeting of Target Audience(s)	2015	2	Environmental Health & Safety		
F.5.h.2 Storm Water Program Modifications					
Based on information gained from effectiveness assessment, identify modifications to control measures/significant activities, including new BMPs or modification to existing BMPs for the next permit cycle. Permittee shall consult with Regional Water board in setting expectations for the scope, timing, and frequency of BMP modifications for the next permit cycle	2018	5	Environmental Health & Safety		
Improve upon BMPs that did not accomplish goals	2018	5	Environmental Health & Safety		
Continue and expand upon BMPs that proved to be effective, including identifying new BMPs or modifications to existing BMPs designed to increase pollutant load reductions	2018	5	Environmental Health & Safety		
Discontinue BMPs that may no longer be productive and replace with more effective BMPs	2018	5	Environmental Health & Safety		
Shift priorities to make more effective use of resources	2018	5	Environmental Health & Safety		
F.5.i TOTAL MAXIMUM DAILY LOADS COMPLIANCE REQUIREMENTS					
Comply with all approved TMDLs (Attachment G) No TMDL-specific permit requirements at this time	2014	1	No TMDL-specific permit requirements at this time		
Waste load allocations are incorporated herein by reference as enforceable parts of this Order. No TMDL-specific permit requirements at this time	2014	1	No TMDL-specific permit requirements at this time		
Regional Board reviews TMDLs within one year of effective date and may propose modifications to requirements No TMDL-specific permit requirements at this time	2014	1	No TMDL-specific permit requirements at this time		
Reports status of implementation via SMARTS No TMDL-specific permit requirements at this time	2014	1	No TMDL-specific permit requirements at this time		
Comply with Clean Water Act Sections 303d, 306b and 314 No TMDL-specific permit requirements at this time			No TMDL-specific permit requirements at this time		
F.5.j ANNUAL REPORTING PROGRAM					
Use SMARTS to report and certify online	2014-2018	all years	Environmental Health& Safety		
Complete and retain annual reports and make supporting documentation available to RWQCB during normal business hours	2014-2018	all years	Environmental Health& Safety		
Submit detailed written report or in-person presentation to RWQCB if requested	2014-2018	all years	Environmental Health& Safety		