

**Los Angeles County Municipal Storm Water Permit
Individual Annual Report Form
Attachment U-4**

ATTACHMENT V
MONITORING

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V. MONITORING

Storm water monitoring activities that are not required by Order No. 01-182:

Programs	Highlights	Status of the Programs
Ballona Creek Sediment TIE	The City conducted a Toxicity Identification Evaluation (TIE) for toxic sediments in the Ballona Creek Estuary as part of the Toxics TMDL Coordinated Monitoring Plan. This testing followed the methods developed by the Southern California Coastal Water Research Project (SCCWRP) in the previous reporting cycle. Similar to SCCWRP's findings, the City's TIE testing has shown that pyrethroid pesticides continue to be the primary cause of toxicity in the estuary sediments.	In progress
Ballona Creek Metals/Toxics TMDL Monitoring	The City has been contracted by the responsible agencies named in the Ballona Creek Metals/Toxics TMDL to conduct the field sampling and laboratory analysis for the Coordinated Monitoring Plan for wet and dry weather. Sampling was initiated in February 2009 and continues on a monthly basis. During the recent storm season (October 2011 through April 2012) additional sampling was conducted as part of a special pilot study to develop a standard operating procedure (SOP) for the collection and analysis of Storm-borne Sediments. This new procedure will be implemented in the upcoming storm season as part of the Toxics TMDL effectiveness monitoring program.	In progress
Ballona Creek Bacteria TMDL Monitoring	The City has been contracted by the responsible agencies named in the Ballona Creek Bacteria TMDL to conduct the field sampling, observations, and laboratory analysis for the Coordinated Monitoring Plan. Sampling was initiated in June 2009 and continues on a weekly basis throughout the Ambient monitoring period (until April 2013).	In progress
Los Angeles River Metals TMDL Monitoring	The City has been contracted by the responsible agencies named in the Los Angeles River Metals TMDL to conduct the field sampling and laboratory analysis for the Coordinated Monitoring Plan for wet and dry weather. Sampling was initiated in October 2008 and continues on a monthly basis.	In progress
Los Angeles River Water Effects Ratio Study	The City participated in the Los Angeles River Copper Water Effects Ratio (WER) study, which was conducted by Larry Walker & Associates, on behalf of the responsible agencies in the watershed. By incorporating additional sampling into WPD's routine TMDL monitoring events, the City was able to augment the WER study by collecting samples for the Biotic Ligand Model parameters. WPD also utilized existing autosampler/flow gage stations to provide additional wet weather composite samples for the WER analyses.	In progress

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Los Angeles River Watershed Wide Monitoring Plan	The City participates in this POTW NPDES permit-required comprehensive monitoring plan that covers the entire watershed. The Los Angeles River Watershed-Wide Monitoring Program is an integrated approach to water quality monitoring designed to address inefficiencies and improve coordination between existing but disparate monitoring programs.	In progress
Machado Lake Nutrient TMDL Monitoring	The City began sampling for the Lake Water Quality Management Plan (LWQMP) on April 4, 2011. This marked the beginning of biweekly compliance monitoring for the Nutrients TMDL. The first Annual Report was submitted to the Regional Board in June 2012, which covered monitoring events from April 2011 through December 2011.	In progress
Reseda Park Lake Monitoring	In July 2011, the City began monitoring nutrients and general water quality parameters at Reseda Lake. The monitoring continues on a monthly basis in order to determine which species of fish might be suitable for stocking and to determine the effectiveness of BMPs that were recently implemented at the lake.	Completed
A.F. Hawkins Constructed Wetlands	The City surveys this constructed wetlands and stormwater capture BMP each month for general water quality and observations.	In progress
Garvanza Park Stormwater Capture Project	Following construction of the Garvanza Park project, the City conducted dry and wet weather monitoring to determine the pollutant load reduction accomplished by this structural BMP. Automated samplers and flow meters were used to collect composite samples and collect continuous flow data during selected storm events.	Completed
Riverdale Ave Green Streets Project	The City continued with post-construction monitoring for this stormwater infiltration project. In addition to wet weather sampling, a controlled-study was conducted to determine the infiltration rate of runoff that enters the infiltration basins. The information obtained in this study can be used to document the longevity of the infiltration basins as an effective means of reducing stormwater runoff.	Completed
Woodman Ave Stormwater Project	The City conducted "baseline" water quality monitoring in the watershed area of the future Woodman Ave Stormwater BMP project site. Samples were collected for three selected storm events in the 2011-2012 storm season.	Completed
LA River Wet Weather Bacteria Sampling	The City conducted sampling for bacteria and suspended sediments throughout the 2011-2012 storm season in Los Angeles River upstream and downstream discharge point of the Donald C. Tillman Water Reclamation Plant. The sampling was conducted in order to quantify ambient bacteria and sediment concentrations during dry and wet weather conditions.	Completed

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Humboldt Street Drain	The City conducted bacteria sampling and source tracking in the Humboldt Street drainage system, which discharges to Los Angeles River.	Completed
Arroyo Seco Stormdrain Reconnaissance	The City participated in a reconnaissance trip along Arroyo Seco along with members from a consulting team. The survey was conducted to document the number of flowing discharges, and to create an effective sampling and analysis plan for a future Load Reduction Strategy.	Completed
Ballona Creek Stormdrain Reconnaissance	The City assisted the consultant team during a reconnaissance trip along Ballona Creek and Sepulveda Channel which aimed to quantify bacteria loads originating from the storm drain system, in support of the Ballona Creek Bacteria TMDL.	Completed